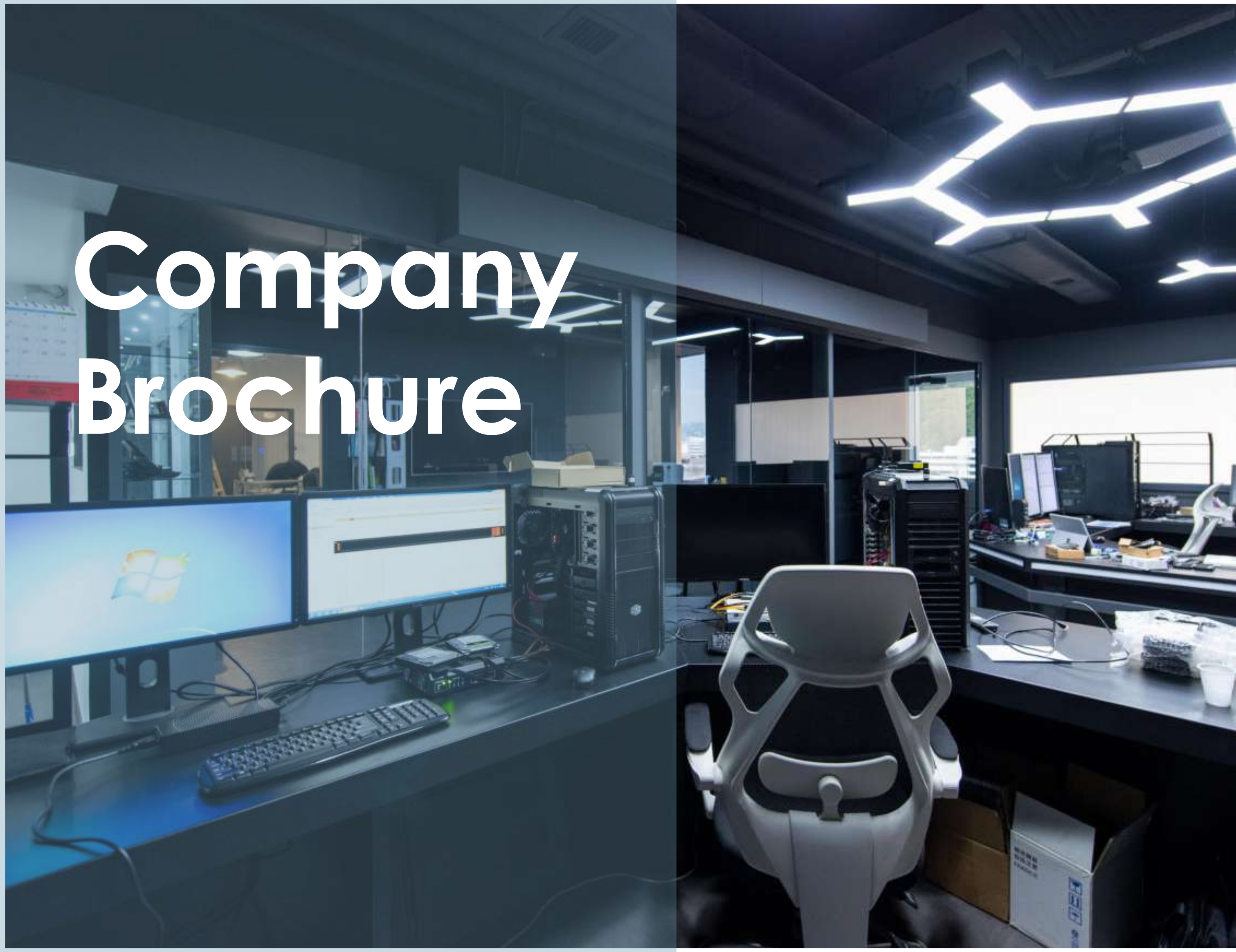


Company Brochure

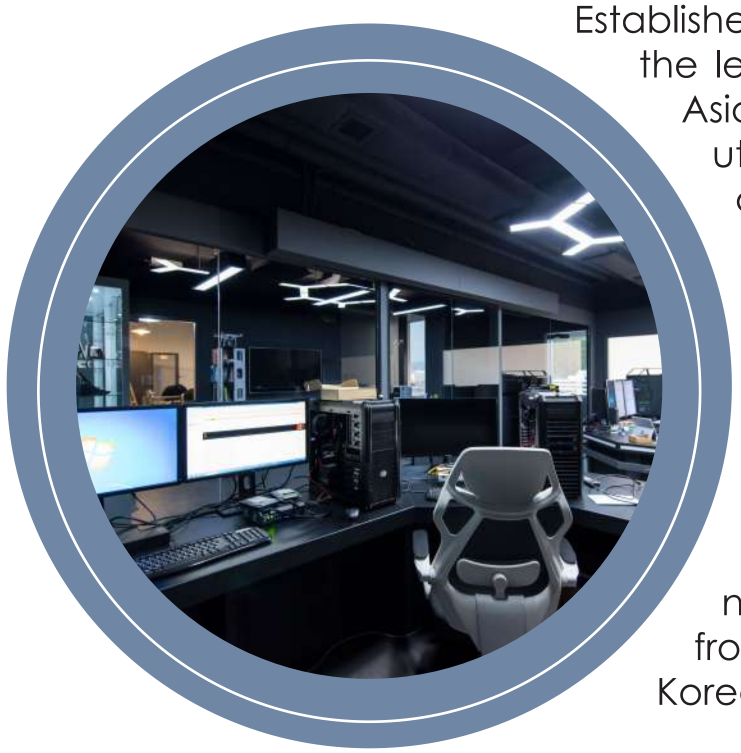
Singapore | Thailand | Philippines
Hong Kong | Macau | Shenzhen |Guangzhou | Shanghai

www.dataexpert.asia

info@dataexpert.asia

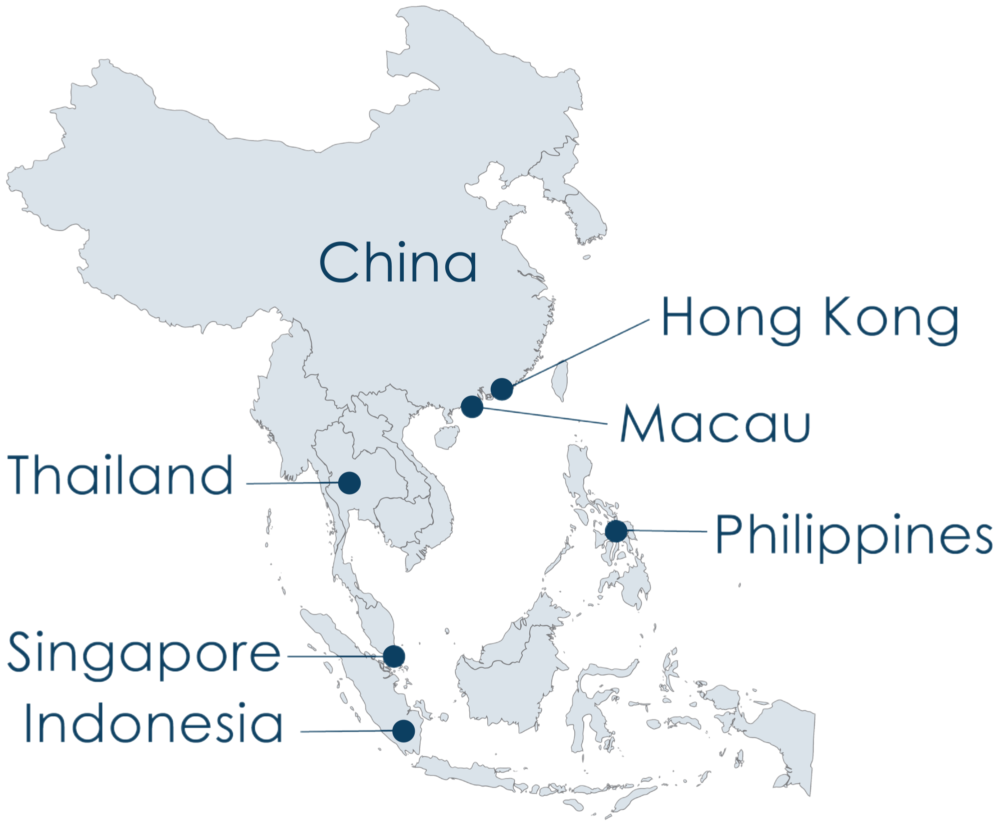
bsi
ISO/IEC
27001
Information Security
Management
CERTIFIED

About Us



Established in 2005, DataExpert has been one of the leading suppliers in IT security industry in Asia. We develop, manufacture and distribute professional products in the fields of data recovery, data erasure, data destruction and digital forensics. Closely following the latest technologies, we always provide the most advanced IT assets management solutions for our clients, including government departments, organizations, enterprises, banks, SMEs and individuals all over the world. We have constructed close partnership with competitive companies from Greater China, Singapore, Japan, Korea, Russia, US, Canada and other regions.

Our Offices



Our Business

Digital Forensics and Incident Response(DFIR)

DataExpert Digital Forensics Laboratory is the first and only private owned full-service digital forensics lab in Hong Kong. Our team members have over 20 years of experience in digital forensic services, work closely with clients from law enforcements, government departments, law firms and corporates. We know what you want, and also know how technologies can help you.

We provide...

Products

Services

Laboratory

IT Asset Disposition(ITAD)

Inappropriate discard out-of-date IT asset may lead to the risk of data leakage. DataExpert started its secure data disposal business in 2005. Equipped with the large-scale data wiping machines, NSA degaussers, multifunctional shredders and a millimeter-level SSD Disintegrator in Data Disposal Center, DataExpert has been one of the leading service and product suppliers in data security industry.

We provide...

Products

Services

Data Expert™

Digital Forensic Products

Forensic Workstations

Cyber MZR-X
Digital forensic desktop

Cyber MZR-DT Workstation
Digital forensic workstation

Forensic Tower
Digital forensic workstation

Forensic Laptop
Digital forensic laptop

Talino Series
Sumuri harware solution

MZ-CR CryptoForce System
GPU Crypto processing system

Computer Forensic

Forensic Cube V3
Crime scene all-in-one device

Atola Insight Forensic 2.0
Portable forensic tool for imaging and recovering data and support damaged drives

Atola TaskForce
Portable high-performance forensic imager with 18 ports

Atola TaskForce 2
High-performance forensic imager with 26 ports

FORENSIC ANALYZER
Forensics Analyzer
User friend forensic analysis softwaretion

DE Forensic Write Blocker
Multi-interface write blocker

Portable Write Blocker Series
Compact write blockers

Belkasoft N
Digital incident investigation software

Belkasoft X
Computer, mobile and cloud forensic tool

Elcomsoft Premium Forensic Bundle
Computer and mobile extraction tool

Sumuri CARBON VFS
Virtual Windows forensic suite

Mobile Forensic

GMDSOFT MD-NEXT
Data extraction software

GMDSOFT MD-RED
Data analysis software

GMDSOFT MD-LIVE
Live extraction and analysis software

Mobile Forensics System
Mobile data acquisition & analysis solution

MOBILedit Forensic Pro
Data extraction and analysis software

Elcomsoft Mobile Forensic Bundle
Acquisition, decryption and analysis software

SecurCube PhoneLog
CDR & cell site location cross-analysis solution

macOS Forensic

Sumuri RECON ITR
macOS Imaging tool

Sumuri RECON LAB
Advanced Mac analysis tool

IOT Forensic Solution

GMDSOFT MD-DRONE
Drone extraction and analysis software

Anti-Drone Gear*
Low altitude drone defense system.

GMDSOFT MD-CLOUD
Cloud extraction and analysis software

MOBILedit Cloud Forensic
Solution for cloud extraction

GMDSOFT MD-VIDEO
Video extraction and analysis software

ARMADA
CipherTrace Armada
Crypto risk and fraud controls

INSPECTOR
CipherTrace Inspector
Blockchain forensics

SENTRY
CipherTrace Sentry
Crypto AML transaction monitoring

BTS Tracker
BTS Tracker
Cell tower analyzer

Data Recovery

Recovery Master
All-round data recovery tool

Regen-i Rework Station
BGA rework station

ruSolut VNR
Chip-off data recovery and analysis solution

GMDSOFT MD-READER
Chip-off memory extraction hardware

Digital Forensic Lab Solution

Examiner Work Desk
Single person digital forensic workbench

L-shape Workbench
Single person digital forensic workbench

3-Person 120° Workbench
Multi-person digital forensic workbench

3-Person Long Workbench
Multi-person digital forensic workbench

Cyber Colab
Collaboration hub

Evidence Preservation and Reception Workbench
Evidence preservation and reception workbench

Conference Table
Digital forensic lab furniture

Disassembly and Repair Work Table
Device disassembly work table

Smart Evidence Locker
Evidence locker with recording function

Display Screen
Digital forensic lab display

*Sale for export only

ITAD Products

Degaussers

MagWiper NSA Degausser
NSA EPL listed degausser

MagWiper MW-15X
17-second charged degausser

MagWiper MW-25X
Middle model degausser can erase hard disk without remove the mounting brackets

MagWiper MW-30X
Large model degausser can erase B4 notebook or 51 units of 2.5" HDDs simultaneiusly

Hard Disk Shredder / Crusher

Standard Hard Disk shredder
Small server hard disk shredder for office use

Standard Combo Hard Disk Shredder
20mm and 5mm combo blade shredder for office use

Combo Hard Disk Shredder
18mm and 9mm combo blade shredder

H5 Level hard disk Shredder
DIN 66399 Standard H5 Level HDD Shredder

Flash, SSD & Mobile Phone Shredder
SSD shredder with 2*2 mm particle size

Server Hard Disk Shredder
Server hard disk shredder with optional video recording

HDD Crusher
NSA- and DoD-compliant HDD crusher

Industrial E-Waste Shredder
Light e-waste solution for computers and printers

CD & Paper Shredder

Paper & CD shredder (4 x 40 mm)
P4 level paper & CD shredder

Paper & CD shredder (4 x 35 mm)
P4 level paper & CD shredder

Paper & CD shredder (2 X 15 mm)
P5 level paper & CD shredder

Paper & CD shredder (1 X 2 mm)
P5 level paper & CD shredder

Optical Disk Shredder
Cut CD/DVD into 2x2 mm

Level O-5 Optical Media Shredder
Final particle size 2.2mm x 42mm

Disintegrator

Circuit Board & Chip Disintegrator
High security disintegrator for memory chips and microchips

Duplicator & Wiper

Blancco Drive Eraser
Data sanitization solution

Clonix NetClon Portable
Network-based Disk Duplicator & Wiper

Clonix NetClon (16 ports)
Network-based Disk Duplicator & Wiper

Clonix DiskClon Portable
Disk duplicator & wiper

Clonix DiskClon (16 ports)
Disk duplicator & wiper

YEC Demi YG2022
Light weight duplicator and wiper

YEC Demi YG2040
Dependable and versatile duplicator

YEC HIT MG2060
PCIe M.2 & SATA duplicator

YEC Deca YG2043
Multi interface test erasure solution

YEC DECA YG2044
Multi interface test erasure solution

Professional Services

Digital Forensic Service

Data Expert

bsi ISO/IEC 27001 Information Security Management CERTIFIED

Experienced and professional service for finding the electronic evidence.

Our advantages

- ✓ Over 20 years in digital forensic services
- ✓ 1st digital forensics laboratory in HK
- ✓ Professional Service Ethics
- ✓ Comprehensive Service Scope

What is Digital Forensic?

Digital forensics, as a science, is the process used to acquire, preserve, analyze, and report on electronically stored information using scientific methods that are demonstrably reliable, verifiable, and repeatable.

Digital forensic can apply for:

- Employees fraud
- Investigation of personal computer
- Private investigation of cellular phone
- Inappropriate data duplication
- Intellectual property fraud
- Breach of contract
- Inappropriate Internet & Email Usage

Digital Forensics Procedure

ACQUISITION

- Evidence Identification
- Triage
- Collection
- Preservation

ANALYSIS

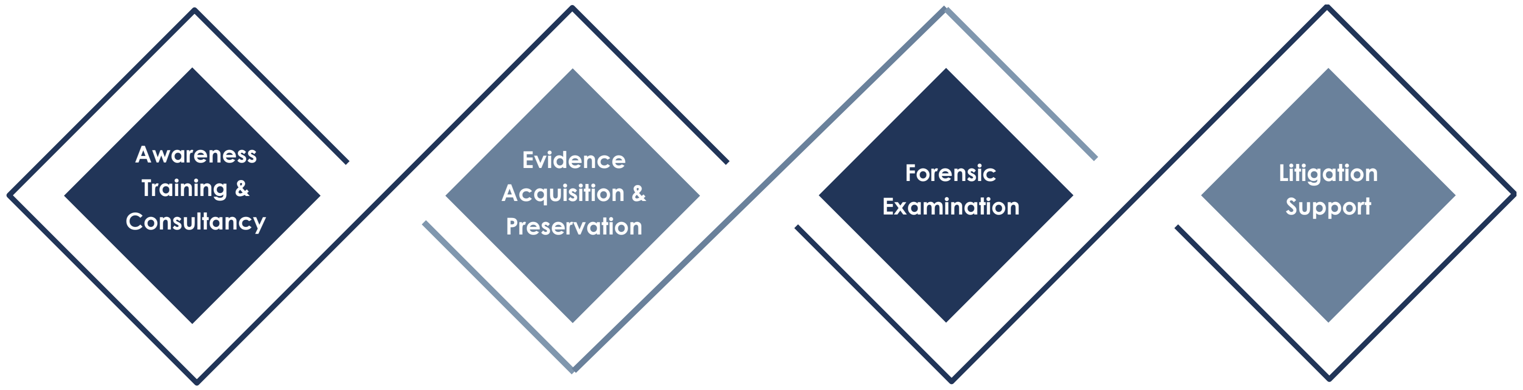
- Pictures and Videos
- System Registry
- Emails
- Mobile APPs
- Browsing History
- Instant Messengers
- Office Documents
- Peer-to-peer Platform
- Data Recovery
- Encrypted Files

REPORTING

- Chain of Custody
- Examination Report
- Court Testimony

Digital Forensic Service

Our Services


Awareness Training & Consultancy
Evidence Acquisition & Preservation
Forensic Examination
Litigation Support

Service Scope

- Digital Evidence Acquisition & Preservation
- E-discovery
- Forensic Data Recovery
- Password Cracking
- Forensic analysis
- System Emulation
- Keyword Searching
- Chats & Instant Messenger History Analysis
- User Artifacts Analysis
- Timeline Analysis
- Document Authentication
- File Attribution Identification
- Email Investigation
- Deleted/Damaged/Encrypted Data Recovery
- Smartphone Unlock
- Embedded images extraction and OCR

Our Promise

Digital Forensic Service Principles

Principles

- Actions taken should not affect the integrity of original data
- Investigator conducting examination must be well trained and positioned at senior level
- Actions taken during seizure, examining, storage or transfer must be documented timely and accurately
- Determine the course of each action in forensic sound manner

Our Team

Qualifications

- IACIS Certified Forensic Computer Examiner (CFCE)
- IACIS Certified Mobile Device Examiner (ICMDE)
- Cellebrite Cellphone Certified Investigator in CCPA and CCLO
- HancomWITH Certified Mobile Forensic Professional
- Meiya Pico Certified Examiner of Mobile Forensic System
- Meiya Pico Certified Examiner of Forensic Master
- Certified Information Systems Security Professionals (CISSP)
- Microsoft Certified System Engineer + Internet (MCSE+I)
- SUMURI Mac Forensics Examiner
- Magnet Certified Forensic Examiner (MCFE)
- Belkasoft Certified Examiner (BelkaCE)
- HRSS Digital Forensic Examiner (Intermediate)
- Cisco Certified Network Associate (CCNA)
- Flash Device Pinout Analyst
- CipherTrace Certified Cryptocurrency Examiner

Membership

- Member of High Technology Crime Investigation Associate (HTCIA)
- Member of International Association Computer Investigation Specialists (IACIS)

Data Recovery Service

Forensics Laboratory & Class 100 Cleanroom Based Data Recovery Service.

Our advantages

- ✓ ISO/IEC 27001:2013 certified
- ✓ Chip-off data recovery for severe damage
- ✓ Class 100 Cleanroom
- ✓ Recovery for different types of media, OS and file

Our Promise

Your data is unparalleled safe in DataExpert

- DataExpert Technology Limited got **ISO/IEC 27001:2013 Information Security Management** certified by BSI under certificate number IS 642998, for the scope of “The provision of data recovery and disposal services”.
- We shall treat all material supplied by the client as confidential and shall not divulge any confidential information to any person.
- All employees in DataExpert have signed NDA and guarantee not to disclose any client information.

Types of Failures

Logical Failure

- Delete files wrongly
- Boot failure
- Data loss due to formatting/OS upgrade
- Database failure
- Unusual encryption

Physical Failure

- Wear and tear of parts
- Collision
- Flooding
- Fire

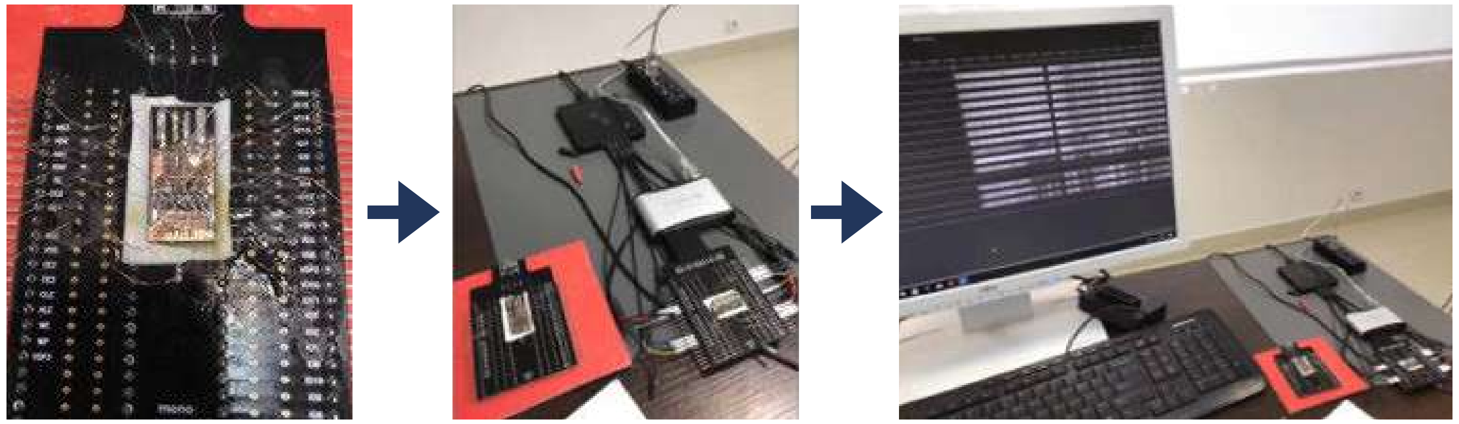
* Open case checking or chip-off data recovery may be needed

Class 100 Cleanroom

As to maximum the chance of recovering your data, DataExpert is beware on every step may affect the possibility of data recovery. The contaminants in the air can cause physical media damage and destroy the data if the hard disk open in normal surrounding. Therefore, DataExpert setup a **Class 100 Cleanroom** which ensures the **air contains no more than 100 dust particles per cubic foot** to prevent the physical damage.

Chip-Off Data Recovery

For the severe damage, we need to remove the chips from the failed devices and read the chip contents by flash data recovery tools.



Data Recovery Service

DataExpert™

bsi ISO/IEC 27001 Information Security Management CERTIFIED

Support Types

Media

- Hard drive, micro drive, RAID, NAS, SAN, etc
- CD/DVD/Blue ray optical disc
- PC, tablet, cellphone, smartphone
- SSD drive, CF, SD card, Mico SD, MS, USB drives
- Magnetic tape (DLT, LTO etc)
- Digital albums frame, MP3/MP4 player, PDA
- iMac, Macbook, Powerbook, iPhone, iPad, iPod, etc
- SyQuest, MO, JAZ, ZIP, floppy diskettes

OS

- Windows 2000/XP/Vista/7/8/10/11
- Windows 95/98/98SE/ME
- Mac OS
- Unix, Linux
- Novell NetWare
- All database systems
- Windows NT/Server2003/Server2008/Server2012
- DOS/Windows 3.X
- APFS
- iOS, Android, Windows Mobile, Symbian, etc
- OS/2

File

- Pictures and videos
- Browsing history
- Instant messengers
- Peer-to-peer software
- System files
- Emails
- Mobile applications
- Office documents
- Windows registry
- Encrypted files

Implementation Plan

Service	Stage 1: Analysis	Stage 2: Data Recovery
Priority	1 - 2 workdays	1 - 2 workdays
Standard	3 - 4 workdays	3 - 4 workdays
Onsite	1 workday	1 workday

Work Flow

Consultancy	• Contact your consultant by sending email to **info@dataexpert.com.hk** or calling at **+852 3590 2115**. • **No consulting fee.**
Media Collection	• Hand over your media to DataExpert office, or Media Collection • Make an reservation of onsite collection **(free of charge)**
Analysis	• Analyse the media to find out the cause of fault.
Analysis Report & File List	• Generate a list of file that can be recovered.
Data Recovery	• IT engineer will recover the files assigned by client.
Delivery	• We will return the original media and a new media with recovered files to client.
Technical Support	• All recovered data will be **kept for 30 days** before permanently deleted, feel free to contact us for futher

Case Study

Hard disk data recovery for a school fire

In 2007, there was a fire in a Hong Kong secondary school. The server which contained all final exam questions were burnt severely and some of the hard disks were burnt or deformed. DataExpert tried to recover the data by open case data recovery in Class 100 Cleanroom and RAID data recovery. Finally, 50% of the data were recovered successfully which included all the exam questions.

Digital Forensic Laboratory

Data Expert™

bsi ISO/IEC 27001 Information Security Management CERTIFIED

Build your own digital forensic laboratory (DFL).

Why Digital Forensic Laboratory is Needed?

Advantages of DFL

Optimize electronic devices management processes to better support digital forensic practitioners.

Enhance digital forensics capabilities in high-tech crimes investigation.

Establish guidelines for the intake, marking, tracking, protection, handling and return of the evidence in the Digital Forensic Laboratory.

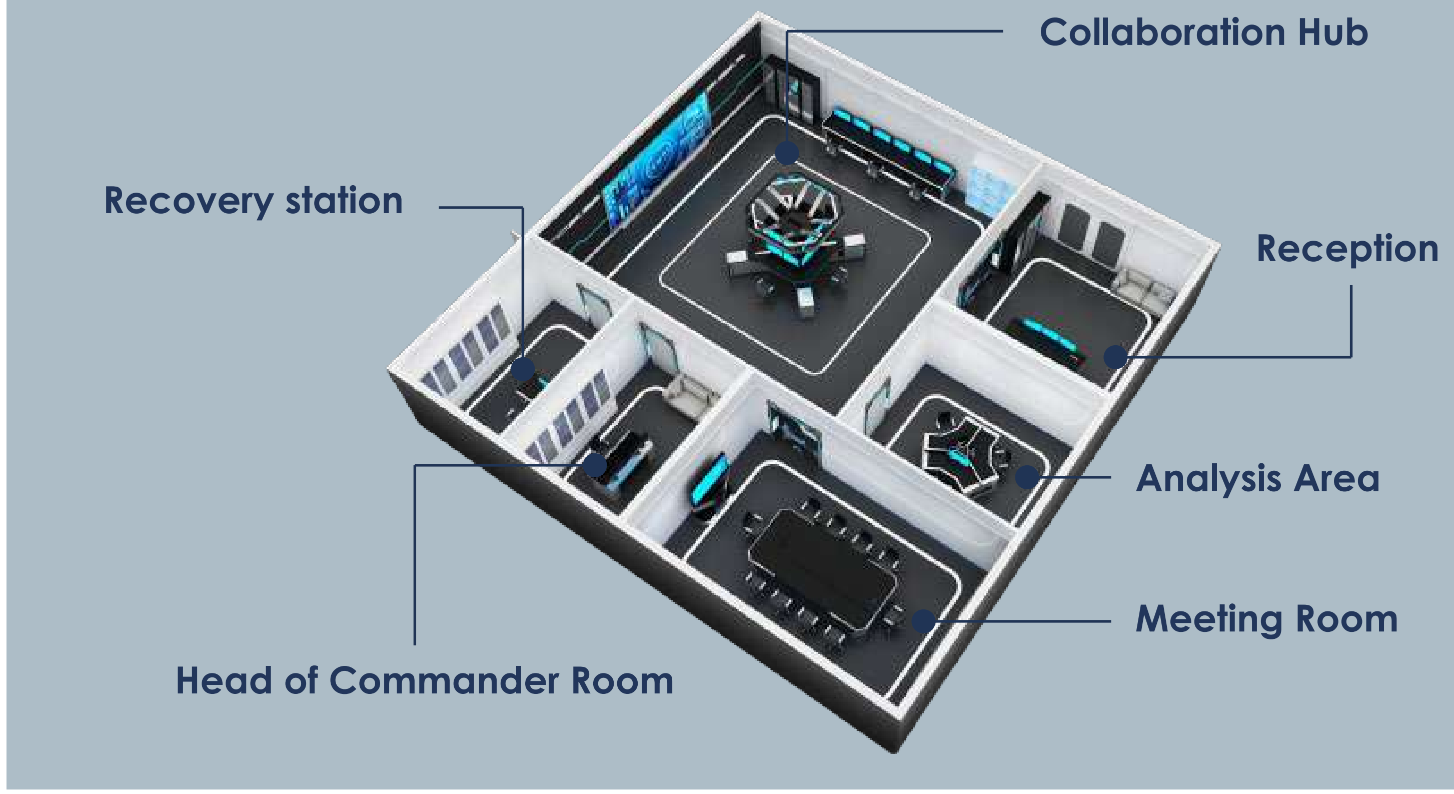
Get access to fully validated hardware and software to produce the court acceptable results.

Our advantages

- Consist of a highly experienced team of talented digital forensic professionals
- First and only commercially operated digital forensic laboratory in Hong Kong
- Commit to more than 20 high quality DFLs to law enforce agencies worldwide
- Meet the unique requirements by providing a customized solution

One-Stop Service

Planning & Budgeting → Design → Construction → Accreditation



Digital Forensic Laboratory

Data Expert™

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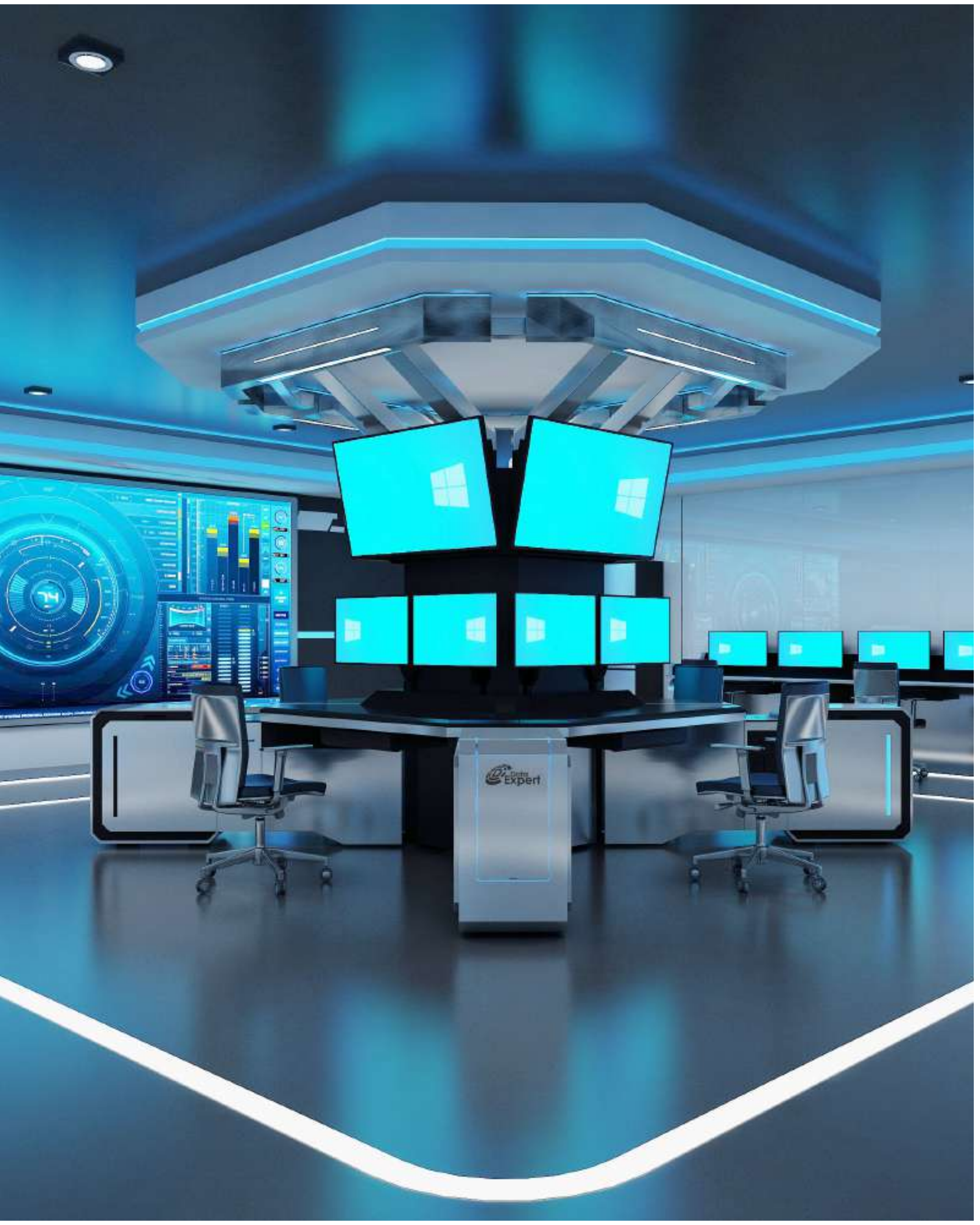
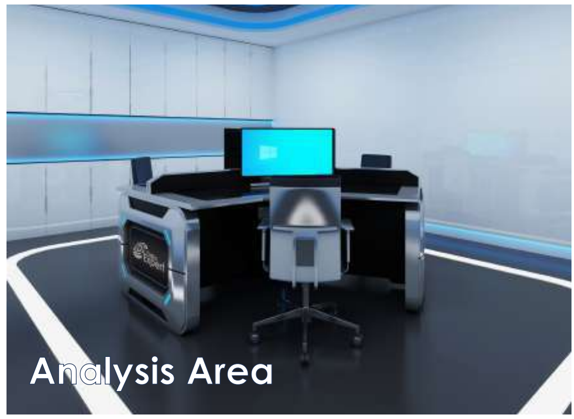
DataExpert

DataExpert
DataExpert

Meeting Room



Head of Commander Room

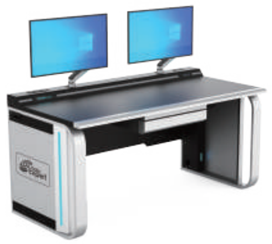


Analysis Area

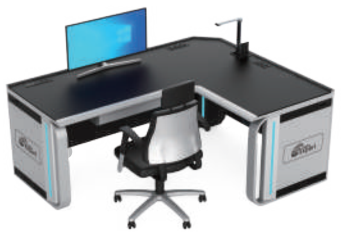
DataExpert

Analysis Area

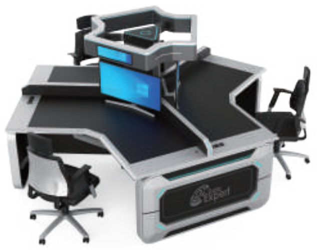
Components



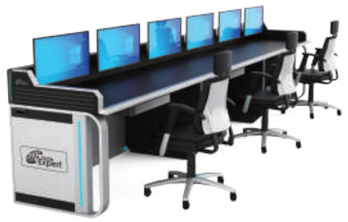
Examiner Work Desk
DE1902-PLUS
L1600*W800*H750



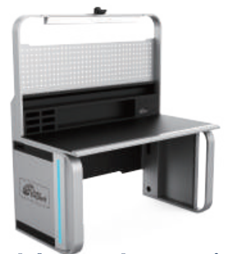
L-shape Workbench
DE1902-L
L1900*W1500*H750



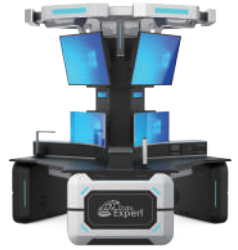
3-Person 120° Workbench
DE1902-T
L2900*W2500*H750



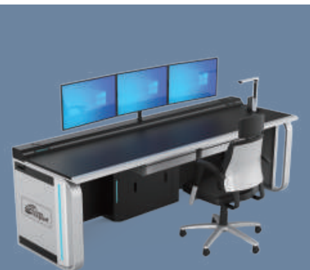
3-Person Long Workbench
DE1902-M3
L1200*W800*H750



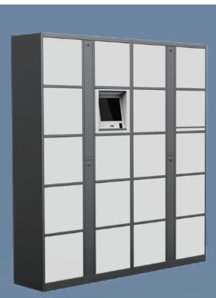
Disassmembly and Repair Worktable
DE1904
L1400*W800*H750 (Destop Panel: H1600)



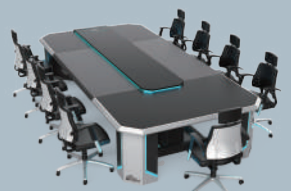
Cyber Colab
Cyber Colab
L2620*W3400*H750



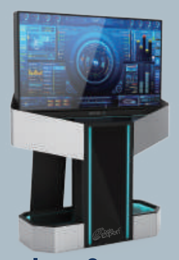
Evidence Preservation and Reception Workbench
DE1902-P3
L2500*W800*H750



Smart Evidence Locker
DE1904
L900*W490*H1850



Conference Table
DE1902-D
L3300*W1600*H750



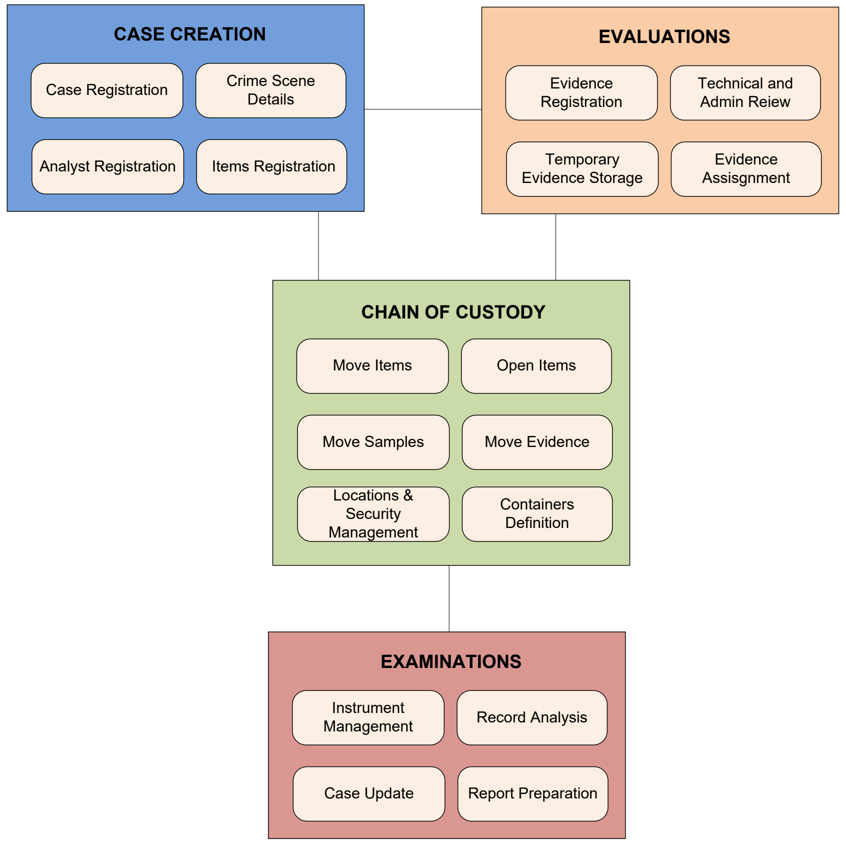
Display Screen
DE1901-ES
L1625*W580*H2000

COMPLIANCE

Our FLIMS ensures that the process implemented in the Forensic Lab, follows the ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories to ensure that all instruments and calibration are done in accordance to the International Standards, that governs the laboratory :

- ISO Procedures
  - Publications and Forms
  - Laboratory Wide Documents
  - Procedures
- Technical Procedures
  - Digital Evidence Management
  - DNA Database
  - Drug Chemistry
- Firearm and Tool Mark
- Forensic Biology
- Latent Evidence
- Toxicology
- Trace Evidence

Example of Simple FLIMS Model



CASE CREATION
Case Registration
Crime Scene Details
Analyst Registration
Items Registration

EVALUATIONS
Evidence Registration
Technical and Admin Reiew
Temporary Evidence Storage
Evidence Assisgnment

CHAIN OF CUSTODY
Move Items
Open Items
Move Samples
Move Evidence
Locations & Security Management
Containers Definition

EXAMINATIONS
Instrument Management
Record Analysis
Case Update
Report Preparation

DataExpert Technology Limited
Unit 803 & 805, 8/F., Tower 1, Ever Gain Plaza, No.88 Container Port Road,
Kwai Chung, NT, Hong Kong.
Tel : ++852 3590 2115

Forensic
FLIMS
Lab Information Management System

IT Consulting
Forensic
Defense
Intelligence
Cyber Security

Forensic Lab Information Management System—FLIMS

SOLUTION OVERVIEW

Forensic laboratories rely heavily on lab centric technologies to collect and analyze evidence. To keep pace with increasing volumes, it is important that these organizations leverage technology to enhance the productivity and accountability of their examiners and overall operations. FLIMS is a full featured Forensic Laboratory Information Management System (FLIMS) that offers the flexibility, scalability and reliability necessary to ensure the smooth operation of a forensic laboratories.

FLIMS utilizes Thin Client technologies that allows a centralized management system from the Central Forensic Laboratory System to managed multiple Laboratories in different Sites, FLIMS also designed as modular software, which allows multiple phase implementation in order to provide better cost management for the Laboratories. These module includes ; Case Management System, Chain of Custody systems, Evidence Management System, Integrated Cyber Security System, and other Tailored Functions.

F-LIMS

- CASE MANAGEMENT
- CHAIN OF CUSTODY
- EVIDENCE MANAGEMENT
- INTEGRATED CYBER SECURITY
- DOCUMENT MANAGEMENT
- ISO/IEC 17025 COMPLIANCE SYSTEM
- ADVANCED USER MANAGEMENT
- TAILORED FORENSIC DIVISION SYSTEM
- MOBILE MANAGEMENT SYSTEM
- MONITORING SYSTEM.

Turn Key Solutions for your Laboratory Needs

FORENSIC LIMS THAT PROVIDES A TOTAL END TO END SOLUTION.

SCALABLE & INTEGRATED

FLIMS featured a fully scalable and integrated solution that allows the Laboratory managers to decide on which module they would like to implement first, and how many locations they need to be integrated with the LIMS with centralized repository system, it also features the following capabilities :

- Thin Client Architecture
- Web Based Applications
- Centralized or Distributed Repository System
- Distributed Processing
- Smart Resource Management

END TO END

FLIMS provided end to end features to suits the Forensic Laboratory requirements in different institutions or in different countries, it can also ensure that the Business Process and Standard Operating Procedures complied with the ISO/IEC 17025 Standards for Lab Accreditation recognized internationally. It caters all requirements from the Chain of Custody, Evidence and Case Management, and more importantly it features a mobile apps that can be accessed by Lab Analyst in the field.

TAILORED SOLUTIONS

The difference between FLIMS compared to other solutions in the market is that FLIMS are able to be fully customized for different Forensic Laboratories standard, .while at the same time able to maintain the Internationall Best Practice Standards. It can also be integrated with a Monitoring System for Laboratory Manager and Management to monitor Case progress, Budget and Expenditures, to better managed the Lab in more efficient manner.

Our Turn Key Solutions Capability Summary

- Platform Independent Model
- Web Based / Application Based
- Supports Mobile Platform
- Integrated Monitoring Center
- Integration with other Laboratory System
- Forensic Laboratory Equipment Procurement

CUSTOM SOLUTIONS

Smarter Forensic Lab
Reduced Integration Cost
Improved Quality and Compliance
Improved Efficiency
Easily Support New Requirements
Scalable Systems
Integration With Legacy Systems

WEB SOLUTIONS

Reduced Implementation Cost
Centralized Repository System
Improved Case Management
Secure Evidence Management
User Access Control
Accessibility Everywhere
Distributed Processing

MOBILE SOLUTIONS

On Demand Access
Mobile Lab for Analyst
Increase Processing Speed
Improved Chain of Custody
Evidence Documentation
Multiple Analyst Deployment

IT Asset Disposition Service

All-rounded data disposal services fit for different compliance and standards.

Our advantages

- ✓ **ISO/IEC 27001:2013 certified**
- ✓ **Wide-ranging solutions for different standard**
- ✓ **All-rounded solutions for different media**
- ✓ **One-stop Service**

Our Promise

Your data is unparalleled safe in DataExpert

- DataExpert Technology Limited got **ISO/IEC 27001:2013 Information Security Management** certified by BSI under certificate number IS 642998, for the scope of "The provision of data recovery and disposal services".
- We shall treat all material supplied by the client as confidential and shall not divulge any confidential information to any person.
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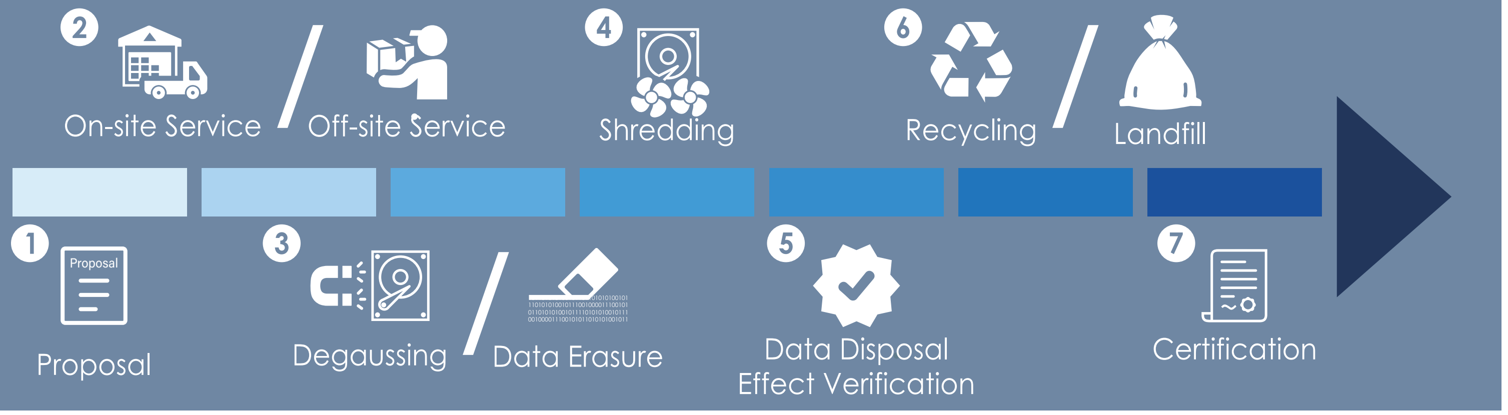
Work Flow



1 Proposal

2 On-site Service / Off-site Service

3 Degaussing / Data Erasure

4 Shredding

5 Data Disposal Effect Verification

6 Recycling / Landfill

7 Certification

Compliance & Standards

- NSA Standard
- NIST SP 800-88
- Hong Kong Government Guidelines
- EPA regulations
- FACTA
- Sarbanes-Oxley Act
- NIAP EAL 4+
- US Air Force System Security Instruction 5020
- US National Computer Security Center TG-025
- German VSITR
- Australian Defense Signals Directorate ACSI-33(X1-P-PD)
- CIS GOST P50739-95
- Standard single pass overwrite
- US DoD 5220.22M
- NISPOM
- Infosec 5
- HIPPA
- GLBA
- ISO 27001
- US Army AR380-19
- US Navy Staff Office Publication P-5329-26
- NATO NIAPC
- Australian Defense Signals Directorate ACSI-33(X0-PD)
- Canadian RCMP TSSIT OPS-II Standard Wipe
- CSEC ITSG-06

Media Types & Destruction Methods

		Logical Destruction		Physical Destruction	
		Degaussing	Wiping	Shredding	V-shape Bending
Magnetic Media	Hard Disk	✓	✓	✓	✓
	Magnetic Tape	✓	x	✓	x
	Floppy Disk	✓	x	✓	x
	Zip Drive	✓	x	✓	x
	MO Disk	✓	x	✓	x
Flash Memory	SSD	x	✓	✓	x
	USB Drive	x	✓	✓	x
	Memory Card	x	✓	✓	x
	Cellphone	x	✓	✓	✓
Optical Disc	CD	x	x	✓	x
	DVD	x	x	✓	x
	Blue-ray Disc	x	x	✓	x

IT Asset Disposition Service

Proposal

1. Receive your enquiry of **media type**, **number** and **standards & compliance**.

2. Assign a **project manager** to follow up your case.

3. Project manager will prepare a proposal which fit for your need.

Logical Destruction

Degaussing

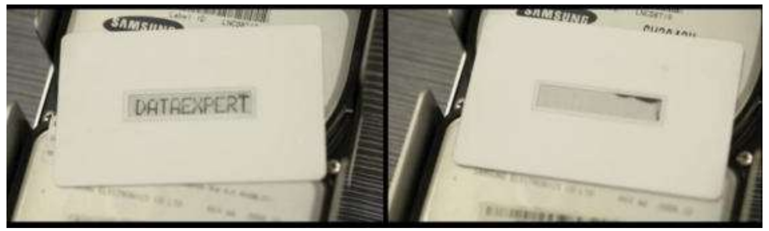
Conduct degaussing on each magnetic media with a qualified degausser which can generate magnetic field at least **1.5 times** higher than the coercivity (resistance to demagnetization) of the media.

Degausser Magnetic Field Intensity

MW-15000X	MW-25000X	MW-30000X	MW-1B
Approx. 10,000 Oe			Approx. 20,000 Oe

Degaussing Effect Verification - Magnetic Checker Cards (Recommended 20% samples)

1. Before being degaussed, check checker card shows the given pattern of "DATAEXPERT".
2. Place the magnetic checker card into degausser chamber together with the target media.
3. After degaussing, the particles of the card are randomly distributed if the media has been degaussed successfully.



Before Degaussing After Degaussing

Labeling

Label each magnetic media as **"100% degaussed"** after full completion of degaussing.

DataExpert www.dataexpert.com.hk
Certificate stamp of 100% Degaussed
by Magnetic Degausser

Wiping/Erasure

Wiping offers a secure data destruction solution by **overwriting the media in specific patterns**. It allows client to erase data permanently and securely , while **keeping the media usable**. However, wiping is not always successful when dealing with malfunctioning media.

Physical Destruction

Shredding

By cutting storage media into small particles, it provides an additional protection for degaussed media, and an unparalleled choice for media which failed to wipe normally.

Shred Size Specification

	DED-SHS	DED-CDS2	DED-MMS3	DED-MMS2	DED-CDPS	DED-SSD01	DED-SSD2XS	DED-HDS35
Server HD	40*R	-	-	-	-	-	-	20*20
3.5" HD	40*R	-	-	40*R	-	-	-	20*20
2.5" HD	20*R	-	10*R	5*R	-	-	-	20*20
SSD	20*R	-	10*R	5*R	-	0.5*0.5	2*2	-
USB	20*R	-	2*5	5*R	-	0.5*0.5	2*2	-
CD/DVD/Blueray Disk	-	1*5	4*20	40*R	1.6*4	0.5*0.5	2*2	-
Magnetic Tapes	40*R	-	-	40*R	-	-	-	50*≤50
Memory Cards	-	1*5	2*5	5*R	-	0.5*0.5	2*2	-
Cell Phone	20*R	-	40*R	5*R	-	-	-	-
Chips	-	-	40*30	5*R	-	0.5*0.5	2*2	-
Paper	-	-	40*20	-	1*5	-	-	-

Dimension: mm R: Random

Recycling and Disposal

Recycling

1. Provide transportation to deliver destroyed media to recycler.
2. Recycle degaussed/wiped media by Hong Kong Environment Protection Department (EPD) authorized computer recycler.
3. E-waste can become new material after proper processing and categorization.

Landfill (for non-recyclable E-waste only)

1. Provide transportation to deliver destroyed media to disposal area.
2. Landfill non-recyclable residue according to the Waste Disposal Ordinance under Hong Kong Law.

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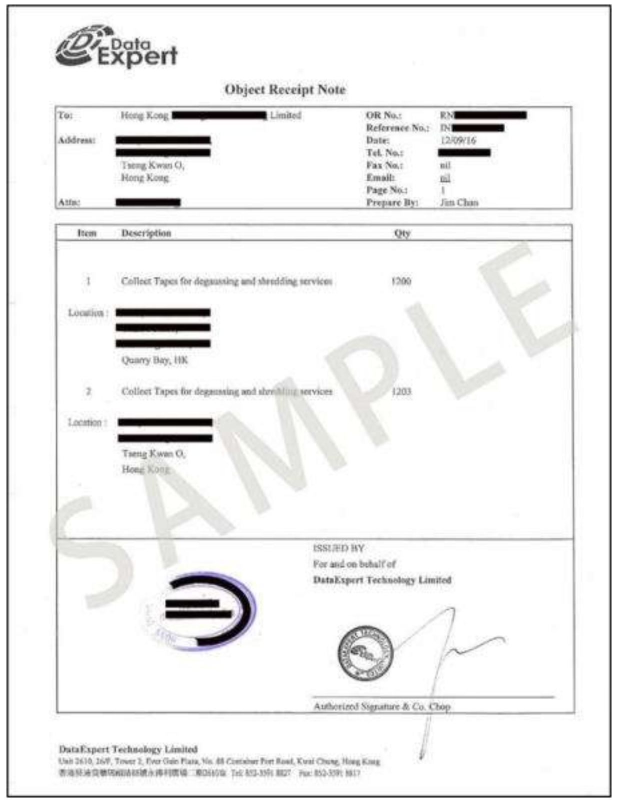
Document And Certificate

Object Receive Note

Checking list of obsolete media, recorded media type, quantity, model, serial number, service date, person in charge, etc. Both DE project operator and client should sign on it, to confirm media collection information.



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Object Receipt Note

To:	Hong Kong [redacted] Limited	OR No.:	RN[redacted]
		Reference No.:	IN[redacted]
Address:	[redacted] Tseng Kwan O, Hong Kong	Date:	12/09/16
		Tel. No.:	[redacted]
		Fax No.:	nil
		Email:	nil
		Page No.:	1
Attn:	[redacted]	Prepare By:	Jim Chan

Item	Description	Qty
1	Collect Tapes for degaussing and shredding services	1200
	Location : [redacted] Quarry Bay, HK	
2	Collect Tapes for degaussing and shredding services	1203
	Location : [redacted] Tseng Kwan O, Hong Kong	

SAMPLE

[redacted]

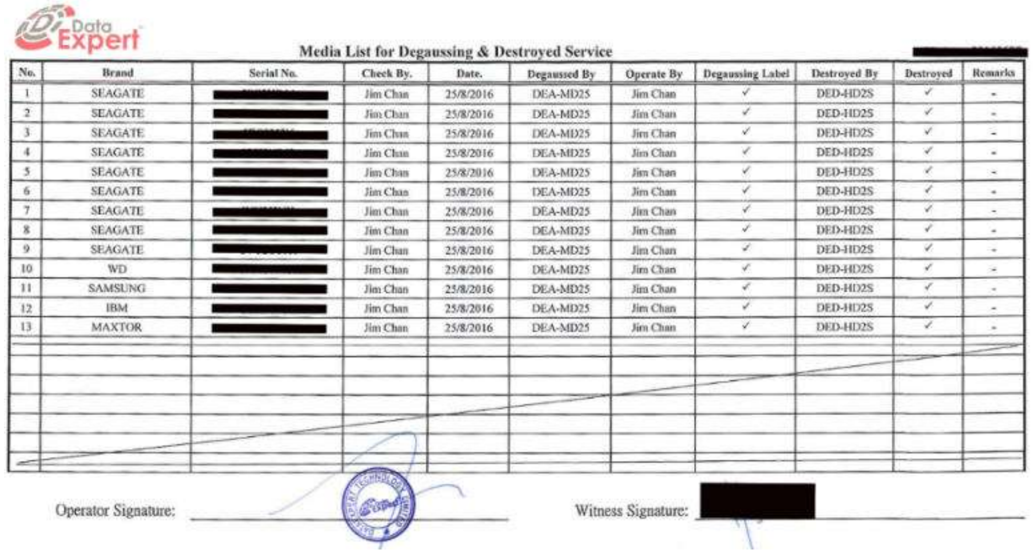
ISSUED BY
For and on behalf of
DataExpert Technology Limited

Authorized Signature & Co. Chop

DataExpert Technology Limited
Unit 2610, 26/F, Tower 2, Ever Gain Plaza, No. 88 Container Port Road, Kwai Chung, Hong Kong
[illegible] Tel: 852-3591 8827 Fax: 852-3591 8817

Media List

A checking list Media marked degaussing and physical destruction information, include media type, quantity, model, serial number, service date, time, equipment model and name of operator.



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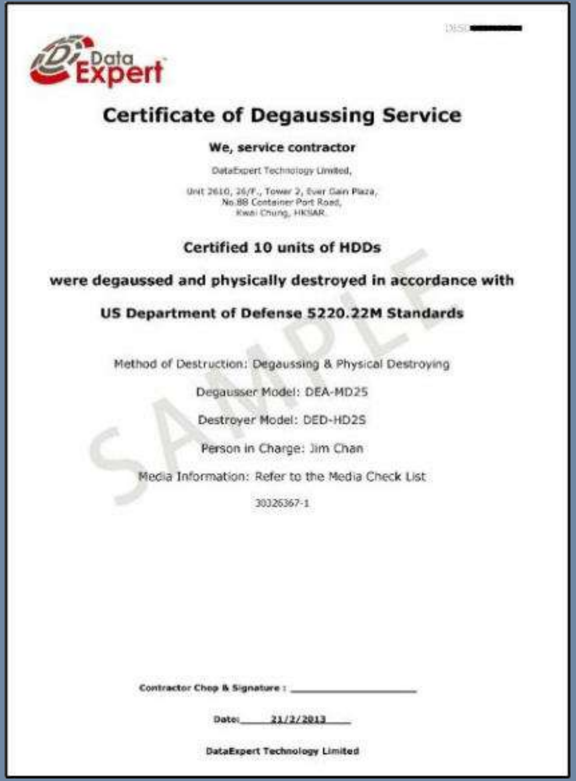
Media List for Degaussing & Destroyed Service [redacted]

No.	Brand	Serial No.	Check By.	Date.	Degaussed By	Operate By	Degaussing Label	Destroyed By	Destroyed	Remarks
1	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
2	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
3	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
4	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
5	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
6	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
7	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
8	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
9	SEAGATE	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
10	WD	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
11	SAMSUNG	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
12	IBM	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-
13	MAXTOR	[redacted]	Jim Chan	25/8/2016	DEA-MD25	Jim Chan	✓	DED-HD2S	✓	-

Operator Signature: ____________ Witness Signature: [redacted]

Certificate of Degaussing



DESD[redacted]

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Certificate of Degaussing Service

We, service contractor

DataExpert Technology Limited,

Unit 2610, 26/F., Tower 2, Ever Gain Plaza,
No.88 Container Port Road,
Kwai Chung, HKSAR.

Certified 10 units of HDDs

were degaussed and physically destroyed in accordance with

US Department of Defense 5220.22M Standards

Method of Destruction: Degaussing & Physical Destroying

Degausser Model: DEA-MD25

Destroyer Model: DED-HD2S

Person in Charge: Jim Chan

Media Information: Refer to the Media Check List

30326367-1

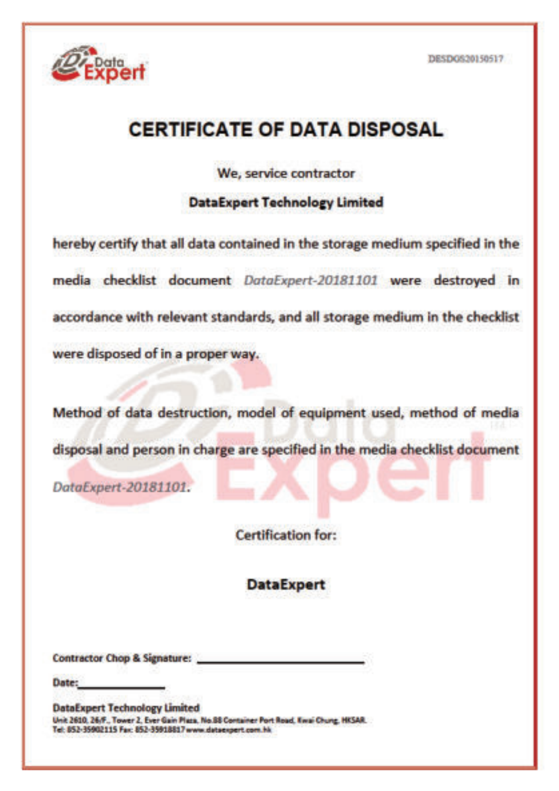
SAMPLE

Contractor Chop & Signature : ____________

Date: 21/2/2013

DataExpert Technology Limited

Certificate of Disposal



Data Expert DESDOS20150517

CERTIFICATE OF DATA DISPOSAL

We, service contractor

DataExpert Technology Limited

hereby certify that all data contained in the storage medium specified in the media checklist document *DataExpert-20181101* were destroyed in accordance with relevant standards, and all storage medium in the checklist were disposed of in a proper way.

Method of data destruction, model of equipment used, method of media disposal and person in charge are specified in the media checklist document *DataExpert-20181101*.

Certification for:

DataExpert

Contractor Chop & Signature: ____________

Date:____________

DataExpert Technology Limited
Unit 2610, 26/F., Tower 2, Ever Gain Plaza, No.88 Container Port Road, Kwai Chung, HKSAR.
Tel: 852-35902115 Fax: 852-35918817 www.dataexpert.com.hk

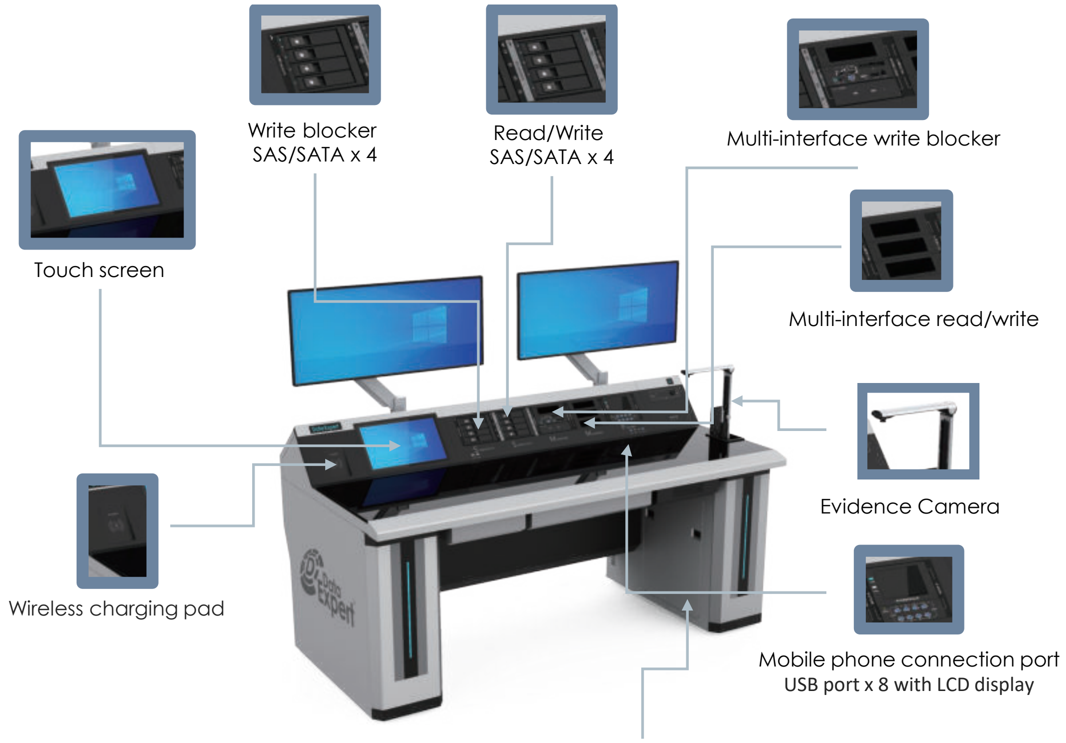
err_fmove ,<"ERROR: couldn't op
gstruc err_fread ,<"ERROR: unable to m
struc err_write ,<"ERROR: couldn't read
CR,LF> malicious virus; Install;
ruc msg ,<"Boot sector was successfu
bjReq SCAN_REQ
ObjRep
EQ

Digital Forensic and Incident Response

Forensic Workstation

Cyber MZR-X

Combination with modular hardware design & professional forensics software provides an all-in-one solution as digital forensic laboratory.


Write blocker
SAS/SATA x 4
Read/Write
SAS/SATA x 4
Multi-interface write blocker
Touch screen
Multi-interface read/write
Evidence Camera
Wireless charging pad
Mobile phone connection port
USB port x 8 with LCD display

Hardware module design
*Hardware upgradeable without replacing cyber-workstation furniture

Functions

Integrated Forensics Modules

With all necessary forensics modules integrated, forensics hardware, optional forensics software, high performance workstation and touch screen panell. MZR-X can work as a small forensics lab.

Built-in workflow

The workflow and regulations of digital forensics are built within the work process which can reduce the workload and errors.

Easy To Use

Easy operation with guidance; Simply drag and drop the material to start the work.

Modular Design

Integrated with all mature forensics technology & products, easy for maintenance and update.

Smart Forensics

Apply automated forensic tasks with customizable procedures. Investigators will no longer be occupied by manual operations, but focus more on data analysis instead.

Human Engineering design

Human oriented design provides a comfortable and friendly experience when a forensics work is executed.

Parallel Processes

Support parallel processing to improve work efficiency.

Specification

Model	Cyber MZR-X
OS	Win10 64 bits OS
CPU	Intel C612 Chipset CPU Intel i9-10
Memory	32GB DDR4 2133MHz (Upgradeable to 128GB)
Hard Drive	500GB SSD HDD (operating system) 8TB Hard Drive (Storage) x 3 unit
Write-Blocker Interfaces	Type C (USB3.1) write blocker x 2 3.5" SATA/SAS x 4 – Hot swap
Multi-Interface Write Blocker	PCI-E x 1 SATA x 1 USB 3.0 x 1 IDE x 1
Read/Write Interface	USB 3.0 x 8 port (power independent) 3.5" SAS port x 4 3.5" SATA port x 4
Module	Built-in Wireless charger x 1 DVD R/W Driver x 1 RJ45 10GB x 2 port 3.5 earphone jack x 2 WiFi and Bluetooth module x 1
Built-In Rear Speaker	Digital Camera Built-in HD Camera for evidence recording Control access Built-in 14" touch screen Power adapter 1200W Dimension 1800*900*750 mm (L*W*D)
Software	DE-FBOX Duplication Software with Hashing Win 10 64bit English Version
Display	2 unit Samsung or equivalent 34 inch Curve 21:9 with 1800R WQHD 3440 x 1440 (2K) - 100Hz Type-C port.

*Specifications are subject to change without notice.

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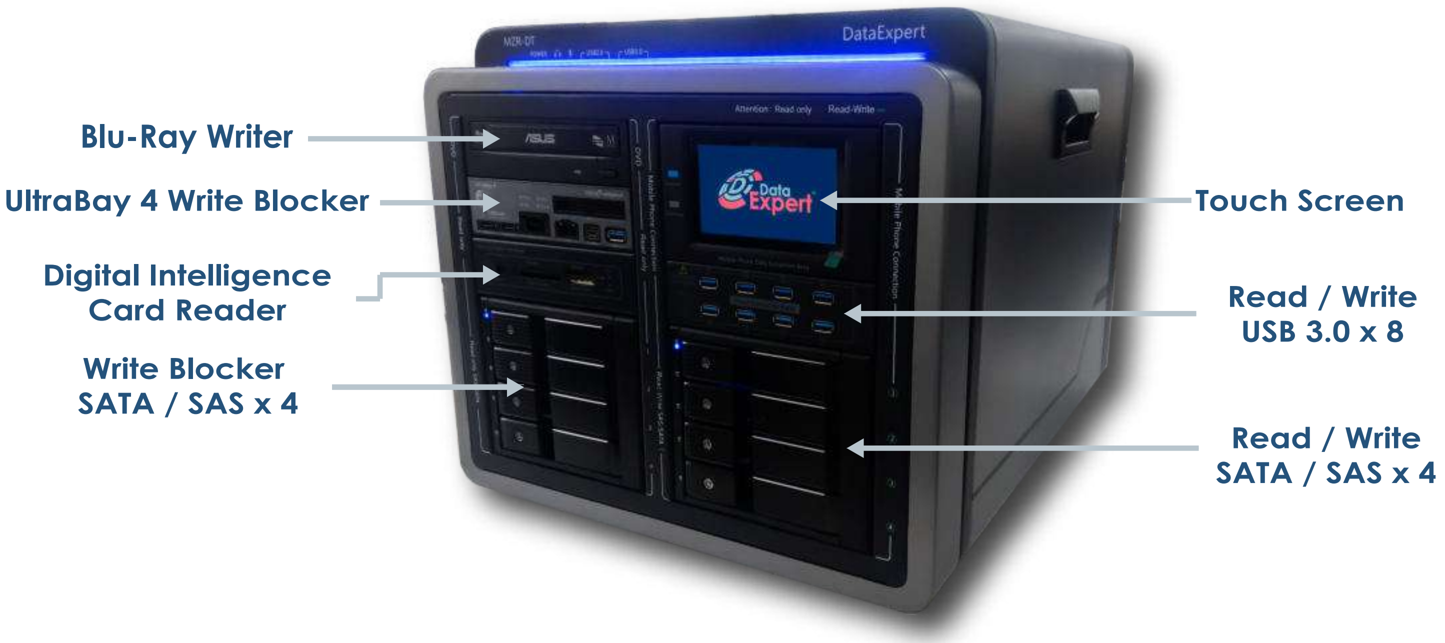
Cyber MZR-DT Forensics Workstation

All-rounded forensic workstation which is designed for extreme fast artifacts analysis.


Blu-Ray Writer
UltraBay 4 Write Blocker
Digital Intelligence Card Reader
Write Blocker SATA / SAS x 4
Touch Screen
Read / Write USB 3.0 x 8
Read / Write SATA / SAS x 4
DataExpert

Features

Build-in write blocker

Build-in write blocker with diffferent interface for both computer or mobile forensic investigation. Optional to upgrade Digital Intelligence UltrabBay 4 Writeblocker to fit different needs.

Build-in duplicator feature

Build-in duplication software with hashing. Allowing parallel duplication via multiple portsfor IDE, SATA, SAS, USB and PCI-E storage devices.

Optional forensic software

Can bundle with different forensic software such as Hancom MD-Series, Mobiledit Forensic Pro and Belkasoft Evidence X.

Customize the hardware

Able to build the system with customised requirements to fit your needs.

Parallel processes

Support parallel processing to improve work efficiency.

Specification

Model	**Cyber MZR-DT**
	System Configuration
OS	Microsoft Windows 11 Pro 64 bit
Internal Memory	64GB DDR4 UDIMM non-ECC RAM Memory (2X32GB)
CPU	Intel i9-10900X (10 Core, 19.25M Cache, base 3.7GHz, up to 4.5GHz)
Storage system	ONE (1) 1TB GB M.2 NVME SSD (System installed on this Drive) ONE (1) 8TB 7200rpm SATA Hard Drive for Temporary Files and Processing ONE (1) 8TB 7200rpm SATA Hard Drive for evidence storage
Graphic Card Display	One (1) Nvidia Quadro T400, 4GB GDDR5 for Graphics Processing Unit (customizable)
Power Supply System	One (1) 1200Watt Modular Power
DVD Drive	Blu-Ray Writer
	Dashboard Configuration
Write Blocker (Read Only)	UltraBay 4 Writeblocker with - PCI-E - SATA/ SAS - USB 3.0 - FireWire - IDE Build in UltraBlock USB 3.0 Forensic Card Reader 3.5" SATA/SAS x 4 – Hot swap
Read/ Write	3.5" SATA/SAS x 4 – Hot swap USB 3.0 Gen 1 ports x 4 (at rear) USB 2.0 x 2（at top） USB 3.0 Type-A x 2（at top） High Speed HUB with USB3.0 x 8 (front panel)
Phone Connection Panel	4.3" LCD display with 8 phone connected or disconnected status panel
	Weight and Size
Weight	Around 25 kg
Dimension (W x D x H)	425mm * 530mm* 365mm
	Optional Forensics Software
Phone Forensic	Hancom MD-Series / Mobiledit Forensic Pro
Computer Forensics	Belkasoft Evidence X
Warranty	THREE years limited warranty

* Customized Configuration available. Powered by DataExpert.

* Specifications are subject to change without notice.

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Forensic Laptop

High perfermance laptops design for field or lab forensic investigation.

Specification

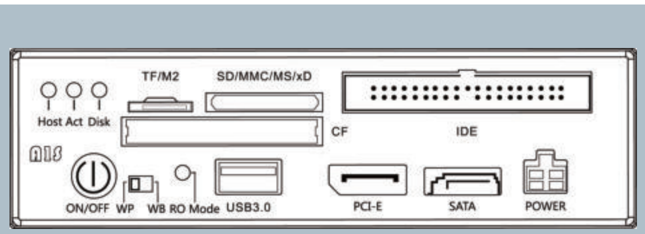
Model	**Forensic Laptop**
OS	Windows 10 Operation system
CPU	11th Generation Intel® Core™ i9-11900H Processor
Internal Memory	128GB Dual Channel DDR4
Storage system	One (1) 2TB SSD M.2 NvMe for the Operating System THREE (3) 2TB M.2 NvMe SSD for Evidence Files
Graphic Card Display	NVIDIA GeForce RTX 3080 GPU with 16GB GDDR6 Video Memory
Display	17.3" Full HD (1080P) 300Hz

* Customized Configuration available. Powered by DataExpert.
* Specifications are subject to change without notice.

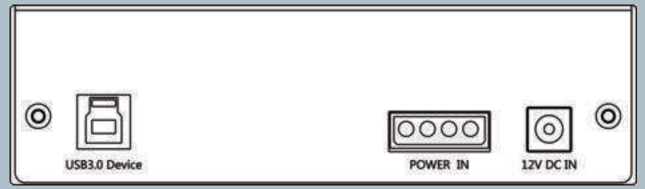
ISO/IEC 27001 Information Security Management CERTIFIED

Forensics Write Blocker

Integrated write-blocker supports 7 storage media types.



Front View



Back View

Supported storage media :

USB 3.0/2.0/1.0,PCI-E(with PCIe Adapter),SATA, CF/M2/TF/SD/MMC/MS/xD

Specification

Model	**DE-WB-A1S**
	Interface Front Panel
PCI-E	One PCIe Custom data + Power connector
SATA/ SAS	One SATA data connector
USB 3.0	One USB 3.0 Standard-A Connector
IDE	One IDE Signal Connector
DC Out	One DC out 4pin drive power connector (for IDE, SATA, SAS & PCIe)
	Switch
DIP Switch	Two position DIP Switch configures Write Protect (WP) or Write Blocker (WB)
	Other feature
Status LED	4 LEDs: Host (Detect), Activity(Act), Write-Block(Disk), Read-Write (RO)
	Host/Computer Interface Compatibility
USB 3.0 Controllers	Most USB 3.0 Controllers should be compatible
Host OS	Windows 7, 8 10 Macintosh OS X Most modern Linux distributions
HPA	Support HPA Unlock and Reset
LED Indicator	Color LED Indicators for “Host”, “Write Block” or “Read/Write” mode visibility
Size:	158 x 146 x 43 mm (L x W x H)
Warranty	One Year Warranty and Free Firmware upgrade

*Remark: Made in Hong Kong and powered by DataExpert
*Specifications are subject to change without notice

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Portable Write Blocker Series

Compact write blocker for securely access digital data during forensic investigations in everywhere.

Specification

Write Blocker M

Write Blocker P

Write Blocker U

Model	DE-U2MS	DE-U2PS	DE-U2US
Write-Blocker Interfaces			
SATA	1	1	/
USB 3.0	1	/	1
PCI-E(U.2)	1	1	/
TF	/	/	1
Features			
PCIE NVME Protocol	✓	✓	/
PCIE AHCI Protocol	✓	/	/
Hidden Area	Supports automatic identification and full reading of HPA hidden areas.	/	/
Non-Intrusive Read-Only for MacBook	✓ Target disk mode	/	✓ Target disk mode
Performance Parameter			
Maxmium Transmission Rate	10GB/MIN (PCI-E/ M.2/SATA/USB SSD)	50GB/MIN (USB SSD)	14GB/MIN (USB SSD)
Connection Port	USB 3.0	USB 3.2	USB 3.0
Mode			
Read-Only Mode	✓	✓	✓
Virtual Writing Mode	✓	/	✓
Other			
Screen	/	/	Optional
Power	DC 12V 4A	DC 12V 4A	DC 5V 3A
Size (W x D x H)	141*81*26mm	121*73*25mm	104*68*29mm

Product Detail

Write Blocker U

- Lightest model
- Device information and transmission speed are displayed on the screen.

Write Blocker P

- Folding design
- Extract data from both PCIE U.2 and SATA ports without requiring any accessories

Write Blocker M

- Comprehensive solution for extracting devices from multiple interfaces
- With Apple transfer kit which can extract data from MacBooks of different models

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bsi. ISO/IEC 27001 Information Security Management CERTIFIED iFL-800

Forensic Tower

Save Time

Save Manpower

Save Cost

OVERVIEW

Forensic Tower , the evolutional computer forensic device, is an intelligent, powerful and easy-to-use digital forensic workstation which enables investigators to start their work after a short term of training or even without trainings. Automatic forensic technology allows users to focus on target evidentiary data, rather than how to operate the device.

Based on parallel forensic technology, Forensic Tower is highly integrated with disk duplication, forensic analysis software (Forensics Master) and OS emulator, achieving 4:4 disk cloning, 8-channel concurrent analysis or imaging. It contains 8 built-in write-blockers (4 of them switch-able), curved screen, forceful processor, as well as rich interfaces. Forensic Tower is suitable for solving cases with large amount of data in a short time. It saves manpower, time and costs and is the best choice for digital forensic lab.

With wide curved screen, the Forensic tower provides investigators sufficient displays to monitor duplication, analysis, emulation and report editing.

FEATURES

Parallel Forensic Technology (PFT)	○ The PFT makes a leap in promoting duplication speed that can reach up to 27 GB/min. It supports 4-channel parallel clone or 8-channel parallel analysis to make the investigation 8 times faster. ○ Users can load several hard disks (maximum 8) into Forensic Tower for analysis or keyword search with special optimization by Parallel Forensic Technology and multi-task management, which make full use of CPU and extremely save time and costs.
Super Compatible	○ All the popular digital forensic software (Forensics Master, EnCase, FTK, etc) can run in Forensic Tower with perfect performance.
Intelligent Design	○ Support all-sized HDD (3.5 '', 2.5 '', 1.8 '') and HDD ports on the panel are hot-plugging with cable-free design. ○ Ventilated bays protect hard disks from overheating.
Disk Duplication	○ 2-channel parallel duplication via cable-free SATA/SAS slots. ○ Multiple ports for IDE, SATA, SAS and USB storage devices; data transfer rate increased to 39 GB/min. ○ Parallel duplication modes for 1:1, 1:2 and 2:2 duplication or imaging. ○ Choose among MD5, SHA-1 and SHA-256 verification. ○ HPA/DCO hidden area detection & duplication. ○ Keyword search during duplication/imaging – results can be imported into the bundled Forensics Master for analysis. ○ Parallel computing capability - an investigator can run analysis and emulation processes concurrently with disk duplication or imaging processes.
Digital Analysis	○ Static and live forensics for automatic analysis and reporting on Mac OS X, Windows and Linux OS. ○ User trace analysis for access to USB device connection logs, applications, last opened files, recycle bin and more. ○ Registry key recovery and logs of last modification times. ○ Quick search & location of anti-forensic software and encrypted files; video frame division is also supported. ○ Live forensic function for investigators to gather dynamic information from running programs. ○ Customizable forensic strategies for various case types.
System Emulation	○ Emulate the operating systems of servers and PCs to investigate malware, databases, applications with passwords, internet traces, recently opened documents and more. ○ Emulate directly from hard disks or from disk image files. ○ Fully automatic dynamic emulation. ○ Supports operating systems Windows 2000/2003/XP/Vista/7/8/10, Mac OS X 10.x and Linux (Ubuntu 14.10). ○ Password bypassing for Windows, Mac OS X and Linux.

THE POWER AND VERSATILITY OF TALINO - ACCEPT NO SUBSTITUTES

Here at SUMURI we take the greatest pride in building the very best forensic workstations anywhere. All of our TALINOs are designed by Certified Forensic Computer Examiners because we believe that the person who best understands what the modern examiner needs is someone who knows forensics! Using our unique and proprietary chassis, we accomplish two major goals:

1.) Separate the electrically sensitive components from those that produce more EMI and heat.
2.) Since the entire chassis is made of aluminum, we can utilize its entire surface area to help spread and dissipate heat.

Both of these effects help ensure your TALINO runs as smoothly as possible and lasts as long as an examiner needs it!

We use only the highest quality components that have been tested and vetted here in our lab. Our Laptops are designed and optimized for forensics and come with an industry leading 3 year warranty.

Every all TALINO workstations and laptops are built based... on your unique requirements and to our exacting standards. No competitor offers ANYTHING close!

72h

Every TALINO workstation is burned in for 72 hours using multiple stress testing and benchmarking tools. The goal of our quality assurance team is to try and "break" the workstation before shipping it. From logical stress tests to actually physically altering the airflow in the TALINO we do everything in our power to make sure no TALINO leaves the lab until it has been put through the wringer. This is backed by our industry leading 3 year warranty and lifetime access to our support line for every TALINO user. Day or night we are there when you need us.

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FORENSIC LAPTOPS

TALINO KA-L ALPHA

The SUMURI TALINO KA-L Alpha is an extremely portable Forensic Workstation specifically designed to perform faster than most desktop forensic workstations. We introduced this system for several reasons as many agencies just need a really good laptop that they can depend on to process small cases, work out in the field, collect mobile phone data, or a variety of other tasks.

TALINO KA-L GAMMA

The SUMURI TALINO KA-L Gamma is a portable Forensic Workstation specifically designed to perform just as fast as other desktop forensic workstations. This system was created to meet the needs of agencies who've both come to expect the speed and power from our renowned portable TALINO Forensic Workstations, and are looking for a middle ground between our other portable offerings.

TALINO KA-L OMEGA

The SUMURI TALINO KA-L Omega is the fastest portable Forensic Workstation specifically designed to perform just as fast as most desktop forensic workstations. In fact, this powerhouse might actually be more powerful than your current forensic workstation, unless you have a full sized TALINO desktop Forensic Workstation.

TALINO KA-L eDISCOVERY

The SUMURI TALINO KA-L eDiscovery & Incident Response laptop is our high-end eDiscovery incident response laptop aimed specifically for the modern-day forensic examiner tasked with handling incident response type examinations. The SUMURI TALINO KA-L eDiscovery & Incident Response laptop, is our high end eDiscovery incident response laptop aimed specifically for the modern-day forensic examiner tasked with handling incident response type examinations.

RUGGEDIZED LAPTOP

The SUMURI TALINO TRL-65 is our no compromise ruggedized laptop. When you need both dust proofing and water resistance in one package along with as little sacrifice as possible when it comes to performance, the TRL-65 is your very best choice! It features a whopping six-foot drop protection, and like all TALINOs, there are tons of customization options and you will find the same awesome three year warranty you've come to know and love.

TALINO WORKSTATIONS

CRYPTANALYSIS WORKSTATION

An extremely fast and efficient decryption system featuring Intel CPUs and NVIDIA Graphics Cards combined with our proprietary 3mm aluminum heat dispersing chassis. All the horsepower you need to run Passware, Elcomsoft or any other cryptanalysis solution.

FORENSIC WORKSTATION

The SUMURI TALINO KA brand of computers is built on the most reliable and stable platform designed by Certified Forensic Computer Examiners. Each custom workstation is built with expandability and a future proof mindset so that you are not replacing the computer every few years with an entirely new computer.

eDISCOVERY WORKSTATION

An extremely fast and efficient decryption system featuring Intel CPUs and NVIDIA Graphics Cards combined with our proprietary 3mm aluminum heat dispersing chassis. All the horsepower you need to run Passware, Elcomsoft or any other cryptanalysis solution.

NUIX POWERED WORKSTATION

The SUMURI TALINO NUIX Forensic Workstation is our specialized high-end dual Intel CPU system. This system was designed by our certified forensic computer examiners and NUIX engineers specifically to run NUIX. The power of TALINO married to the strength of NUIX is a match made in heaven.

TALINO SERVERS

SERVER SOLUTION

The SUMURI TALINO KA Server Solution family brings everything great about TALINO KA workstations to server form factor computing in the big data arena, all designed by Certified Forensic Computer Examiners. Whether you're looking to store several hundred Terabytes for your lab or you need Petabytes for body camera footage we've got you covered. With multiple processing nodes available our designers can build you the server that you need at a price you can't beat.

ABOUT SUMURI

SUMURI is a leading worldwide provider of solutions for digital evidence and computer forensic Training, Hardware, Software, and Services. SUMURI is also the developer of the industry standard PALADIN Forensic Suite, CARBON Virtual Forensic Suite, RECON *ITR*, RECON LAB, and TALINO Forensic Workstations.

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DE 19962, USA

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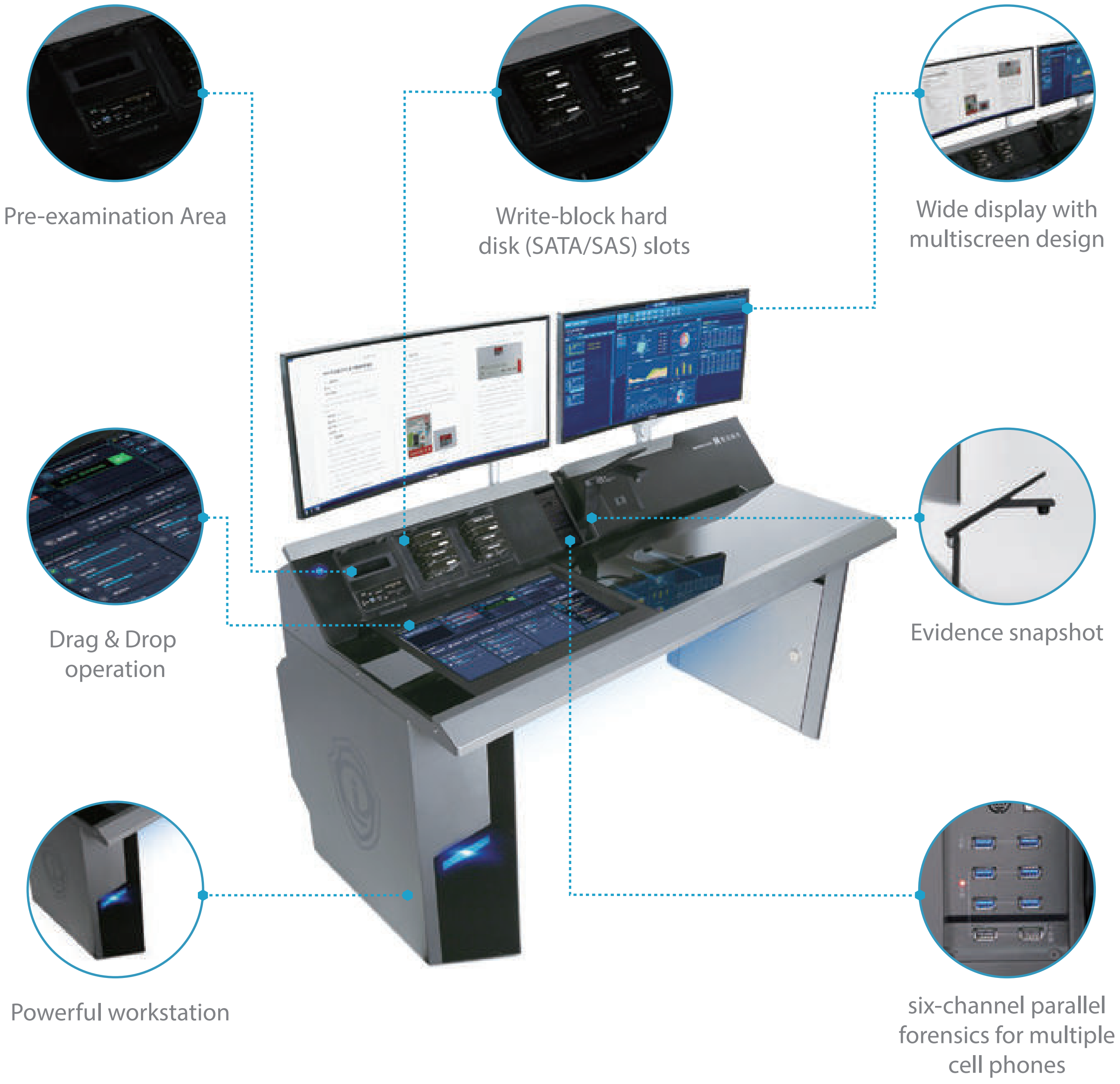
iFL-2000 Forensics Commander


Pre-examination Area
Write-block hard disk (SATA/SAS) slots
Wide display with multiscreen design
Drag & Drop operation
Evidence snapshot
Powerful workstation
six-channel parallel forensics for multiple cell phones

OVERVIEW

iFL-2000 Forensics Commander, a combination of cell phone & computer forensics, highlights modular hardware design & professional forensic software, providing full forensics workflows as an all-in-one solution like a small forensics lab. Moreover, investigators could customize his workflow from beginning to end, making forensics analysis more efficient.

FEATURES

Integrated Forensics Modules

Function as a small forensic lab with all necessary forensics module integrated, including forensics equipment, pre-installed forensic software, high performance workstation and touch screen panel.

Smart Forensics

Apply automated forensic tasks with customizable "drag and drop" procedures. Investigators will no longer be occupied by manual operations, but focus more on data analysis instead.

Built-In Workflow

Standard digital forensic process with regulations to reduce the workload as well as errors.

Human Engineering Design

Human oriented design provides a comfortable and friendly experience when a forensics work is executed.

Easy To Use

Easy operation with guidance; Simply drag and drop the material to start the work.

Parallel Processes

Support parallel processing up to 8 storage media and 6 mobile phones, greatly improving work efficiency.

Modular Design

Integrated with all mature forensics technology & products, easy for maintenance and update.

Platform Mode

The integrated hardware provides support to software interaction and automatic data transmission, while the integrated software introduces a future of smart application for digital forensics.

Computer Forensic

DE-8811

Forensics Cube V3

OVERVIEW

DE-8811 Forensics Cube V3 is a portable and highly-integrated computer forensics equipment for field or lab investigation. The newest edition of MagiCube comes with improved performance such as a higher disk duplication rate (up to 39GB/min) and customizable forensics workflows including disk duplication, analysis and OS emulation. The new extendable FHD (1920x1080) touchscreen display also improves user experience.

FEATURES

Highly Integrated Computer Forensics Equipment

No need for extra devices such as write-blocker, duplicator and laptop. Supports analysis of Windows, Mac OS X and Linux systems.

Customizable Forensics Workflows

Supports a complete forensics process including disk duplication, data analysis and system emulation. Investigators can create custom workflows and change the order of steps as needed.

User-Friendly "Drag & Drop" Operation

Simply drag and drop the material to begin analysis and quickly obtain a report.

A variety of interfaces

Support connection with different storage devices by SATA, SAS, IDE and USB ports.

Improved Specifications

Comes with improved performance, such as a disk duplication max speed of 39 GB/min and GbE/10GbE.

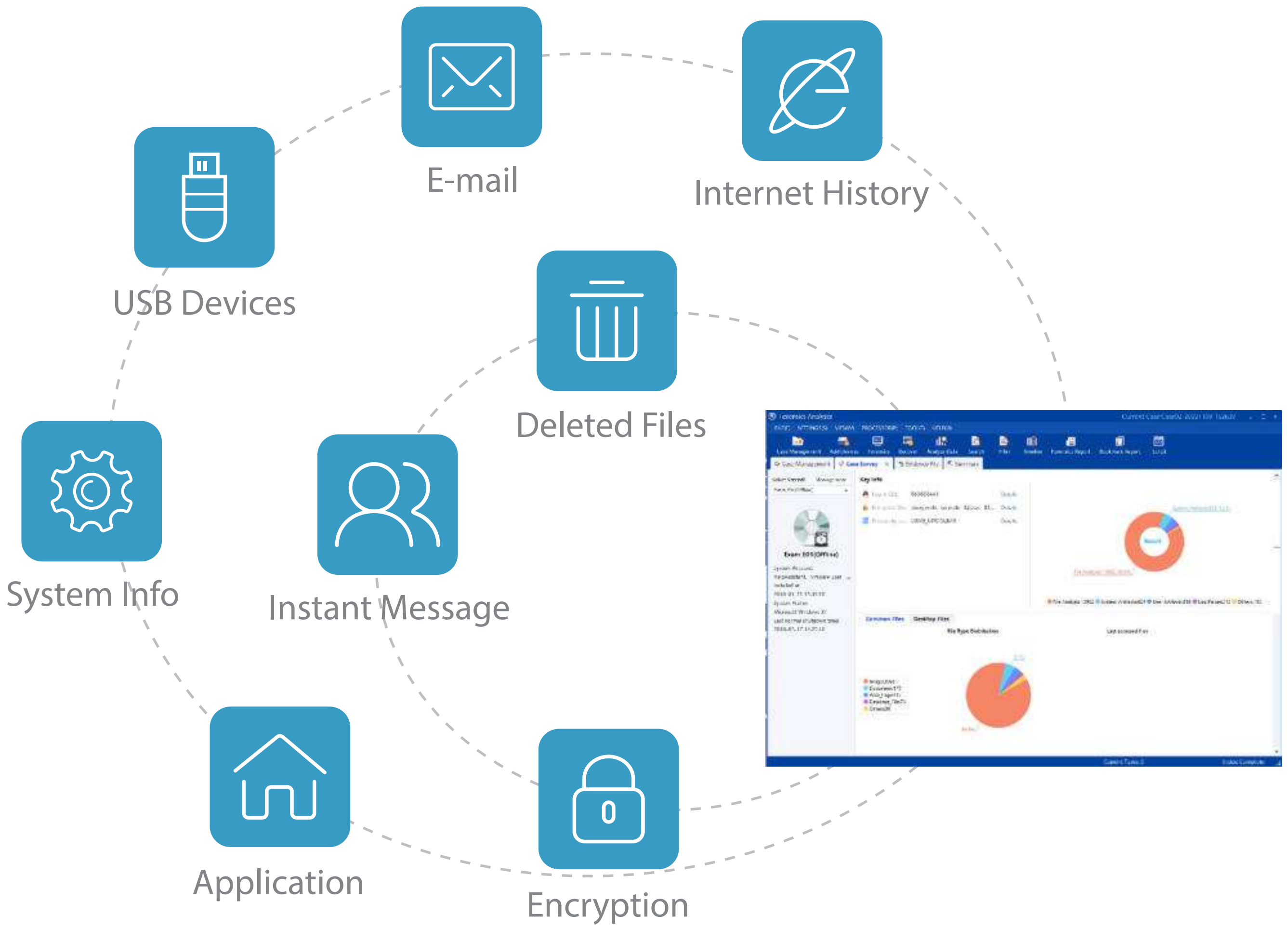
Optimized User Experience

Portable with a smaller size and convenient to operate with a new 11.6" FHD touchscreen display that is extendable via HDMI port.

Computer Forensics		Details
Forensics Process	Disk Duplication	○ 2-channel parallel duplication via cable-free SATA/SAS slots. ○ Multiple ports for IDE, SATA, SAS and USB storage devices; data transfer rate increased to 39GB/min. ○ Parallel duplication modes for 1:1, 1:2 and 2:2 duplication or imaging. ○ Choose among MD5, SHA-1 and SHA-256 verification. ○ HPA/DCO hidden area detection & duplication. ○ Keyword search during duplication/imaging – results can be imported into the bundled Forensics Master for analysis. ○ Parallel computing capability - an investigator can run analysis and emulation processes concurrently with disk duplication or imaging processes.
	Digital Analysis	○ Static and live forensics for automatic analysis and reporting on Mac OS X, Windows and Linux OS. ○ User trace analysis for access to USB device connection logs, applications, last opened files, recycle bin and more. ○ Registry key recovery and logs of last modification times. ○ Quick search & location of anti-forensic software and encrypted files; video frame division is also supported. ○ Live forensic function for investigators to gather dynamic information from running programs. ○ Customizable forensic strategies for various case types.
	System Emulation	○ Emulate the operating systems of servers and PCs to investigate malware, databases, applications with passwords, internet traces, recently opened documents and more. ○ Emulate directly from hard disks or from disk image files. ○ Fully automatic dynamic emulation. ○ Supports operating systems Windows 2000/2003/XP/Vista/7/8/10, Mac OS X 10.x and Linux (Ubuntu 14.10). ○ Password bypassing for Windows, Mac OS X and Linux.

DE-2008

Forensics Analyzer



OVERVIEW

Forensics Analyzer is a practice-tested comprehensive digital forensic solution intended for quick, professional and easy investigation.

The basic technologies of this software are automatic analysis and parallel forensics which enable investigators to set different strategies and conduct digital investigation on several hard disks efficiently.

Forensics Analyzer provides investigators essential functions such as analysis of system and user artifacts & mail parser, file analysis, deleted data & signature recovery, hash verification, etc.

FEATURES

Auto analysis

Automated acquisitions, analysis and categorizations of various clues by customized strategies without any scripting.

Broad support

Wide range of support to obtain evidentiary data from all file systems, disks and images types; available for Windows, MAC and Linux OS.

Parallel forensic technology

Maximizes capability of digital forensic devices to deal with multiple evidentiary data concurrently and faster.

Flexible strategy

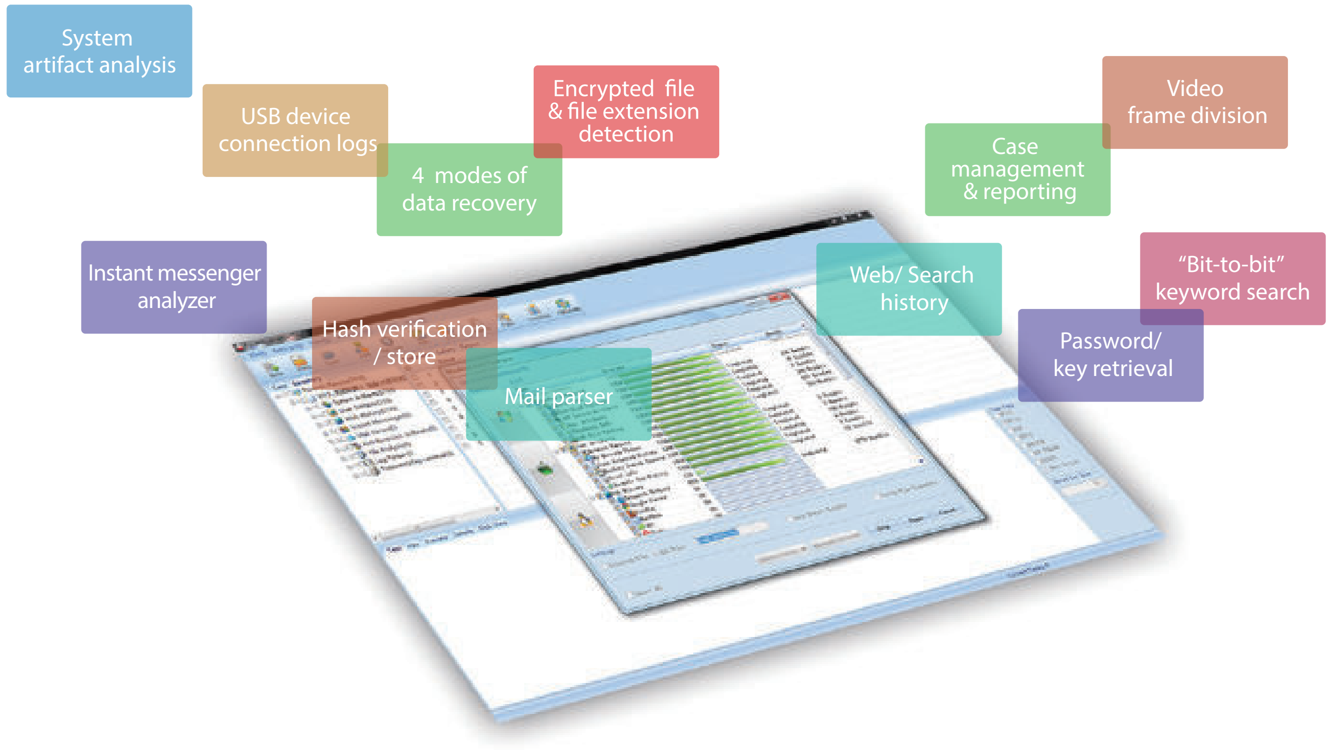
Investigators can customize the analysis strategies on demands, search and filter valuable clues.

Easy to use

Intuitive user interface makes it pssibleto focus on strategies and results of analysis rather than how to use.

File analysis

Provides clues or investigation directions by quick detection and location of encrypted files, suspicious filename extensions, anti-forensics software.


System artifact analysis
USB device connection logs
Encrypted file & file extension detection
4 modes of data recovery
Video frame division
Case management & reporting
Instant messenger analyzer
Hash verification / store
Mail parser
Web/ Search history
"Bit-to-bit" keyword search
Password/ key retrieval

Atola TECHNOLOGY Insight Forensic 2.0

The first and only forensic data acquisition tool that works with both good and damaged media.

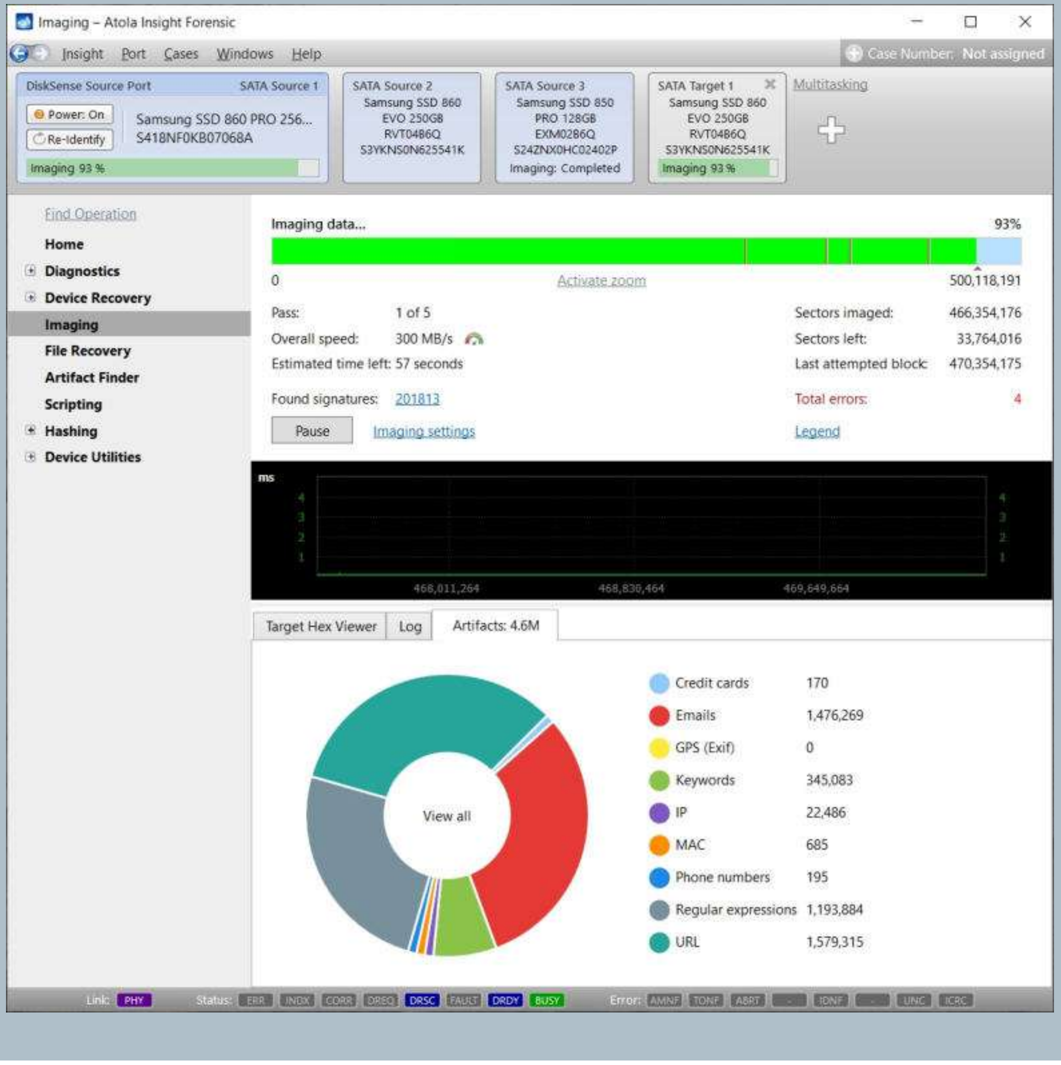
Functions

Forensic Imaging

- 3 simultaneous imaging sessions + multi-tasking
- Imaging session speed up to 500 MB/s
- E01, AFF4 or Raw target images created in the network or on target drives
- Up to 3 targets per imaging session
- Support of SATA, IDE, USB drives
- Via extensions: SAS, Apple PCIe (2013 - recent models), NVMeand M.2 PCIe SSDs
- Built-in hardware write blocker for all source ports

Damaged drive support

- In-depth automated drive diagnostics
- Multi-pass imaging of damaged drives
- Automated imaging of freezing media
- Bad sector recovery
- Segmented hashing for bad drive's image verification
- HDD current monitoring for continuous diagnosis



Imaging – Atola Insight Forensic

Insight Port Cases Windows Help

Case Number: Not assigned

DiskSense Source Port SATA Source 1
Power: On
Re-Identify
Samsung SSD 860 PRO 256...
S418NF0KB07068A
Imaging 93 %

SATA Source 2
Samsung SSD 860
EVO 250GB
RVT04B6Q
S3YKNS0N625541K

SATA Source 3
Samsung SSD 850
PRO 128GB
EXM02B6Q
S24ZNX0HC02402P
Imaging: Completed

SATA Target 1
Samsung SSD 860
EVO 250GB
RVT04B6Q
S3YKNS0N625541K
Imaging 93 %

Multitasking

Find Operation
Home
Diagnostics
Device Recovery
Imaging
File Recovery
Artifact Finder
Scripting
Hashing
Device Utilities

Imaging data... 93%

0 Activate zoom 500,118,191

Pass: 1 of 5
Overall speed: 300 MB/s
Estimated time left: 57 seconds
Found signatures: 201813

Sectors imaged: 466,354,176
Sectors left: 33,764,016
Last attempted block: 470,354,175
Total errors: 4

Pause Imaging settings Legend

Target Hex Viewer | Log | Artifacts: 4.6M

View all

Credit cards	170
Emails	1,476,269
GPS (Exif)	0
Keywords	345,083
IP	22,486
MAC	685
Phone numbers	195
Regular expressions	1,193,884
URL	1,579,315

Link: PHY Status: ERR INDX CORR DREQ DRSC FAULT DRDY BUSY Error: AMNF TONF ABRT - IDNF - UNC ICRC

Data Expert™

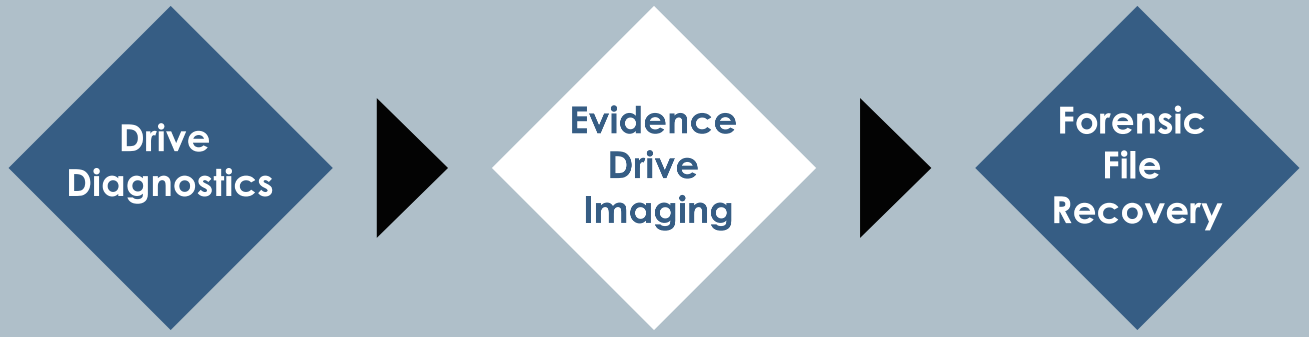
bsi ISO/IEC 27001 Information Security Management CERTIFIED

Insight Forensic 2.0

Forensic feature set

- Unknown ATA password extraction
- Locate sectors - detect which files and partitions they belong to specified drive sectors
- On-the-fly sector-level Artifact finder based on Intel Hyperscan engine
- Hash calculation (linear and segmented): MD5, SHA1, SHA224, SHA256, SHA384, SHA512
- Wiping methods including DoD 5220.22-M, Secure Erase, NIST 800-88, Pattern Erase
- Forensic file recovery for NTFS, APFS (with encrypted volumes), XFS, ext4/3/2, ExFAT, HFS/HFS+, FAT32, FAT16
- Case management system automatically generates detailed reports
- Comparison of 1 drive against 3 drives or images
- Detection and lifting of HPA and DCO restricted areas
- SSD Trim

Workflow



Drive Diagnostics

Evidence Drive Imaging

Forensic File Recovery

TaskForce vs Insight Forensic

	TaskForce	Insight Forensic 2.0
Simultaneous imaging sessions	12+	3
Source Ports	6 SATA, 6 SAS/SATA, 4 USB, IDE + extensions	3 SATA, USB, IDE + extensions
Target Ports	6 SATA, 6 SAS/SATA, 4 USB, IDE + extensions	3 SATA, USB
Extension Module	M.2 NVMe/PCIe/SATA, Apple PCIe, Thunderbolt	M.2 NVMe/PCIe/SATA, SAS, Apple PCIe, Thunderbolt
Multitasking	12 x imaging + wiping + hashing + diagnostics etc.	3 x imaging + wiping + hashing etc.
Max. Targets per imaging session	5	3
RAID Support	Automated assembly: RAID 0, 1, 5, 10 and JBOD	✗
Interface	web-based (Chrome browser)	Windows application
Standalone Mode	✓	✗
Multi-user Access	✓	✗
Express Mode	up to 17 imaging sessions	✗
Automation	Web API	✗
ATA Password Recovery	✗	✓
Scripting	✗	✓
File Recovery	✗	✓
Disk/Image Comparing	✗	✓
Media Scan	✗	✓
Disk Editor	✗	✓
Dimension	300 x 250 x 75 mm	190 x 190 x 63 mm

Atola TaskForce

An on-scene and large-scale acquisition tool capable of working with both good and damaged media, developed specifically for forensic use.

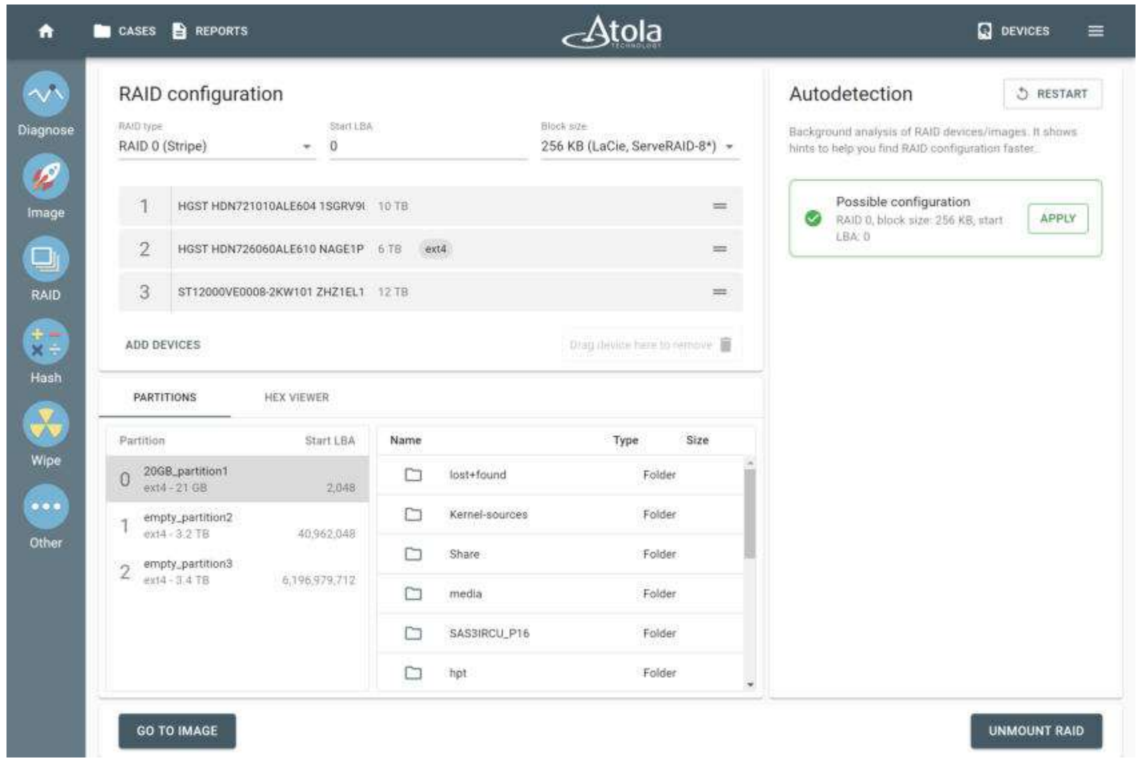
RAID configuration autodetection and imaging

- RAID identification by data parcing on connected drives and/or image files
- RAID types: RAID 0, 1, 5, 10 and JBOD
- File systems: NTFS, ext4/3/2, XFS, exFAT, HFS/HFS+, FAT32/16
- Instant identification of mdadm-created RAID
- One-click application of a suggested configuration
- Partition preview
- Rebuild of RAID with a missing or damaged device (for certain types of redundancy-enabled RAID)
- Max number of auto-checked RAID configurations: 100,000,000

Functions

Forensic Imaging

- 15 TB/h cumulative speed of imaging
- 12+ simultaneous imaging sessions
- Imaging to up to 5 targets
- Automation via Web API
- Physical imaging to E01, AFF4 and RAW files
- Logical imaging to L01 file
- Source/target switch on all ports
- Hardware write protection in Source mode on all ports



RAID configuration

RAID type: RAID 0 (Stripe)
Start LBA: 0
Block size: 256 KB (LaCie, ServeRAID-8*)

1	HGST HDN721010ALE604 1SGRV9(	10 TB	
2	HGST HDN726060ALE610 NAGE1P	6 TB	ext4
3	ST12000VE0008-2KW101 ZHZ1EL1	12 TB	

Autodetection

Background analysis of RAID devices/images. It shows hints to help you find RAID configuration faster.

Possible configuration
RAID 0, block size: 256 KB, start LBA: 0

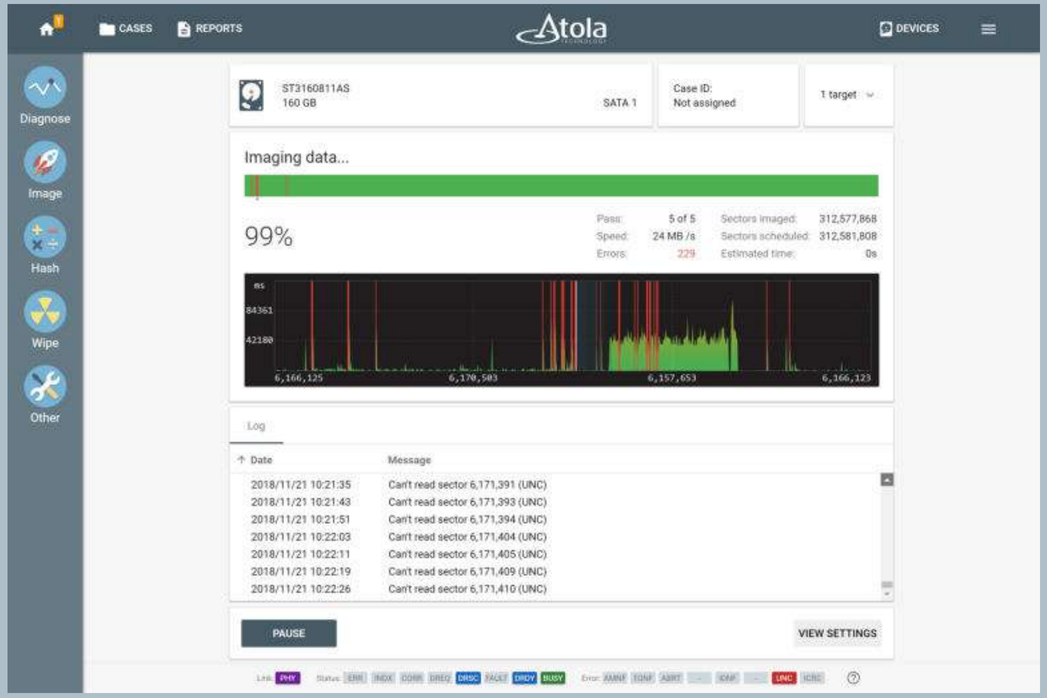
Partition		Start LBA
0	20GB_partition1 ext4 - 21 GB	2,048
1	empty_partition2 ext4 - 3.2 TB	40,962,048
2	empty_partition3 ext4 - 3.4 TB	6,196,979,712

Name	Type	Size
lost+found	Folder	
Kernel-sources	Folder	
Share	Folder	
media	Folder	
SAS3IRCU_P16	Folder	
hpt	Folder	

Atola TaskForce

Damaged drive support

- Imaging data from good heads only
- Imaging freezing drives
- Imaging drives with surface scratches and firmware issues
- In-depth drive diagnostics
- Pause/resume an imaging sessions, optimizing the settings to retrieve more data
- Current sensor on all SATA, SAS/SATA, IDE ports
- Automatic overcurrent and short-circuit protection



ST3160811AS
160 GB
SATA 1

Case ID:
Not assigned

1 target

Imaging data...

99%

Pass: 5 of 5
Speed: 24 MB /s
Errors: 229

Sectors imaged: 312,577,868
Sectors scheduled: 312,581,808
Estimated time: 0s

Log

```
Date                 Message
2018/11/21 10:21:35  Can't read sector 6,171,391 (UNC)
2018/11/21 10:21:43  Can't read sector 6,171,393 (UNC)
2018/11/21 10:21:51  Can't read sector 6,171,394 (UNC)
2018/11/21 10:22:03  Can't read sector 6,171,404 (UNC)
2018/11/21 10:22:11  Can't read sector 6,171,405 (UNC)
2018/11/21 10:22:19  Can't read sector 6,171,409 (UNC)
2018/11/21 10:22:26  Can't read sector 6,171,410 (UNC)
```

Two ways to manage TaskForce

10Gb Ethernet network

Standalone mode

Supported Drives

- 1.8-inch, 2.5-inch, 3.5-inch IDE
- USB hard drives
- SATA, SAS
- USB Flash media

(Optional) With extension modules:

- M.2 NMVe/PCIe/SATA SSDs

- Latest Apple SSDs via Thunderbolt extension

- The newest PCIe SSDs from Apple MacBooks (2013 - 2015)

Other features of TaskForce forensic imager

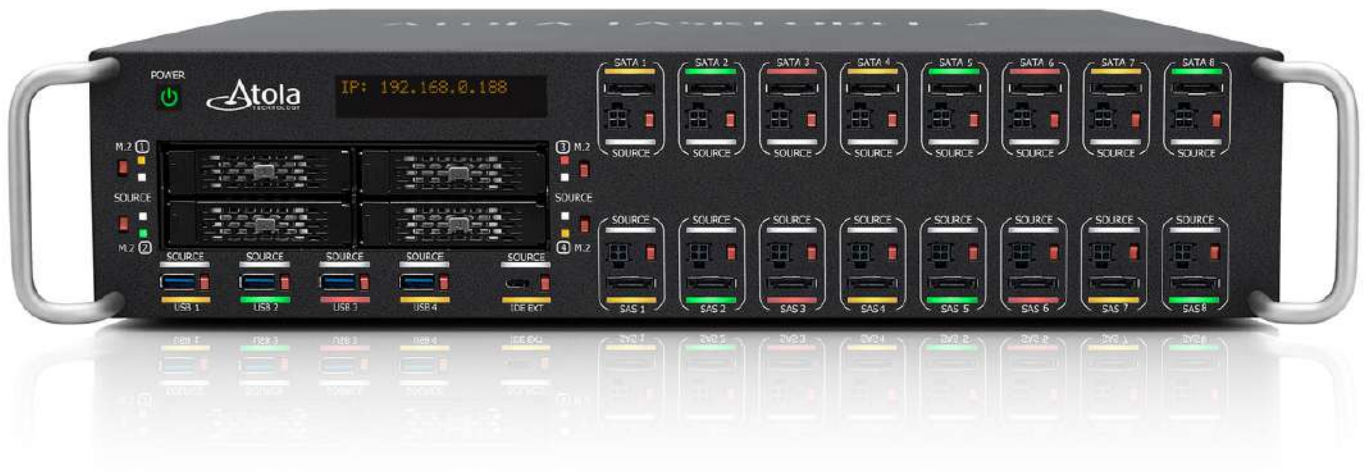
- Wiping with various methods: Pattern, Secure Erase, NIST 800-88, DoD 5220.22-M, Random, LBA number
- Browse files on any connected device
- SMART viewing + recording it before and after image acquisitions
- Hash calculation (linear and segmented): MD5, SHA1, SHA256, SHA512
- HPA & DCO control and recovery
- Automatic report generation
- Case management system

*** For further information, please visit https://www.atola.com/products/taskforce/**

Data Expert™

bsi
ISO/IEC 27001
Information Security Management
CERTIFIED

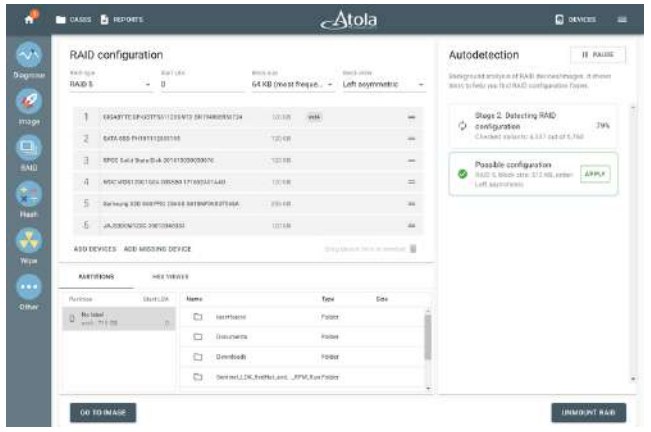
Atola TaskForce 2

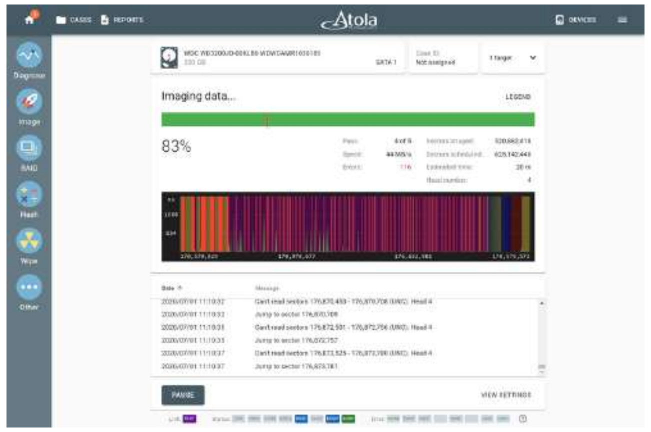


Atola TaskForce 2 is a top-performance forensic imager capable of running **25+ imaging sessions** in parallel, automatically retrieve data from damaged media, detect and reassemble unknown RAID arrays.

TaskForce 2 has **26 ports**: 8 SATA, 8 SAS/SATA, 4 NVMe (M.2 and U.2), 4 USB, IDE and extensions for Thunderbolt and Apple PCIe SSDs. Two 10Gb Ethernet ports are available for fast data transfer. Device racks for convenient and secure drive organization.

TaskForce 2 can be connected to a network and operated by multiple users in Google Chrome browser on their own devices. An offline Kiosk mode use is available, too.





Imaging 25+ drives simultaneously at 25 TB/hour

Atola TaskForce 2 lets you multi-task using the fastest imaging engine thanks to its server-grade motherboard, 16-thread Xeon CPU 3.7 GHz and ECC RAM

- 25+ imaging sessions in parallel plus other tasks
- **25 TB/hour** cumulative speed of imaging
- imaging at 500+ MB/sec on SSDs, 4 GB/sec on NVMe
- Source/target switch on all ports for maximum flexibility
- Hardware write protection in Source mode on all ports
- Integration with **workflow automation** tools via Web API
- Pause and resume any imaging session
- Imaging to up to 5 targets including E01, RAW, AFF4 files in the networks, on other drives, VeraCrypt-protected drives
- Express mode (configure, activate and connect drives to have them imaged without further clicks into the selected destination)
- Powerful **logical imaging** module with smart filters for files and folders, time and size ranges to save time and target space

RAID autodetection, reassembly and imaging

Autodetection for RAID arrays with an unknown configuration:
- identifies RAID type by reading data on selected members
- processes thousands of potential configuration variants
- one-click application of a suggested configuration
- partition preview for visual assessment of a reassembled RAID
- rebuild of RAID even with a missing or damaged device (for redundancy-based RAID)
- physical or logical imaging of a complete RAID or its elements
- Currently supported: RAID 0, 1, 5, 10, JBOD

Damaged drive support

Atola's data recovery engine is fully automated and is designed to retrieve maximum data fast and avoid further damage.

- In-depth drive diagnostics
- Automated data recovery with a multi-pass algorithm
- Selective head imaging
- Automatic reset of freezing drives
- Current sensors on all SATA, SAS/SATA, IDE ports
- Overcurrent and short-circuit protection on all ports
- Segmented hashing for damaged drive image verification

Atola TaskForce 2

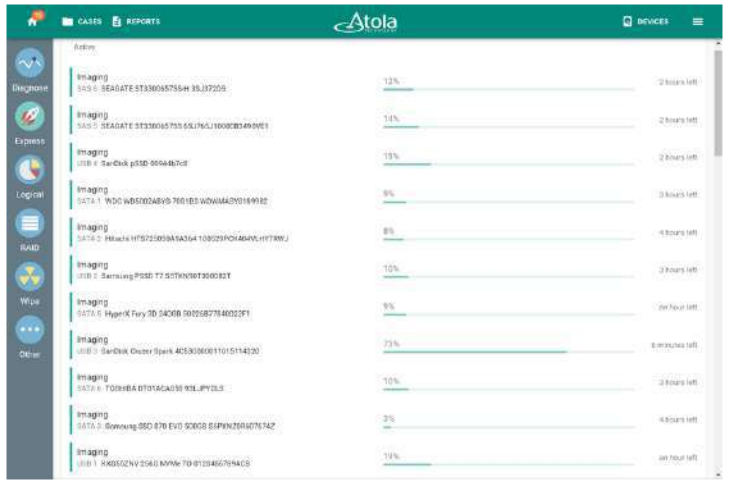
Connectivity options

1. 10Gb Ethernet network
Open TaskForce interface on any device within the same local network by entering the IP address displayed on the front panel in Google Chrome. The system has two 10Gb ports.

2. Kiosk mode
For offline use, plug in a monitor, a keyboard and a mouse to the system. The interface will be immediately available.

3. Wi-Fi connection
TaskForce has an optional Wi-Fi adapter, by plugging which you can operate the unit in a secure network via a laptop, tablet or smartphone.

Multi-user access & user interface



The interface is designed for examiners with all levels of technical proficiency:

- Operated via Chrome browser
- Simultaneous use by multiple operators
- User management system limiting access to others' cases
- Launch of any operation within 2 - 5 clicks
- Highly intuitive task-oriented user interface

Other features

- **Drive content triage** via Browse file feature and in the Logical imaging module
- Wiping on all ports (26 devices in parallel)
- HPA, DCO & AMA control and recovery
- Hash calculation: MD5, SHA1, SHA256, SHA512
- Wiping (SecureErase, NIST800-88, DoD 5220.22-M, etc.)
- Case management system and automated reports
- S.M.A.R.T. view
- Supported file systems NTFS, ext4/3/2, XFS, APFS (with encrypted volumes), exFAT, HFS/HFS+, FAT32/16
- **Device racks** for convenient and secure drive organization
- Server rack compatibility

Lifetime warranty

Atola stands behind its products. We offer the best warranty in the industry. Keep annual subscriptions active for:

- 2-3 software updates
- training and knowledge refresh sessions for the users
- lifetime warranty on hardware
- support from the team of developers

The Leading macOS Imaging, Triaging, and Reporting Solution

RECON *ITR* is a one-of-a-kind solution that acquires and processes Intel and Apple Silicon Macs like no other tool on the market. This marvel of forensic innovation is built from the ground up on macOS using Mac's full power instead of fighting against it.

RECON *ITR* requires no reverse engineering and is not ported from other operating systems, which means more data and more accurate results.

SUMURI has designed RECON *ITR* with the customer in mind, ensuring examiners have the most versatile tool available when changes occur to Apple hardware or Mac operating systems. RECON *ITR* accomplishes this and much more by including unique and revolutionary features while keeping the price significantly lower than competitors.

- Includes Three Imaging Solutions Suited for Any Case (LIVE and Bootable)
- Supports live and bootable imaging of Intel and Apple Silicon Chips
- Only True Triage Solution for Live Running Macs or Macs Connected in Target Disk Mode
- Contains Full Report Capabilities with Sequential Processing of Proper macOS Timestamps
- Correctly Uses Apple Extended Metadata with macOS Native Libraries
- Automatically Collects Volatile Data
- Ability to Automatically Triage Boot Camp and iOS Backups
- Includes PALADIN PRO for Windows and Linux Support

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RECON ITR
macOS IMAGE TRIAGE REPORT

THREE IMAGING SOLUTIONS FOR THE PRICE OF ONE

With the advent of new technologies like Apple Silicon that are continuously changing, some situations allow for a bootable solution, some call for targeted acquisition, and some may even require a live acquisition. RECON ITR includes both a Live and Bootable imager to ensure that you are ready for every situation.

Every purchase of RECON ITR includes two state of the art SAMSUNG drives:

- Samsung T7 SSD with Live and bootable versions RECON ITR for live triage, and reporting, along with both physical and logical imaging options
- SAMSUNG DUO 128 GB USB with PALADIN PRO with built-in CARBON (demo available) for Windows and Linux support

Support for Intel and Apple Silicon Processors

The Mac environment has undergone another massive shift in processors, moving from the long-used Intel processors to an ARM-based Silicon processor. RECON ITR now supports both Intel and Apple Silicon processors to cover almost any situation you may encounter when imaging a Mac!

The Only True macOS Triage Solution

RECON ITR is the only solution to truly have the ability to provide answers in seconds with its revolutionary triaging feature in a single tool at no extra cost. It automatically parses important information from both Live and through Target Disk Mode within minutes. Other solutions require you to purchase more tools and take longer to get answers.

FULL REPORT CAPABILITIES

To compliment true macOS triage, RECON ITR has built-in reporting features that allow you to produce professional reports in seconds. Build comprehensive reports using the Global Search and Global Timeline to locate and bookmark only the most critical data and quickly present information in an understandable format with Sequential Processing of proper macOS timestamps.

CORRECT USE OF APPLE EXTENDED METADATA

RECON ITR was built from the ground up on macOS to ensure that RECON ITR supports proprietary metadata used in the Mac environment. Being native to macOS helps ensure that our tool can correctly identify and preserve the Apple Extended Metadata that other tools do not properly integrate.

ABILITY TO TRIAGE BOOT CAMP AND IOS BACKUPS

Like RECON LAB, RECON ITR supports more than just Mac data. RECON ITR has robust support for triaging Boot Camp partitions and iOS Backups.

INCLUDES PALADIN FOR WINDOWS AND LINUX SUPPORT

PALADIN PRO, a full forensic lab with over 150 forensic tools, is now included with all new orders of RECON ITR to image Windows, Linux, and all Intel Macs without having to erase and reinstall your software. PALADIN PRO customers can also try CARBON which is preinstalled for examiners who would like to purchase a license.

ABOUT SUMURI

SUMURI is a leading worldwide provider of solutions for digital evidence and computer forensic Training, Hardware, Software, and Services. SUMURI is also the developer of the industry standard PALADIN Forensic Suite, CARBON Virtual Forensic Suite, RECON *ITR*, RECON LAB, and TALINO Forensic Workstations.

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+1 302.570.0015

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P.O. Box 121 Magnolia,
DE 19962, USA

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Instant Virtualization is here!
No imaging, No disassembly!

CARBON is SUMURI's premier tool for virtualization with support for almost any Windows system or forensic image.

CARBON allows examiners to see evidence as the user, bypass passwords with the push of a button, and boot into a forensically sound virtual environment avoiding the need for disassembly. Make reports more straightforward and easy to understand by including screenshots and screen recordings form the virtualized environment. Get actionable information and generate professional reports in minutes with RECON for Windows. CARBON includes automated triaging and reporting to allow you to triage Windows machines and images with ease. Advanced data carving capabilities lets you use signature analysis to carve files in unallocated space in Windows machines and images.

- Instant Virtualization of Windows Computers and Forensic Images
- BitLocker Support
- RECON for Windows: Triage Capabilities
- Advanced File Search
- Advanced Data Carving
- Snapshot Differential Analysis
- PALADIN Toolbox - Imagers and Write-Blocking Included
- Now merged with PALADIN!

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CARBON
VIRTUAL FORENSIC SUITE

INSTANT VIRTUALIZATION OF WINDOWS COMPUTERS AND FORENSIC IMAGES

CARBON has the ability to virtualize any Windows-based computer without the user's password in seconds. Boot forensics images of Windows machines to analyze them in a native environment. Virtualizing with CARBON lets the examiner see and document the computer in the exact state that the original user saw it without making any changes to the source device.

BITLOCKER SUPPORT

CARBON can virtualize Windows machines that are BitLocker encrypted with ease! Enter the recovery key upon booting the device, and within seconds, you will be logged into the user's account! Combining this with our unique ability to bypass Windows passwords allows CARBON to virtualize virtually any computer.

RECON FOR WINDOWS: TRIAGE CAPABILITIES

Examiners can instantly triage any Windows machine or forensic image using the included RECON for Windows. It also includes a reporting feature to easily generate professional reports within minutes.

ADVANCED FILE SEARCH

CARBON's Advanced File Search allows examiners to locate specific files by searching for file names, keywords, file signatures, and even custom defined file signatures.

ADVANCED DATA CARVING

Advanced File Carving allows examiners to recover hundreds of different file types in unallocated space and complete space using a built-in signature database for easy carving options as well as creating customizable signature sets.

SNAPSHOT DIFFERENTIAL ANALYSIS

SnapCompare lets examiners inspect a system for modification or tampering by comparing two Windows machine snapshots to assist with incident response and Malware investigations.

PALADIN TOOLBOX - IMAGERS AND WRITE-BLOCKING INCLUDED

PALADIN Toolbox is included for all your imaging and write-blocking needs! Images created in the PALADIN Toolbox can later be virtualized within CARBON!

ABOUT SUMURI

SUMURI is a leading worldwide provider of solutions for digital evidence and computer forensic Training, Hardware, Software, and Services. SUMURI is also the developer of the industry standard PALADIN Forensic Suite, CARBON Virtual Forensic Suite, RECON *ITR*, RECON LAB, and TALINO Forensic Workstations.

sales@sumuri.com
+1 302.570.0015

Our Mailing Address:
P.O. Box 121 Magnolia,
DE 19962, USA

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RECON LAB

SUMURI

SUMURI
RECON LAB
FORENSIC SUITE
SEE MORE, MISS LESS · 3 STAGE PROCESSING
· OVER 250 TIMESTAMPS SUPPORTED
Find thousands of artifacts from Windows, Mac, iOS, Google and more!
SAMSUNG Official Partner

Reputation is everything. We help you keep it.

RECON LAB is SUMURI's flagship forensic analysis suite designed from the ground up on macOS to utilize Mac's power and give examiners access to an entirely new realm of data. RECON LAB takes traditional computer forensics and revitalizes it to be more in line with 21st century technologies through many unique and revolutionary features using native macOS libraries, sequential processing into both analysis and reporting, fully automated processing of many different operating systems, and much more.

SUMURI designed RECON LAB with every type of examiner in mind. Our three-stage approach to analysis makes sure that brand new examiners and seasoned veterans alike can get accurate results fast. Step One is automated analysis that supports the automated parsing of thousands of artifacts from macOS, Windows, iOS, Android, and Google Takeout. Step Two is semi-automated analysis using our advanced forensic viewers that assist in parsing and examining macOS Property Lists, SQLite Databases, Windows Registry and Raw Data. Step Three includes Sequential Processing and WYSIWYG reporting features through the use of StoryBoard reporting. Hundreds of revolutionary features built into RECON LAB makes manual analysis easier.

- Native to macOS
- Correctly Uses Apple Extended Attributes and Apple Timestamps with macOS Native Libraries
- Automated Analysis of macOS, Windows, iOS, Android, and Google Takeout
- Sequential Processing (Timeline Analysis)
- StoryBoard - First of its Kind WYSIWYG Forensic Reports

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RECON LAB

FORENSIC SUITE

SUMURI
RECON LAB
FORENSIC SUITE
SEE MORE, MISS LESS · 3 STAGE PROCESSING
· OVER 250 TIMESTAMPS SUPPORTED
Find thousands of artifacts from Windows, Mac, iOS, Google and more!
SAMSUNG Official Partner

NATIVE TO macOS

RECON LAB is developed natively on macOS and utilizes native Mac libraries to offer the most accurate representation of acquired data. These native features allow RECON LAB to display Apple Extended Attribute data with the proper macOS Timestamps missed by other forensic tools. Being designed on macOS allows RECON LAB to include a unique Hybrid Processing Engine, enabling images to be mounted and processed faster than other tools. Combining these attributes and our automated analysis functions creates one of the world's most powerful forensics suite.

CORRECT USE OF APPLE EXTENDED ATTRIBUTES

RECON LAB stands alone to integrate and support Apple Extended Attributes and proper macOS Timestamps fully. This unique and Mac-native form of metadata supports hundreds of extended attributes that can completely change a case's outcome and provide unparalleled information to examiners. Other forensic tools overlook this data, while RECON LAB makes these an essential part of the tool. RECON LAB utilizes Apple Extended Metadata, POSIX, and application-specific timestamps to give examiners as much information as possible.

AUTOMATED ANALYSIS OF macOS, WINDOWS, iOS, ANDROID, AND GOOGLE TAKEOUT

RECON LAB automates the analysis of thousands of supported artifacts, spanning macOS, Windows, iOS, Android, and Google Takeout! Simply by loading a forensic image, folder, or backup and selecting the plugin will pull all associated data and present it in an easy-to-understand format.

SEQUENTIAL PROCESSING (TIMELINE ANALYSIS)

RECON LAB features two unique ways to display information sequentially with Super Timeline and Artifact Timelines. Super Timeline generates global level timelines in a CSV or SQLite database to show all events as they transpired. Meanwhile, the Artifact Timeline visually represents events based on the timestamps collected through automated analysis. Both can provide a way to present the collected data visually to significantly reinforce case opinions.

STORYBOARD

RECON LAB's revolutionary reporting feature, StoryBoard, features many innovations to automate and enhance the reporting process. StoryBoard includes features to add bookmarked files in chronological order and include external files to help make the report more coherent. RECON LAB includes the first of its kind revolutionary WYSIWYG forensic report editor - StoryBoard. With StoryBoard's report editor, examiners can fully customize and tailor their reports to provide the most comprehensive, user-friendly, and coherent reporting experience of any tool on the market.

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DE 19962, USA

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Belkasoft X
Evidence Center

RELIABLE END-TO-END SOLUTION TO ACCELERATE DIGITAL FORENSICS AND INCIDENT RESPONSE INVESTIGATIONS

Belkasoft
forensics made easier

Learn more
belkasoft.com

702 San Conrado Terrace, Unit 1
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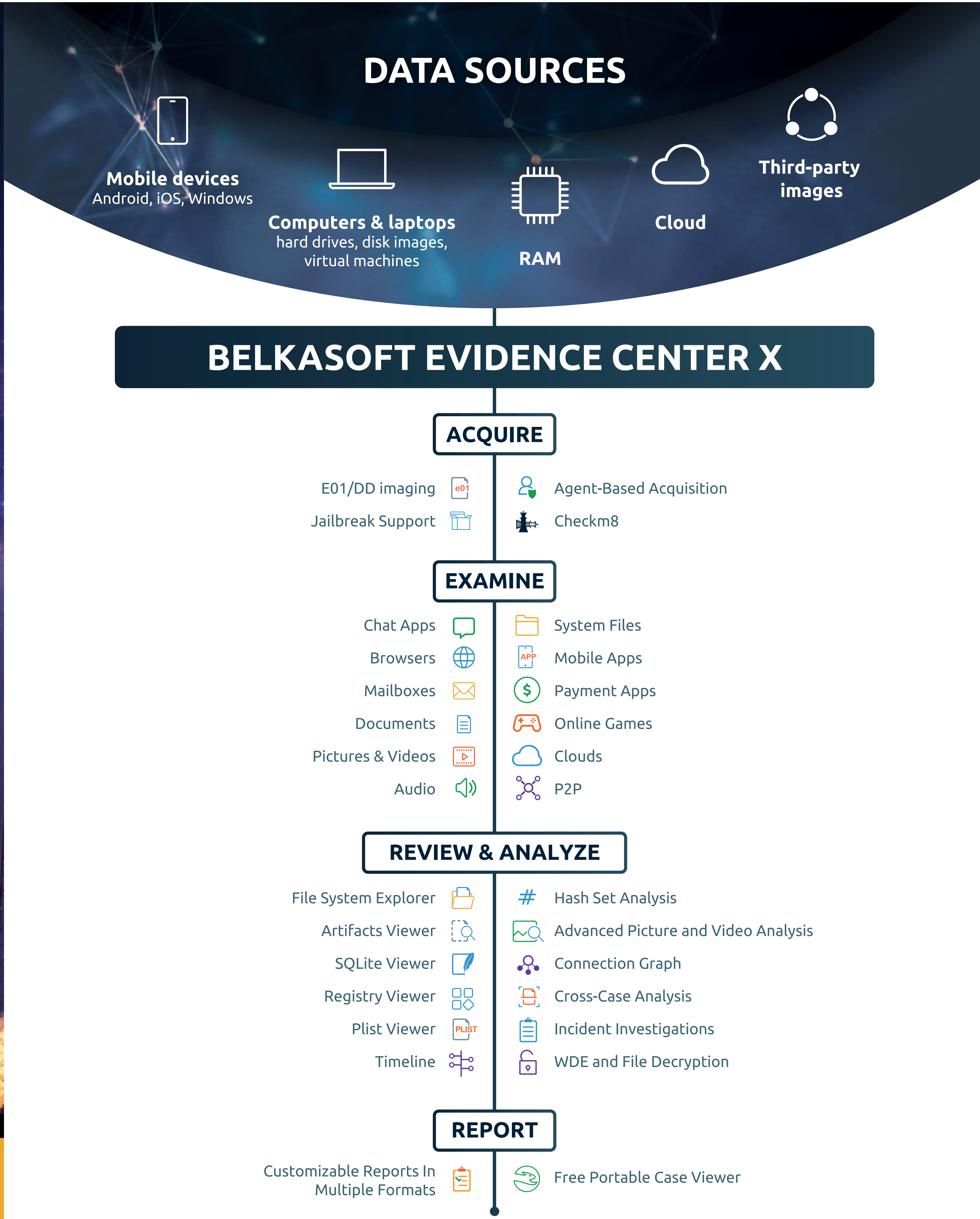
(650) 272-03-84
email: sales@belkasoft.com



DATA SOURCES

Mobile devices
Android, iOS, Windows

Computers & laptops
hard drives, disk images,
virtual machines

RAM

Cloud

Third-party images

BELKASOFT EVIDENCE CENTER X

ACQUIRE

E01/DD imaging
Jailbreak Support
Agent-Based Acquisition
Checkm8

EXAMINE

Chat Apps
Browsers
Mailboxes
Documents
Pictures & Videos
Audio
System Files
Mobile Apps
Payment Apps
Online Games
Clouds
P2P

REVIEW & ANALYZE

File System Explorer
Artifacts Viewer
SQLite Viewer
Registry Viewer
Plist Viewer
Timeline
Hash Set Analysis
Advanced Picture and Video Analysis
Connection Graph
Cross-Case Analysis
Incident Investigations
WDE and File Decryption

REPORT

Customizable Reports In Multiple Formats
Free Portable Case Viewer

Belkasoft N

Incident investigations

Belkasoft Incident Investigations (Belkasoft N) is a tool for digital incident investigations and is aimed to incident response professionals, working in a corporate environment. The product helps to identify traces left over from malware and hacking attempts on a Windows computer.

https://belkasoft.com/get

KEY FEATURES

- Detect suspicious traces in most typical locations, including registries, event logs and less known files
- Analyze how malicious code persisted in the system by analyzing services, scheduled tasks, WMI subscriptions, Applinit DLLs and so on
- Learn how and when malware was executed by examining various artifacts such as Amcache and Shimcache, Syscache, BAM and DAM
- Extract remote connections details including IP and time stamps for RDP and TeamViewer
- Find potential initial attack vector by analyzing recently opened documents and browser links, latest downloads and so on
- Search inside extracted information, bookmark important data and create reports in multiple formats

WHY SHOULD YOU CONSIDER BELKASOFT N?

Quick

Quickly respond to hacker attacks thanks to all necessary data conveniently presented on a single screen.

Comprehensive analysis

Detect impactful security events by analyzing numerous sources, such as registry, event logs, other system files and less known sources.

Search, bookmarking and reporting

Search inside found artifacts, bookmark important data and generate comprehensive incident reports right after the analysis stage.

Compatibility with other tools

Benefit from the analysis functionality of images acquired by Belkasoft X, Belkasoft R, and Belkasoft T as well as by the third-party tools.

Affordable

Comparing to the pricing of the alternative products, it will fit your budget easily.

USE CASES

Endpoint attacks

Malicious email activity

Anomalous user activity

Remote access attacks

Attacks correlation with known vulnerabilities

Belkasoft
forensics made easier

Learn more
belkasoft.com/n

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+1 (650) 272-03-84
email: sales@belkasoft.com

ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

Elcomsoft Premium Forensic Bundle

Every tool we make in a deeply discounted value pack. Extract data from mobile devices, unlock documents, decrypt archives, break into encrypted containers, view and analyze evidence with all-in-one Premium Forensic Bundle.

DIGITAL FORENSICS USING PREMIUM TOOLS

Support for more than 500 types of data

Our tools support 500+ application versions and file formats allowing users to recover passwords to Microsoft Office and OpenDocument files, Adobe PDF files, PGP disks and archives, Windows and email accounts, MD5 hashes and Oracle passwords, and remove many more types of password protection (list of supported formats).

Accessing data instantly

In many cases, Elcomsoft Premium Forensic Bundle is capable of instantly recovering passwords for a wide range of applications. Our tools exploit every known vulnerability to unlock documents instantly or near instantly, while employing smart attacks and high-end hardware acceleration techniques to quickly recover strong passwords.

Targeting the human factor

Our products offer a range of highly intelligent attacks based on the knowledge of human nature. By targeting the human factor, our smart attacks significantly reduce the number of passwords to try and increase the chance of successful recovery.

Support for popular password managers

Support for some of the most popular password managers including 1Password, KeePass, LastPass and Dashlane. Attacking and recovering a single master password provides access to dozens of passwords to a wide range of resources that are kept in the encrypted database.

25 to 250 times faster attacks with hardware acceleration

Our tools utilize dedicated high-performance cores found in video cards manufactured by NVIDIA and AMD, as well as GPU cores built into Intel CPUs including Intel HD Graphics, UHD Graphics and Intel Iris. Our thoroughly optimized algorithms enable reaching recovery rates that are up to 250 times faster compared to CPU-only benchmarks (CPU vs GPU benchmarks).

Linear scalability on up to 10,000 computers

Our tools enable massively parallel operations and scale linearly to as many as 10,000 workstations and cloud instances with no scalability overhead. Distributed attacks scale over the LAN, Internet, or both. Minimum bandwidth requirements ensure no scalability overhead even for the slowest connections.

Dictionary attack

Using the prepared dictionaries based on leaked password databases or building own password dictionaries based on instantly recovered passwords. Automatic distribution of custom dictionaries across running agents.

Cloud computing

Quickly add computing power on demand by utilizing Amazon's GPU-accelerated EC2 Compute Units or Microsoft Azure instances. Password recovery running in an Amazon or Microsoft cloud is a perfect solution when additional computational power is needed.

Comprehensive Mobile Forensic Solution

The Elcomsoft Mobile Forensic Bundle includes the most essential tools for safe and forensically sound acquisition, decryption and analysis of evidence from a wide range of mobile platforms and cloud services.

Forensic analysis of Apple devices

The newest jailbreak-free low-level access to data offers direct, safe and forensically sound extraction for Apple devices running all versions of iOS from iOS 11 through iOS 13. This new agent-based acquisition provides full file system extraction and keychain decryption without a jailbreak and literally no footprint. The complete forensic acquisition using jailbreak is also available.

More information at www.elcomsoft.com/epfb.html

Obtain iCloud backups, download photos and synced data, access iCloud passwords

Try the most comprehensive iCloud data acquisition on the market enabling forensic access to evidence stored in the cloud with and without the Apple ID password. Access cloud backups, call logs, messages, passwords (iCloud Keychain), contacts, iCloud Photo Library, iCloud files, Apple Health and Screen time, geolocation data and a lot more.

Break passwords to iOS system backups

Brute-force passwords protecting encrypted iOS backups with a high-end tool. GPU acceleration using AMD or NVIDIA boards helps achieve unprecedented performance, while access to users' stored passwords enables targeted attacks with custom dictionaries.

Full over-the-air acquisition of Google Accounts

Google collects massive amounts of information from registered customers. The Premium bundle includes the powerful and lightweight forensic tool to extract information from the many available sources, parse and assemble the data to present information in human-readable form. Extract and analyze user's detailed location history, search queries, Chrome passwords and browsing history, Gmail messages, contacts, photos, and a lot more.

Support for popular instant messengers: WhatsApp, Skype, Signal etc.

Extract, decrypt and view WhatsApp, Skype, Signal and Telegram communication histories from a wide range of devices or cloud services. Instantly retrieve the login and password information protecting user accounts in more than 70 instant messengers for desktop.

YOUR BENEFITS

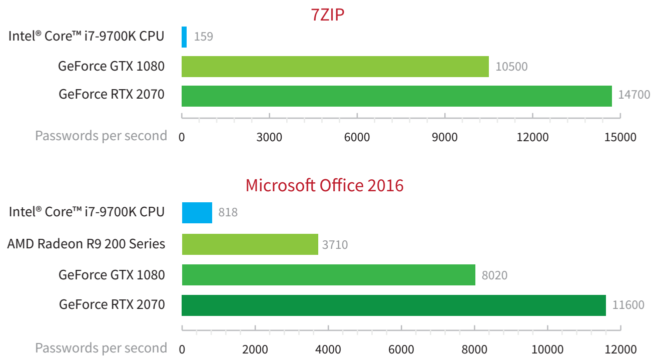
All in one

A single purchase delivers all ElcomSoft products in their respective top-of-the-line editions that allow recovering passwords and decrypting encrypted data.

Research and development

The password recovery suite features the latest and most advanced cryptanalysis algorithms developed by ElcomSoft research department. We continue to deliver cutting-edge technologies in password recovery and data decryption.

ElcomSoft Distributed Password Recovery | Version 4.20



Industry-certified technologies

Elcomsoft is Microsoft Silver Certified Partner, Intel Software Partner and member of NVIDIA CUDA/GPU Computing Registered Developer Program.

Patented technologies

ElcomSoft pioneered many software innovations that have made it easier to access protected data. The GPU acceleration, which is patented (U.S. Pat. No. 7,787,629 and 7,929,707) and unique to ElcomSoft products, making password recovery up to 250 times faster compared to traditional methods, is just one of the innovations.

Education and consulting

We offer comprehensive three-to-five-day courses offering hands-on experience in unlocking and extracting evidence from mobile devices, accessing password-protected and encrypted computer data.

ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

www.elcomsoft.com
blog.elcomsoft.com
sales@elcomsoft.com

ruSolut
Data Investigation & Recovery Technology

Visual Nand Reconstructor

Chip-off Data Recovery & Digital Forensic analysis of broken flash storage devices.

Application

Physical Damage

Firmware Failure

Electrical Damage

Thermal Damage

Analysis “non-addressed areas”

Non-recognizable disk

Workflow

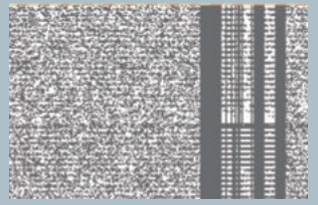
1

Put the chip into the adapter

2

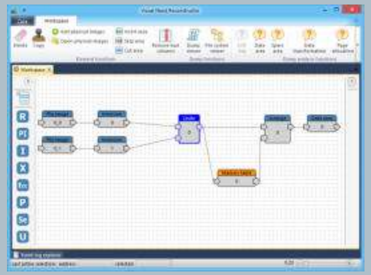
Connect the adapter to the reader and press “Read memory chips.”

3



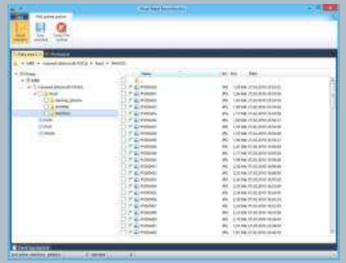
Binary dump file of physical image is produced

4



Rearrange the physical NAND blocks into the logical block by using VNR software

5



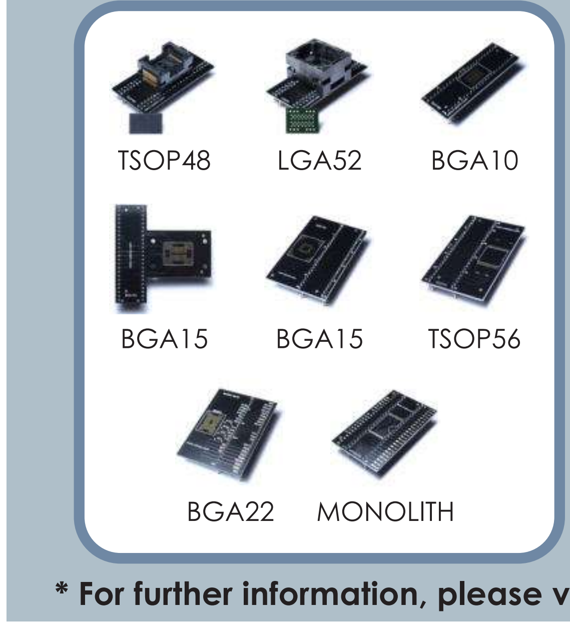
Full file-system structure is shown

Features

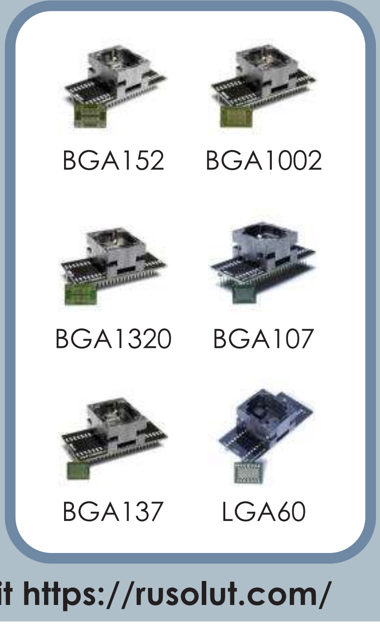
- Data recovery from broken Flash devices
- Forensic analysis of NAND physical image
- Analysis of hidden/obsolete/bad blocks of NAND memory
- Automatic analysis modes
- Largest set of adapters on market
- Powerful manual analysis and reverse engineering modes
- Unique dump viewer modes
- Support of microSD and other monolithic devices
- Flexible software conception and intuitive GUI with database
- Power adjustment for weak and mobile chips (1.8V…4.0V) separately for core and IO bus

Options

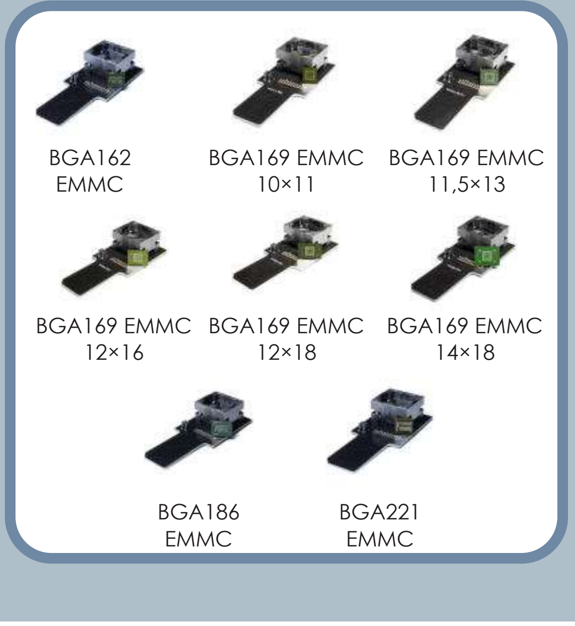
Starter Kit



Standard Kit



EMMC Adapter Kit



*** For further information, please visit https://rusolut.com/**

Data Expert™

bsi ISO/IEC 27001 Information Security Management CERTIFIED

CYACOMB FORENSICS

↗ www.cyacomb.com

The game-changing rapid triage tool Cyacomb Examiner Plus

The ultimate in speed, ease of use, and thoroughness

↗ BOOK 21 DAY TRIAL

↗ BOOK DEMO

Cyacomb Examiner Plus offers our core technology for on-scene triage - Contraband Scan. Using a combination of block level hashing, statistical sampling, and our proprietary Contraband Filters, illegal content can be found on suspect devices up to 100x times faster than traditional file hash technology.

#1 choice of investigators who want results in seconds

Mobile Device Triage, available as a feature of Cyacomb Examiner Plus, is a vital evolution of our game-changing tools. In a world where an astounding 95% of people access the internet through their mobile phones, you can now scan Android and iOS mobile devices for known CSAM and get evidence in seconds.

With Cyacomb Examiner Plus, you will get:

- ✓ Accelerated on-scene triage by finding evidence in seconds, even from large or slow devices
- ✓ Simple-to-use intuitive interface – scan in 3 steps
- ✓ Easy-to-read traffic light results to support your decision to seize
- ✓ Identified previously known files and showed their category/classification
- ✓ Rapidly detected remnants of deleted and partially downloaded files without the need to carve for files
- ✓ Rapidly detected and flagged encryption for further investigation
- ✓ Simultaneous Contraband Filter scans on multiple devices (mobile devices and hard drives)
- ✓ Detailed HTML reports (can be saved in PDF)
- ✓ Previews and report creation, with optional evidential thumbnails
- ✓ Flexibility to run from a forensic computer, bootable media, or live on suspect devices
- ✓ Scan PCs, Macs, Apple iOS, Android, external drives and SD cards
- ✓ Full control of scan options

CYACOMB FORENSICS

↗ www.cyacomb.com

> *We connected 2 external hard drives (500GBs each) and 3 thumb drives (16GBs, and 2 64GBs) to Cyacomb's tool. We received an initial positive hit for the presence of child sexual abuse material in approximately 10 – 15 seconds and within 45 seconds had positive hits on all the devices for the presence of child pornography/child sexual abuse material.*
>
> *Cyacomb has taken a process that until now has taken hours to complete and reduced that time down to less than a minute."*
>
> **DETECTIVE MIKE FONTENOT OF DALLAS PD**

Along with Mobile Device Triage and Contraband Filter Scan, **Cyacomb Examiner Plus** also offers **Filename Scan.** It allows suspect devices to be quickly scanned for file names that contain indicative or relevant keywords.

Now your time to first evidence while on-scene can be reduced from hours to minutes

Cyacomb Examiner, which offers our core technology for on-scene triage - Contraband Scan, remains available.

	CYACOMB EXAMINER	CYACOMB EXAMINER PLUS
INSTALLED	CONTRABAND SCAN	CONTRABAND SCAN FILENAME SCAN MOBILE DEVICE TRIAGE
LIVE	CONTRABAND SCAN	CONTRABAND SCAN FILENAME SCAN

Both Cyacomb Examiner and Cyacomb Examiner Plus can be used from the user's own forensic workstation or directly on target devices using a USB. With installed mode, you can scan multiple devices simultaneously.

CYACOMB FORENSICS

↗ www.cyacomb.com

Cyacomb Offender Manager

Empowering frontline investigators to easily detect illegal content and produce clear, easy-to-understand results in seconds

↗ BOOK DEMO

Fast
Use on scene to get results in seconds

Simple
Intuitive to use, portable and easy to deploy

Thorough
Identify illegal material with 99.9% confidence

- No deep digital forensic knowledge required
- Simply plug and scan
- Make informed decisions to seize while on scene

IF YOU HAVE ANY QUESTIONS, PLEASE GET IN TOUCH WITH OUR SALES TEAM
EMEA/APAC +44 131 608 0195 |
US +1 202 660 1869 |
sales@cyacomb.com

CYACOMB FORENSICS

↗ www.cyacomb.com

Cyacomb Offender Manager

Built for front line investigators, by front line investigators

> *"Cyacomb has taken a process that until now has taken hours to complete and reduced that time down to less than a minute."*

DETECTIVE MIKE FONTENOT OF DALLAS PD

Cyacomb technology has been created to find evidence faster to protect more people.

Now your time to first evidence while on-scene can be reduced from hours to minutes!

Using a combination of block level hashing, statistical sampling, and our proprietary Contraband Filters, Cyacomb Offender Manager can find evidence of known child abuse or terrorist activity on suspect's devices up to 100x faster than traditional methods.

It can be pre-configured by digital forensic experts, making on-scene use simple plug-and-play, generating fast, accurate, and clear results.

With Cyacomb Offender Manager, you will get:

- Accelerated on-scene triage by finding evidence in seconds, even from large or slow devices
- Simple-to-use intuitive interface – scan in 3 steps
- Easy-to-read traffic light results to support your decision to seize
- Free Training

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR SALES TEAM
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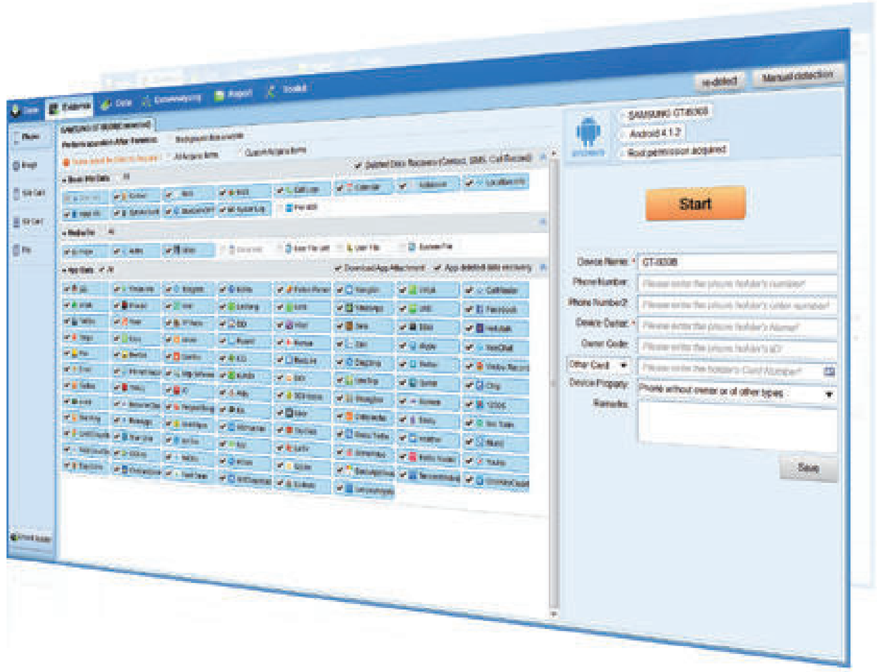
Mobile Forensic

iDC-4501

Mobile Forensics System



Device Name: GT-I9308
Phone Number: Please enter the phone holder's number
Phone Number2: Please enter the phone holder's other number
Device Owner: Please enter the phone holder's Name
Owner Code: Please enter the phone holder's ID
Other Card: Please enter the holder's Card Number
Device Property: Phone without owner or of other types
Remarks:

OVERVIEW

iDC-4501 Mobile Forensics System is an one-stop Android & iOS cell phone forensics solution. It specializes analysis on Chinese-brand mobile phones, featuring forensic toolkits like Android Unlock Master. The system is available on the Windows 10.

FEATURES

Standard & Full Forensics Workflows

The system provides standard forensics workflows step by step, including cell phone data acquisition, data recovery, data analysis and report making.

Strong Support For Android Cell Phones

Quickanalysisonmultiple Android cell phones with screen unlock or flash image functions, especially those with Chinese brands like Huawei, Xiao MI, OPPO, vivo and more.

Privilege Escalation For IPhone

The system provides exclusive function for investigators to access iPhone data by privilege escalation, which is now available for iPhone from iOS 10 to iOS 11.1.2.

More Applications Supported

Analysis on popular applications like WeChat, WhatsApp, Telegram, LINE and more.

Rich Forensics Tools

Built-in rich forensics tools to provide screen unlock, one-key root, image, backup guide and others.

Analysis Results Shown Clearly With MYReader

MYReader, as a standard tool for report making, gives investigators clear overview of analysis results and facilitates group collaboration.

Software Functions	Case	○ Connect to cell phones by data cable or Bluetooth to create the case. Up to 7 operating systems are supported including Android, iOS, Linux, Symbian, Windows Mobile/ Windows Phone 7, BlackBerry, and Bada.
	Evidence	○ Support cell phone forensics to make data acquisition with screen unlock or password bypassing, deleted data recovery, Android backup, image with MD5 hash value calculated and more. Also SIM/SD/file analysis are supported.
	Data	○ Classify and display cell phones data clearly, including audio & video files, position, browser, Email, applications info and more.Support to search, mark and generate report.
	Data Analyzing	○ Support trace recording of multiple applications, including analysis and extraction from Skype, Facebook, Twitter, Internet history, E-mail and more.Support correlation analysis among call records, SMS, records, E-mail and more. Support photo analysis and trajectory analysis.
	Report	○ Provide intuitive forensic reports and show analysis results, which can be exported for printing in Word, Html, PDF and other formats.
	Toolkit	○ Provide more than 30 different tools such as password bypassing, Android one key root, signature recovery, SQlite file browsing and more.

DE-2000

Recovery Master

OVERVIEW

The portable DE-2000 Recovery Master is an all-rounded professional digital recovery equipment. This equipment highly integrates recovery technologies of mobiles, computers, surveillance, fragmentary pictures, applications, and documents, which efficiently solves all kinds of data losing problem.

FEATURES

Video Recovery

Support 65 surveillance devices of Hikvision, Alhua, covering 85% of surveillance devices in the market. Recovery of recorder videos and standard videos is also supported.

Mobile Phone Data Recovery

Support mobile phone data recovery of main stream brands such as iPhone, MI, Huawei, ZET, and on iOS, Android, MTK and other mobile phone OS, with 98.6% support rate.

Computer Data Recovery

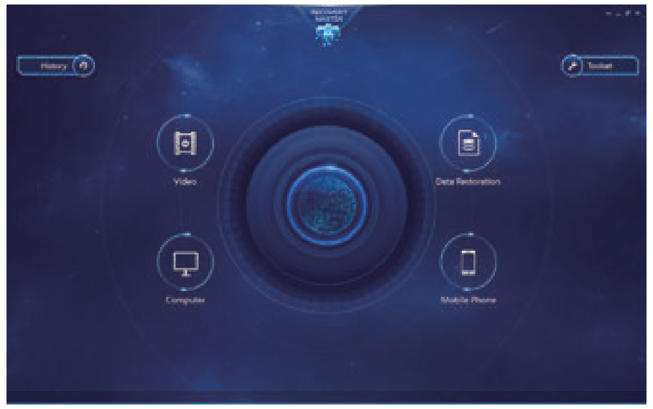
Support computer data recovery on normal disks, partitions, image files, RAIDs, and on Windows, Linux, Mac OS.

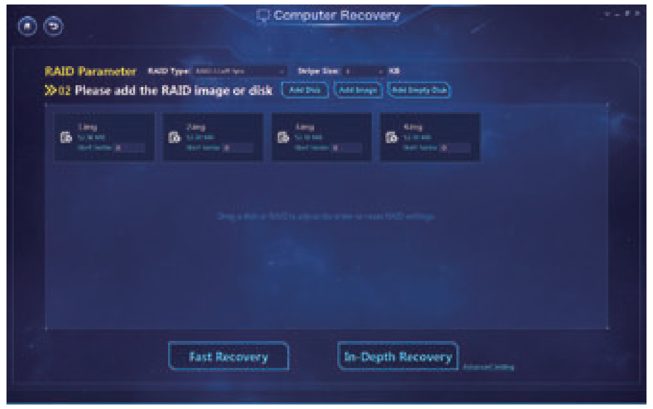
Fast Recovery

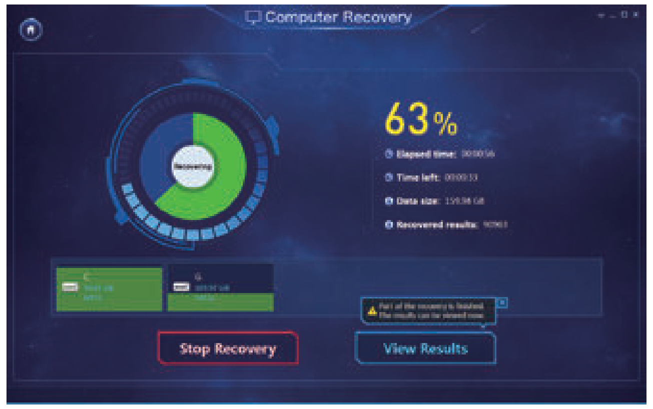
Recover data that is not moved to the Recycle Bin but directly deleted or is emptied from the Recycle Bin. Supported file systems are NTFS, FAT32/16/12, exFAT, HFS+, EXT3/4 and ReFS.

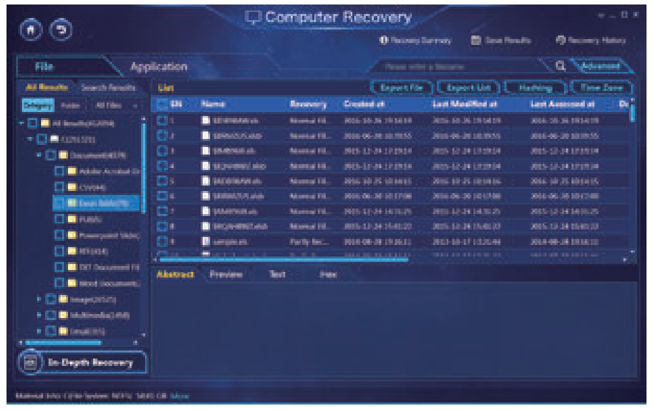
In-Depth Recovery

Recover records of deleted applications and deleted, missing, or damaged files that are caused by virus attack or power failure.





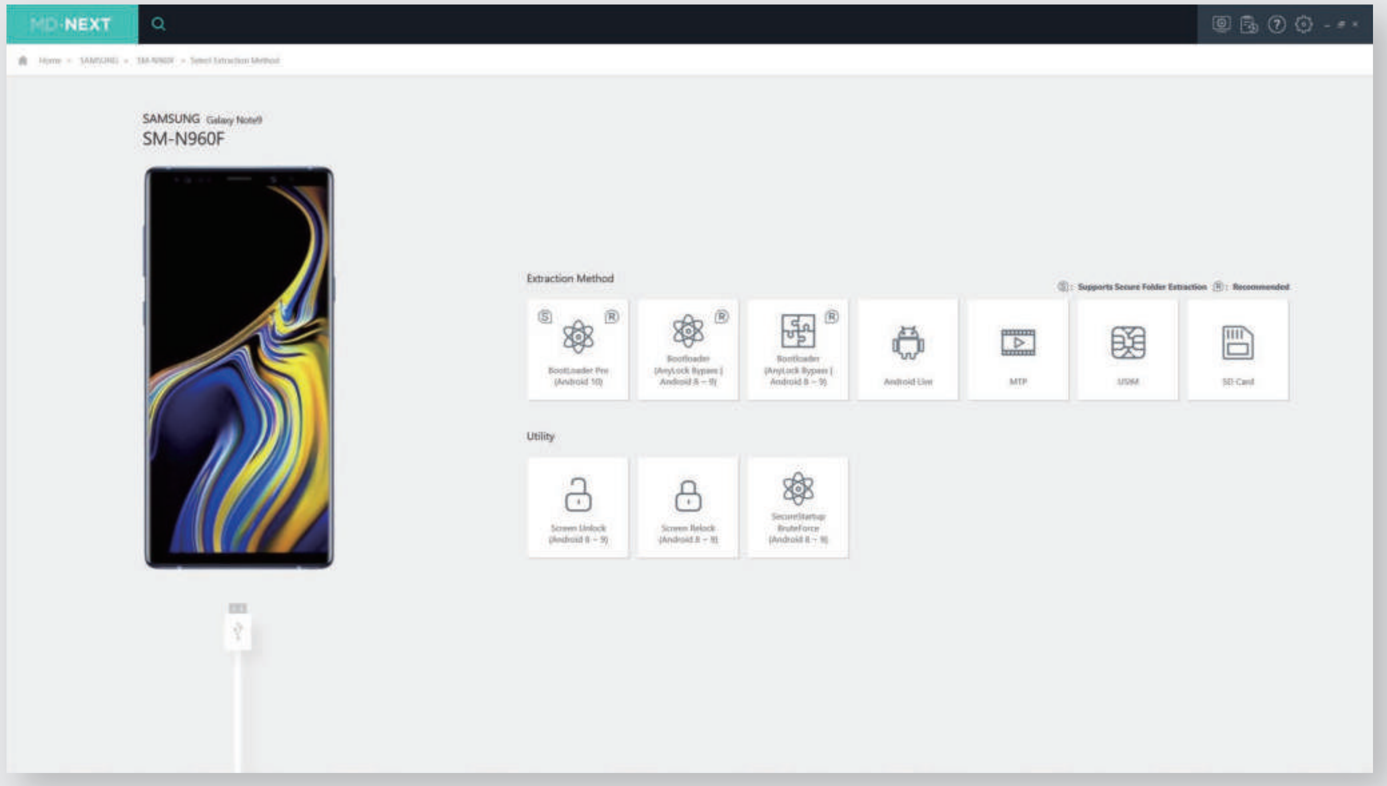




MD-NEXT

Mobile Data Extraction and Unlock Tool for Asian Manufacturers Phone Models

MD-NEXT is the forensics software to extract data from mobile and digital devices of manufacturers worldwide, including latest Smart-phones, Feature phones, IoT devices, Smart TVs, Drones, Chip-off memory, and JTAG boards. Physical and logical extraction methods for various types of OSs, backup files, and media cards are available.


MD-NEXT
Home > SAMSUNG > SM-N960F > Select Extraction Method
SAMSUNG Galaxy Note9
SM-N960F
Extraction Method
Ⓢ : Supports Secure Folder Extraction Ⓡ : Recommended
BootLoader Pro (Android 10)
Bootloader (AnyLock Bypass) Android 8 ~ 9)
Bootloader (AnyLock Bypass) Android 8 ~ 9)
Android Live
MTP
USIM
SD Card
Utility
Screen Unlock (Android 8 ~ 9)
Screen Relock (Android 8 ~ 9)
SecureStartup BruteForce (Android 8 ~ 9)

System Requirements

OS	Windows 8/10/11 (64 bit)
CPU	i5 or above
RAM	4GB or above
Disk	1TB or above
Display	1024x768 or above
USB	2 or more USB 2.0/3.0/3.1 ports

Microsoft.Net Framework 4.6.2

Product Components

MD-NEXT Installation Software (USB Memory/Online)

USB Dongle Key 1 EA

Warranty 1 Year

Product Specification

Powerful Extraction Tool that Covers Wide Range of Devices

- Supports more than 15,000 models of
  - Global smartphone manufacturers (Samsung/Apple/LG/Nokia/Microsoft and etc.)
  - Chinese manufacturers (Huawei/Xiaomi/Oppo/Vivo and etc.)
- Drone extraction: DJI (Phantom, Maverik), Parrot
- AI Speaker extraction: Amazon Echo, Kakao Mini, Naver Clova
- Smart TV extraction: Samsung, LG, Android TV, Apple TV
- IoT device, Smart TV, IP Camera, and Car dashboard

Android Extraction

- Samsung: Qualcomm Full filesystem extraction, Exynos Full filesystem, Bootloader Pro, Bootloader AnyLock Bypass (Unlock/Relock/SecureStartup BruteForce), Bootloader, ADB pro T4, Android Live logical extraction (Smart Switch, Extraction Agent, ADB Backup with App Downgrade)
- LG: Physical extraction by Android system exploit, Physical extraction, Android Live logical extraction (Bridge, Extraction Agent, ADB Backup with App Downgrade)
- Huawei: Kirin Full filesystem extraction, Physical extraction, Android Live logical extraction (HiSuite, Extraction Agent, ADB Backup with App Downgrade)
- Other manufacturers
  - Xiaomi, OPPO, Vivo, Google, Pantech physical extraction(Chinese, Indian)
  - Physical extraction for Japanese manufacturer model: Sharp, Sony
  - Qualcomm, MTK chipset extraction

iOS Extraction

- iOS Full file system by Checkm8, and iOS Agent program
- iOS backup extraction
- iTunes backup file extraction
- iOS physical extraction

Extraction from the Backup files

- Extraction from iOS backup file, ADB backup file in PC
- Extraction from backup files in Samsung, LG, Huawei, Xiaomi OPPO, Gionee smartphones

Physical Data Extraction from Media card

- Trace32 JTAG debugger
- UP828 Memory chip reader
- SD Memory Reader
- UFS Memory Reader
- USIM Reader

Extraction Performance

- Max.32GB/20min extraction performance
- Multiple device extraction
- Extraction sequence management(Sequential/Simultaneous)

Assurance of Evidence Data Integrity

- Supports write-protection to every evidence data
- Supports 10 hash algorithms such as MD5, SHA1/224/256/384/512, RIPEMD128/160/256/320

Reporting

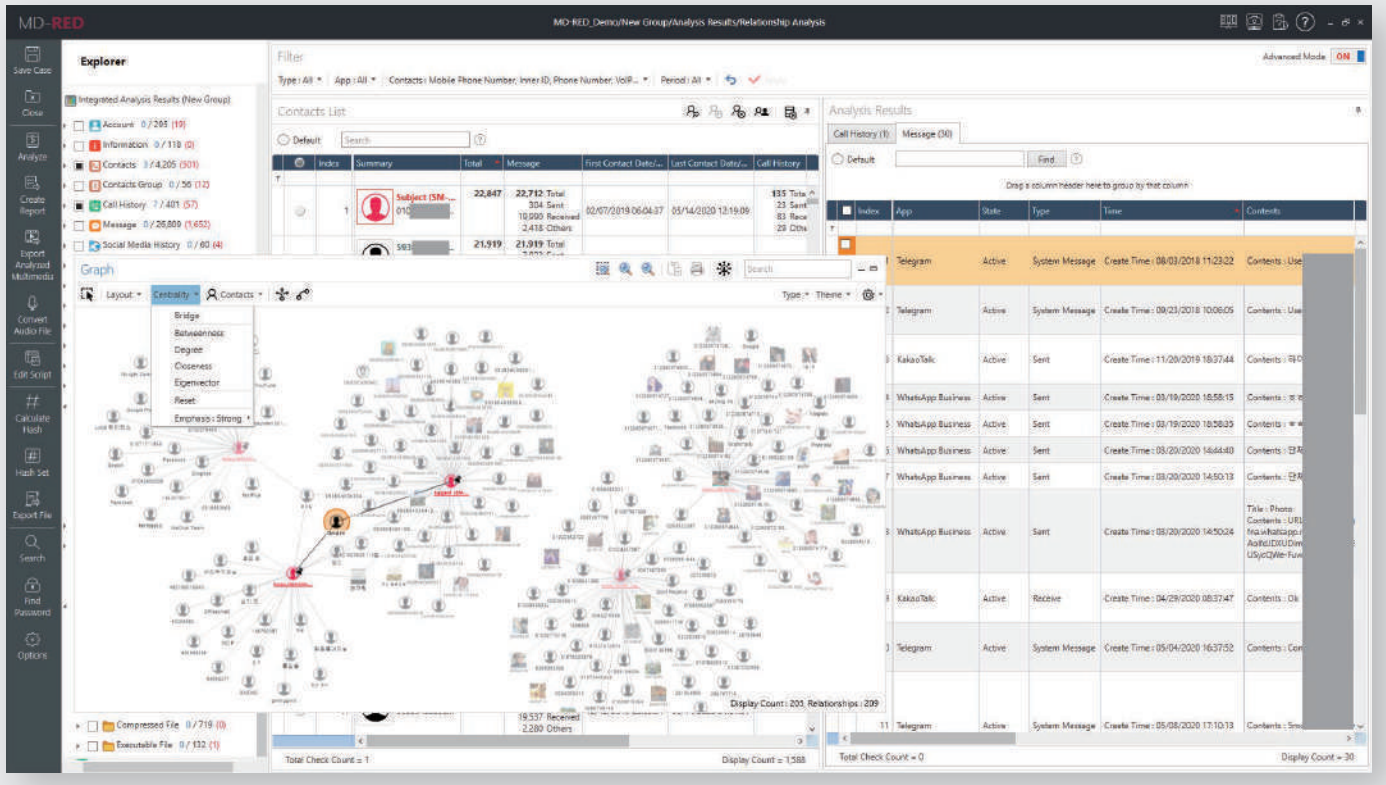
- Extraction information - Hash value, Time, Method and File name
- Report file formats - PDF, Excel and HTML
- 'Extracted File List' generation with hash value of each file
- 'Witness Document' generation
- Regeneration of 'Extraction Reports'

*Contact us for more detailed product spec information.

MD-RED

Data Analysis Software for Recovery, Decryption, Visualization, Analytics, and Reporting

MD-RED is the forensics software for recovery, decryption, visualization, analytic data mining, and reporting evidence data. Advanced analysis feature allows to decrypt encrypted data from messages, messengers, emails, etc., and users can easily review the analyzed result through the various data filters, and embedded viewer. All the analysis results can be exported as a report and reviewed with a standalone viewer MD-Explorer.



System Requirements

OS	Windows 8/10/11 (64 bit)
CPU	i7 or above
RAM	8GB or above
Disk	1TB or above
Display	1024x768 or above
USB	2 or more USB 2.0/3.0/3.1 ports
Microsoft.Net Framework 4.6.2	

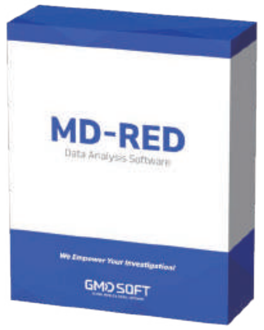
Product Components

MD-RED Installation Software (USB Memory/Online)

USB Dongle Key 1 EA

Warranty 1 Year

Product Specification



Parsing and Recovery of Various Images and File systems

- Images: SD Card, phone data partition, MDF, E01, GrayKey, UFED image format
- File systems: FAT12, FAT16, FAT32, NTFS, exFAT, HFS+, EXT2, EXT3, EXT4, F2FS, VDFS, APFS, TAT16, TAT32, NxFS, IKVISION, DHFS4.1, WFS0.4, TANGO, RSFS, WOW, VDFS, XFS, YAFFS, EFS2, TFS4
- Data carving for unused area

Analysis of Mobile Data and Apps

- Multimedia files taken by phone camera
- Call log, Address book, SMS/MMS, Email, Memo, Internet history
- SNS, Map, Navigation, Health, Banking and Lifestyle apps
- Detects Steganography, anti-forensic apps
- Deserialization, Decryption and Recovery of data

Advanced Analysis of Popular Messengers

- Description of encrypted messenger data
- Decryption and analysis for multiple backup files of WhatsApp
- Multiple account analysis

Data Visualization and Social Relationship Analysis

- Map view for GPS data and cell tower location
- Timeline view
- Communication visualization
- Web browser for internet history review
- Social relationship analysis
- Community analysis by centrality

Multiple Space Analysis

- Samsung secure folder(KNOX space) analysis
- Huawei PrivateSpace analysis
- Android Multi-Space analysis

Data Decryption and Recovery

- Identifies encrypted document
- Decrypts encrypted chat message, email, file and app data
- Recovery of deleted file and multimedia data

Dynamic Data Filter and Search

- Filtering by file system, signature, time and etc.
- Dynamic filtering operators, sorting, grouping and etc.
- Search by regular expression
- Keyword registration
- Bookmarking of selected data
- Multimedia filter by app, status, size, type, property, path and etc.

Reporting

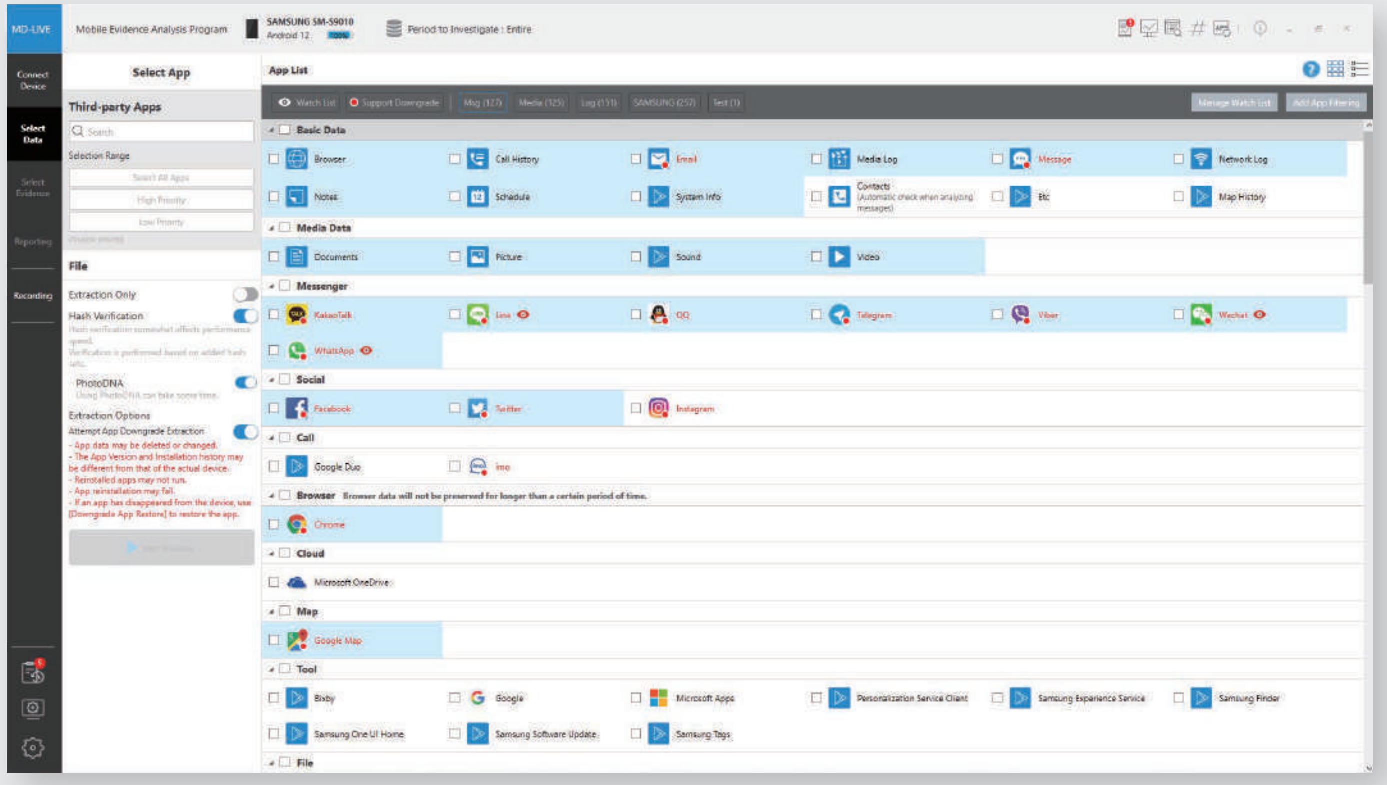
- Export of original or converted files with file hash value
- Report file formats - PDF, Excel, ODS, HTML, XML and SQLite DB
- 3rd party report file formats - NUIX, Relativity and ForensIQ one
- Electronically stored information can be included in a report
- Analyzed result can be reviewed with a stand-alone data viewer 'MD-Explorer'

*Contact us for more detailed product spec information.

MD-LIVE

Mobile Data Extraction and Analysis Tool for On-The-Spot Investigation and Triage

MD-LIVE supports quick on-site investigation with device scanning, extraction, analysis, and reporting features. Selective extraction, Watch List, Keyword, and Hash search features enable time-efficient investigation and prevent privacy infringement.



- App data may be deleted or changed.
- The App Version and Installation history may be different from that of the actual device.
- Reinstalled apps may not run.
- App reinstallation may fail.
- If an app has disappeared from the device, use [Downgrade App Restore] to restore the app.

Browser data will not be preserved for longer than a certain period of time.

System Requirements

OS	Windows 8/10/11 (64 bit)
CPU	i5 or above
RAM	8GB or above
Disk	256GB or above
Display	1200x700 or above
USB	2 or more USB 2.0/3.0/3.1 ports

Microsoft.Net Framework 4.6.2

Product Components

MD-LIVE Installation Software (HDD/USB Memory/Online)

USB Dongle Key 1 EA

Warranty 1 Year

Hardware Package Option (MD-PORTABLE)

Rugged case

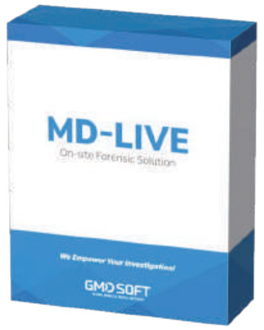
Laptop or Tablet

Cable sets

HDMI Capture board

MD-CAMERA (External HD Camera)

Product Specification



Extraction

- Automatic recognition of smartphone model
- Detail information view for installed apps
- Various filtering option for installed apps
- Extraction guides and notifications per OS type
- Displays extraction progress by app
- Multi-space notification
- Selective extraction by app or by time period
- Notification of the battery level before extraction

Analysis

- App analysis
  - Over 2,000 of Android and iOS apps
  - Messenger data decryption - Facebook Messenger, WeChat, Signal, Wickr, Discord and etc.
  - Multi-account app analysis - WeChat, Telegram, Instagram, Facebook Messenger and etc.
- Various DB format analysis - SQLite, Realm, Bolt, ESE and etc.
- Various file system analysis
- Signature-based multimedia analysis

Analysis Result View

- Customized filters by analysis result types
- View selected items or search results
- Messenger view
- GPS geolocation visualization support with the online and offline maps
- Keyword List search by import of external file or manual input
- Watch List and the user-defined filter of apps
- Hash set search by import of external file, manual input, Project VIC (UK, US, CA), and Photo DNA
- Internal viewers for documents, database, hex, text, image, audio and video
- Browser for Internet browsing history view

Recording Investigation

- Photographing, video/audio recording of evidence and investigation process by MD-CAMERA (External HD Camera) or HDMI capture board supplied as option items
- Mirrored and remote-controlled smartphone screen can be captured and recorded
- PC screen recording of MD-LIVE to reproduce or to verify its forensics process
- Log analysis to track the recent history of smartphone app usage and system history
- Monitoring active phone process for malware or specific active app investigation

Reporting

- Report types
  - Analysis results summary
  - Analysis results report (Result details)
  - Electrically stored information (Extracted files list)
- Report options
  - Anonymous report - Protects the witness or the victim by hiding their information
  - Report with large image - Displays one image on each page not to scales down
  - Archive report file as MDF/ZIP/TAR/DD
  - Report file formats - PDF, Excel
  - HASH algorithm options - MD5, SHA1/224/256/384/512, RIPEMD128/160/256/320

**Contact us for more detailed product spec information.*

MOBILedit Forensic

MOBILedit Forensic is a phone and cloud extractor, data analyzer and report generator in one solution. A powerful 64-bit application using both the physical and logical data acquisition methods, MOBILedit Forensic is excellent for its advanced application analyzer, deleted data recovery, wide range of supported phones including most feature phones, fine-tuned reports, concurrent phone processing, and easy-to-use user interface.

MOBILedit Forensic offers maximum functionality at a fraction of the price of other tools. It can be used as the only tool in a lab or as an enhancement to other tools through its data compatibility.

Security bypassing with Live Updates

MOBILedit Forensic has built-in security bypassing for many phone models, allowing you to acquire a physical image even when the phone is protected by a password or gesture. Bypass the lock screen on a wide range of Android phones, so you can keep the investigation moving forward. We are introducing a new approach to security bypassing with **Live Updates** technology - new phone models can be added even without a MOBILedit reinstallation, just like updating an antivirus software!

Physical data acquisition and analysis

In addition to advanced logical extraction we also provide Android physical data acquisition, allowing you to extract physical images of investigated phones and have exact binary clones. Physical analysis allows you to open image files created by this process, or those obtained through JTAG, chip-off or other tools to recover deleted files plus all other deleted data, where our product is known to be excellent.

Deleted data recovery

Deleted data is almost always the most valuable information in a device. It often hides in applications; and because this is our strongest expertise, we deliver great results in finding deleted data. Our special algorithms look deeply through databases, their invalidated pages and within caches to find any data that still resides in a phone.

Advanced application analysis with Live Updates

The use of apps to communicate and share has grown rapidly. Many apps are released or updated everyday. It is obvious that the analysis of apps is vital to retrieving as much evidence as possible. This is the strongest point of MOBILedit Forensic, you get **updates of application analysis live** and as often as needed. Data is analyzed for its meaning so you see it on a timeline as a note, a photo, a video or a flow of messages no matter what app was used to send them.

Password breaker with GPU acceleration

Gain access to locked backups of a phone by using our password and PIN breaker. Passwords can be cracked by performing a dictionary attack using our built-in dictionary, or you can use your own dictionary for other languages. Password breaker uses GPU acceleration and multi-threaded operations for maximum speed. Although iOS has well-protected data due to its on-the-fly hardware encryption, MOBILedit Forensic is able to penetrate this protection and retrieve the data using the lockdown method.

Concurrent extractions with 64-bit engine

The new 64-bit engine provides stability and the ability to analyze huge amounts of data, apps with hundreds of thousands of messages, photos and other items, plus several phones at once. Speed up your investigation process by extracting multiple phones at the same time, and generating multiple outputs for each one. All you need is a USB hub, cables and a computer powerful enough to perform concurrent jobs. You can finish a week's worth of work overnight!

Fine-tuned reports in any language

A tremendous amount of effort has been dedicated to refining reports so they are customizable to any language, easy to read, concise and professional. An enhanced report configurator allows you to define exactly which data will be extracted from the phone and how the report will look. Reports are available in PDF, XLS, or HTML formats, and you can generate data exports compatible with the other data analysis tools you use in your lab.

Wide range of supported phones

Since 1996 we have supported an extremely wide range of phones manufactured over two decades. The software supports thousands of handsets including popular operating systems such as iOS, Android, Blackberry, Windows Phone, Windows Mobile, Bada, Symbian, Meego, Mediatek, Chinese phones, and CDMA phones. The software can handle many feature phones without an OS.

Object and face recognition - the power of Artifical Intelligence

Use Artificial Intelligence to find the evidence and speed up your work. This state-of-the art tool is equipped with the latest deep-learning technology and is designed to rapidly identify photos of what an investigator is searching for. Simply specify a folder of photos, choose items you are searching for, such as pistols, knifes, narcotics, money, documents, people and many others.

Camera Ballistics - scientific image analysis

The scientific forensic tool that matches a photo to a camera, like a bullet to a gun. When combined with MOBILedit Forensic you are able to identify which images present on the analyzed phone were actually taken by the phone's camera.

Integrate with other tools

We all know that it is a good practice to use multiple tools in a lab. We've designed our software with the ability to integrate with other forensic tools. Import and analyze data files exported from Cellebrite UFED reports to get even more data. We extract all data also into open data format, so you get all the files directly as they are in the phone. This allows you to use many open source tools.

compelson
Makers of MOBILedit

Get more information at www.mobiledit.com/forensic-express
Contact us at sales@compelson.com

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compelson

MOBILedit
Cloud Forensic

Get a complete digital footprint of a suspect

People interact within today's digital universe through their phones and applications, leaving digital footprints everywhere. For a full and successful digital investigation, it is necessary to analyze all traces. Phone forensics is extremely important, but what is stored in a mobile device is only a snapshot of the overall data. The evidence found in clouds, message platforms, and social networks brings a complete insight into a person's life. Understand their lifestyle, activities, personality, likes/dislikes, preferences, and social activities through services such as Facebook, Instagram, LinkedIn, Twitter, Slack, or Google apps.

With a successful phone examination provided by MOBILedit Forensic PRO, you have almost everything necessary for a successful cloud extraction. This is because phone applications hold precious login information for most cloud services. Even without a phone, you can still access data from cloud services that are used by millions of people multiple times a day, everyday. MOBILedit Cloud Forensic is a complete cloud data forensic downloader and report generator for the most popular services. It can immediately start downloads when authentication information is found in a phone, and it can run multiple extractions concurrently when time is of the essence.

MOBILEDIT CLOUD FORENSIC IS AVAILABLE IN TWO OPTIONS TO CATER TO BOTH NETWORK FORENSIC INTERCEPTION AND MOBILE DEVICE EXAMINERS.

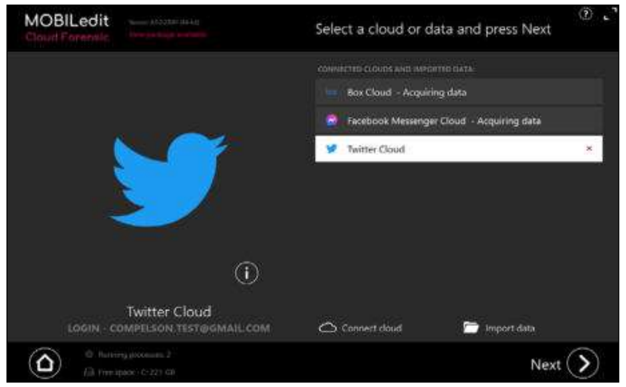
The first option is direct integration of Cloud Forensic with MOBILedit Forensic PRO. With this option, you can extract data from clouds via a mobile device connected to MOBILedit Forensic PRO. The credentials are extracted from the device, and cloud extraction is started as part of the phone examination process. These credentials are also saved so that an investigator can either use the token or the account login details at a later date.

The second option is a standalone software product for investigating cloud storage and cloud services without the need to examine mobile devices. Access to clouds using this method requires a password and a username or a token imported from another source. In both cases, you can investigate more than one cloud at a time, and extractions will run concurrently to help you work faster and retrieve more evidence quickly.

The extractable amount of data is as big as the cloud account. Therefore, you will have to take storage capacity into consideration or filter by time frame at the point of extraction. Additionally, tokens do have an expiration date depending on the service provider.

FEATURES

- Automatic download of clouds using either an authorization token or a username and password credentials. These can be found, extracted, and saved from a phone during extraction and analysis with MOBILedit Forensic PRO.
- Both authorization token access and username and password access are supported. An authorization token is a file saved on a computer or mobile device. It recognizes a device and account to allow a user to log in to a service without having to enter a username and password every time.
- Manual access by entering a user name and password.
- Immediate and concurrent downloads that enable an investigator to work effectively while extracting the maximum amount of data in the shortest time possible. Time is critical because a user can wipe all data, a token could expire, or a password could be changed.
- Professional reports and exports in the following formats: pdf, html, xml, ufdr, and Excel.
- Full file structure download.



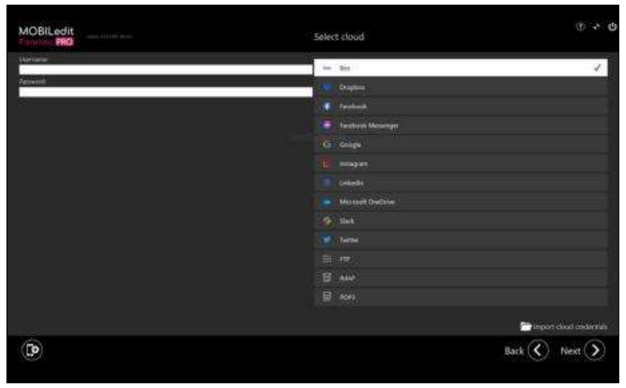
MOBILedit
Cloud Forensic

Select a cloud or data and press Next

CONNECTED CLOUDS AND IMPORTED DATA:

Box Cloud - Acquiring data
Facebook Messenger Cloud - Acquiring data
Twitter Cloud

Twitter Cloud
LOGIN - COMPELSON.TEST@GMAIL.COM



MOBILedit
Forensic PRO

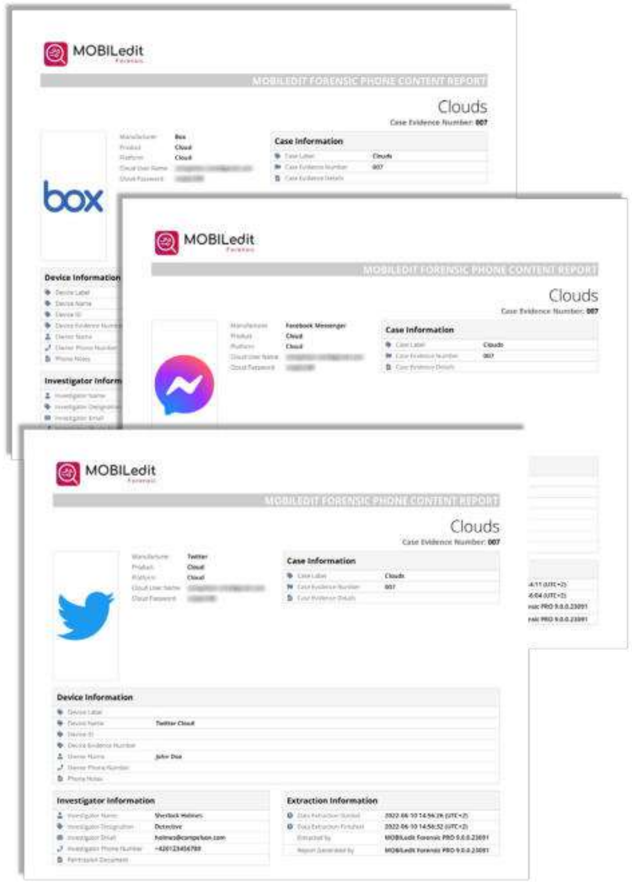
Select cloud

Username
Password

Box
Dropbox
Facebook
Facebook Messenger
Google
Instagram
LinkedIn
Microsoft OneDrive
Slack
Twitter
FTP
IMAP
POP3

SUPPORTED SERVICES

- Box
- Dropbox
- Google Drive
- Microsoft OneDrive
- FTP
- Facebook
- Facebook Messenger
- Google Contacts, Calendar, Keep
- Instagram
- LinkedIn
- Slack
- Twitter
- Emails such as Gmail, Outlook, and many others through POP3, IMAP protocols
- and more



WHY CLOUDS?

- By 2025 it is estimated that half of the world's data will be in the cloud, accounting for 100 zettabytes. That's 100 billion terabytes of data. (Cybercrime Magazine - Page One For The Cybersecurity Industry)
- The average person is storing 500 GB of data in their personal cloud storage. Regarding text documents alone, the average person stores around 130 GB of these in the cloud, which equates to 10 million pieces of paper. Now imagine the possible amount of evidence hiding there. (pCloud - The Most Secure Cloud Storage)
- Facebook Messenger is one of the leading messaging platforms in the US, with more than 2 million monthly downloads. More than 20 billion messages are exchanged between businesses and users monthly on Facebook Messenger. (Home - Review42)

compelson

Get more information at www.mobiledit.com/cloud-forensic
Contact us at sales@compelson.com

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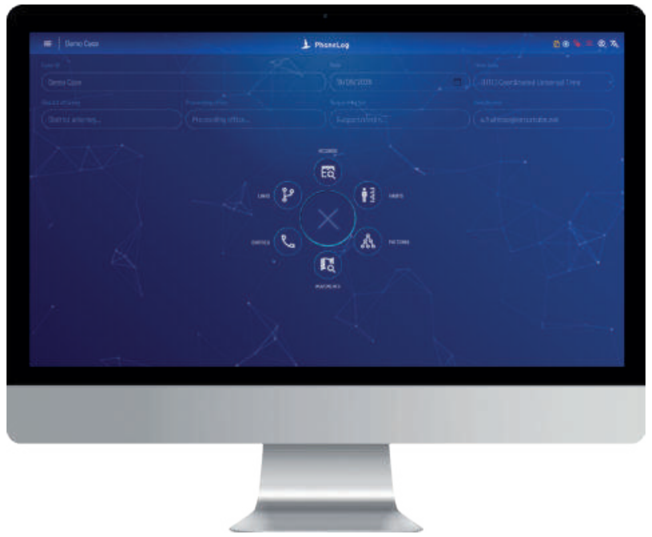
PhoneLog

Multi Level Phone Records Analytics
Digital Evidence Correlation
3D mapping

Two Steps Ahead – One of a Kind Complete



PhoneLog is the software for the cross-analysis of digital evidence:

- All types of Call Detail Record research, statistics, and mapping
- Integrated Cell Sites Location data management
- Cell Site real signal coverage surveys and knowledge
- Third party mobile extractions, GPS tracks, wiretaps, and much more

Data Validation is key when using a variety of digital sources. **PhoneLog will unlock this potential.**

Visualize and examine multiple sources at the same time with a solid and logical method for the in-depth reconstruction of mobile digital alibis.

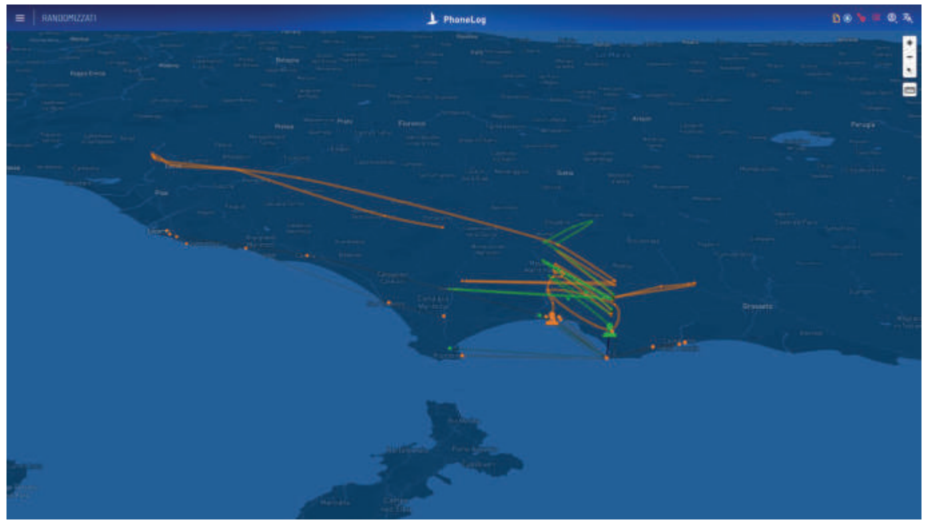
Place all your evidence on a state of the art 3D map and visualize events and user movements.

Maintain evidence integrity and protect it with a forensic hash code system based on international best practices.

PhoneLog is the answer

Discover how powerful functions will make your digital investigation soar:
it's extremely smart, fast, and easy to use.

SecurCube®



CDRs matched to other digital sources, to name a few:

- MSAB XRY, Cellebrite UFED, Oxygen Forensics, MOBILedit Compelson and other mobile extractions
- Cell Towers real coverage data collected with SecurCube BTS Tracker
- Wiretaps, GPS logs, CCTV camera feeds

Integrate all this and more to PhoneLog

Choose PhoneLog and you have:

- Artificial Intelligence to quickly import any CDR format
- Two software configurations for your needs: client server browser environment or desktop interface
- Statistical data mining: habits, heatmaps, connections, and movements - no data limits
- Video animations of your results on complete 3D maps
- Easy to understand diagrams and custom courtroom presentations

SecurCube Cell Service: the easy to click global cell site data management search engine.

All the info You need on every cell tower for every carrier.

- Installation details
- Change of location or ID realignments
- Theoretical cell signal coverage
- Cell site real coverage collected with SecurCube BTS Tracker

NO CONFUSION NO MISTAKES

TRUST OUR YEARS OF EXPERIENCE IN STUDYING CELL NETWORKS WORLDWIDE

SecurCube® is a world leader in phone records (CDR) and cell site (BTS) real coverage in the field of digital forensics.

Daily cooperation with law enforcement, prosecuters, and judges providing software and hardware, consulting, analysis and training.

We develop the tools and also work alongside digital experts and know, first hand, how to conduct professional cases with success.

Our software has been created to answer real everyday digital investigations.

Cutting-edge forensic systems in line with international best practices and our experience.

CONTACT US FOR A FREE WEBINAR AND PRESENTATION OF OUR FORENSIC SOLUTIONS.

✉ **info@securcube.net** **www.securcube.net** ☎ **+39 345 574 4134**

SecurCube®

ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

Elcomsoft Mobile Forensic Bundle

The complete mobile forensic kit in a single pack. Perform physical, logical and over-the-air acquisition of smartphones, tablets and wearable devices, break mobile backup passwords and decrypt encrypted backups, view and analyze information stored in mobile devices and cloud services.

TOOLS FOR MOBILE FORENSICS

Comprehensive Mobile Forensic Solution

The Elcomsoft Mobile Forensic Bundle includes the most essential tools for fast, safe and forensically sound acquisition, decryption and analysis of evidence from a wide range of mobile platforms and cloud services.

Forensic analysis of Apple devices

The newest jailbreak-free low-level access to data offers direct, safe and forensically sound extraction for Apple devices running all versions of iOS from iOS 11 through iOS 13. The new agent-based acquisition provides full file system extraction and keychain decryption without a jailbreak and literally no footprint. The complete forensic acquisition using jailbreak is also available.

Obtain iCloud backups, download photos and synced data, access iCloud passwords

Try the most comprehensive iCloud data acquisition on the market enabling forensic access to evidence stored in the cloud with and without the Apple ID password. Access cloud backups, call logs, messages, passwords (iCloud Keychain), contacts, iCloud Photo Library, iCloud files, Apple Health and Screen time, geolocation data and a lot more.

Break passwords to iOS system backups

Brute-force passwords protecting encrypted iOS backups with a high-end tool. GPU acceleration using AMD or NVIDIA boards helps achieve unprecedented performance, while access to users' stored passwords enables targeted attacks with custom dictionaries.

GPU acceleration: patented technology significantly reduces password recovery time

The company's patented GPU acceleration applied to breaking passwords protecting iOS backups is unmatched by competition. ElcomSoft pioneered asynchronous GPU acceleration, enabling simultaneous use of multiple video cards by different makes, models and architectures (AMD and NVIDIA) in a single PC for faster and more cost-effective attacks.

Dictionary attack

Using the prepared dictionaries based on leaked password databases or wordlists with highly customizable mutations targeting the human factor and common password patterns. The tool supports a variety of mutations, trying hundreds of variants for each dictionary word to ensure the best possible chance to recover the password.

Full over-the-air acquisition of Google Accounts

Google collects massive amounts of information from registered customers. The Mobile bundle includes the powerful and lightweight forensic tool to extract information from the many available sources, parse and assemble the data to present information in human-readable form. Extract and analyze user's detailed location history, search queries, Chrome passwords and browsing history, Gmail messages, contacts, photos, and a lot more.

Support for popular instant messengers: WhatsApp, Skype, Signal etc.

Extract, decrypt and view WhatsApp, Skype, Signal and Telegram communication histories, attachments and contact lists from a wide range of devices or cloud services. The downloading of the conversation histories, when available, only takes minutes!

Fast download, search and analysis

With Elcomsoft mobile forensic tools investigators can save time by reviewing essential bits of information in just a few moments. By quick downloading selective information, instant filtering and quick search functionality examiners obtain essential information in a matter of minutes.

Reporting and Exporting

A wide range of HTML reports are available. HTML reports can be easily printed or viewed in any Web browser. In addition, data can be exported into an Excel-compatible XLSX file for further processing and analysis.

More informaton at www.elcomsoft.com/emfb.html

ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

YOUR BENEFITS

All in one

A single purchase delivers all ElcomSoft products in their respective top-of-the-line editions that allow recovering passwords and decrypting encrypted data.

Industry-certified technologies

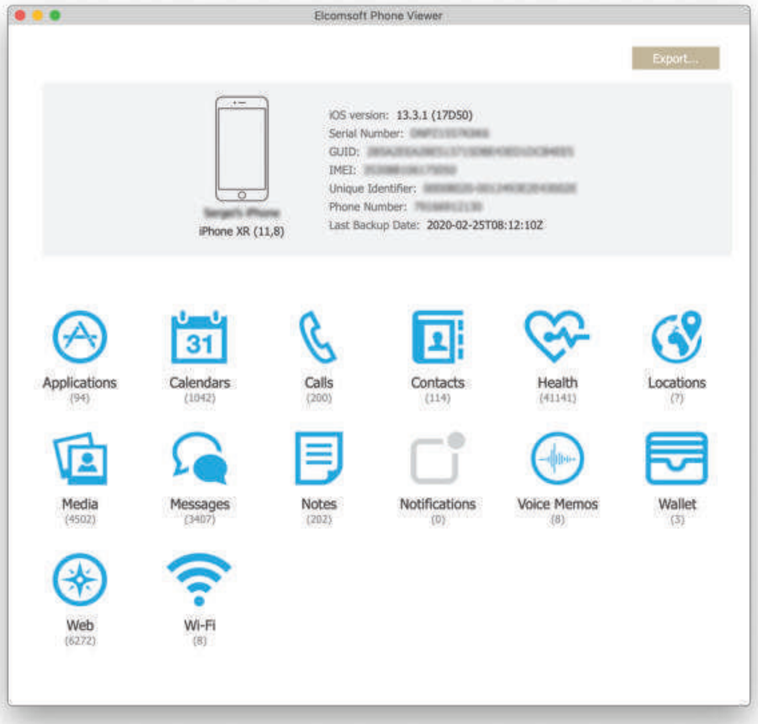
Elcomsoft is Microsoft Silver Certified Partner, Intel Software Partner and member of NVIDIA CUDA/GPU Computing Registered Developer Program.

Research and development

The password recovery suite features the latest and most advanced cryptanalysis algorithms developed by ElcomSoft research department. We continue to deliver cutting-edge technologies in password recovery and data decryption.

Patented technologie

ElcomSoft pioneered many software innovations that have made it easier to access protected data. The GPU acceleration, which is patented (U.S. Pat. No. 7,787,629 and 7,929,707) and unique to ElcomSoft products, making password recovery up to 250 times faster compared to traditional methods, is just one of the innovations.



Elcomsoft Phone Viewer

[redacted]
iPhone XR (11,8)

iOS version: 13.3.1 (17D50)
Serial Number: [redacted]
GUID: [redacted]
IMEI: [redacted]
Unique Identifier: [redacted]
Phone Number: [redacted]
Last Backup Date: 2020-02-25T08:12:10Z

Education and consulting

We offer comprehensive three-to-five-day courses offering hands-on experience in unlocking and extracting evidence from mobile devices, accessing password-protected and encrypted computer data.

More informaton at www.elcomsoft.com/emfb.html

ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

www.elcomsoft.com
blog.elcomsoft.com
sales@elcomsoft.com

CYACOMB FORENSICS

↗ www.cyacomb.com

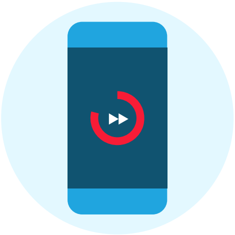
Digital triage for mobile devices

Vital evolution of our game-changing rapid triage tools in a world where 95% of people access the internet through their mobile phones

↗ BOOK 21 DAY TRIAL

↗ BOOK DEMO

Mobile Device Triage, available as a feature of Cyacomb Examiner Plus, scans Android and iOS mobile devices for known illegal content in a matter of seconds.



Conducting rapid Mobile Device Triage using Contraband Scan, known illegal content will be found on suspect devices up to 100 times faster than traditional file hash technology. With our simple-to-use interface, traffic light results that can be reviewed on the screen, your time to first evidence while on-scene can be reduced from hours to minutes.

With Mobile Device Triage feature in Cyacomb Examiner Plus, you will get:

- ✓ Contraband Filter scan for mobile devices, which has already helped our users catch offenders
- ✓ iOS and Android Contraband Filter scans
- ✓ Up to 100x faster scans
- ✓ The same super simple-to-use, intuitive user interface
- ✓ Simultaneous Contraband Filter scans on multiple devices (mobile devices and hard drives)
- ✓ Accurate results in seconds to support your decision to seize
- ✓ Previews and report creation, with optional evidential thumbnails

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR SALES TEAM
EMEA/APAC +44 131 608 0195 | US +1 202 660 1869 | sales@cyacomb.com

CYACOMB FORENSICS

↗ www.cyacomb.com

Cyacomb Contraband Scan is also available on DATAPILOT 10 devices.

↗ BOOK DEMO

Purpose built handheld computers that are rugged and portable, the combined tools help law enforcement officers to make informed decisions on scene.

Conducting rapid Mobile Device Triage using Contraband Scan, known illegal content will be found on suspect devices up to 100 times faster than traditional file hash technology.

With our simple-to-use interface, traffic light results that can be reviewed on the screen, your time to first evidence while on-scene can be reduced from hours to minutes.

1. Arrive on scene
2. Scan devices
3. Fast results

Additional benefits of DATAPILOT DP10:

- ✓ Data slice capability, enabling collection of contacts, calls, messages, images, files and app data
- ✓ Mirror evidence directly from the target device in real time
- ✓ Create evidence with built-in cameras
- ✓ Powers target devices
- ✓ Optical character recognition search
- ✓ Search and reporting features
- ✓ Works on IOS and Android devices

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR SALES TEAM
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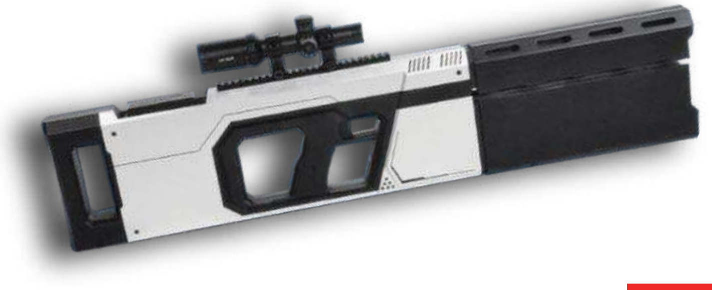
IoT Forensic Solution

Anti-Drone Gear

Solution to secure the key airspace, effectively defend low altitude drone flight.



Product Applying

Government

Prison

Military Zone

Airport

Important Meeting

Important Infrastructure

Notes:
- Sale for export only.
- Sale in the course of import for subsequent re-export.
- Any sale will be conducted only incompliance with the applicable.

Introduction

Main System

Highly integrated radio frequency with power supply, built-in remote frequency suppressing link, ensure effective work of device

Customized Orientation Multi-frequency Antenna

Customized antenna, matching with the radio frequency circuit to get the best result

Battery

Two types of smart drone battery with built-in balanced circuit, include functions such as protocol communication, battery life detection, battery cycles record, self-discharging protection.

Smart Power Station

Professional smart charging management system, capable of automated charge and battery management for 4 batteries, unattended operation.

Transportation

Modularity design, device can be disassembled quickly.

Features

- Fast and efficient processing
- Counter all remote control frequency band, support over 90% drone models
- Forcing drone return or landing without any damage
- Lighter and easy to carry, less than 5Kg, one hand operation
- Internal shielding, no radiation hazards to human
- Full modular design, easy to use and maintenance

Specification

Product Name	Anti-Drone Gear
Suppressing Band	2.4GHz/5.8GHz
Total Power	10W
Suppressing Distance	≥ 700 m
Sighting Zoom	4.5 ~ 18 RF system Orientation H
Weight	≤ 5Kg
Battery A (Optional)	Capability: 4500MAH Power: 129.96WH Voltage: 22.2V Battery type: LiPo 6S
Battery B (Optional)	Capability: 5700MAH Power: 99.90WH Voltage: 22.2V Battery type: LiPo 6S
Battery Capacity	100WH/130WH
Battery Life	≥ 60 min
Battery Charging	Clip type design, support battery quick charging, charging time ≤ 30 sec.
Max charging power	100W
Max charging currency (for single battery)	3.83A
Charging System	Supports smart charging management, unattended operation.
Working Temperature	-20°C ~ +60°C
Dimension	952 x 200 x 60 mm
Case	Brand: Pelican IP67 Dimension: 874 x 722 x 463 mm

*Specifications are subject to change without notice.

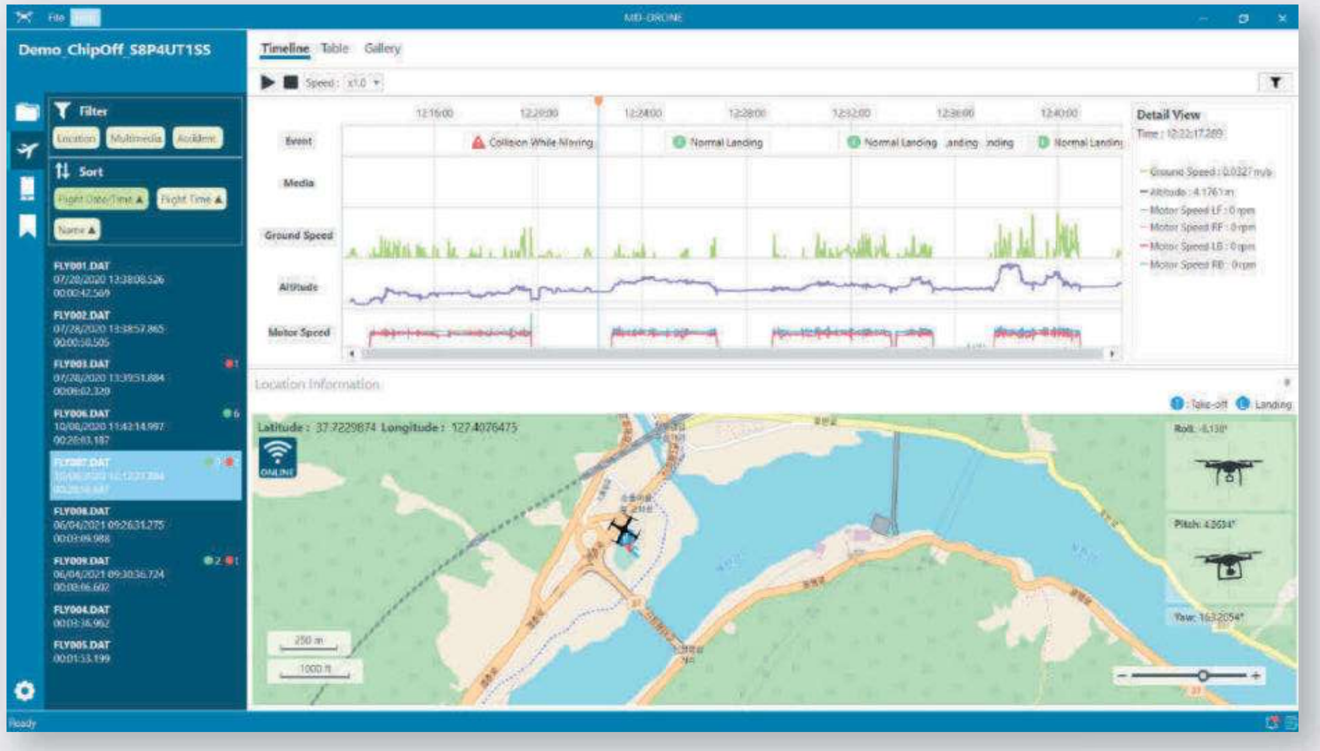
Data Expert

bsi ISO/IEC 27001 Information Security Management CERTIFIED

MD-DRONE

Drone(UAVs) Data Extraction and AI-based Flight data Analysis Tool

MD-DRONE is a drone forensic software for extracting and analyzing data from various data sources of UAV/Drone from of global manufacturers such as DJI, Parrot etc. Timeline-based flight parameter values(speed, altitude, value of each motor, etc.) can be viewed in graphical & tabular formats. Moreover, ML/AI-based drone accident or abnormal landing analysis feature is available.



Product Specification

Various Extraction methods for wide range of Drone

- Extraction through the drone USB connection
- Extraction through the network connection (WIFI)
- Extraction from SD card
- Chip-off extraction (Requires chip socket + chip reader)
- Drone App data can be extracted with MD-NEXT and exported with MD-RED
- Provides an extraction guide for each method

Timeline-based Integrated Flight data Analysis

- Timeline-based flight parameter values (speed, altitude, value of each motor, etc.) can be viewed in graphical & tabular formats
- Selective evidence data according to the flight time
- Check the drone's position and posture (Yaw, Roll, Pitch) information on the timeline
- Integrated view of flight path history and media data
- Playback and reconstruct flight history
- Preview of the selected media file in the timeline chart

Deep analysis of flight data by AI and machine learning

- Learning of accidental or abnormal flight log data
- Find out the collision, battery exhaustion, normal landing, and abnormal flight position/time

Detail flight data view and selection

- Check the detailed values of the flight log
- Classify meaningful flight log values such as altitude, ground speed, battery, and signal strength and display in different colors on the map
- Tabular view of GPS-based drone track, latitude, longitude and movement history
- Check the drone position value by time
- Sorting flight data in time order
- Intuitive drone movement check through table view
- Detailed values of the flight log in the table and visualization on the map

Multimedia Gallery

- Check the multimedia (video, photo) file with the corresponding time information in the flight record
- Check the Information such as the path, creation date, and size of the saved multimedia file
- Intuitive analysis through the preview
- Filter & Sorting of the flight logs by multimedia file, Location, Date & Time, Log file name etc, by path, creation date, and size

Bookmark

- Supports bookmark feature for flight time range, image and video

Notification Alarm

- Displays and saves important notifications during extraction and analysis while using MD-DRONE

Reporting

- Supports exporting of reports in PDF format based on the bookmarked content
- Supports exporting of each manufacturer's flight log glossary in csv format

*Contact us for more detailed product spec information.

System Requirements

OS	Windows 8/10 (64 bit)
CPU	i5 or above
RAM	8GB or above
HDD	1TB or above
Display	1200 x 700 or above
USB	2 or more USB 2.0/3.0/3.1 ports

Microsoft .Net Framework 4.6.2

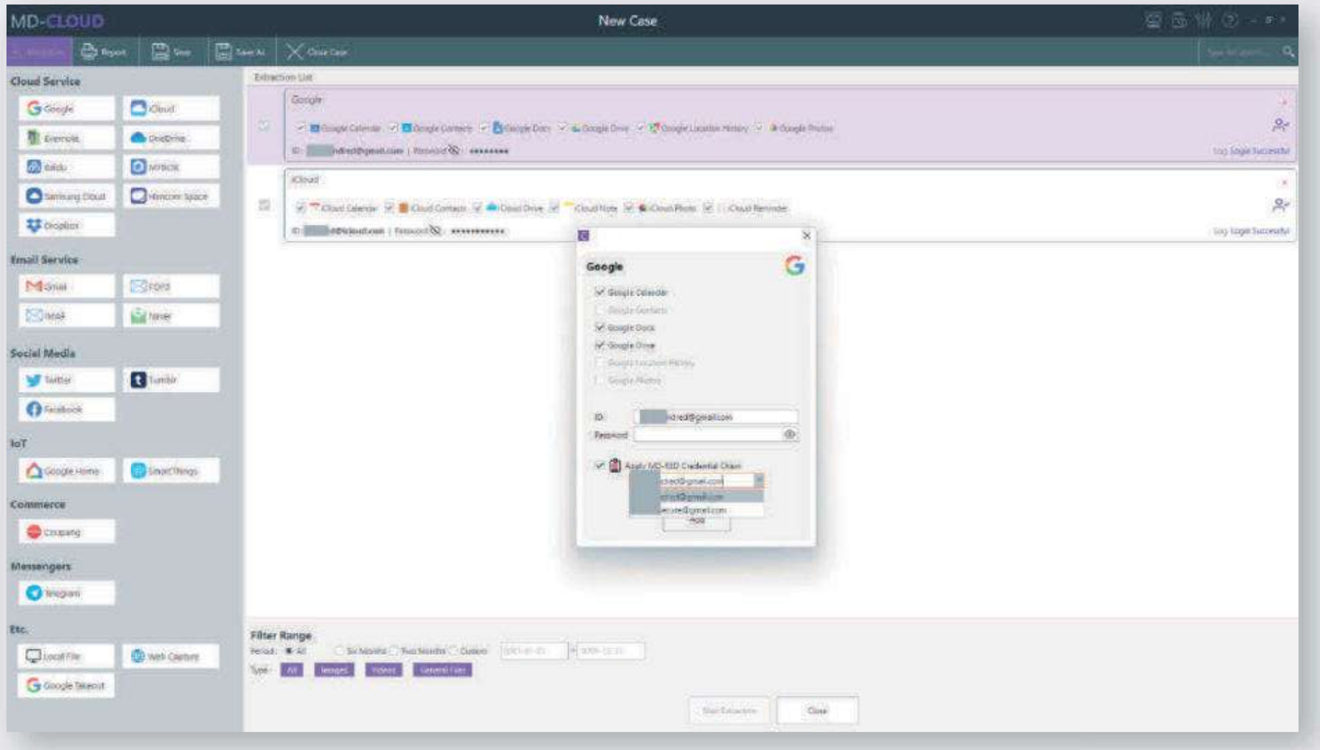
Product Components

MD-DRONE Installation Software (USB/Online)
USB Dongle Key 1EA
Warranty 1 Year

MD-CLOUD

Mobile Forensic Software for Cloud data Extraction and Analysis

MD-CLOUD is the most intuitive digital forensic software tool that extracts and analyzes the data from the cloud data storage. It supports broad range of cloud services such as Google, iCloud, Samsung Cloud and etc..



System Requirements

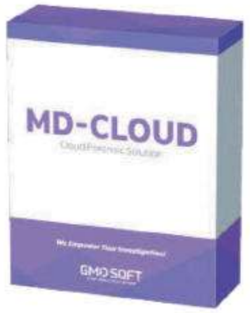
OS	Windows 8/10/11 (64 bit)
CPU	i5 or above
RAM	4GB or above
Display	1024x768 or above
USB	2 or more USB 2.0/3.0/3.1 ports
Network	Internet connection via wired or wireless LAN

Product Components

MD-CLOUD Installation Software (USB/Online)

USB Dongle Key 1EA

Warranty 1 Year



Product Specification

Various Cloud Services

- Google, iCloud, IMAP/POP3, Evernote, One Drive, Dropbox, Twitter, Tumblr and Instagram, Telegram, Facebook, Google Takeout

Acquisition of IoT Cloud

- IoT data extraction from AI speaker and Smart home kit (Google Home, Samsung SmartThings)
- Official and unofficial APIs for authentication

Various Authentication Methods

- ID/PASSWORD authentication
- Captcha security authentication
- 2-factor security authentication
- Authentication using credential information

Web Capture

- Supports capturing data from web pages without APIs provided

Monitoring the Progress of Data Acquisition

- Supports real-time monitoring progress during data acquisition

Interwork with MD-RED

- Supports extra data acquisition from cloud using ID/PASSWORD
- Supports reuse of session token, ID/PASSWORD information left in analyzed data by MD-RED

Quick Search using Extracted ‘Tag’ Information

- Supports extraction of 'Tag' information from cloud data
- Supports easy and fast search with pre-categorized 'Tag'

Various Built-In Viewers

- Image, video, document, web page and email can be previewed

Assurance of Evidence Data Integrity

- Supports 10 hash algorithms such as MD5 and SHA256

Reporting

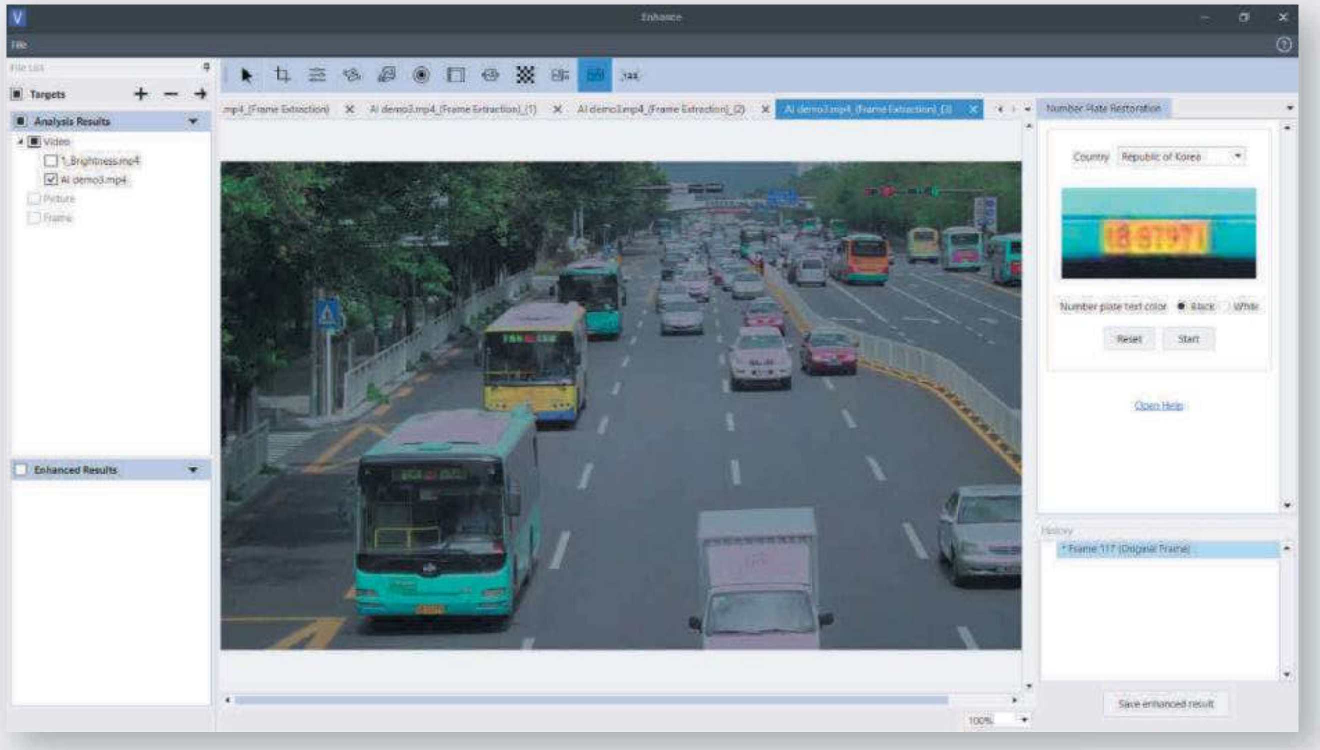
- Report file format: PDF
- Supports export of original cloud data files

*Contact us for more detailed product spec information.

MD-VIDEO AI

Video Forensic Software for Recovery, AI-based Image Enhancement & Analysis

MD-VIDEO is a video forensic software that supports recovery, and analysis of video files. Deleted and damaged video frames can be recovered, and enhancement feature supports to improve the quality of the target frame. Moreover, AI-based video analysis feature enables time-efficient investigation. More than 80 kinds of objects can be detected & recognized. The efficient filtering & sorting options help investigators to easily find the object.



System Requirements

OS	Windows 10(64bit) or above
CPU	i7 or above
GPU	1 or more multi-core GPU card for acceleration
RAM	8GB or above
HDD	8TB or above
USB	2 or more USB 2.0/3.0/3.1 ports
Resolution	1024 x 640 or above

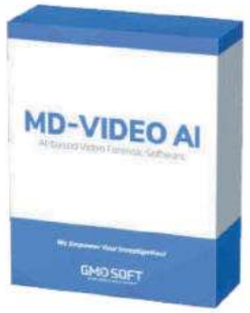
Product Components

MD-VIDEO AI Installation Software (USB/Online)

USB Dongle Key 1EA

Warranty 1 Year

Product Specification



Video/Audio Recovery

- Auto-scanning of partition
- Deleted and damaged file recovery
- Supports extraction from various data sources
- Supports various video filesystems
  - FAT12, FAT16, FAT32, TAT16, TAT32, NxFS
  - NTFS, exFAT, HFS+, EXT, EXT2, EXT3, EXT4, F2FS, VDFS, APFS
  - YAFFS, EFS2, TFS4
  - HIKVISION, DHFS4.1, WFS0.4, TANGO, RSFS, WOW, XFS, WEBGATE, STL
- Signature-based file recovery (DAV, MP4, MOV, MKV, MPEG, SSF, AVI, ZAV, PS)
- Frame extraction and reassemble from the damaged video file
- Video frame recovery with the codec information of local codec file or local video file
- Partial recovery for the specific time range of OCR time or time data
- Recovery of time from the meta-data file
- Audio file recovery for SILK format

Video Analysis

- Object detection
  - AI-based object detection
  - Detected objects categorization
  - Deduplication of same objects detected
  - Color and Area Filter for objects
  - Time Filter (Provides time offset setting for viewing the detected objects in the desired time zone)
  - Object Filter (Provides filter for the user to view only relevant objects)
- Video summarization
- Video display quality enhancement
- Restoration of vehicle numberplate

Image Enhancement

- Image editing and adjustment
  - Crop, zoom, rotate/reverse, filter, color/brightness/contrast, super resolution, motion deblur, perspective transform, lens distortion correction, deinterlacing, focus correction, image overlay

File Exportation and Reporting

- Export original and converted file
- Format converter
  - JPG and PNG format
  - AVI and MP4 format
  - MP3 and AMR format
- Summarized scene is saved as playable video file
- Assurance of evidence data integrity
- Supports report formats (PDF, Excel)

Hardware Acceleration

- Multi-core CPU/GPU support for video analysis acceleration

*Contact us for more detailed product spec information.

CipherTrace Armada™

Cryptocurrency Risk Controls for Banks

In 2021, bank examiners and FinCEN will focus on virtual currency exposure when assessing the effectiveness of bank AML programs. Financial institutions must be able to identify institutional and peer-to-peer virtual currency-related transactions and understand how their institutions interact with emerging virtual asset service providers (VASPs).

Virtual currency money laundering risk mitigation requires specialized tools to identify and report potentially suspicious activity.

> **“...banks must be thinking about their crypto exposure as well...If banks are not thinking about these issues, it will be apparent when examiners visit. “**
>
> -FinCEN Director Blanco, September 2020

CipherTrace Armada™ Provides Critical Visibility for Banks to Reduce Risks and:

- Monitor payments to and from over 1,000 VASPs
- Onboard and manage VASP customer risks
- Detect more than 3,700 digital asset customers
- Adopt a risk-based approach to virtual currency AML
- Implement policies based on VASP KYC deficiencies and money laundering risk

CipherTrace cryptocurrency intelligence delivers the highest quality competitive advantage on two critical dimensions—superior data and advanced analytics.

CipherTrace anti-money laundering analysts collect and collate hundreds of millions of blockchain data points to produce the most extensive attribution data on over 800 cryptocurrencies. This attribution data is continuously processed by advanced analytics to de-anonymize legitimate, higher-risk and illicit businesses. CipherTrace blockchain analytics then accurately traces crypto flowing through exchanges, bitcoin ATMs, peer-to-peer services, money laundering services, dark markets, and ransomware.

$2 Billion **in crypto-related transactions move annually on the payment networks of a typical top 10 US bank.**

Monitor for Crypto Payments with Traditional Transaction Tools

CipherTrace Armada is tightly integrated with leading AML tools including Nice Actimize, Caseware Alessa, BAE, Worldsys and Featurespace to identify VASP payments without installing additional software. CipherTrace cryptocurrency intelligence feeds can be in rapidly added to most modern transaction monitoring deployments. With thousands of digital asset companies emerging, financial institutions cannot afford not to have the most comprehensive cryptocurrency intelligence available.

Grading VASP KYC Processes

By analyzing and probing the Know Your Customer (KYC) processes of over 850 VASPs in more than 80 countries, CipherTrace identifies VASPs with demonstrably deficient KYC processes that could be exploited by money launderers, criminals, and extremists. The CipherTrace Attribution Team tests all VASPs using a standardized criterion and rates them as weak, porous, or strong based on how easy it would be to launder money through the VASP after opening an account.

66% **of the Top 800 VASPs Have Demonstrably Weak KYC**

Many digital asset entities obscure the nature of their business to avoid de-risking by banks. Unregistered MSBs and P2P schemes selling crypto for fiat using bank accounts frequently falsify Merchant Category Codes and provide incorrect industry details, making them challenging to detect. Armada data feeds accurately match payments to higher risk VASPs and peer-to-peer MSBs using legal identifiers, aliases, and bank account numbers to produce the highest catch rate.

CipherTrace Inspector™

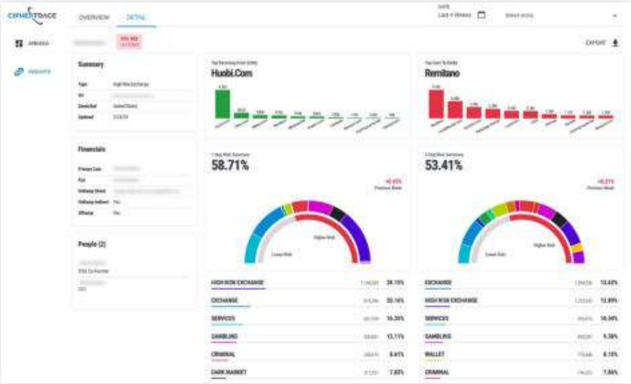
CipherTrace enables financial investigators to trace cryptocurrency transactions visually to:

- Identify sources of funds
- Investigate payment fraud
- Monitor addresses to trace destinations of funds
- Perform due diligence on digital asset customers

VASP Risk Monitoring

CipherTrace Armada™ visually displays VASP risk profiles based on KYC effectiveness, risky transactions, illicit activity and enables enhanced due diligence on VASPs.

- Profile VASP KYC and money laundering risks
- Audit and monitor transaction risk exposure
- Perform enhanced due diligence on digital asset businesses
- Make risk-based decision based on how well VASPs know their own customers



Armada VASP Risk Insights creates risk profiles for each VASP and monitors for interactions with high risk entities, such as dark markets and criminal actors.

Crypto Risk Advisories and Darknet Crypto Exposure Feeds

CipherTrace provides customized payments fraud intelligence on bad actors using cryptocurrencies to sell stolen account credentials, prepaid cards, credit card dumps, ATM skimmers, and phishing kits. Stay up to date with actionable advisories on emerging crypto crime, cryptocurrency-related malware and ransomware threats to your financial institution.

8/10 **top US banks unknowingly harbor illicit crypto MSBs.**

About CipherTrace | CipherTrace develops cryptocurrency anti-money laundering (AML)/counter-terrorist financing (CTF), blockchain forensics, crypto threat intel and regulatory solutions. Leading exchanges, banks, auditors, regulators and digital asset businesses use CipherTrace to comply with regulatory requirements, investigate financial crimes, and foster trust in the crypto economy. Founded in 2015 by experienced Silicon Valley entrepreneurs with deep expertise in cybersecurity, eCrime, payments, banking, encryption, and virtual currencies, CipherTrace is backed by top venture capital investors and by the US Department of Homeland Security.
For more information, visit: www.ciphertrace.com

CipherTrace Inspector

Financial Investigations and Blockchain Forensics

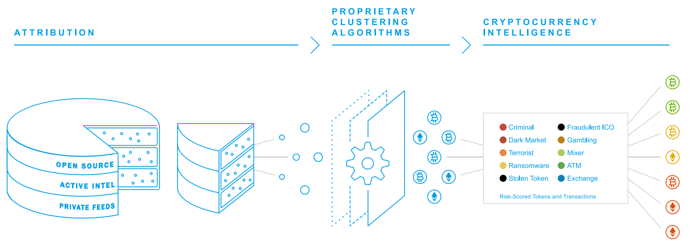
Cryptocurrency De-anonymization Enables Successful Investigations and Prosecutions

CipherTrace provides a suite of powerful and easy-to-use de-anonymization tools for law enforcement. Investigators use this integrated platform to obtain solid evidence on individuals who use Bitcoin to launder money, finance terrorism, or carry out drug dealing, extortion and other crimes. The intuitive CipherTrace visual environment allows even non-technical agents and analysts to easily identify and trace criminals who attempt to use Bitcoin on the internet to conceal their illicit activities. The platform also supports de-anonymization for more than 800 cryptocurrencies — including Bitcoin Cash, Ethereum and Litecoin. This de-anonymization capability spans more than 87% of global virtual assets.

Superior Attribution and More Accurate Threat Assessment

CipherTrace identifies risky attributes of crypto addresses, wallets, and related businesses participating in Bitcoin transactions—such as mixers, ransomware, and dark markets. This attribution requires applying sophisticated data science and big data analytics to blockchain-based transactions.

CipherTrace curates an enormous repository of attribution data, adding on average 1.5 million new data points each week. This data is derived from extensive open and closed-source intelligence gathering, which includes active participation in the crypto economy by CipherTrace researchers.



Proprietary clustering algorithms de-anonymizes crypto businesses to risk rate transactions.

High-Quality Attribution

Profile types and attribution collection methods include:

1. CipherTrace Crypto Asset Threats Labs
2. Active profiling of many blockchain ecosystem entities
3. Managing crypto money pots
4. Dark market sites and deep web sites
6. Monitoring investment scams and fraudulent ICOs
7. Tracing stolen cryptocurrencies
9. Confirmed attribution directly from CipherTrace trusted users
10. Anti-Phishing Working Group (APWG) eCrime Exchange

Advanced Algorithms Enable High-Quality Attribution

The CipherTrace high-quality attribution information platform applies advanced big data analytics—which leverages proprietary clustering algorithms—to cluster data points within the expansive attribution repository. The result is a broad, cataloged, high-resolution view of the cryptocurrency transaction landscape.

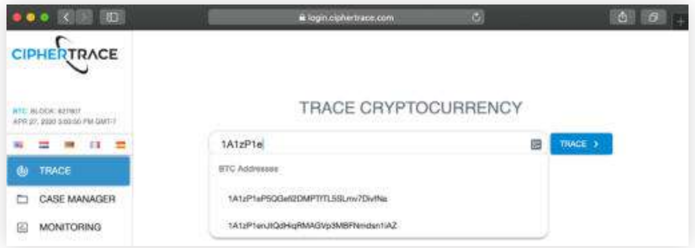
This CipherTrace high-quality attribution information platform can rapidly aggregate and correlate a variety of indicators, and then provide users with risk assessments and actionable intelligence. In addition, these extensive attribution capabilities help investigators gather implicating evidence more quickly.

Risk-Scoring of Transactions and Entities Within the Global Blockchain Ecosystem

CipherTrace profiles hundreds of global exchanges, ATMs, mixers, money laundering systems, gambling services, and known criminal addresses. CipherTrace then assigns risk levels to transactions, wallets and entities based on known associations with suspicious addresses and nefarious geographic locations.

Powerful and Easy-to-Use Blockchain Search Engine

The CipherTrace blockchain search engine allows a user to simply enter a cryptocurrency address or transaction ID into an intuitive search bar that can auto-complete long addresses.



1A1zP1e

BTC Addresses

1A1zP1eP5QGefi2DMPTfTL5SLmv7DivfNa

1A1zP1enJtQdHiqRMAGVp3MBFNmdsn1iAZ

The CipherTrace Crypto Search Engine makes it fast and easy to investigate Bitcoin transaction IDs and addresses

Investigate Potential Risks More Deeply

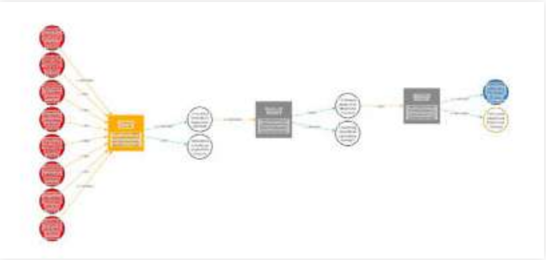
CipherTrace's interactive user interface allows non-technical users to quickly perform deeper investigation and visualize cryptocurrency transaction flows. This capability enables investigators to follow virtual money trails without having to become cryptocurrency or blockchain experts.

CipherTrace helps law enforcement follow digital money trails for crimes such as:

- Data extortion
- Money laundering
- Terrorist financing
- Cyber attacks
- Human Trafficking
- Weapon sales
- Drug transactions
- Ransomware schemes

Interact with Massive Transaction Database to See Relationships

CipherTrace's High-quality attribution information allows users to understand interactions with a powerful graph database that traces the flow of funds over time and through the blockchain ecosystem. A graph database visually displays data with relationships to an anchor transaction such as a specific crypto address or wallet.



The CipherTrace platform's intuitive graphical interface makes it easy for both technical and non-technical users to access state-of-the-art investigation tools and analysis capabilities.

The platform further enables users to step backward and forward through the transaction history to discover if and where the funds have become tainted.

Integrated Case Management

A Case Manager gives investigators a convenient way to save research, replay searches, export investigation reports, and collaborate with other agents. This feature also allows agents to perform bulk uploads of large quantities of cryptocurrency addresses for investigation.

About CipherTrace | CipherTrace develops cryptocurrency anti-money laundering (AML)/counter-terrorist financing (CTF), blockchain forensics, crypto threat intel and regulatory solutions. Leading exchanges, banks, auditors, regulators and digital asset businesses use CipherTrace to comply with regulatory requirements, investigate financial crimes, and foster trust in the crypto economy. Founded in 2015 by experienced Silicon Valley entrepreneurs with deep expertise in cybersecurity, eCrime, payments, banking, encryption, and virtual currencies, CipherTrace is backed by top venture capital investors and by the US Department of Homeland Security.
For more information, visit: www.ciphertrace.com

CipherTrace Sentry

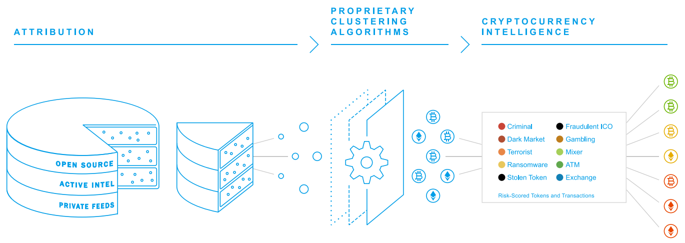
Cryptocurrency Anti-Money Laundering

Grow Revenue by Handling More Crypto with Less Risk

The CipherTrace Cryptocurrency Anti-Money Laundering solution, Crypto AML, enables exchanges to grow revenue by safely engaging in Bitcoin and Ethereum transactions while maintaining a low risk profile. The platform's attribution information and high-speed API automates risk scoring of transactions. It helps cryptocurrency businesses easily and economically comply with AML regulations around the globe. Investors and hedge funds use Crypto AML to verify the source of funds. For regulators and compliance officers, the solution provides an easy-to-use graphic interface that allows non-technical users to search addresses, receive risk scores and produce reports on risky transactions.

Attribution Information Provides an Accurate View of Risk

The CipherTrace platform gives a broad, high-resolution view of the cryptocurrency transaction landscape, and uses this to provide actionable intelligence for AML investigation and compliance. It integrates both open and closed-source intelligence—and leverages proprietary clustering algorithms—to rapidly aggregate and correlate a variety of indicators, and then provide users with actionable attribution. This capability helps compliance officers gather evidence quickly to respond and report suspicious transactions.



Proprietary clustering algorithms de-anonymizes crypto businesses to risk rate transactions.

CipherTrace analysts add over 1.5 million attribution each week. The platform integrates attribution data from active intelligence gathering, private intelligence sources and open-source intelligence (OSINT). This data is collected from:

- Public sources
- Honeypots and other active capture sources
- Trusted communities, including law enforcement and regulators
- CipherTrace Crypto Recovery Network
- APWG eCrime Exchange (eCX) — a data feed comprising 1,500+ sources

Proprietary clustering algorithms, advanced statistical analysis and clustering techniques distill meaning from this massive data lake, resulting in a high-resolution view of the cryptocurrency risk landscape. This view spans everything from dark markets to hundreds of global exchanges, delivering actionable intelligence for AML investigation and compliance monitoring.

Crypto Anti-Money Laundering for Financial Services

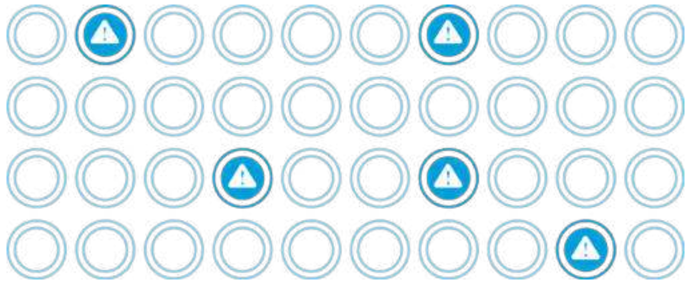
- Cryptocurrency exchanges
- Initial Coin Offerings (ICOs)
- Cryptocurrency hedge funds
- Banks, brokerages and credit unions
- Money Service Businesses
- Regulators and auditors
- Law enforcement and financial investigators

Algorithms Calculate Risks Levels

CipherTrace algorithms calculate risk levels based on associating suspicious addresses and wallets. CipherTrace also profiles hundreds of global exchanges, ATMs, mixers, money laundering systems, gambling services and known criminal addresses to score transactions and asses risk. It then assigns risk levels to transactions based on activity related to suspicious addresses and wallets.

High Speed APIs Automate Compliance Tasks

CipherTrace has developed a simple-yet-powerful Application Programming Interface (API), which delivers real-time assessments of cryptocurrency transaction risk. This interface can be rapidly integrated with your existing compliance infrastructure to deliver real-time assessments of cryptocurrency transaction risk. The high-performance API quickly returns actionable risk scores for each transaction. A crypto business or financial institution, can then make decisions on whether to investigate a customer for violations of its AML policy or local regulations. The API can automatically produce a deeper level of analysis to provide the level of detail required by regulators, including FinCEN, for Suspicious Activity Reports (SARs).

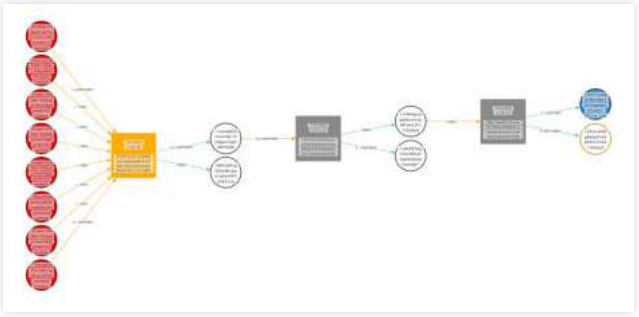


Investigate Potential Risks More Deeply

CipherTrace's interactive user interface allows non-technical users to perform deeper investigation and visually trace cryptocurrency addresses and customers. For compliance officers, this capability ensures customers do not put the organization in danger of AML non-compliance or of handling stolen funds.

Visual Investigation Tools

CipherTrace high-quality attribution information allows users to take advantage of live interactions with a powerful graph database to trace the flow of funds over time and through the cryptocurrency ecosystem. The interface enables users to step backward and forward through transaction histories to discover and document risky transactions. This is also used to vet new customers and their sources of funds.

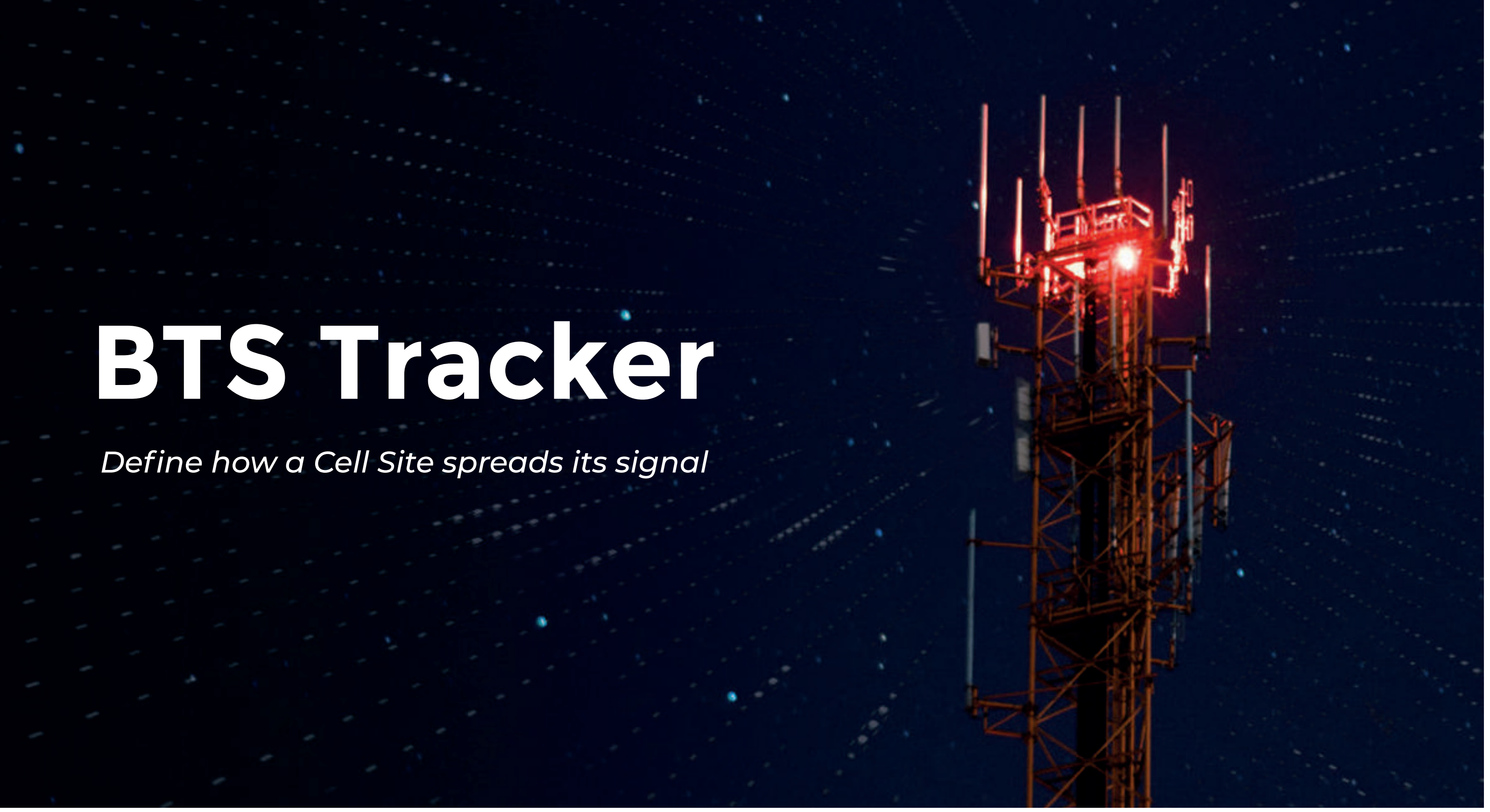


Interactive Graph Database helps investigators to identify and visualize related transactions.

Benefits

- Reduce exposure to legal liability
- Comply with Crypto AML regulations
- Automate transaction risk scoring and reporting
- Create Suspicious Activity Reports (SARs)
- Trace and document risky crypto transactions
- Detect transactions with illegal sources of funds
- Prevent stolen cryptocurrency from being traded through your services

About CipherTrace | CipherTrace develops cryptocurrency anti-money laundering (AML)/counter-terrorist financing (CTF), blockchain forensics, crypto threat intel and regulatory solutions. Leading exchanges, banks, auditors, regulators and digital asset businesses use CipherTrace to comply with regulatory requirements, investigate financial crimes, and foster trust in the crypto economy. Founded in 2015 by experienced Silicon Valley entrepreneurs with deep expertise in cybersecurity, eCrime, payments, banking, encryption, and virtual currencies, CipherTrace is backed by top venture capital investors and by the US Department of Homeland Security.
For more information, visit: www.ciphertrace.com



BTS Tracker

Define how a Cell Site spreads its signal

Cell Site Signal Examination And Mapping

Base Transceiver Stations Coverage

Cell signals surround us, but the digital environment they create is always subject to change.

A cell tower signal set to one direction is often warped, reflected, reversed.

This is a risk when tracing a suspect’s alibi. A solid court case needs hard facts and certainty.

SecurCube BTS Tracker Technology

It surveys, absorbs, and charts where and how every cell tower connects to a smartphone.

The software organizes and maps your cell site survey and investigation. It also checks daily signal changes and creates a statistical analysis of the real coverage scenario.

Ranges, power, and location. The reality of BTS networks. Bring your evidence to light.

Complete digital investigations

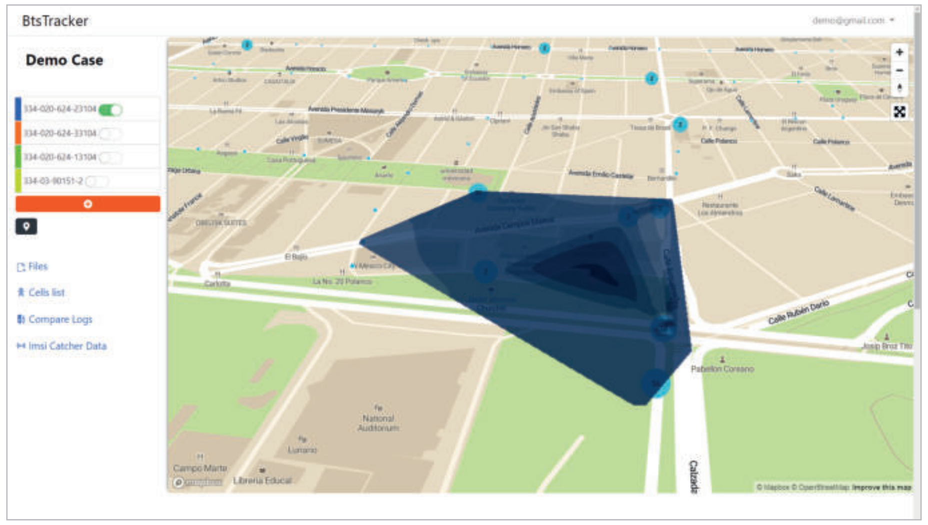
Correlate real BTS cell site coverage analysis with your CDR phone record analytics.

Locate a mobile device with more accuracy where the signal is really being spread making your case map real.

From a realistic outlook – **not a theoretical one** – locate digital evidence and validate your criminal case.

Save the historical data of these scans and make them all available to your team using SecurCube Cell Service.

SecurCube®



Smartphones and Cell Towers - They go hand in hand

- Phone records investigation requires the knowledge of both: a deep understanding of this dual environment
- Knowing where a cell signal covers an area may be the key between a successful case or a lost opportunity
- Only using phone records data is not enough. You need to go there and capture reality
- No more untruthful assumptions. Analyze what the signal coverage really is

Complete Your knowledge on multiple interconnected levels:

- Extract cell towers of interest from the events in the CDR phone records with PhoneLog
- Define all historical location, coverage and accessory information with Cell Service
- Survey and understand the cell towers real signal coverage with SecurCube BTS Tracker

TRACE YOUR EVIDENCE AND DIGITAL MOVEMENTS ON AN ANIMATED 3D MAP

YOUR 360° STRONG HOLD ON DIGITAL INVESTIGATIONS

SecurCube® knows mobile communication: generate strong, validated, and complete digital forensics investigations.

Call Detail Records evidence is enhanced by a deep understanding of how BTS cell networks work.
They are one and the same. With SecurCube you can maximize both.

For over a decade our team has created the tools. Learn how we can work for you. Our research, development and technology is at the forefront in cell forensics that will make you discover more.

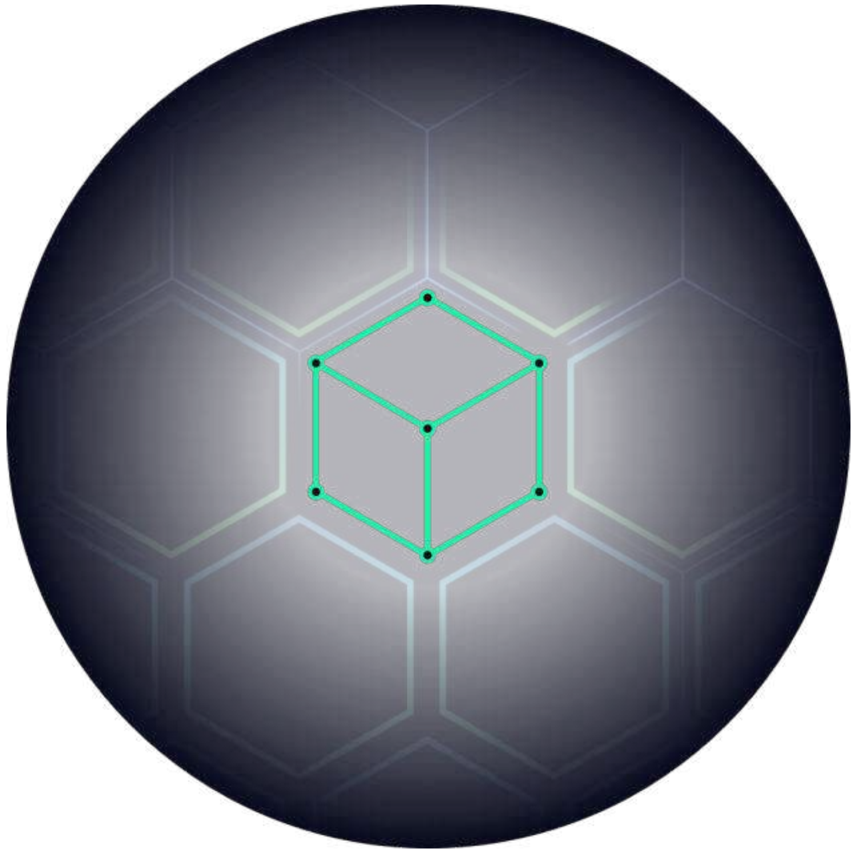
Complex mobile network data become valuable, clear and a source of evidence and stronger justice.

JOIN US! WE LOOK FORWARD TO SHARING OUR TECHNOLOGY WITH YOU.

✉ info@securcube.net   www.securcube.net   ☎ +39 345 574 4134

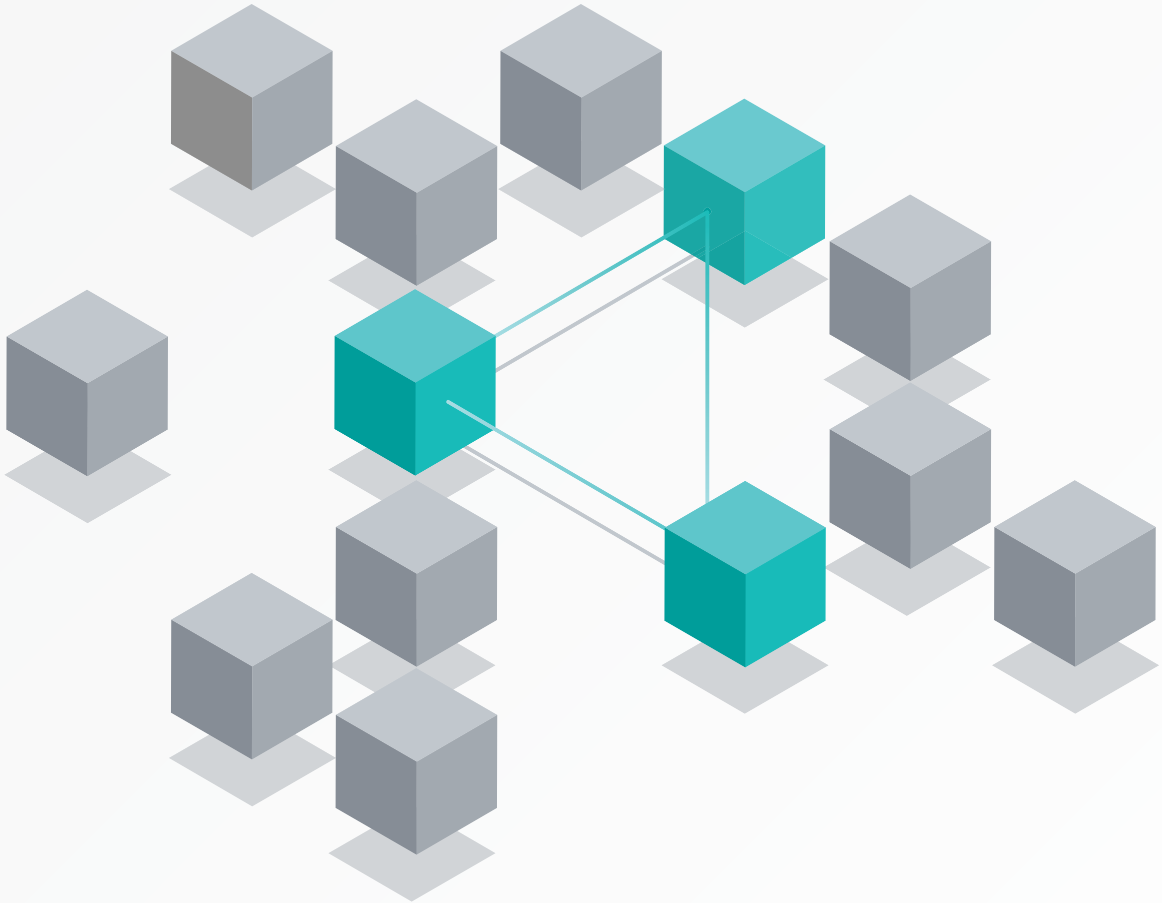
SecurCube®

Cyber Security



IBM Security ReaQta

AI-powered, automated endpoint security



IBM Security ReaQta offers a unique, forward-thinking approach to endpoint security.

The solution uses exceptional levels of intelligent automation, taking advantage of AI and machine learning, to help detect and remediate sophisticated known and unknown threats in near real-time. With deep visibility across endpoints, the solution combines expected features, such as MITRE ATT&CK mapping and attack visualizations, with dual-engine AI and automation to propel endpoint security into a zero trust world.

Why ReaQta?

1

Continuously learns as AI detects and responds autonomously in near real-time to new and unknown threats

2

Helps secure isolated, air-gapped infrastructures, as well as on-premises and cloud environments

3

Maps threats against the MITRE ATT&CK framework and uses a behavioral tree for easy analysis and visualizations

4

Offers a bidirectional API that integrates with many popular security information and event management (SIEM) and security orchestration, automation and response (SOAR) tools

5

Provides heuristic, signature and behavioral techniques in its multilayered defense

6

Allows users to build custom detection strategies to address compliance or company-specific requirements without the need to reboot the endpoint

7

Simplifies and speeds response through guided or autonomous remediation

8

Offers automated, AI-powered threat detection and threat hunting including telemetry from indicators that can be customized for proprietary detection and granular search

9

Makes remediation available with automated or single-click remote kill

10

Provides deep visibility with NanoOS, a unique hypervisor-based approach that works outside the operating system and is designed to be invisible to attackers and malware

IT ASSET DISPOSITION

Degausser

POWER
ERROR
Digital Media MagWiper
***** Mag Wiper ****
Door Open
Erase Count 0
Total Erasures 24
ADVANCED DESIGN CORP.
CHARGING
ERASE/READY
MagWiper

MagWiper MW-15X Degausser

The world's first 10,000+ Oe high-power degausser with a quick 17-second charge.

Model: DEA-MW15000X

Simultaneous Erasing Capacity

HDD 3.5"HDD: 1 unit | 2.5"HDD: 6 units

Charging time

17 seconds

Magnetic Field Generated

800 kA/m (Approx. 10,000 Oe)

Features

17-second quick charge, the fastest in the industry

The first 10,000+ Oe high-power degausser with a quick 17-second charge which means can erase data with higher efficiency.

World's first degausser using a diagonal magnetization system

The most effective for erasing data from perpendicular magnetic-recording HDDs, improving erasing efficiency by roughly 50% over conventional methods. (Erasing capacity equivalent to 1200 KA/m.)

Magnetic force checking function

The monitor displays the strength of the magnetic field after it is generated. The ability to check the strength of the magnetic field each time improves the reliability of the erasing operation.

Can also use to erase magnetic data stored on tape

Erases cartridge tapes, including open reel, LTO/DAT/DLT/CMT/9940/3592/VHS, as well as floppy disks and other magnetic-recording media in one speedy operation.

MagWiper MW-25X Degausser

Erase 100units of 3.5-inch HDDs about 17 minutes without remove the mounting brackets.

Model: DEA-MW25000X

Simultaneous Erasing Capacity

HDD 3.5"HDD: 2 units | 2.5"HDD: 10 units

Charging time

20 seconds

Magnetic Field Generated

800 kA/m (Approx. 10,000 Oe)

Features

Can Erase data without removing the mounting brackets

Erases magnetic data from two HDDs simultaneously no need to remove the mounting brackets.

World's first degausser using a diagonal magnetization system

The most effective for erasing data from perpendicular magnetic-recording HDDs, improving erasing efficiency by roughly 50% over conventional methods. (Erasing capacity equivalent to 1200 KA/m.)

Magnetic force checking function

The monitor displays the strength of the magnetic field after it is generated. The ability to check the strength of the magnetic field each time improves the reliability of the erasing operation.

Can also use to erase magnetic data stored on tape

Erases cartridge tapes, including open reel, LTO/DAT/DLT/CMT/9940/3592/VHS, as well as floppy disks and other magnetic-recording media in one speedy operation.

Data Expert™

bsi ISO/IEC 27001 Information Security Management CERTIFIED

ADC MagWiper MW-30X Degausser

Large model can simultaneiusly erase up to 51 units of 2.5” HDDs and B4 notebooks without dismantling.

Model: DEA-MW30000X

Simultaneous Erasing Capacity

HDD 3.5”HDD: 14 units | 2.5”HDD: 51 units

Charging time

25 seconds

Magnetic Field Generated

800 kA/m (Approx. 10,000 Oe)

Features

B4 Size

Can erase data from a B4-size laptop intact (100% degaussing)

The large chamber enables erasure of this large number of media simultaneously. You can even erase the data from a B4-size or A4-size notebook PC without removing the HDD.

World's first degausser using a diagonal magnetization system

The most effective for erasing data from perpendicular magnetic-recording HDDs, improving erasing efficiency by roughly 50% over conventional methods. (Erasing capacity equivalent to 1200 KA/m.)

Magnetic force checking function

The monitor displays the strength of the magnetic field after it is generated. The ability to check the strength of the magnetic field each time improves the reliability of the erasing operation.

Can also use to erase magnetic data stored on tape

Erases cartridge tapes, including open reel, LTO/DAT/DLT/CMT/9940/3592/VHS, as well as floppy disks and other magnetic-recording media in one speedy operation.

Facilitates centralized management and control (key entry system)

To enhance safety, this model will not function without insertion of a power key in the front panel. The power key remains in the care of a manager to prevent illicit erasure of data and accidents.

Comes with a special mobile lifter

The special lifter improves operational efficiency by enabling you to move the unit safely from one site to another without the need to load and unload it on a mover each time.

ADC MagWiper NSA Degausser

NSA EPL listed compact, lightweight and efficient instant degausser.

Model: DEA-MW1B

✓ NSA EPL Listed

Simultaneous Erasing Capacity

HDD 3.5”HDD: 1 unit | 2.5”HDD: 8 units

Charging time

15 seconds

Magnetic Field Generated

1,592 KA/m (Approx.20,000 Oe)

Features

Safety
The MagWipers have been tested to validate safe operation with low-level field leakage.

Erase Simple Operation
Only need to insert the target in the chamber, push the “Erase” button, and remove the target.

Malfunction Alarm
If the magnetic flux density drops below a specified value, an alarm LED lights.

Cooling Function
A cooling fan operates as required during the operation.

Door Lock
The chamber door locks on closure to prevent operator hand insertion, or target ejection.

APPROVED Government Standards
Meets PCI DSS, Data Security Standard, NIST Guidelines, NIST SP 800-36, NIST SP 800-88,

Portable
Relatively small and light. Easily transported to various locations for on-site media erasure.

Flux Density Display
A front-panel LCD displays the magnetic flux density used for the data erasure.

Operating Indicator
A flashing light at the chamber door edge visually confirms that a magnetic field is generated.

LCD Display
The LCD shows total number of erasures and magnetic field intensity used for the last erasure.

Use of Trays
Permits preparation of next load during recharge.

Data Expert™

bsi ISO/IEC 27001 Information Security Management CERTIFIED

MagWiper Series

Standard
DEA-MW15000X

Hybrid
DEA-MW25000X

All In One
DEA-MW30000X

NSA EPL Listed
DEA-MW1B

Specification

Model No.	**DEA-MW15000X**	**DEA-MW25000X**	**DEA-MW30000X**	**DEA-MW1B**
NSA EPL Listing	✗	✗	✗	✓
Erasable media	Hard disks, LTO, DDS/DAT, DLT, CMT, 9940, 3592, AIT, FD etc	Hard disks (including thick hard disks), LTO, DDS/DAT, DLT, CMT, 9940, 3592, AIT, FD, VHS etc	B4 notebook PCs (sizes up to B4), hard disks (including thick hard disks), open reel, LTO, DDS/DAT, DLT, CMT, 9940, 3592, AIT, VHS, FD etc	3.5" and 2.5" HDD, LTO, DDS/DAT, AIT, FD, etc.
Hard disk recording formats supported	Perpendicular and In-plane (longitudinal)			
Charging time	17 seconds	20 seconds	25 seconds	15 seconds
Data erasing time	0.1 seconds			
Magnetic field generated	800 kA/m (Approx. 10,000 Oe)			1,592 KA/m (Approx.20,000 Oe)
Power Source	AC100 /115 /200 / 220 / 240V 50/60Hz			
Power consumption (maximum when charging)	100V/10A, 220V/3A	100V/13A, 220V/8A	100V/15A, 220V/8A	115V/14A
Power consumption (standby mode)	100V/0.05A, 220V/0.03A	100V/0.05A, 220V/0.03A	100V/0.07A, 220V/0.04A	115V/1A
External dimensions	264 (W) × 240 (H) × 454 (L) mm	333 (W) × 285 (H) × 625 (L) mm	550 (W) × 463 (H) × 670 (L) mm	333 (W)×285 (H)×630 (D) mm
Erasable area	115 (W) × 70 (H) × 145 (L) mm	131 (W) × 119 (H) × 263 (L) mm	315 (W) × 90 (H) × 364 (L) mm	106 (W)×43 (H)×162 (D) mm
Weight	22.9kg	37.5kg	123kg	46kg
Operating environment	5°–35°C (41°–95°F), humidity 20–80% (condensation-free environment)			
Accessories	HDD rack, AC power cable, usage instructions, warranty	HDD rack, bar to hold HDDs in place AC power cable, usage instructions, warranty	HDD tray, all-purpose tray AC power cable, usage instructions, warranty	Media Rack, Instruction manual, One-year limited warranty

Duplicator & Wiper

CLONIX

DiskClon DC6000 Series

Disk Duplicator & Wiper

DiskClon is the product to duplicate and wipe various media (HDD, SSD, CF, SD, mSATA, NGFF) at fast and stable speed of 7GB/min on average, which enables to manage the original disk using the disk image file method and duplicate it optionally as the disk has a disk backup function.

This is the best solution for duplication and wipe that enables to maximize small quantity batch production, maintenance of various products, convenience of data wipe, and work efficiency as it is available to work on all ports individually when duplicating images or wiping data.

What is a duplicator with disk imaging method?

DiskClon can back up the contents of original hard disk in the device as disk image file for storage and management. It is available to duplicate the stored image disks without master hard disk.

- Easy to connect disk by jig
- Support interfaces such as IDE, SATA, SAS
- Manage and duplicate by disk image file
- Wipe disks completely and create a report

Main Feature

- Fast and stable duplication and deletion speed at average 7GB/m ~ max. 20GB/m
- Support Disk to Disk and Image to Disk
- Support Multi Image Copy
- Backup the manage the original disk image files from all ports
- Wipe by international standard method (DoD)
- Support hot swap (Wipe each port)
- Create wipe report
- Compare the original data and the duplicated data by sector unit and if an error is discovered during inspection, correct the error in real time.
- If the size of disk to duplicate is different, readjust the partition of the target disk automatically
- Record log file of used history

CLONIX

DiskClon DC6000 Series

Disk Duplicator & Wiper

Why DiskClon Needed?

❶ Mass media production & maintenance

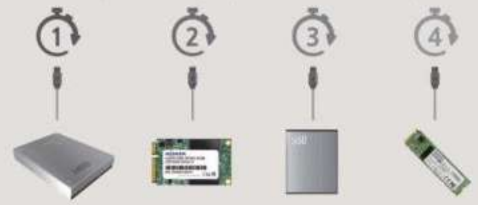
Duplicate the contents of original media in the target disk in large quantities and and conduct the maintenance

❷ Plug & Wipe

Reduce a great deal of time to delete using the function of deletion by port

❸ Small quantity batch production and various media management

Available for duplication of different media for each port, which enables to duplicate multiple products and different products



❹ Create a report for the result of deletion automatically after deleting

After deleting, create a report that records details such as PC, storage media, working time, working method etc.

Specification

Hardware Specification and Support Environment

Model name	DiskClon Portable	DiskClon DC6000-08IL	DiskClon DC6000-16HL
Port No.	4	8	16
Dimension	195mm x 140mm x 60mm	439mm x 268mm x 134mm	500mm x 268mm x 134mm
Weight	1.6kg	8.7kg	10.5kg
Power	60W/Full range (100-240)	550W/Full range (100-240)	700W/Full range (100-240)
Display	800 x 600 color LCD / touch screen	800 x 600 color LCD / touch screen	800 x 600 color LCD / touch screen
Internal storage	mSATA 120G	2.5" HDD 1TB	2.5" HDD 1TB
Ports	USB 2.0 x 2, USB 3.0 x 2	USB 2.0 x 5, USB 3.0 x 2, e-SATA x 1, HDMI x 1	USB 2.0 x 2, USB 3.0 x 4, e-SATA x 1, HDMI x 1
Network	2 x 1000 BASE-T	1 x 1000 BASE-T	2 x 1000 BASE-T
Duplication speed	7GB/m - 12GB/m		
Wipe speed	15GB/m - 20GB/m		
User interface	Window-based full GUI		
Support BUS type	IDE, SATA, SAS		
Support file system	Windows (NTFS, FAT16/32), Linux (Ext2/3/4, ReiserFS, XFS, btrfs)		
Support media	All media that support IDE, SATA, and SAS (HDD, SSD, CompactFlash, SecureDigital, mSATA, NGFF, etc.)		

*For the improvement of product quality, the specification of hardware is subject to change without prior notice.

CLONIX Co., Ltd.

Backup / Restore / Cloning Solution Provider
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Recruitment of Partner Company & Dealers

Contact sales@clonix.com

CLONIX

NetClon NC1000 Series

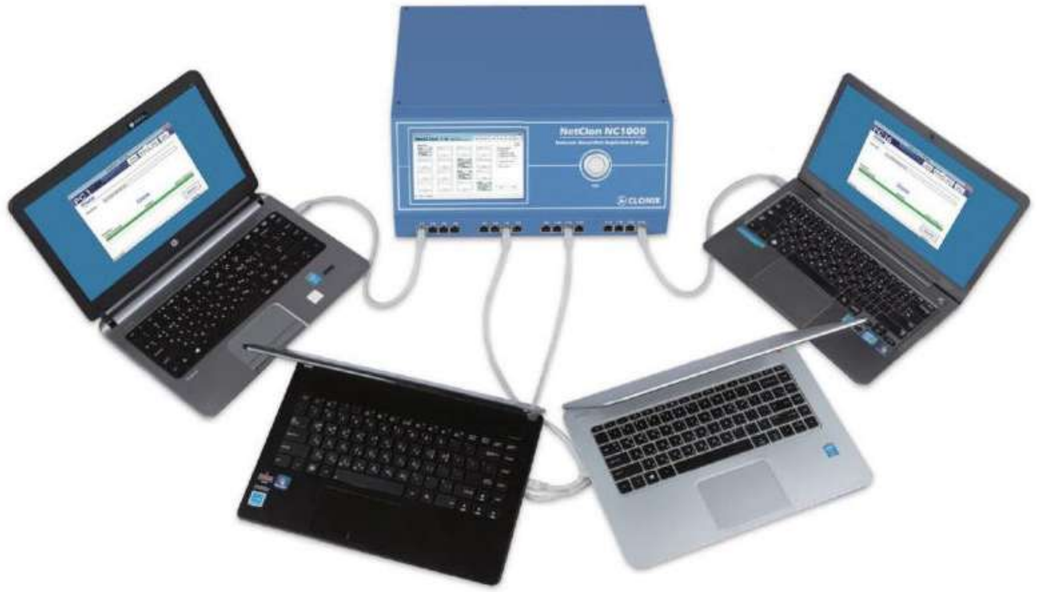
Network-based Disk Duplicator & Wiper

NetClon is network-based media duplicator and wiper that enables to duplicate, wipe and manage the original image through network interface without separation the storage from device in the world only.

This allows duplication and wipe regardless of types of embedded storage media as it controls the target system using a network booting technology. It is not necessary to purchase an additional device for each media type and this can reduce unnecessary work time.

What is a Network-based Disk Duplicator & Wiper?

NetClon can backup to internal storage from original disk by image and duplicate to target device by network connection. In addition, it is available to secure wipe without separation disk from device



Duplicate/wipe all type of storage media without separation from the device

Main Feature

- Network-based duplication and wipe (RJ-45 port)
- Duplicate, wipe and manage without separation disk from target device
- Duplicate and wipe regardless of disk type and interface of target device
- Support duplication that allows booting even if hardware of backup target device and duplication target device is not the same (support the duplication between different models)
- Manage by image file of backup
- Support simultaneous duplication function of the same image suitable for mass production and maintenance
- Support individual image duplication function by product suitable for small quantity batch production and maintenance
- Automatic duplication when connecting by image file registration and settings by model of duplication target device
- Support international DoD wipe method, which does not allow restoration
- After secure wipe, create a report for details of work automatically
- After secure wipe, proceed with automatic duplication and after completion, support the automatic closing

CLONIX

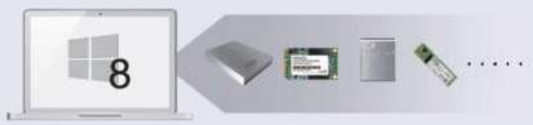
NetClon NC1000 Series

Network-based Disk Duplicator & Wiper

Why NetClon Needed?

❶ An increasing number of storage media having various interfaces

Available to work with various storage media such as HDD, SSD, mSATA, NGFF, eMMC, SD Card, Flash Memory, DOM, CF Memory, etc. as well as future storage media



❷ Small quantity batch production and maintenance of various products

Available for simultaneous duplication of different systems for each port, which enables to duplicate multiple product and different models at the same time

❸ Duplication solution optimized for Cell production method

Unification of duplication process regardless of media type and available to duplicate and inspect after production of finished products. Optimal for cell production method.

❹ Reduction of product damage

Reduce the product damage or risk of part loss due to frequent removal of storage media, as well as unnecessary work time

Specification

Hardware Specification and Support Environment

Model name	NetClon Portable	NetClon NC1000-08IL	NetClon NC1000-16HL
Port No.	5	8	16
Dimension	205mm x 140mm x 65mm	340mm x 365mm x 165mm	390mm x 365mm x 161mm
Weight	1.6kg	5kg	9.6kg
Power	60W/Full range (100-240)	120W/Full range (100-240)	700W/Full range (100-240)
Display	800 x 600 color LCD / touch screen	800 x 600 color LCD / touch screen	800 x 600 color LCD / touch screen
Internal storage	SSD 250G	SSD 500G	SSD 500G
Ports	USB 2.0 x 3, eSATA x 2	USB 2.0 x 1, USB 3.0 x 2, e-SATA x 1	USB 3.0 x 2, e-SATA x 1
Network			2 x 1000 BASE-T
Duplication / Wipe speed	7GB/m - 20GB/m		
User interface	Window-based full GUI		
Support BUS type	Gigabit Network		
Support file system	Windows (NTFS, FAT16/32), Linux (Ext2/3/4, ReiserFS, XFS, btrfs)		
Support media	All media (HDD, SSD, Compact Flash, SecureDigital, mSATA, NGFF, etc.)		

*For the improvement of product quality, the specification of hardware is subject to change without prior notice.

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blancco

Blancco Drive Eraser for ITAD

Market-leading Data Sanitization for HDDs/ SSDs in PCs, Laptops, Chromebooks, and Servers

Why Blancco

Blancco is the industry standard in data erasure and mobile device diagnostics software. Blancco data erasure solutions provide thousands of organizations with the tools they need to add an additional layer of security to their endpoint security policies through secure erasure of IT assets. All erasures are verified and certified through a tamper-proof audit trail.

Blancco data erasure solutions have been tested, certified, approved and recommended by 15+ governing bodies and leading organizations around the world. No other data erasure software can boast this level of compliance with the rigorous requirements set by government agencies, legal authorities and independent testing laboratories.

View Our Certifications

Request Your Free Trial

Get Started Today

Blancco Drive Eraser is a robust data sanitization solution for PC, laptop, Chromebook, server and storage environments.

Organizations concerned with data security and compliance are feeling the pressure to build and maintain robust security policies, safeguard their sensitive data, and dispose of their assets responsibly.

With Blancco Drive Eraser, organizations can add an essential level of protection to endpoint security policies by permanently erasing sensitive data from HDDs and SSDs, including NVMes in desktop/laptop/Chromebook computers and servers.

Our secure overwriting process sanitizes data on a wide variety of storage devices, offering organizations the means for safe re-sale, re-purposing or disposal of data assets at end-of-life.

Key Benefits

- ☑ Guarantees your data has been erased from any drive, from HDDs to SSDs and NVMEs, including self-encrypting drives
- ☑ Receive a tamper-proof audit trail for all assets, with a digitally-signed Certificate of Erasure for each erasure instance
- ☑ Process loose drives and Chromebooks with ISO Image Installer, including a report viewer to track progress and specifically designed key diagnostics
- ☑ Increase efficiency and minimize manual processes with Intelligent Business Routing (IBR) workflows (including offline)
- ☑ Generate post-processing labels per asset with Blancco Label Printer
- ☑ Implement hardware tests to assist with diagnostics
- ☑ Full NIST compliance with support for NIST Purge and Clear, featuring full records of unsupported incidents for transparent auditing
- ☑ Support for internal drive erasure commands

blancco

Technical Specifications

ERASURE

- Locally or remotely controlled data erasure via the Blancco Management Console
- High-speed, simultaneous erasure of multiple drives, including the ability to customize drive batch sizes and drive speed thresholds
- RAID dismantling and direct access to the underlying physical drives
- SSD detection and secure erasure with Blancco´s patented SSD method
- Automated detection and unlocking of freeze locked drives
- Detection, notification and erasure of hidden areas (DCO, HPA) and remapped sectors
- Support for internal drive erasure commands, including cryptographic erasure and TCG feature set on self-encrypting drives
- Ability to reformat SATA and SAS drives after erasure

MINIMUM SYSTEM REQUIREMENTS

- 1 GB RAM memory in most cases (2 GB for PXE booting)
- Local erasure:
  - CD/DVD drive or USB port for booting the software
  - SVGA display and VESA compatible video card
  - USB port for saving reports
- Remote erasure (requires Blancco Management Console):
  - Ethernet NIC
  - DHCP Server running on local network for PXE booting, remote erasure and report collection

USABILITY

- Accelerated NIST Purge erasure
- Multi-tasking to allow the hardware diagnostics and updating the report during the erasure time
- Screensaver displaying the erasure progress to monitor the process remotely
- Resume an erasure that has been interrupted without consuming extra licenses
- Dedicated interface for loose drive erasure
- Support for LAN and WLAN networks, including 802.1x authentication

REPORTING

- Digitally-signed Certificate of Erasure
- Choose between asset level or drive-level reports
- Save reports locally or send them through the network to the Blancco Management Console
- Detailed reports enabled by enhanced hardware detection
- Extensive erasure information, including HDD details for seamless audit procedures
- User extendable report (with option to add "custom fields")

DEPLOYMENT

- Blancco Drive Eraser is platform independent
- Local control with HASP dongles, standalone images, or centralized control through the Blancco Management Console or Blancco Cloud
- Deploy locally (CD, USB), via the network (PXE), preinstall (Windows, Linux), or via iLO, iDRAC, Cisco UCS, Intel AMT or install locally (appliance mode)

HARDWARE DETECTION & DIAGNOSTICS

- 13+ hardware tests, including: RAM, CPU, Motherboard, Battery (current capacity & discharge), PC Speaker, Display, Pointing Devices, Keyboard, Optical Drive, Webcam, USB Ports, WiFi card, SMART Tests for drives, BIOS logo
- Hot swap capabilities
- Backwards compatibility with other Blancco products (BDECT, BMC, BUSBC)

CONFIGURABILITY & AUTOMATION

- Customize erasure software to fit specific needs
- Customize input fields in erasure reports
- 4 levels of process automation: workflow, manual, semi-automatic, automatic
- Ability to communicate back and forth with an Asset Management System or other external system (IBR workflows) on asset and drive level
- Fine-tune erasure process (speed/time limit, configurable conditions, etc.)
- Execute customized workflows defined on the Blancco Management Console or Blancco Cloud, locally or remotely; automate the processing across all company assets

HARDWARE SUPPORT

- Erase data securely from PCs, laptops, servers and storage environments based in x86 and x86-64 architectures
- BIOS & UEFI machines including Intel-based Macs, Apple T2 and Secure Boot
- IDE/ATA, SATA, SCSI, SAS, USB, Fibre Channel, FireWire hard disk drives of any size/blocksize
- SATA and SAS solid state drives of any size/blocksize
- eMMC drives of any size/blocksize
- NVMe drives of any size/blocksize
- SAS, SCSI, ATA and NVMe self-encrypting drives

AUDITING

- Verification algorithms to automatically check the overwritten patterns
- Hexviewer provides fast visual verification of the erasure for compliance
- Reports offer tamper-proof reporting and can include a customized digital signature
- Embed reports in the drives for a fast erasure audit
- Search and export reports via APIs

LANGUAGE SUPPORT

- English, German, Japanese, Chinese, Russian, French, Taiwanese, Italian and Portuguese, Slovak, Polish and Hungarian
- Up to 20 different keyboard layouts supported

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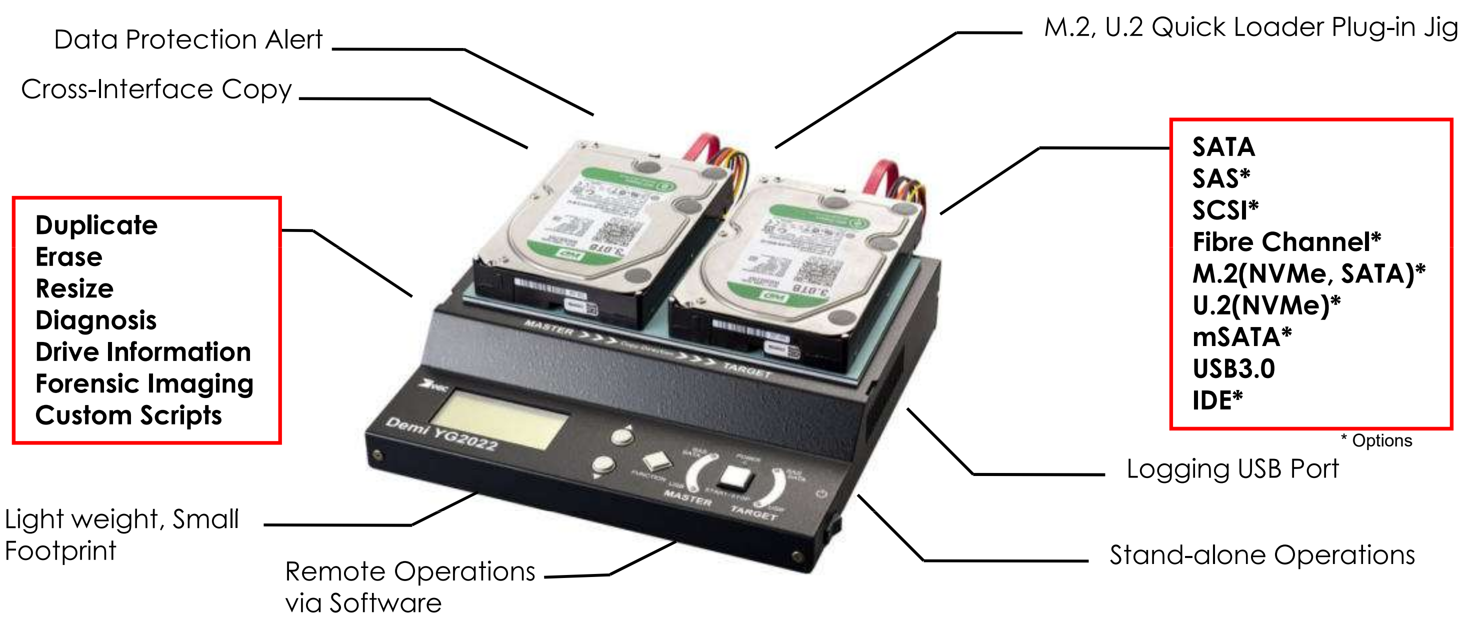
rev 2022.12

Demi YG2022

Compact and Multi Interface Duplicator



Data Protection Alert

Cross-Interface Copy

M.2, U.2 Quick Loader Plug-in Jig

Duplicate
Erase
Resize
Diagnosis
Drive Information
Forensic Imaging
Custom Scripts

SATA
SAS*
SCSI*
Fibre Channel*
M.2(NVMe, SATA)*
U.2(NVMe)*
mSATA*
USB3.0
IDE*

* Options

Logging USB Port

Light weight, Small Footprint

Remote Operations via Software

Stand-alone Operations

Backed by 30 years of experience and engineering in digital storage technology, built for professionals in the IT community demanding full flexibilities in one unit, Demi YG2022 is the answer to their voice.

Multi Interface Support

Native interface SATA 6G and USB3.0 accelates the process speed to the limit. In addition, Demi YG2022 is capable of connectionswith **SAS**, **SCSI** and **Fibre Channel**, not mention to IDE and mSATA (Full and Half Size). 50–68pin and 80–68pin SCSI adapters available.

Latest M.2 and U.2 SSD Support

Demi YG2022 has capabilities for connection of M.2 NVMe/SATA and U.2 NVMe devices via PCIe Gen3 x 4 bus. **72GB/m*** tested read speed by M.2 NVMe device. Proprietary Quick Loader plug-in jig ensures easy yet smooth loading and unloading without damaging any parts. (* varies by model)

NIST 800.88 Standards Compliant

DEMI YG2022 sanitizes drives with a method in compliant with NIST 800.88 standards in addition to DoD 5220.22-M , Security Erase and other scripts. The most requested erasure methods by IT and health care professionals.

Cross-Interface Copy

It helps backing-up old, phasing-out drives to new technology among various interface types. For example, backing up data from SCSI to SATA, or Fibre Channel to SATA. For details see the next page.

Safeguarding Data Against Unintended Overwrite

It would be a shocking moment when realizing critical data is overwritten unintentionally in error! When the master drive is connected in target drive position or the target drive contains data, HIT MG2060 proactively checks before proceeding overwrite and warns the user that the data still exists.

More Than A Duplicator

Multi interface duplication is not the only advantage YG2022 offers. As an all-round capabilities machine, it erases, resizes, and diagnoses, getting critical jobs done just in one unit.

File System and Mapping Copy modes make copy fast

File System Copy Mode duplicates data area only using MBR and GPT. **MAP COPY** function cuts down copy time drastically when copying a large volume. Utilizing the master data information for repeating copy events efficiently.

Data Recovery Copy Modes

ERROR SKIP COPY and **REVERSE COPY** are must-have tools to retrieve as much data as possible from a drive with issues. Error Skip Copy skips a weak sector and continues duplication. Reverse Copy allows for better chances to salvage data from a hard-to-read drive by copying backward from the ending sector .**ADVANCED REVERSE SKIP COPY** is more powerful for this task.

Use Device As External Drive

Drive connected to YG2022 can be mounted as an external master or target drive for PC via Ethernet connection. Master drive is write-protected when being accessed without risking data integrity.

Increase Power With Software

Optional software adds advantages furthermore in using Demi YG2022. It executes a script remotely and creates log files, work reports and CSV database and save them in PC. Sold separately.

"Trusted by digital technology professionals for over three decades. "

For more information, please visit www.yecglobalsolutions.com or call (657) 298-3276.

DEMI YG2022

FEATURES

- **DUPLICATION** All copy, Compare, Error skip copy, Reverse copy, Range copy, Data only copy, Mapping copy, Cross-interface copy
- **ERASURE** NIST Purge, Clear, Verify, DoD(3), DoD ECE (7), Security Erase, One time Erase, , NSA (National Security Agency) Method, NCSC (National Counterintelligence & Security Center) Method, US Army Method, US Navy Method, US Air Force Method
- **DATA RECOVERY** Bad sector skip copy, Reverse copy, Advanced Skip Copy, Advance Reverse Skip Copy
- **DIAGNOSIS** SMART Status, Short and extended self test, Read all and random, Write, Verify all and random, Read-Write-Compare, Cycle test, Test Repair
- **RESIZE** HPA, DCO, AMAC, SCSI Format
- **DRIVE INFO** Drive info, Partition info, Map data info, Erase map, Error info
- **FORENSIC IMAGING** DD Create, E01 Create, Ex01 Create, DD Hash, E01 Hash, Ex01 Hash, Format FAT32, Format ExFAT, Format NTFS, Restore image t HDD, Mount master to HDD, Mount target to HDD
- **CUSTOM SCRIPTING**
- **REPORTING** Detailed process logs, *Work reports, *CSV database (* via software)

CROSS-INTERFACE CONNECTIONS MATRIX

Master Drive

Target Drive

	SATA	SAS	SCSI	Fibre Channel	USB3.0	mSATA	IDE	M.2 NVMe/ SATA	U.2 NVMe
SATA	○	○	○	○	○	○	○	○	○
SAS	○	○			○	○	○		
SCSI	○		○		○	○	○		
F C	○			○	○	○	○		
USB3.0	○				○	○	○	○	○
mSATA	○	○	○	○	○	○	○	○	○
IDE	○	○	○	○	○	○	○	○	○
M.2	○				○	○	○	○	
U.2	○				○	○	○		○

OPTIONS
SAS Kit
SCSI Kit
Fibre Channel Kit
mSATA Adapter
IDE Kit
M.2 NVMe/SATA
U.2 NVMe
Software

SPECIFICATIONS

	Descriptions
Model	DEMI YG2022
Part No.	Y-2260
Supported Interface	SATA 6G USB3.0
Optional Interface	SCSI, Fbre Channel, M.2 NVMe/SATA, U.2 NVMe, mSATA, IDE (SCSI daisy-chained 68-50, 68-80 available)
Port Connections	1 to 1 duplication, 2 x erase, 2 x test
Dimensions	9.8 x 10.2 x 2.2" (250 x 258 x 55mm)
Weight	4.4 Lb (2.0kg)

	Descriptions
Cross-Interface Copy	SATA-SAS-SCSI-FC-mSATA-IDE-USB
Power Specifications	AC 100-240V 50/60Hz
Power Consumption	1.92A (Max)
Communication Port	Ethernet (1000BASE-T / 100BASE-TX / 10BASE-T)
Operating Environment	Temperature 10 - 35℃ (50 – 95ºF) Humidity 30 - 80%
Logging Port	USB2.0 Type A
Maximum HDD Capacity	SATA: 144PB SAS: 9.4ZB

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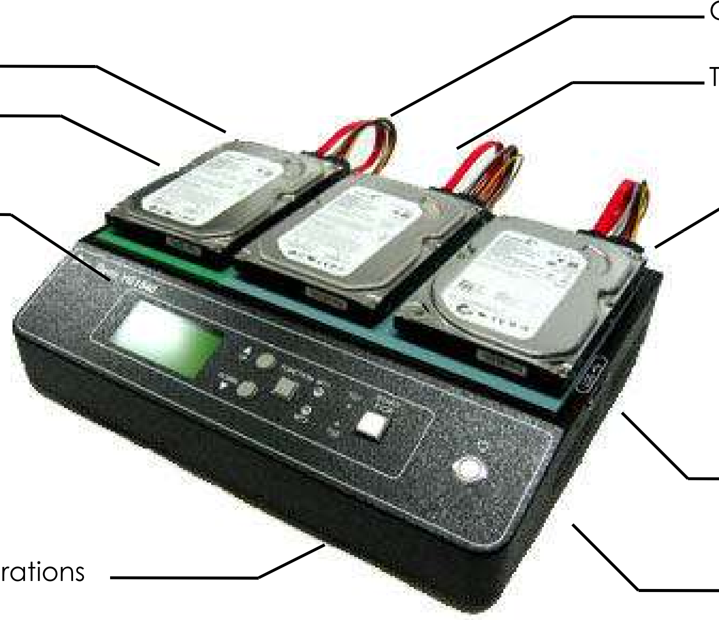
Demi YG2040

Dependable, Versatile Duplicator



Cross-Interface Copy

Target Data Protection Alert

1 to 3 Duplication

2-Master Copy Support

Duplicate
Erase
Resize
Diagnosis
Drive Information
Forensic Imaging
Custom Scripts

SATA
SAS
SCSI*
Fibre Channel*
mSATA*
USB3.0
IDE*

* Options

Logging USB Port

Remote Operations via Software

Stand-alone Operations

Backed by 30 years of experience and engineering in digital storage technology, built for professionals in IT and law-enforcement communities in need of full flexibility in one small unit, that is what Demi YG2040 is all about.

A Wide Range of Interface Support

Native interface SATA 6G, SAS 6G and USB3.0 accelerates the process speed to the limit. In addition, Demi YG2040 is capable of connections with **SCSI** and **Fibre Channel**, not mention to IDE and mSATA (Full and Half Size). 50–68pin and 80–68pin SCSI adapters available.

Dual Master Drive Configuration Copy

Demi YG2040 is versatile in copy scenarios. Basic 1 to 1 copy, 1 to 2 copy, 1 to 3 copy. 2 concurrent copy sessions of 1 to 1 duplicating two SATA and SAS master drives to 2 target drives. Cutting down the duplication time almost in half.

Cross-Interface Copy

It helps backing-up old, phasing-out drives to new technology among various interface types.. For example, backing up data from SCSI to SATA, or Fibre Channel to SATA. For details see the next page.

Proactive Data Protection from Unintended Overwrite

It would be a shocking moment when realizing critical data is overwritten unintentionally! When Master drive is connected to Target port or Target drive still contains data, Demi YG2040 proactively checks before proceeding to the overwrite mode and alerts user of potential accident.

More Than A Duplicator

Multi interface duplication is not the only advantage YG2040 offers. As an all-round capabilities machine, it erases, resizes, diagnoses, and images forensically on a professional level as well, getting all critical jobs done just in one unit.

File System and Mapping Copy modes make copy fast

File System Copy Mode duplicates data area only using MBR and GPT. **MAP COPY** function cuts down copy time drastically when copying a large volume. It Utilizes the master data information for repeating copy events efficiently.

Data Recovery Copy Modes

ERROR SKIP COPY and **REVERSE COPY** are must-have tools to retrieve as much data as possible from drive with issue. Error Skip Copy skips a weak sector and continues duplication on. Reverse Copy allows for better chances to salvage data from a hard-to-read drive by copying backward from the last sector to beginning .**ADVANCED REVERSE SKIP COPY** is more powerful for this task.

Use Device As External Drive

Drive connected to YG2040 can be mounted as an external master or target drive for PC via Ethernet connection. Master drive is write-protected when being accessed without risking data integrity.

Increase Power With Software

Optional software adds advantages furthermore in using Demi YG2040. It executes script remotely and creates log files, work reports and CSV database saving them in PC. Sold separately.

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For more information, please visit www.yecglobalsolutions.com or call (657) 298-3276.

DEMI YG2040

FEATURES

- **DUPLICATION** All copy, Compare, Error skip copy, Reverse copy, Range copy, Data only copy, Mapping copy, Multi target copy, Cross-interface copy
- **ERASURE** NIST Purge & Clear, DoD(3), DoD ECE (7), Security Erase, One time Erase, N times Erase, NSA, NCSC, US Army, US Navy, US Air Force
- **DATA RECOVERY** Bad sector skip copy, Reverse copy, Advanced Skip Copy, Advance Reverse Skip Copy
- **DIAGNOSIS** SMART Status, Short and extended self test, Read all and random, Write, Verify all and random, Read Write compare, Cycle test, Test Repair
- **RESIZE** HPA, DCO, AMAC, SCSI Format
- **DRIVE INFO** Drive info, Partition info, Map data info, Erase map, Error info
- **FORENSIC IMAGING** DD Create, E01 Create, Ex01 Create, DD Hash, E01 Hash, Ex01 Hash, Format FAT32, Format exTAT, Format NTFS, Restore image to HDD, Mount master to HDD, Mount target to HDD
- **CUSTOM SCRIPTING**
- **REPORTING** process logs, work reports, CSV database

CROSS-INTERFACE CONNECTIONS MATRIX

Master Drive

Target Drive

	SATA	SAS	SCSI	Fibre Channel	USB3.0	mSATA	IDE
SATA	○	○	○	○	○	○	○
SAS	○	○			○	○	○
SCSI	○		○		○	○	○
F C	○			○	○	○	○
USB3.0	○				○	○	○
mSATA	○	○	○	○	○	○	○
IDE	○	○	○	○	○	○	○

OPTIONS
SCSI Kit
Fibre Channel Kit
USB Kit (Target)
mSATA Adapter
IDE Kit
Terminal Software

SPECIFICATIONS

	Descriptions
Model	DEMI YG2040
Part No.	Y-2255
Supported Interface	SATA 6G SAS 6G USB3.0
Optional Interface	SCSI, Fbre Channel, mSATA, IDE (SCSI daisy-chained:68-50, 68-80 available)
Port Connections	1 to 3 duplication, 2 sessions x 1 to 1 duplication, 4 x erase
Dimensions	10 “x 10“ x 2.5” 350 255 77
Weight	3.25lb 2.8k

	Descriptions
Cross-Interface Copy	SATA-SAS-SCSI-FC-mSATA-IDE-USB
Power Specifications	AC 100-240V 50/60Hz
Power Consumption	1.92A (Max)
Communication Port	Ethernet (1000BASE-T / 100BASE-TX / 10BASE-T)
Operating Environment	Temperature 10 - 35°C (50 – 95°F) Humidity 30 - 80%
Logging Port	USB2.0 Type A
Maximum HDD Capacity	SATA: 144PB SAS: 9.4ZB

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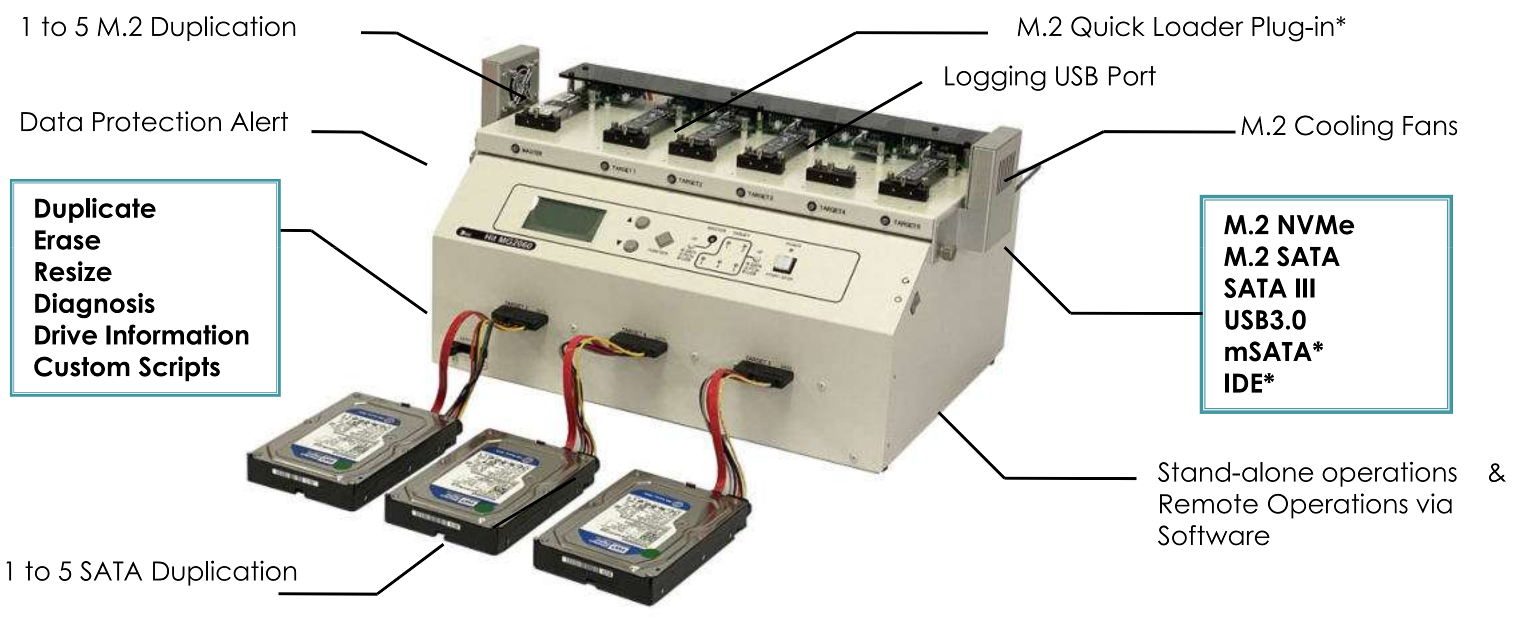
HIT MG2060

PCIe M.2 & SATA Duplicator



* SATA plug-in jig option available

Backed by 30 years of experience and engineering in digital storage technology, HIT MG2060 offers advanced M.2/SATA duplication solutions for manufacturing industry and IT professionals.

M.2 and SATA Interface Support

Supporting ultra fast **M.2 NVMe via PCIe Gen3 x 4**. **179GB/m*** tested read speed by M.2 NVMe device. SATA III and USB 3.0 are supported natively as well. Legacy interface connection, IDE** and mSATA**, are also supported. (*varies by device) (** optional)

M.2 Quick Loader Plug-in and Cooling Fans

YEC's proprietary M.2 Quick Loader provides reliable connection quick and easy with M.2 device size of 2230, 2242, 2260, 2280 and 22110. Cooling fans improve data transfer performance. Quick Loader for SATA HDD is available as an option.

Slow Drive Elimination – Reliable Performance

User can specify minimum transfer speed. When one of the drives performs slower, the entire duplication time gets prolonged. In order to avoid speed drop coming from it, HIT MG2060 constantly monitors the data transfer speed of every single target drive during the duplication process. The device slower than the minimum speed will be checked and eliminated from the duplication event automatically thus achieving the fastest result possible. Using the real-time transfer rate displayed in the control screen, User can abort the slow drive manually without interrupting other drives being processed as well.

Proactive Data Protection from Unintended Overwrite

It would be a shocking moment when realizing critical data is overwritten unintentionally! When Master drive is connected to Target port or Target drive still contains data, HIT YG3210 proactively checks before proceeding to the overwrite mode and alerts user of potential accident.

Reporting

Detailed logs are automatically generated, recording every process events. In case an error occurs, the system will log when and what issue has caused it. **CSV database** and **Work Report** features are available as option.

More Than A Duplicator

Multi interface duplication is not the only advantage that MG2060 offers. As an all-round capabilities machine, it erases, resizes, and diagnoses, getting critical jobs done just in one unit.

NIST 800.88 Standards Compliant

NIST 800.88 Purge and Clear scripts are included in addition to DoD 5220.22-M , Security Erase and other scripts. Great erasure methods for health care and ITAD professionals.

File System and Mapping Copy modes make copy fast

File System Copy Mode duplicates data area only using MBR and GPT. **MAP COPY** function cuts down copy time drastically when copying a large volume. It utilizes the master data information for repeating copy events efficiently.

Low Maintenance

Replacing M.2 jig board is so easy. No tools required. All It takes is remove one thumb screw.

Increase Power With Software

Optional software adds advantages furthermore in using HIT MG2060. It executes a script remotely, creates log files, work reports and CSV database and saves them in PC. Sold separately.

"Trusted by digital technology professionals for over three decades. "

For more information, please visit www.yecglobalsolutions.com or call (657) 298-3276.

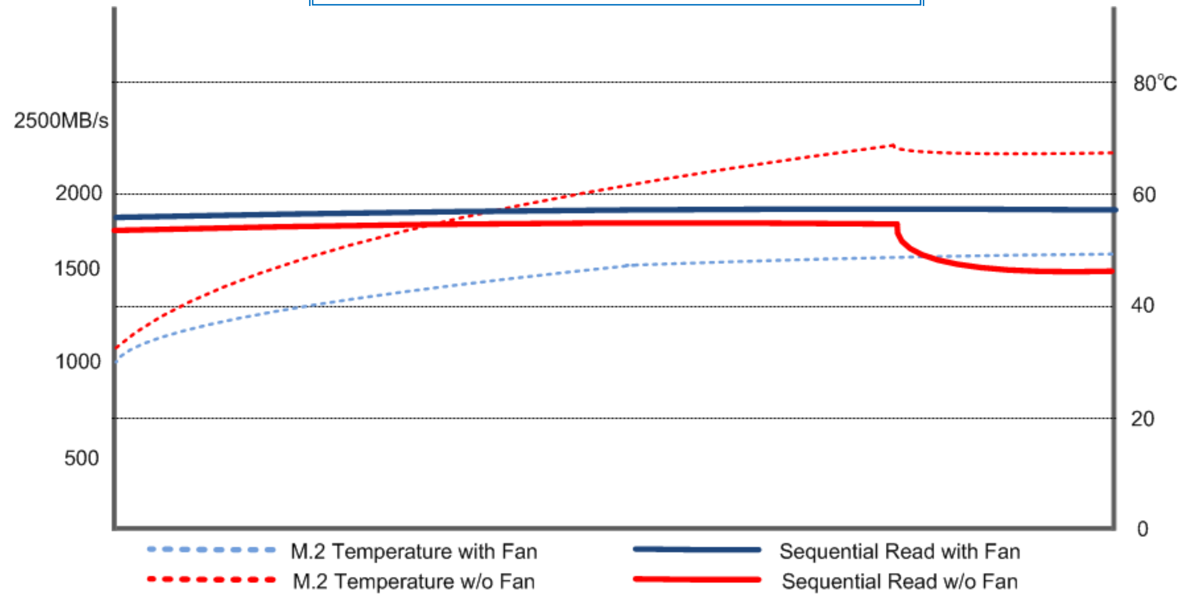
HIT MG2060

FEATURES

- **DUPLICATION** All copy, Compare, Error skip copy, Reverse copy, Range copy, Data only copy, MAP copy, Cross-interface copy
- **ERASURE** NIST 800.88, DoD 5220.22-M, Security Erase, One time Erase, N times Erase, NSA (Nat'l Security Agency), NCSC(Nat'l Counterintelligence & Security Center)
- **DIAGNOSIS** SMART Status, Short and extended self test, Read all and random, Write, Verify all and random, Read Write compare, Cycle test, Test Repair
- **RESIZE** HPA, DCO, AMAC
- **DRIVE INFO** Drive info, Map data info, Erase map, Error info
- **CUSTOM SCRIPTING**
- **REPORTING** Detailed process log, work report*, CSV database * (* via optional software)

- **RECOMMENDED USE:** Manufacturing, Testing Labs, Health Care, Education, Defense

EFFECTIVENESS OF COOLING FAN



SPECIFICATIONS

	Descriptions
Model	HIT MG2060
Part No.	Y-2530
Supported Interface	M.2 (NVMe, SATA) SATA 6G USB3.0
Optional Interface	IDE, mSATA
Port Connections	1 to 5 duplication, 6 x erase
Dimensions	L17 "x W12" x H9" (430 x 310 x 234mm)
Weight	23lb (10.5 kg)

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G

	Descriptions
Cross-Interface Copy	SATA – M.2 –USB – IDE - mSATA
Power Specifications	AC 100-240V 50/60Hz
Power Consumption	150VA
Communication Port	Ethernet (1000BASE-T / 100BASE-TX / 10BASE-T)
Operating Environment	Temperature 10 - 35°C (50 – 95°F) Humidity 30 - 80% (No Condensation)
Logging Port	USB2.0 Type A
Maximum HDD Capacity	SATA: 144PB M.2: 9.4ZB

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2201 105

DECA YG2043

Multi Interface
Test Erasure Solution

SATA SAS USB3.0

Optional Interface
SCSI Fibre Channel
mSATA IDE

☑ Test / Erase
☑ Repair
☑ No Licensing
☑ NIST Compliant

"YEC has served HDD professionals with testers /erasers for over 30 years. "

DECA YG2043 offers advantages :

Technology

- High speed 6G HDD/SSD test and erase - SATA 6G SAS 12/6G Options: mSATA SCSI FC IDE
- Flexibly test and erase 2.5" and 3.5" SATA/SAS mix simultaneously
- Scalable from 4 ports to 20 ports
- Each port is hot swappable, operated independently, eliminating time-wasting power cycles.
- YEC Quick Loaders reduce time for cable connections drastically. Size adjustable for 2.5" and 3.5" drives. NEW! - HDD caddies connectable.

Test ･Erase ･Repair

- Customizable scripts that include NIST800-88 Purge, Clear, Verify, DoD5220.00-M (3, 7 times), Secure Erase Enhanced and more. Scripts are modifiable to fit new test/erase requirements. Each channel can even run a script separately.
- Versatile test scenarios - Ready Time, Device Identify, SMART, Error Log Read, Buffer Test, Power Cycle, DCO/HPA Removal, Acoustic Management,Test & Repair, Butterfly Seek & Write, Sequential Read, Read Write Block Test, Read Random, Write Random, Target Scan, Checksum Calc, Short Test
- Repair damaged and weak sectors by reallocation

For more information, please visit www.yecglobalsolutions.com or call (657) 298-3276.

DECA YG2043

Efficiency

- No annual contract No licensing-per-wipe fee
- YEC Quick Loader plug-ins eliminate manual cable connections and reduce wear-and-tear on expensive high quality cables.
- No IT knowledge or experience required for operators on Day 1.
- Highly visible Pass/Fail result LED facilitates operators in engaging in other tasks in distance.
- reporting: Detail logs and CSV database are automatically created. Certificate template is customizable.
- 2 ways to view progress status

- Made in Japan

Recommended Users

- Value added ITAD, New drive qualification for data centers, Quality assurance, Manufacturing, Re-manufacturing, Reverse logistics, RMA control, New product development, HDD/SSD life cycle management, Education, Health Care IT

SYSTEM SPECIFICATIONS

	Descriptions
Model	DECA YG2043
Part No.	Y-2064
Supported Interface	SATA III 6Gbs/ SAS 6Gbs/ USB3.0 5Gbs /SCSI Ultra320 /FC 4Gbs
Dimensions	20 "x 12" x 6"
Weight	17lbs 7.5kg
Power Specifications	AC 100-240V 50/60Hz
Power Consumption	2.5A (100W)
Operating Environment	Temperature 10 - 35℃ (50 - 95° F) Humidity 20 - 80%
Communication Port	1 port (1000BASE-T / 100BASE-TX / 10BASE-T)
Maximum Port Connections	5 units/20 ports
Maximum Drive Capacity	SATA: 144PB SAS: 9.4ZB M.2: 9.4ZB SCSI: 9.4ZB FC: 9.4ZB
Host Software OS	Windows7/8/8.1/10
Options	Fibre Channel Kit, SCSI Kit, IDE Kit, mSATA adapter

Developed and Manufactured by

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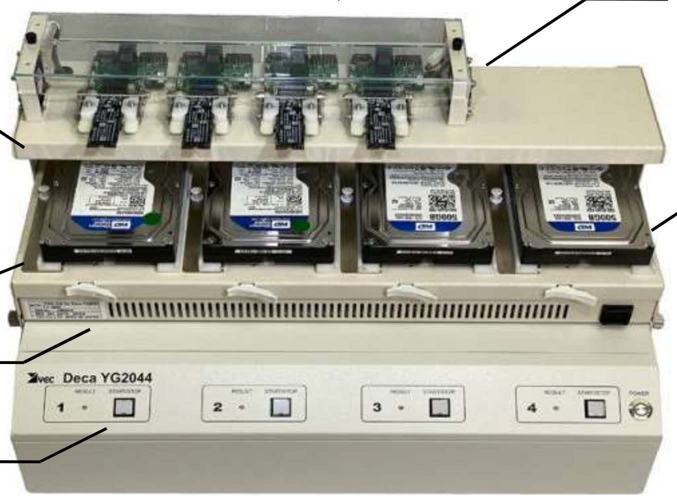
DECA YG2044

Multi Interface
Test Erasure Solution

SATA SAS M.2 U.2

Test Erasure Scripts
NIST 800.88
DoD 5220.00 M
Security Erase
Test & Repair
Modifiable Scripts
Health Grading
Power-on-Hour
and more…



M.2 NVMe Quick Loader Plug-in Jig

M.2 Cooling Fans

SAS/SATA Quick Loader Plug-in Jig

SAS Cooling Fan Unit

Dual Push-button and In-Screen Operations

Default Interface
SATA
SAS
Interface Options*
M.2 NVMe SATA
U.2 NVMe
SCSI
mSATA
USB3.0

Youtube Video
www.youtube.com/watch?v=yrgvjoJmA-o
Search Word: HDD YEC

Backed by 30 years of experience and engineering in digital storage technology, DECA YG2044 creates an advanced test and erasure platform that is reliable, efficient and flexible which ITAD and Enterprise Data Service professionals look for.

Hardware-based SATA & SAS Drive Erasure Solution

Reliable, robust DECA YG2044 supports 4 bays of **SATA** and **SAS drive at 6Gbps speed**. It accepts **2.5"** and **3.5" HDD/SSD** as well as **SS Hybrid Drive**. Firmware update downtime for new drive specifications is not required as the hardware-based DECA YG2044 is designed with deeper architecture managing a wide range of them.

No License Fee

No pay-per-wipe fee and **annual contract**. The more drives YG2044 wipes, the higher ROI it gets in long-term use.

Quick Drive Loading

Precisely designed Quick Loader smoothly engages cable connection of 2.5" and 3.5" drive at a blink of an eye effortlessly. Quick Loader reduces a great amount of time in cable connection.

Reporting – Log, CSV Database, Work Report

Detailed logs are automatically generated, recording every process events. In case an error occurs, the system will log when and what issue has caused it. All process events are saved in **CSV database** that is useful for comprehensive analysis on the results. **Work Report** template allows rearrangement of data fields layout. Work Report incorporates user-definable health grades, bad sector count and Power-On-Hour count*.   *unavailable to some devices

New Technology Support - PCIe M.2 NVMe & U.2 NVMe

Proprietary M.2 Quick Loader provides reliable connection with device size of 2230, 2242, 2260, 2280 and 22110. Cooling fans improve data transfer performance.

Test & Erase Scripts

DECA YG2044 sanitizes drive with the method compliant with **NIST 800.88** standards in addition to **DoD 5220.22-M** , **Security Erase** and other scripts. Library of scripts is included in the host software for quick start out of the box. **Test & Repair** script identifies weak, unstable, so-called, "bad sectors" and repair by reallocation when possible.

Flexible Scripting

The power of YEC scripting is ready-for-use scripts are modifiable, accommodating user's various erasure requirements – it can be specific technology in the drive, deeper analysis, lengthening or shortening test time and so on. Of course, a completely new script can be created from scratch. Test scripts diagnose various aspects of device.

System Integration – M.2, U.2 & SCSI

Connection to large scale 80-port tester DECA YG2801R allows the host software to test combined 84 drives ito include M.2 NVMe/SATA, U.2 NVMe, SCSI and mSATA devices on YG2044 machine as one integrated system.

"Trusted by digital technology professionals for over three decades. "

For more information, please visit www.yecglobalsolutions.com or call (657) 298-3276.

DECA YG2044

Highlights

- **Sample Erase Scripts** - NIST800-88 Purge, Clear, Verify, DoD5220.00-M (3, 7 times), Secure Erase in Enhanced Mode, One-time Erase, Multi-times Erase & more, Test & Repair
- **Sample Test Scenarios** - Ready Time, Device Identify, SMART, Error Log Read, Buffer Test, Power Cycle, HPA/DCO/ AMAC Removal, Acoustic Management, Butterfly Seek & Write, Test & Repair Sequential Read, Read Write Block Test, Read Random, Write Random, Target Scan, Checksum Calc, Short Test
- No IT knowledge or background required for operators on Day 1.
- System executes the same script on 4 ports or different scripts and/or interface on each port.
- Quick Loader plug-in jig smoothly connects loose drive to the system. Advanced plug-in jigs that fits flexibly various server drive caddie designs are available.
- 2 progress status views, horizontal and vertical, help operations more productive.
- One-year warranty: parts and labor.   Lifetime support.

Recommended Applications

- Value added ITAD, New drive qualification for data centers, Quality assurance, Manufacturing, Re-manufacturing, Reverse logistics, RMA control, New product development, HDD/SSD life cycle management

Optional Quick Loader Plug-in for different types of server drive caddie

U.2 NVMe Quick Loader Plug-in Jig Attached

SPECIFICATIONS

	Descriptions
Model	DECA YG2044
Part No.	Y-2171
Supported Interface	SATA 6G SAS 6G USB3.0
Optional Interface	M.2 NVMe SATA, U.2 NVMe, SCSI, mSATA, IDE
Port Connections	4 Channels Linkable to 20 Channels / 5 Units
Dimensions	L20 "x W12" x H5" (500 × 300 × 125 mm)
Weight	16.5 lb (7.5kg)

	Descriptions
Supported Form Factor & Sector Format	2.5"/3.5" HDD, SSD, SS Hybrid Drive, 4K Native
Power Specifications	AC 100-240V 50/60Hz
Power Consumption	2.5A (100W)
Communication Port	1 port (1000BASE-T / 100BASE-TX / 10BASE-T)
Operating Environment	Temperature 10 - 35℃ (50 – 95ºF) Humidity 30 - 80% No Condensation
Maximum HDD Capacity	SATA: 144PB SAS: 9.4ZB M.2: 9.4ZB
Host Software OS	Windows 7/8/10/11

www.yecglobalsolutions.com

www.kk-yec.co.jp

Global Sales and Support
YEC Global Solutions, Inc.
10541 Calle Lee Suite 121, Los Alamitos, CA 90720 U.S.A.
T: **657-298-3276**   **sales@yecglobalsolutions.com**

* Specifications and the design of the product are subject to change without notice.

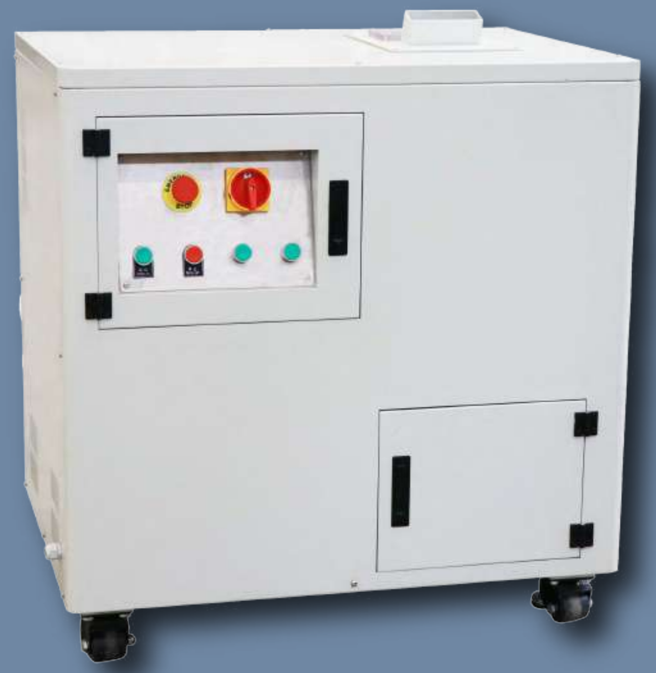
Developed and Manufactured
YEC Co. Ltd.,
3-44-45 Minamimachida, Machida, Tokyo 194-0005 Japan
T:**+81- 42-796-8511**   F: **+81- 42-796-2367**

2201 201

Media Shredder & Destroyer

Standard hard disk shredder

Small Hard disk shredder for office use which can shred server hard disk.



Supported Media

SSD HDD mobile Tape

Shredding Particle Size

20mm * random

Security Level (DIN 66399)

O-1 T-1 E-3 H-4

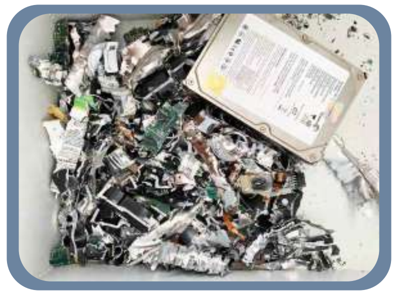
Shredding Capacity

60 pcs / hr

Advantages

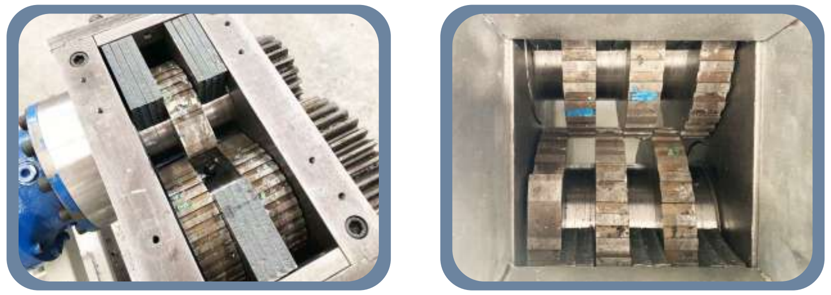
- Fully destroy hard disk physically.
- Fulfill the DIN 66399 O-1, T-1, E-3, H-4 standard.
- Small size and save space.
- Specifically design for office environments.
- Automatically reverse rotation when it gets jam.

Shredding size



Electrical cabinet

Shredding blade

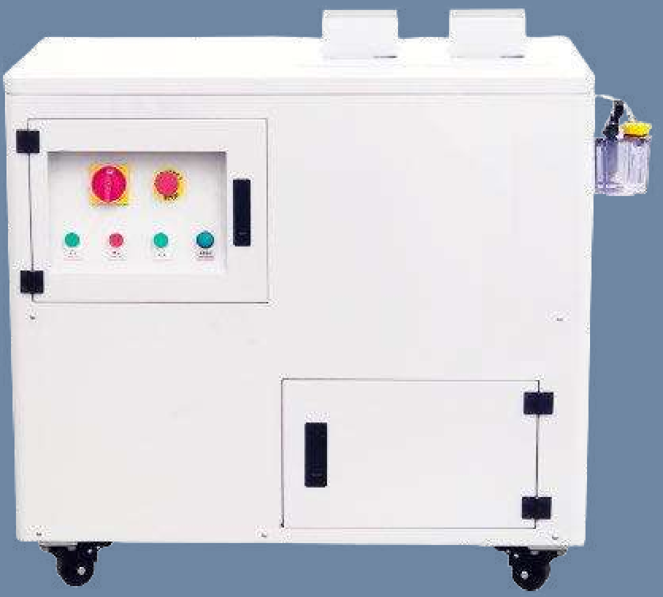


Specifications

Model	**DEZ-HS1000**
Shredding materials	Enterprise 3.5" HDD, 2.5" HDD, SSD, Tape (LTO/DLT/DDS)
Shredding particle size	20mm * random
DIN66399 Level	O-1, T-1, E-3, H-4
Blade thickness	20mm or customized 40mm
Shredding capacity	60 pcs / hr
Feeding Conveyor	116x 35 mm
Power	0.75 KW, single phase 230V, 13A, 50HZ
Waste collection Bin	25L
Machine size:	894(L) x 650(W) x 1000(H) mm
Machine weight	358Kg
Characteristic	Planetary gear box, automatically reverse rotation when it gets jam, wooden package, Heavy duty wheels

Standard Combo Hard Disk Shredder

Small Hard disk shredder for office use with two sets blade for shredding HDD and SSD.



Supported Media

SSD | HDD | Tape | CD & DVD | mobile

Shredding particle size

20mm or 5mm

Security Level (DIN 66399)

O-3 **T-2** **E-3** **H-4**

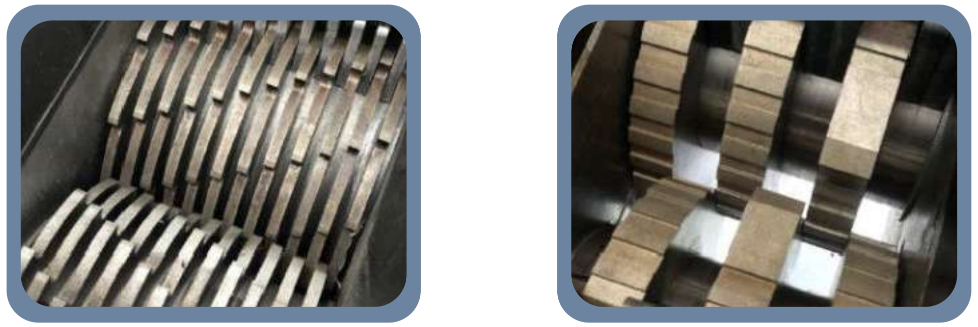
Shredding Capacity

50 pcs / hr

Advantages

- Combo blades with 20mm and 5mm to meet any shredded result for HDD and SSD destruction.
- Specifically designed for office environments.
- Solid hardened steel knife which is able to shred the hard drive and its internal components including the data disk.
- Use 0.75KW motor which can use in 13A plug
- Includes planetary gear box and button control.

Shredding blade



Shredding size

Specifications

Model	DEZ-HS2900
Shredding method	Combo blade design, 20mm for HDD, 5mm for SSD
Shredding materials	Server HDD, SSD, Mobile phone, magnetic tape, USB drive, CD
Shredding particle size	HDD: 20mm*random, SSD：5mm*random
Blade thickness	20mm+5mm
Shredding capacity	HDD: 50 pcs / hr, SSD: 60 / hr
Feed opening	Dual opening
Power	0.75 KW
Electricity	Single phase or three phase
Waste collection Bin	Two bins, 17L & 13L
Machine size	1004(L) x 540(W) x 1007(H) mm
Machine weight	400Kg

Combo hard disk Shredder

A heavy duty shredder for HDD and SSD which can shred 200 pcs HDD per hour.

Supported Media

SSD HDD Floppy CD & DVD mobile

Shredding particle size

18mm or 9mm

Security Level (DIN 66399)

O-1 **T-1** **E-3** **H-4**

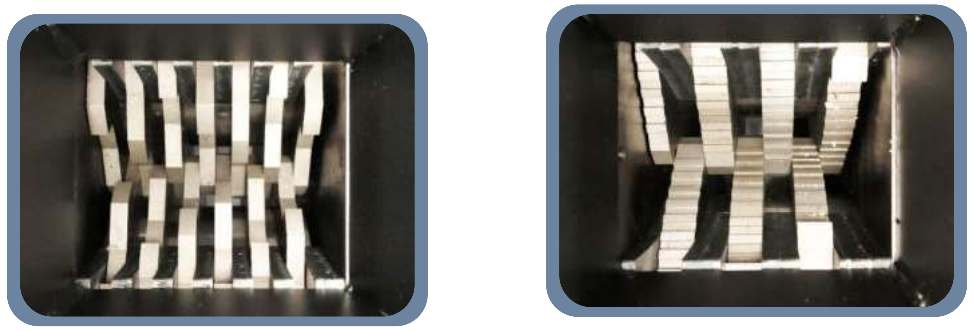
Shredding Capacity

200 pcs / hr

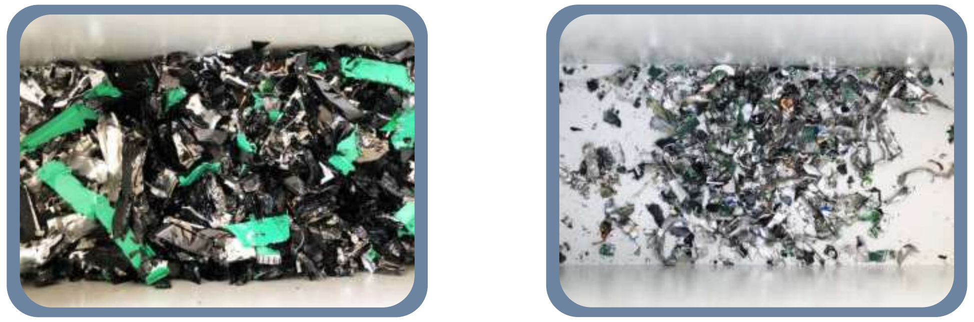
Advantages

- Combo blades with 18mm and 9mm to meet any shredded result for HDD and SSD destruction.
- Specifically designed for office environments.
- Solid hardened steel knife it is able to shred the hard drive and its internal components including the data disk.
- Simply pushing a button.
- Compliance with safety requirements of CE.
- Security switch, auto reverse and cut-off to avoid shredding jam, bin-full auto sensor, cabinet door open/closed sensor and dust proof closed housing.

Shredding blade



Shredding size



Specifications

Model	DEZ-HS3000
Shredding method	Combo blade design, 18mm for HDD, 9mm for SSD
Shredding materials	Enterprise 3.5" HDD, 2.5" HDD, SSD
Shredding particle size	HDD: 18mm*random, SSD:9mm*random
Blade thickness	18mm+9mm
Shredding capacity	200 pcs / hr
Feeding Conveyor	230 x 115 mm
Power	3 KW, 3 phase 380V or single phase 230V, 50HZ
Waste collection Bin	40L, HDD:21L. SSD:19L
Machine size	1144(L) x 630(W) x 1175(H) mm
Machine weight	650Kg
Characteristic	With Touch screen and PLC control, wooden package, Heavyduty wheels

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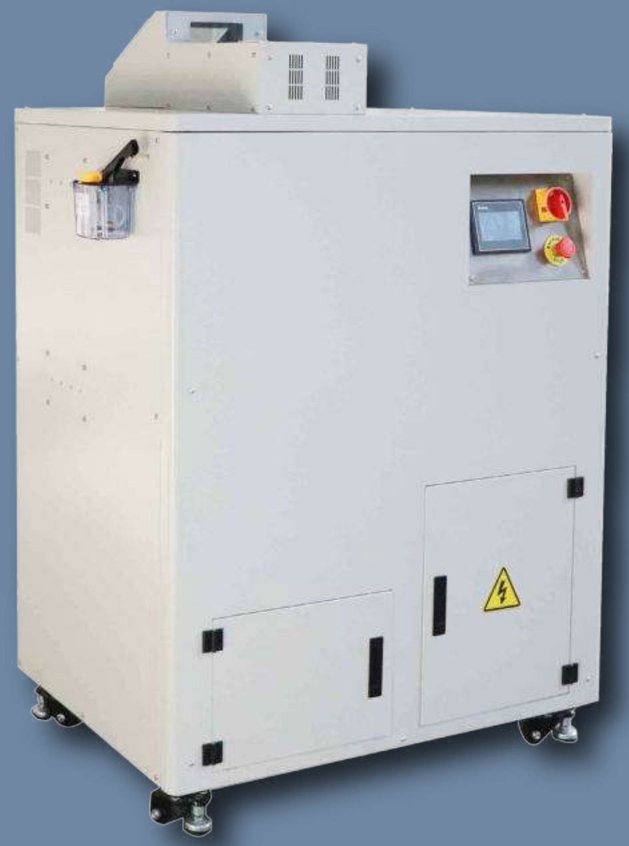
H5 Level hard disk Shredder

H5 Level HDD Shredder with dual step shredding construction for high security data destruction.



Supported Media

SSD HDD Tape CD & DVD mobile Floppy

Shredding particle size

More than 80% in 9*9mm

Security Level (DIN 66399)

H-4 H-5

Shredding Capacity

Approx in 320mm²

Advantages

- Fulfill the DIN 66399 H5 standard.
- Dual step shredding construction.
- Heavy duty two shaft shredding system with durable blade.
- Planetary gear box drive system.
- Working capacity more than 60pcs HDD per hour.
- Smart control PLC system

Shredding blade

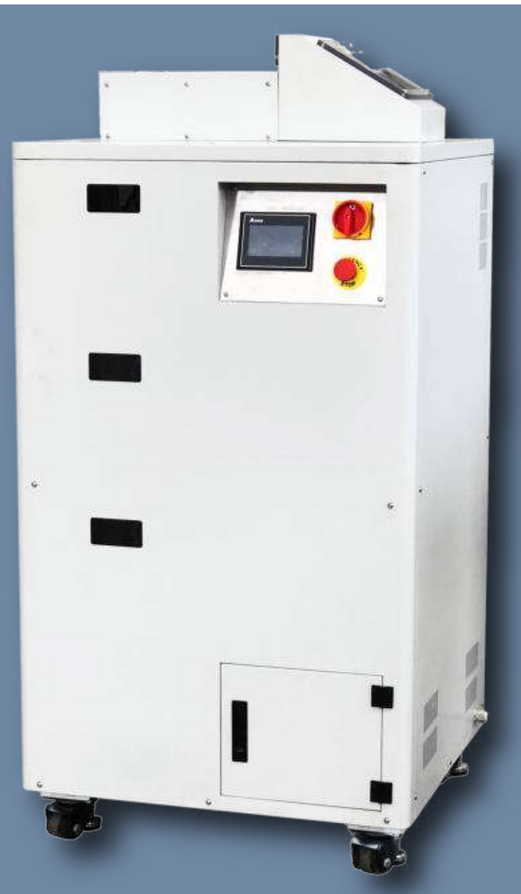
Shredding size

Specifications

Model	DEZ-HS3500
Shredding method	Two step shredding with two motor and two shredder
Shredding materials	HDD, SSD, CD, Floppy, Mobile Phone, IPAD
Shredding particle size	More than 80% in 9*9mm, approx in 320mm²
DIN66399 Level	H-4,H-5
Blade thickness	9mm + 9mm
Shredding capacity	120 pcs / hr
Feeding Conveyor	230 x 115 x 70mm
Power	5.26 KW, 3 phase 380V or single phase 230V, 50HZ
Waste collection Bin	40L
Machine size:	1044(L) x 620(W) x 1500(H) mm
Machine weight	842Kg
Characteristic	With Touch screen and PLC control, wooden package, Heavyduty wheels

Flash, SSD & Mobile Phone Shredder

A movable and high security data destruction designed shredder for SSD and mobile phone.



Application

SSD · mobile · Memory chip · CD & DVD · Credit Card · SIM Card

Shredding Particle Size

2*2mm

Security Level (DIN 66399)

E-4 **E-5**

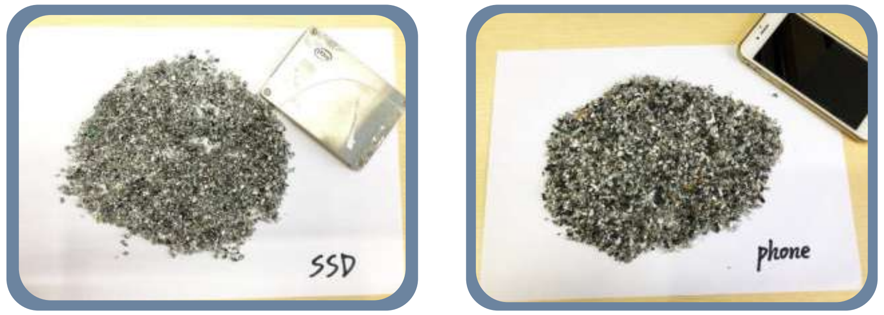
Shredding Capacity

150 - 200pcs / hr

Other Advantages

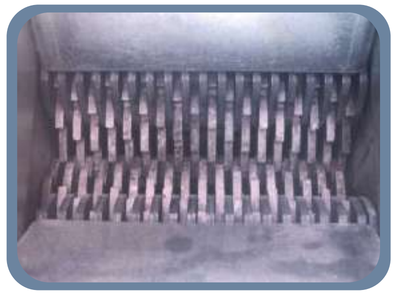
- Combo blades with 4mm and 2mm with three step shredding construction.
- Specifically design for office environments.
- Solid hardened steel knifes which can shred the hard drives including the data diskes.
- Compliance with safety requirements of CE.
- Security switch, auto reverse and cut-off functions to avoid shredding jam
- Bin-full auto sensor, cabinet door open/closed sensor and dust proof closed housing.

Shredding size



Touch screen control

Shredding blade



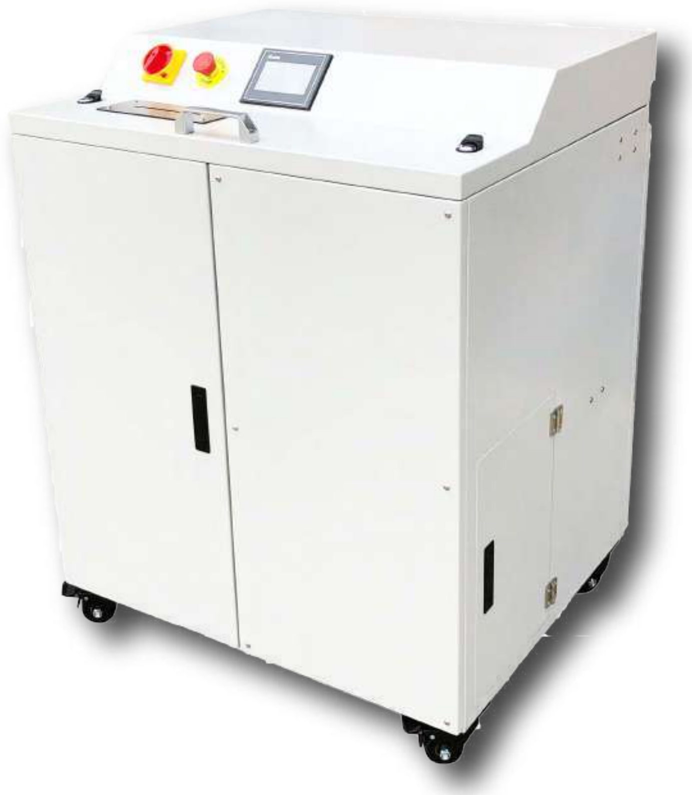
Discharge bin

Model: DEZ-SSD2X2

Shredding method	3 step shredding with 2 * dual shaft shredder
Shredding materials	SSD, Mobile Phone,CD USB, RAM, CARD
Blade thickness	First step with 4mm thickness blade, second and third step 2 mm thickness blade
Shredding particle size	2*2mm
Chamber box size	200*160mm
Throughout hard drive	150 - 200pcs / hr
Feeding Conveyor	230(L)*115(W)*70(H)mm
Power	2.25KW0.75 KW for each motor /(single phase)
Waste collection Bin	35L (500 * 250 * 280mm)
Machine size	740(L)*620(W)*1470(H) mm
Machine weight	423Kg
Package size	480KG
Package weight	China
Characteristic	With Touch screen and wooden package
Country of Origin	China

Circuit Board & Chip Disintegrator

High security disintegrator which is designed to shred memory chips and microchips.



Supported Media

SSD Chip

Memory chip

ID Card

Sim Card

CD & DVD

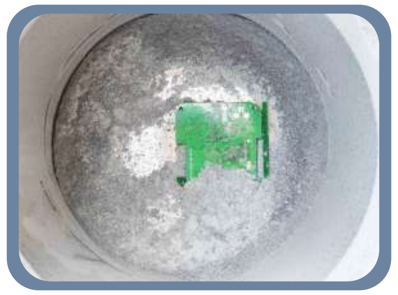
Shredding Particle Size

Optional
A. 0.5*0.5 mm²
B. 1*1 mm²
C. 2*2 mm²

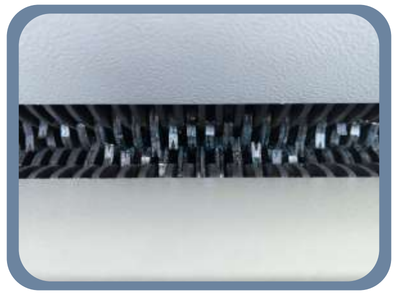
Shredding Capacity

5 - 10kg / hr

Crushing size

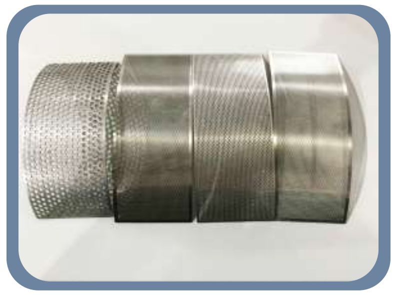


Shredding blade



Electrical cabinet

Screen mesh



Filter system

Specifications

Model	**DEZ-SPD2**
Destruction method	Shredding and Crushing
Crushing materials	SSD chips, memory chips, Card, ID card, SIM Card or small quantity of CD, DVD
Crushing particle size	0.5*0.5 / 1*1 / 2*2mm² or customized
Screen mesh size	Replaceable screen mesh for 1mm，2mm，3mm to reach different particle size in one machine
Crushing capacity	One pcs of Chip each time
Working capacity	5 – 10kg / hr
Feeding Port	130 x 8 mm
Power	3.12 KW, single phase 220V-230V, 13A，50HZ
Waste collection Bin	11L
Machine size:	820(L) x 680(W) x 1070(H)mm
Machine weight	About 216Kg
Characteristic	With Touch screen and PLC control, wooden package, Heavy duty wheels, filter

Advantages

- Shred into small partucles.
- Optional shredding particle size with 0.5*0.5 / 1*1 / 2*2 mm² or customized
- To meet higher security requirements for the data destruction.
- Commercial cross-cut shredder is designed for busy professionals.
- Automatically stops and starts for convenience.
- Working capacity more than 5 - 10kg per hour.
- Smart control PLC system.

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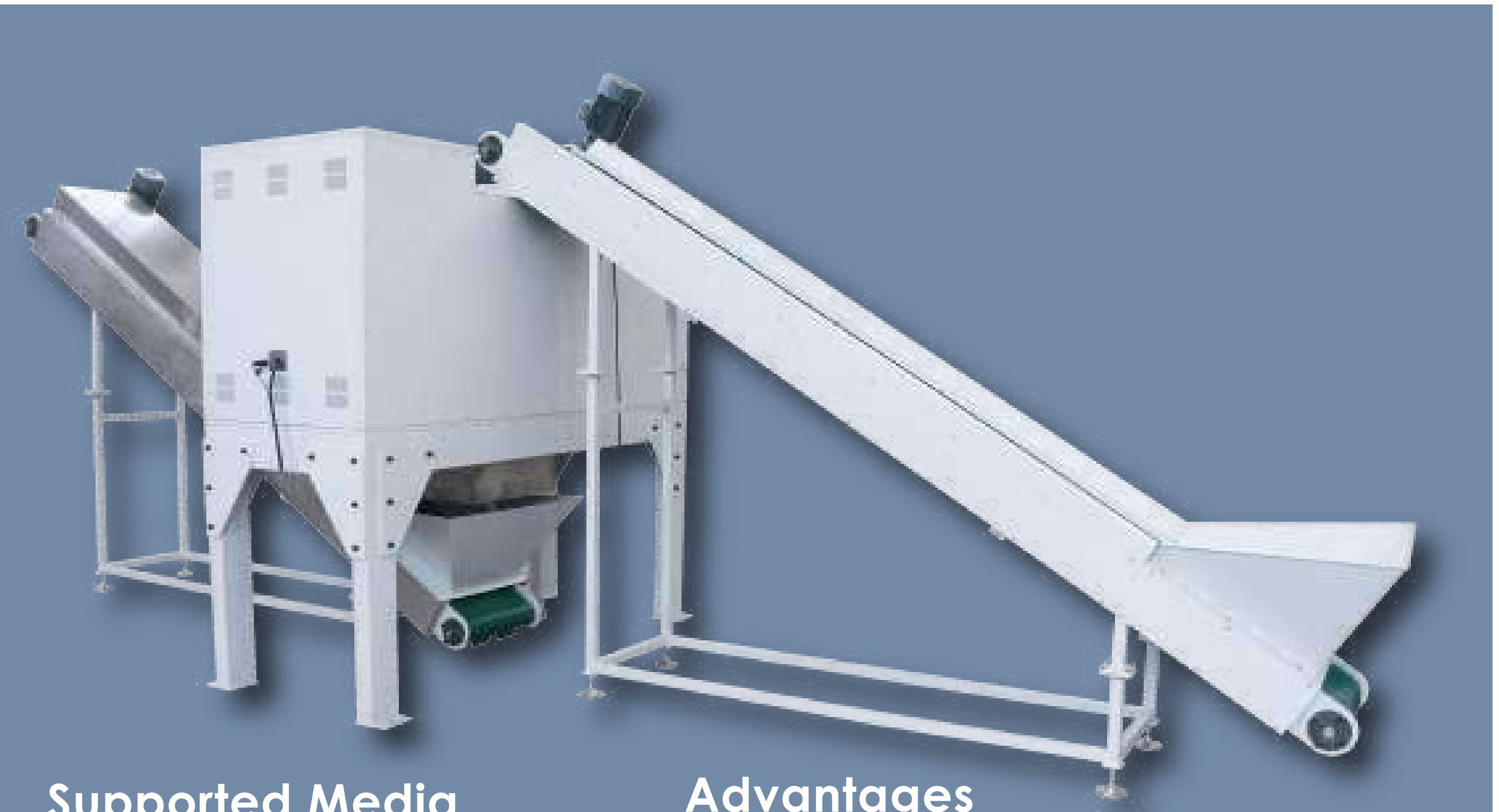
Industrial E-Waste Shredder

Powerful and efficient light e-waste solution for computers and printers.



Supported Media

HDD Computer printer PCB

Shredding particle size

20mm * random or customized

Shredding Capacity

500 kg / hr

Advantages

- Compact and space-saving design for small appliance disposal
- With durable blades and corrosion resistance feature
- Safety and ease of operation
- Process from 1 to 20 tons of materials per hour

Front view

Side view

Back view

Shredding size

Shredding blade

Control panel

Specifications

Model	**DEZ-SPT5**
Shredding method	Dual Motors Two shaft shredder with conveyor
Shredding materials	E waste，3.5 inch HDD，laptop，small printer, PCB ect.
Shredding particle size	20mm width * random or customized
Rotating Speed	13rpm
Blade thickness	20mm * 25 pcs
Shredding chamber box size	500* 455 mm
Shredding capacity	More than 500 kg / hr （more than 800 pcs HDD per hour）
Conveyor inner width	429mm width, With feeding conveyor and discharge conveyor
Total Power	33KW, 3 phase 380v, 50HZ
Shredder and conveyor power	Two motors: 11KW each, two conveyors: 1.5KW each
Machine size	6933.7(L) * 2310(W) * 2622.1(H)mm
Machine weight	About3 300kgs
Characteristic	With electrical control cabinet, planetary gear box, one year warranty

Server Hard Disk Shredder

Powerful server hard disk and desktop shredder.

* Optional Recording System

Application

SSD HDD Tape CD & DVD mobile Floppy

Shredding Particle Size

20*40 - 90mm²

Security Level (DIN 66399)

H-4

Shredding Capacity

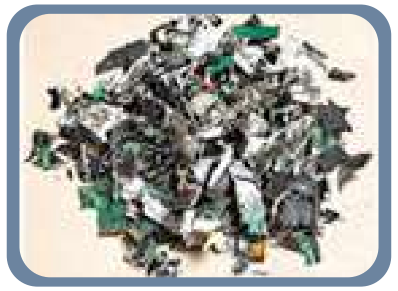
More than 300 pcs / hr

Other Advantages

- Special Hardened Cutting Mechanism
- Auto-Sensor Stop
- Auto-Stop by Micom System
- Auto-Stop for Cutter Revolution
- Self-Diagnosis System
- Auto Cleaning
- Door Safety Auto Sensor System
- Auto Control Reverse System
- Manual Function
- Safety Circuit Breaker
- High Quality Geared Motor

Optional Recording System

Shredding size



Waste collection Bin

Feeding Conveyor

Model: DED-SHS

Shredding materials	SSD, HDD, mobile phone, CD, floppy disk, USB drive, tape
Shredding particle size	20 * 40 - 90mm²
Shredding capacity	More than 300 pcs / hr
Feeding Conveyor	150mm
Motor Power	5HP
Power	3 Phases, 380V/60Hz
Machine size	800(L) x 1120(W) x 1232(H) mm
Machine weight	780Kg
Optional component	Recording System

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Professional Office Paper Shredder

High confidentiality level and high speed working efficiency paper shredders for office use.

Supported Media

Paper CD & DVD

- Durable shredding blade system
- Auto reverse function for jamming paper
- Full bin indicator
- Motor overheat indicator
- Sleep mode for saving energy

Specification

Model	DEZ-SP1001	DEZ-SP1020	DEZ-SP1022	DEZ-SP1025
Security level DIN 66399	P-4	P-7	P-5	P-4
Paper shredding size	4 x 40 mm	1 X 2 mm	2 X 15 mm	4 x 35 mm
Shredding capacity	30- 35 sheets A4 paper	5 sheets A4 paper	20 sheets A4 paper	25 sheets A4 paper
CD shredding size	4 x 40 mm	2 x 5 mm	2 x 15 mm	4 X 35 mm
Continuous shredding	More than 4 hrs	30 mins on, 30 mins off	60 mins on, 30 mins off	60 mins on 30 mins off
Insertion width	230 mm	240 mm	240 mm	240 mm
Bin capacity	100 L	45 L	70 L	45 L
Power (220V/50HZ)	750W	600W	600W	500W
Machine size	460x510x1052mm	430x330x710mm	460x350x900mm	430x330x710mm
Machine weight	51KG	30KG	36KG	28KG

Data Expert Optical Disk Shredder

Cut CD/DVD into 2x2 mm Super-small Particles to Securely Delete Data.

Application

CD & DVD

Shredding Particle Size

2 * 2 mm²

Security Level (DIN 66399)

O-6

Shredding Capacity

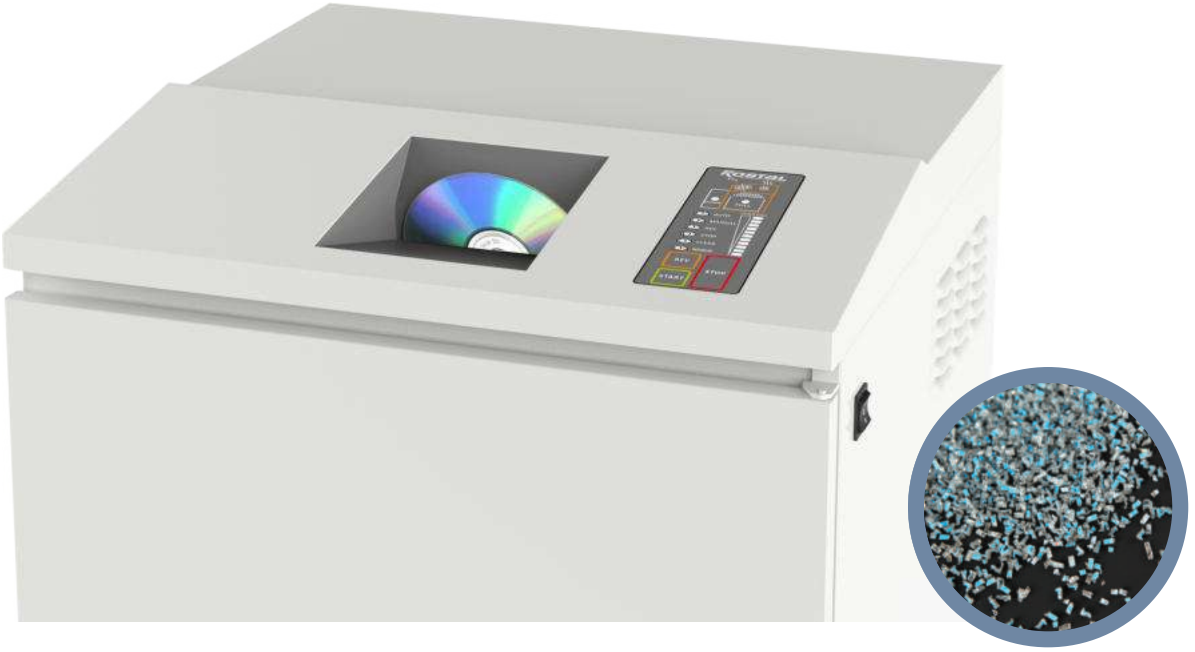
1000 pcs / hr

Advantages

- Special Hardened Cutting Mechanism
- Auto-Sensor Stop
- Auto-Start by Micom System
- Auto-Stop by Micom System
- Auto-Stop for Cutter Revolution
- Self-Diagnosis System
- Auto Cleaning
- Door Safety Auto Sensor System
- Optical Sensor Sensitivity Recovery
- Auto Control Reverse System
- Manual Function
- Safety Circuit Breaker
- Oiler System
- High Quality Geared Motor

Model: DED-CDS2

Shredding materials	CD & DVD
Shredding particle size	2*2 mm²
Entry Port	130 mm (CD/DVD)
Shredding unit per time	1 CD/DVD
Shredding capacity	1000 pcs / hr
Bin Capacity	75L
Motor Power	400W
Power Consumption	1,000W
Power Source	220V / 50Hz
Machine size	500(L) x 500(W) x 850(H) mm
Machine weight	76Kg
Optional Function	Auto Oiler



ISO/IEC 27001 Information Security Management CERTIFIED

CD & Paper Shredder

Perfect solution for top secret and classified shredding of paper and optical media.

Application

CD & DVD

Paper

Shredding Particle Size

CD	Paper
1.6 * 4 mm²	1 * 5 mm²

Security Level (DIN 66399)

O-5 P-7

Shredding Capacity

CD	Paper
600 pcs / hr	4,800 pcs / hr

Model: DED-CDPS

Shredding materials	CD & DVD, Paper
Shredding particle size	Paper: 1 * 5 mm² CD: 1.6 * 4 mm²
Entry Port	Paper: 230 mm CD: 125 mm
Shredding unit per time	10-12 pcs 75g paper 1 pc CD/DVD
Shredding capacity	Paper: 4,800 pcs / hr CD: 600 pcs / hr
Bin Capacity	Paper: 52 L CD: 32 L
Power Consumption	2,600W
Power Source	220V / 50Hz
Machine size	670(L) x 550(W) x 1090(H) mm
Machine weight	170 Kg

Advantages

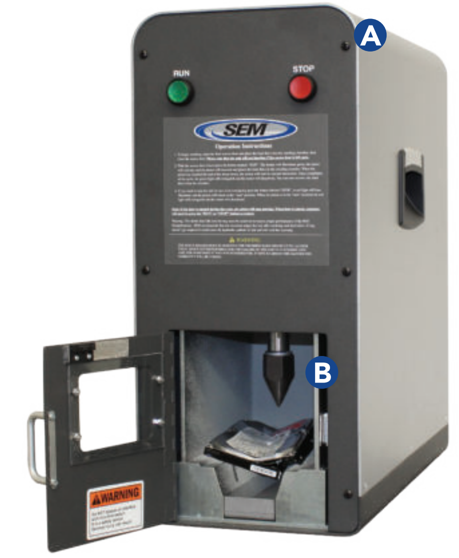
- Special Hardened Cutting Mechanism
- Auto-Sensor Stop
- Auto-Start by Micom System
- Auto-Stop by Micom System
- Auto-Stop for Cutter Revolution
- Self-Diagnosis System
- Auto Cleaning
- Optical Sensor Sensitivity Recovery
- High Quality Geared Motor
- Manual Function
- Auto Control Reverse System
- Safety Circuit Breaker
- Oiler System
- Auto Oiling Alarm
- Door Safety Auto Sensor System

HDD Crusher

Level H-3 Hard Drive Crusher Listed on NSA/CSS EPL for Hard Disk Destruction Devices

Model No. : DED-HDC01

Global Leader in High Security Information End-of-Life Solutions for Over 50 Years



A Easy to use operator interface

B Delivers 12,000 pounds of force

Specifications:

Speed	8 seconds per cycle
NSA Durability Rating	204 drives per hour
HDD Capacity per Cycle — PC / Server	1 HDD up to 1.85" thick
HDD Capacity per Cycle — Notebook	4 standard notebook HDDs or 6 ultra-thin HDDs
Media Dimensions	Up to 5.625"W x 1.85"H x 9"D
Electrical	115/1/60 International voltage available
Power Consumption / HP	7 Amps @120V / 1/3 HP – single phase
Dimensions – HxWxD	22" x 10" x 19"
Weight	115 lbs.
Warranty	1 year non-wear parts/90 days labor

Standard Features:

- Destroys all hard drives regardless of size, format, or type up to 1.85" thick
- **Drives mounted in caddies used in most rack mount server environments can be crushed without having to remove them from the caddies**
- Delivers 12,000 pounds of force, causing catastrophic trauma by bending and boring a hole through the drive while also destroying the data holding platters
- Safety interlocks prevent the unit from operating with the door open
- Made in the USA — TAA compliant

Options and Accessories:

- Spare anvil
- Heavy duty stand
- Dust cover
- Deployment case
- Mobile cart
- Shelf insert for laptop enterprise drives in caddies
- International voltage
- At-site set-up, installation, training
- Preventive maintenance contract
- Extended warranty

Security Engineered Machinery

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SS-022 I 02.15.2021

5 Walkup Drive
Westboro, MA 01581
800.225.9293 I 508.366.1488
info@semshred.com
www.semshred.com

HDD Crusher

Level H-3 Hard Drive Crusher Listed on NSA/CSS EPL for Hard Disk Destruction Devices

CONFIGURATIONS

0101-SSDKIT

Includes an SSD anvil along with wear and press plates that are factory installed in the 0101 crusher to destroy SSD data storage controller boards. Kit includes SSD anvil, wear plate and press plate. Must be ordered at time of purchase, no retrofitting available. Weight: 120 lbs.

0101-DEP

Includes a hard case with custom foam inserts, lockable latches, heavy duty casters, and removable front and rear panels that allow for operation while in case.

Dimensions:	31"H x 15.5"W x 24"D
Weight (empty):	64 lbs.
Weight (with 0101):	184 lbs.

5 Walkup Drive
Westboro, MA 01581
800.225.9293 I 508.366.1488
info@semshred.com
www.semshred.com

DED-OMS01

Level O-5 Optical Media Shredder
NSA/CSS EPL Listed for CDs

Global Leader in High Security Information End-of-Life Solutions for Over 50 Years

Specifications:

☒

Media Accepted	Optical media (CDs, DVDs, BDs)
Final Particle Size	2.2mm x 4mm
Hourly Throughput	Up to 1,583 discs
Media Feed Opening	4.72 in. | 12cm
Waste Collection Bin	15 gallon
Dimensions (HxWxD)	40 in. x 21.5 in. x 23.35 in.
Weight	231 lbs.
Electrical	120/1/60 or 220/1/50 Requires dedicated line
Power	1HP
Warranty	1 year non-wear parts/90 days labor

Standard Features:

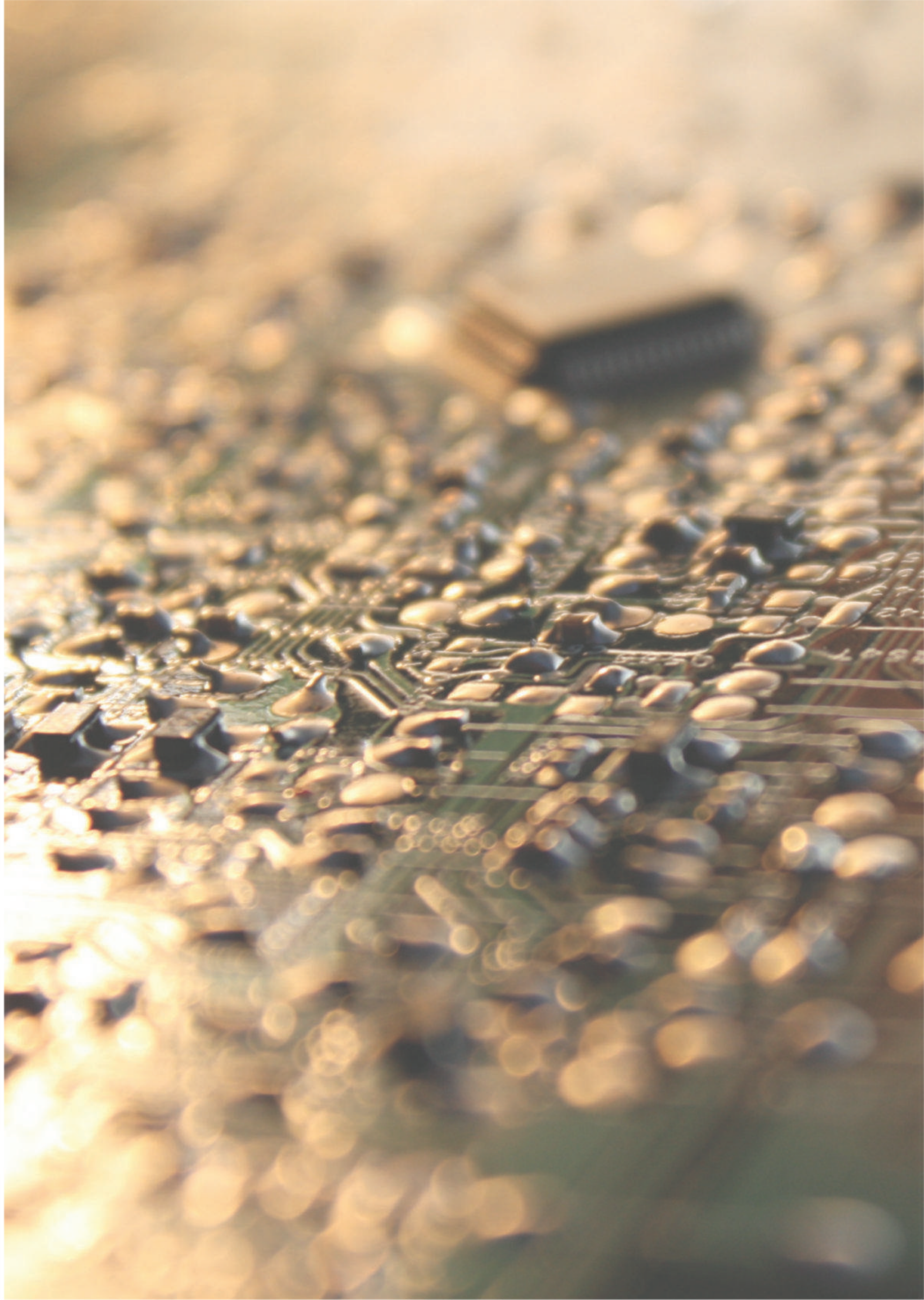
- NSA EPL listed for CD destruction
- Waste bin full/door open indicator with auto stop
- Energy savings mode shuts off power when not in use
- Ideal for other unclassified items such as DVDs, Blu-ray Discs, credit cards and access cards
- TAA compliant
- Includes premium start-up package with two one-gallon oil jugs and 50 anti-static waste collection bags*
- 1-gallon auto oiler prevents the need for manual lubrication*
- 15-gallon collection bin allows for more shredding before changing bags*
- Easy button controls with feed meter and reverse button*
- Anti-static waste bin and anti-static bags*

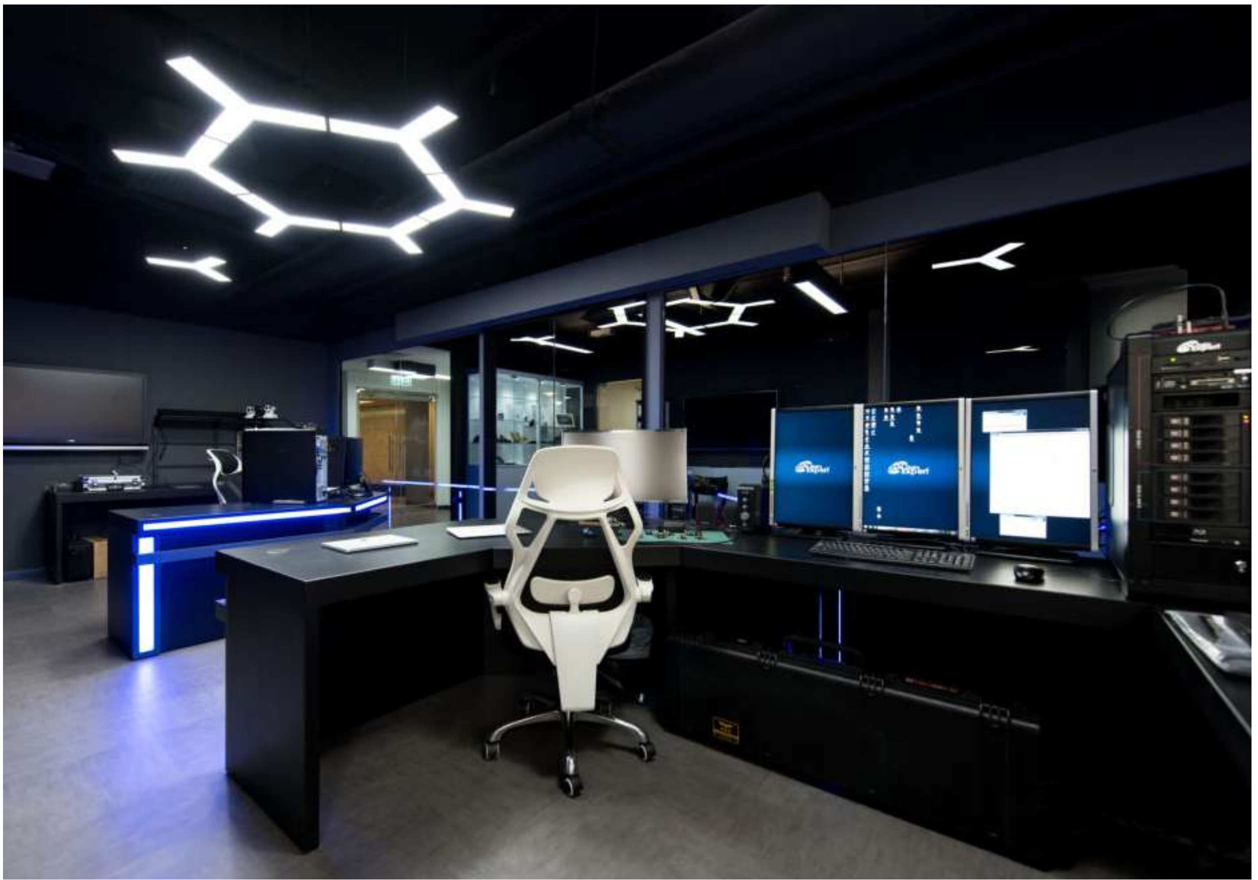
*Unique to SEM

Options and Accessories:

- Anti-static collection bags
- Oil packs

0201-DEP	
	The deployment case is rugged and incorporates custom filled foam inserts for maximum protection. It is lockable and water-tight with a telescopic handle and wheels.





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