

MD-VIDEO AI

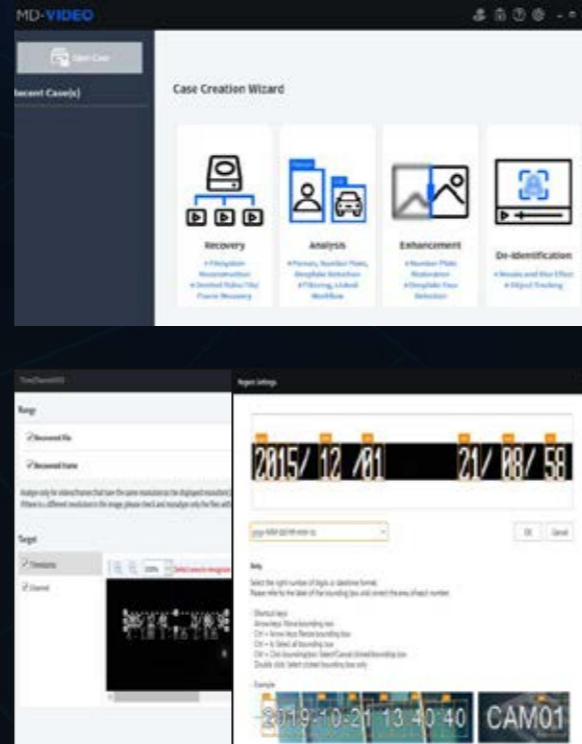
MD-VIDEO AI is an AI powered video forensic software solution designed for the recovery, enhancement and in-depth analysis of media files from a wide range of recording devices, including CCTV/DVR systems, vehicle dashcams, drone cameras, IoT cameras, and more.



Multimedia Recovery

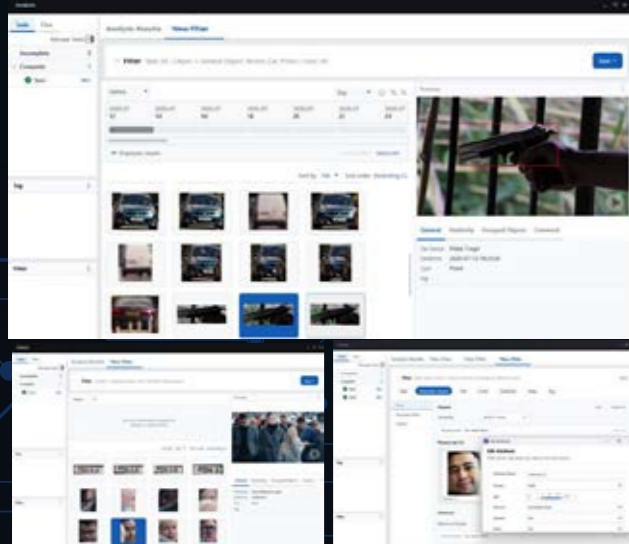
Video/Audio/Frame

- Recovery of deleted video, audio and frame data
- Frame extraction from video files
- Codec and Container-based recovery
- Partial recovery using time and metadata (H.264/H.265)
- Supports forensic image formats (E01, DD, 001, BIN, MDF)
- Supports recovery from RAID 0 and RAID 5 storage systems
- Broad support for DVR and Dashcam models
- Supports standard/proprietary filesystems and video formats
- File conversion to AVI/MP4, MP3/AMR, JPEG/PNG formats
- Audio extraction from video files
- Built-in advanced media player for forensic video investigation



Channel / Time Information

- Supports recovery of date/time information from file meta-data
- OCR based extraction of time and channel information
- Date/Time offset correction and adjustment



Video Analysis

Object and Anomaly detection

- Detect 80+ types of objects
- Specialized detection for Weapons (Knife, Pistol), License plates, and Faces
- Find one or more objects from one of more videos at once
- Detect small sized objects out of good resolution videos
- Robust filters mechanism to find clues out of detected objects
- Date/Time, Object, Color, Files, Area filters
- Video briefing by required detected objects for court
- Supports NVIDIA GPU models for accelerated video analysis

Search Suspects, Vehicle license plates

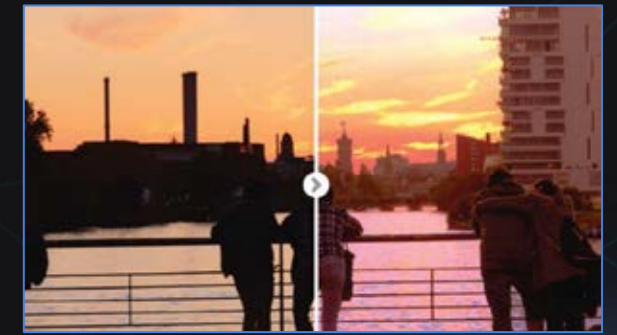
- Abnormal scene detection
- Find suspects out of multiple video footages
- Detect and Search specific digits of vehicle license plates
- Detect potential deepfake manipulations in facial content

Image/Frame Enhancement

- AI powered image and video frame enhancement functions
- Precision frame Cropping and Zoom (20~1000%)
- Image enhancement filters for Low-Light scenes
- Advanced Color, Sharpness & Noise control filters
- Corrects motion blur, camera shake and out of focus frames
- Perspective Correction & Image rotation
- Upscales low resolution frames using SRGAN and other deep-learning algorithms
- AI models for Estimating object length and vehicle speed
- Complete Enhancement Workflow with forensic reporting

Number Plate Restoration

- AI driven country specific License Plate restoration models
- Single and multi frame reconstruction for higher accuracy
- Intelligent candidate number prediction and refinement
- Works on Car, motorcycle, tricycle, truck and other vehicles



Face Restoration & Deepfake

- AI based deepfake detection for manipulated faces
- Provides deep fake confidence score (%) for analyzed faces
- Face restoration models to enhance blurry faces
- Restoration models optimized for facial attributes to improve enhancement accuracy

De-Identification

- Hide or blur sensitive areas in photo and video
- Track moving objects across video frames
- Trim and Split required or unwanted video segments
- Flexible & Precise editing tools for de-identification workflows
- Seamless export for reporting and court submission
- Privacy protection with GDPR compliance support