

WE EMPOWER YOUR INVESTIGATION !

MD-SERIES

Total Mobile & Digital Forensic Solution

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HANCOM
HANCOM GMD

We Empower Your Investigation!

As a worldwide leading research group of mobile and digital forensics, we have been dedicated in developing forensic solution which supports digital investigations. Our mobile and digital forensic solution, MD-SERIES, has been provided to hundreds of global investigation agencies since 2005. All of our products and technologies satisfy our clients' demands and expectations. We believe our sincere service and passion for new technology development are well recognized by our customers. We constantly engage with our customers and now we are growing fast to be a global top mobile forensic company.

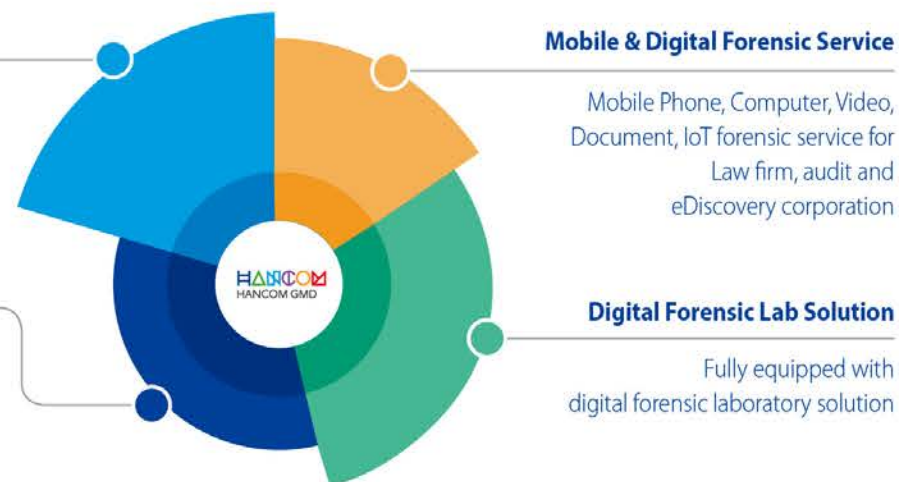
BUSINESS AREA

MD-SERIES

Total mobile and digital forensic products

Training & Certification

Mobile forensic training courses for investigators and auditors



OUR CLIENT



WHY HancomGMD?

 <p>34,000 Phones Annual mobile evidence service we provide</p>	 <p>15,000 Models Mobile phone models we support</p>	 <p>1,500 Apps Android and iOS application we support</p>
 <p>150 Global Agencies Our customers</p>	 <p>15 Years Our research experience</p>	 <p>9 Patents HancomGMD's patented innovative technology</p>

<p>01 Total mobile forensic solutions from on the spot to physical laboratory utilities</p>	<p>06 New digital forensic software products for Cloud/Video/IoT/Drone/Vehicle</p>
<p>02 Covers a wide range of global mobile phone models and apps</p>	<p>07 User-friendly UI with rich experience</p>
<p>03 Specialized in Asian manufacturers' device & diverse Apps popular in Asia</p>	<p>08 Online package updates and subscription of new devices & latest apps version</p>
<p>04 Forensic purpose-built hardware products for JTAG/Chip-off</p>	<p>09 In-depth mobile forensic training & certification courses</p>
<p>05 Useful mobile forensic packages for Triage/Field Investigation/Training</p>	<p>10 Experienced in mobile forensic laboratory establishment and management</p>

MD-SERIES

PRODUCT OVERVIEW

Total mobile and digital forensic product line for data extraction and analysis with integrated cutting-edge mobile forensic technology, supporting any type of mobile device

Mobile Forensic software



- MD-LIVE**
Mobile forensic software for on-the-spot investigation which performs live extraction and analysis on mobile device
- MD-NEXT**
Data extraction software for Smartphone, Feature phone, Drone, Smart TV, Wearable, IoT device, USIM card, SD memory card, JTAG and Chip-off memory
- MD-RED**
Data analysis software for recovery, decryption, visualization and reporting evidence data from mobile and digital devices

Mobile Forensic Hardware



- MD-BOX**
Digital forensic hardware for extracting data directly from the board using JTAG interface
- MD-READER**
Digital forensic hardware for extracting data from Chip-off memory
- MD-MR**
Package of digital forensic hardware devices to detach memory from the mainboard of mobile phone or other digital device

Digital Forensic software



- MD-CLOUD**
Cloud forensic software for extraction and analysis of cloud data
- MD-VIDEO**
Video forensic software for preview, recovery and analysis of video data

Mobile Forensic Packages



- MD-RUGGED**
Mobile forensic rugged package of MD-NEXT/MD-RED for the frontline investigator
- MD-PORTABLE**
Mobile forensic portable package with MD-LIVE for the first responder or triage at the crime scene
- MD-ACADEMY**
Complete set of mobile forensic tools customized for education and training

MD-SERIES Selection Guide

Device type	Extraction HW	Extraction SW	Analysis SW
Smartphone Live data extraction and analysis in the field		MD-LIVE	
Digital device Data extraction and analysis for Smartphone, IoT, Drone and Embedded HW		MD-NEXT	MD-RED
JTAG board Data extraction from board with JTAG interface	MD-BOX		
Chip-off memory Data extraction from physically removed flash memory	MD-READER		

MD-LIVE

Mobile forensic software for on-the-spot investigation which performs live extraction and analysis on mobile device



MD-LIVE is a mobile live forensic software with easy user experience which can support logical extraction and quick data analysis.

It also supports the selective acquisition from the evidence without privacy infringement, the screen capture and recording of smartphone display mirrored and forensic process recording by external camera of internal recording feature.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Mobile forensic software for on-the-spot investigation and triage
- Best forensic tool for smartphone of the witnesses or victims
- Selective acquisition of evidence data for privacy protection
- Recording and capturing of mirrored smartphone display
- Screen recording for audit or justification of forensic process
- Simple and convenient usage with intuitive user interface
- Minimize work time with automated steps using high-speed analysis engine

KEY FEATURES

Selective extraction and analysis of evidence data

- Only data related to the case can be selected and analyzed
- Minimization of unnecessary data extraction to protect the privacy and to reduce the time spent on the site
- Scan of important apps based on time period and frequency of use

Analysis data view just like looking at actual smartphone screen

- Quick evidence data identification by providing data view themes similar to that of smartphone app

Integrated data viewers

- Includes the viewers to display files such as photo, video, audio, document, map and website browsing history

Mirroring and remote control of smartphone display

- Smartphone screen mirroring and remote control can be used when smartphone display is broken or the prevention of unwanted operation on the phone
- Mirrored screen can be captured and recorded also as an evidence

Screen recording of MD-LIVE software

- PC screen recording of MD-LIVE to reproduce and verify its forensic process

Easy and concise process

- Intuitive user interface
- Auto-detection of smartphone model
- Automated analysis after extraction which makes fast investigation process

Reporting features

- Supports report such as PDF, Excel and SQLite DB
- Supports saving of reports and dump image on USB/DVD
- Supports 'Witness Document' generation
- Supports wide range of HASH algorithms
; MD5, SHA1/224/256/384/512, RIPEMD128/160/256/320

External standing camera (Option)

- For taking photo of the evidence and its display or recording the investigation procedure
- Hardware-based auto-focusing
- Anti-reflection pad

System Requirements

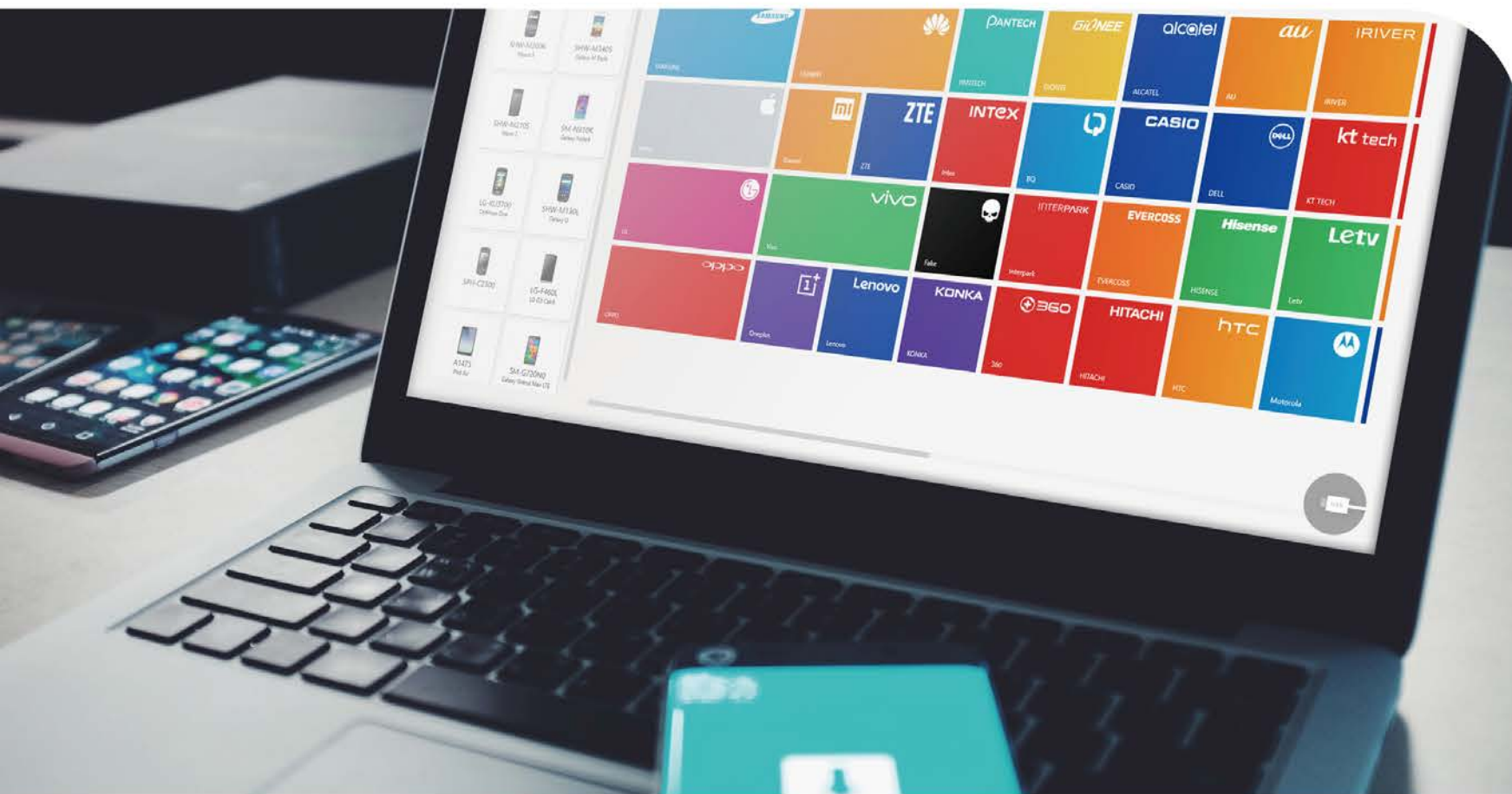
OS : Windows 7/8/10 (64 bit)
CPU : i5 or faster
RAM : 4GB or above
SSD : 512G or above
Display : 1024x768 or higher
USB : 2 or more USB 2.0/3.0/3.1 ports
Microsoft.Net Framework 4.5

Product components

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

MD-NEXT

Data extraction software for Smartphone, Feature phone, Drone, Smart TV, Wearable, IoT device, USIM card, SD memory card, JTAG board and Chip-off memory



MD-NEXT is the forensic software for the data extraction of diverse mobile and digital device. It supports physical and logical extraction methods for Android, iOS, Windows OS, Tizen OS and other mobile OS. MD-NEXT supports data extraction from MD-READER(Chip-off memory), MD-BOX(JTAG board), USIM reader, SD memory reader, OS backup protocol, agent app and new cutting-edge extraction methods.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Data extraction from Smartphone, Feature phone, IoT device, Smart TV, Drone, Chip-off memory and JTAG board
- Powerful extraction tool for Asian manufacturer (Samsung/LG/Chinese brands)
- Supports all physical extraction methods - Bootloader, Fastboot, MTK, QEDL, Custom Image, ADB Pro, iOS Physical, DL, JTAG, Chip-off, SD Card, USIM, Removable Media
- Supports all logical extraction - Filesystem, Android backup, iOS Backup, Vendor backup protocol, Local backup, MTP
- Unlock of latest Samsung and Chinese phone(Oppo/Vivo/Huawei/Xiaomi)
- iOS backup file decryption and keychain extraction
- Selective extraction of partition, file, category and app

KEY FEATURES

Perfect data extraction tool for diverse mobiles and digital devices

- Supports more than 15,000 models of Global smartphone manufactures (Samsung/Apple/LG/Nokia and etc.) models including 500 or more models from Chinese manufacturer (Huawei/Xiaomi/Oppo/Vivo and etc.)
- Supports extraction of IoT device, AI Speaker, Smart TV, Drone and Car

Advanced physical extraction features

- Supports Bootloader, Fastboot, MTK, QEDL, Custom Image android rooted, iOS Physical, ADB Pro, DL, JTAG, Chip-off, SD Card, USIM, Removable Media
- JTAG pin map viewer and connection scanning with AP
- Drone SD Card extraction - DJI Phantom, Maverik series/Parrot/PixHawk
- AI Speaker Chip-off extraction - Amazon Echo, Kakao Mini, Naver Clova

Supports diverse physical data reader hardware

- JTAG Reader (MD-BOX, Trace32),
- Memory Chip Reader (MD-READER, UP828)
- SD Memory Reader and USIM Reader

Advanced logical extraction features

- Supports Android Live, MTP, iOS Backup, Vendor backup protocol, Local backup

Unlock of latest smartphone model

- Supports Samsung, LG, Oppo, Vivo, Huawei, Xiaomi

Supports extraction and decryption of latest Asian phone

- KNOX bypassing physical extraction - Samsung Galaxy S series
- Screen lock bypass MTP extraction - Samsung Galaxy S Series
- ADB Pro physical KNOX bypass - Samsung Galaxy S series
- FBE Decryption service - Huawei unlocked phone
- Vendor Backup protocol extraction - Huawei
- Local backup extraction - Huawei, Xiaomi, Oppo, Glonee
- Physical extraction for Japanese manufacturer model - Sharp, Sony

Supports latest iPhone logical extraction

- iOS keychain extraction
- Logical extraction for iPhone up to XS/XR model
- Decryption of backed up data for latest version of iOS device

Selective extraction for privacy protection

- Supports selection of partition, file, category and app
- Selection in filesystem physical extraction method
- Selection in all logical extraction methods

Special extraction features

- Supports custom extraction for unlisted models using predefined methods
- Supports Google cloud drive extraction

Useful extraction utilities

- Supports auto recognition of partition table and encrypted partition
- Supports automatic firmware restoration and retrieval after restoration failure
- Supports resume of extraction
- Supports merge of multiple image file - MDF and binary file
- Supports creation of MDF file from PC backup

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

Excellent extraction performance

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

User-friendly and easy to use

- Intuitive graphical user guide for each extraction method
- List of recently selected models

Data preview and save

- Supports preview of the extraction data - Hex viewer, Data viewer
- Dumped image can be saved as 'MDF' and standard binary file format
- Pre-defined extraction file name
- Sound alarm for extraction status change

Reporting features

- Extraction information - Hash value, Time, Method, Filename
- Supports report format of PDF, Excel and HTML
- Supports 'Extracted File List' generation with hash value of each file
- Supports 'Witness Document' generation
- Re-generation of 'Extraction Reports'

System Requirements

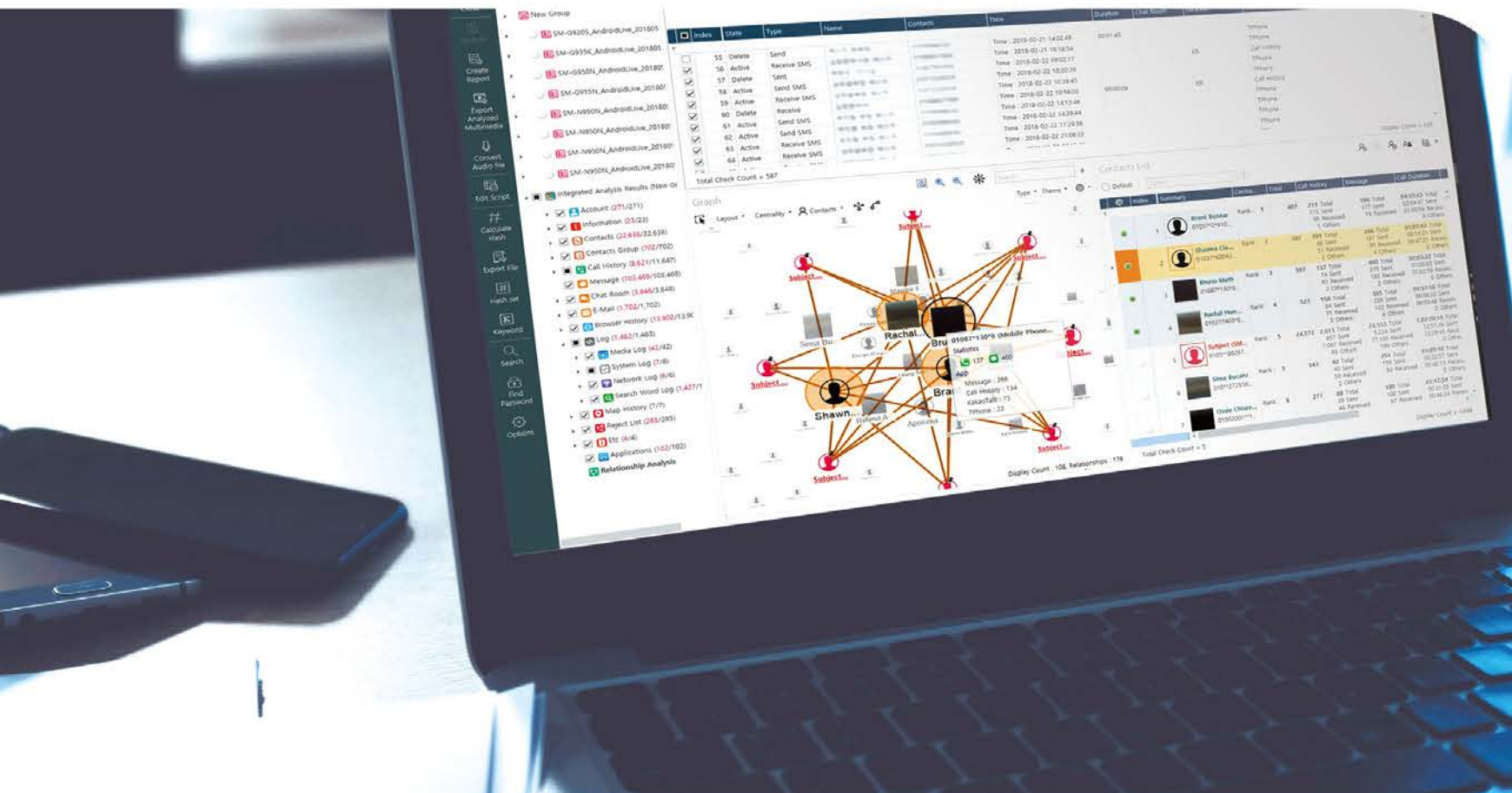
OS : Windows 7/8/10 (64 bit)
CPU : i5 or faster
RAM : 4GB or above
SSD : 512G or above
Display : 1024x768 or higher
USB : 2 or more USB 2.0/3.0/3.1 ports
Microsoft.Net Framework 4.5

Product components

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

MD-RED

Data analysis software for recovery, decoding, decryption, visualization and reporting evidence data from mobile and digital device



MD-RED is the forensic software for the recovery, decryption, visualization, analytic data mining and reporting evidence data from which are extracted with MD-NEXT or other extraction tool. All the results of analysis can be exported as the forensic reports for the investigation of crimes and accidents. Also, the analysis module of latest mobile apps is quickly updated by continuous research.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Analysis and recovery of various filesystem and 1,500 or more apps
- Decrypt the encrypted SNS message
- Quick update on new version of apps
- Social relation analysis
- Drone and IoT data analysis
- Visualization of analysis result
- Python editor for the development of analysis script

KEY FEATURES

Supports various mobile OS and devices

- Supports feature phone, smartphone and various digital devices
- Supports iOS, Android, Windows, Tizen and other mobile OS

Parsing and recovery of various filesystem

- FAT12/16/32, exFAT, NTFS, ext3/4, HFS+, EFS, YAFFS, FSR, XSR, F2FS, VDFS, XFS, DVR filesystem (e.g. Dahua and Hikvision)
- Data carving for unused area

Analyze 1,500 or more popular mobile apps and mobile data

- Multimedia files taken by phone camera
- Call log, Address book, SMS/MMS, e-Mail, Memo, Internet history
- SNS, Map, Navigation, Health, Banking and Lifestyle app
- Anti-forensic app

Maximized analysis performance

- High performance by multi-core CPU/GPU parallel processing
- Multiple analysis program execution for each case

Decryption of encrypted data

- Identifies encrypted document
- Decrypts encrypted chatting message, email, file and app data

Deep analysis of popular messenger

- Deserialization, Decryption and Recovery of data
- WhatsApp - Multiple backup files analysis
- WeChat - Multiple account analysis, Rainbow table
- Skype, Facebook messenger, Telegram, Wickr
- QQ, KakaoTalk, Line, Zalo, Viber, Snapchat and many other messengers

Decodes screen lock and password information

- Decodes Pattern, PIN and Password for unlock
- Brute forcing by GPU acceleration
- iPhone keychain data analysis

Multimedia data recovery and analysis

- Frame recovery for deleted/damaged video file
- Exclusion of + 6.7M pre-registered images by RDS (Reference Data Set)
- Audio file converter (From AMR/AUD/QCP/SILK to MP3/AMR/WAV)
- Supports QCP file play and Silk codec decoding

New digital device analysis

- Drone data analysis - Flight history, Multimedia data, DJI/Parrot/PixHawk
- IoT data analysis - AI Speakers, Smart TV, Car Navigation

Log analysis

- Medial log, Search word log
- System log, Network log (Bluetooth, WiFi, Cell Tower)

Social relationship analysis

- Basic mode for single phone analysis
- Advanced mode for multiple phone analysis
- Call, messenger, email communication data analysis
- Contacts merge and split
- Filter by app, period, contacts, types of communication
- Community analysis by centrality
- Visualized relation and automatic rearrangement
- Easy to access to specific node and communication link

Embedded data viewers

- SQLite database viewer
- HEX data viewer
- PLIST viewer
- Documents viewer (Text, XML, CDF, PDF, MS office, ZIP, Executable, Encrypted)
- Photo Gallery
- Video player
- Audio player

Visualization of analyzed data

- Map viewer for GPS data and cell tower location
- Offline/Online map (Region/Country/City - 3 level)
- Timeline viewer
- Link viewer for social relationship visualization
- Chat viewer for communication visualization
- Web browser for internet history review

Advanced data filtering option

- Filter by filesystem, signature, time and more fields
- Dynamic filtering operators, sorting, grouping
- Search by regular expression
- Keyword registration
- Bookmarking of selected data

Python scripting IDE for user-defined analysis

- Python script editor for advanced user
- Code generation, Code execution and debugging, Sample script

Case management and hash value verification

- Case management feature
- Grouping extraction images
- Hash value verification on each extraction image

Reporting features

- Hash calculation for selected file
- Supports export of analyzed multimedia
- Supports report formats of PDF, Excel, HTML, SQLite DB
- Supports 3rd party report format such as Nux, Relativity

System Requirements

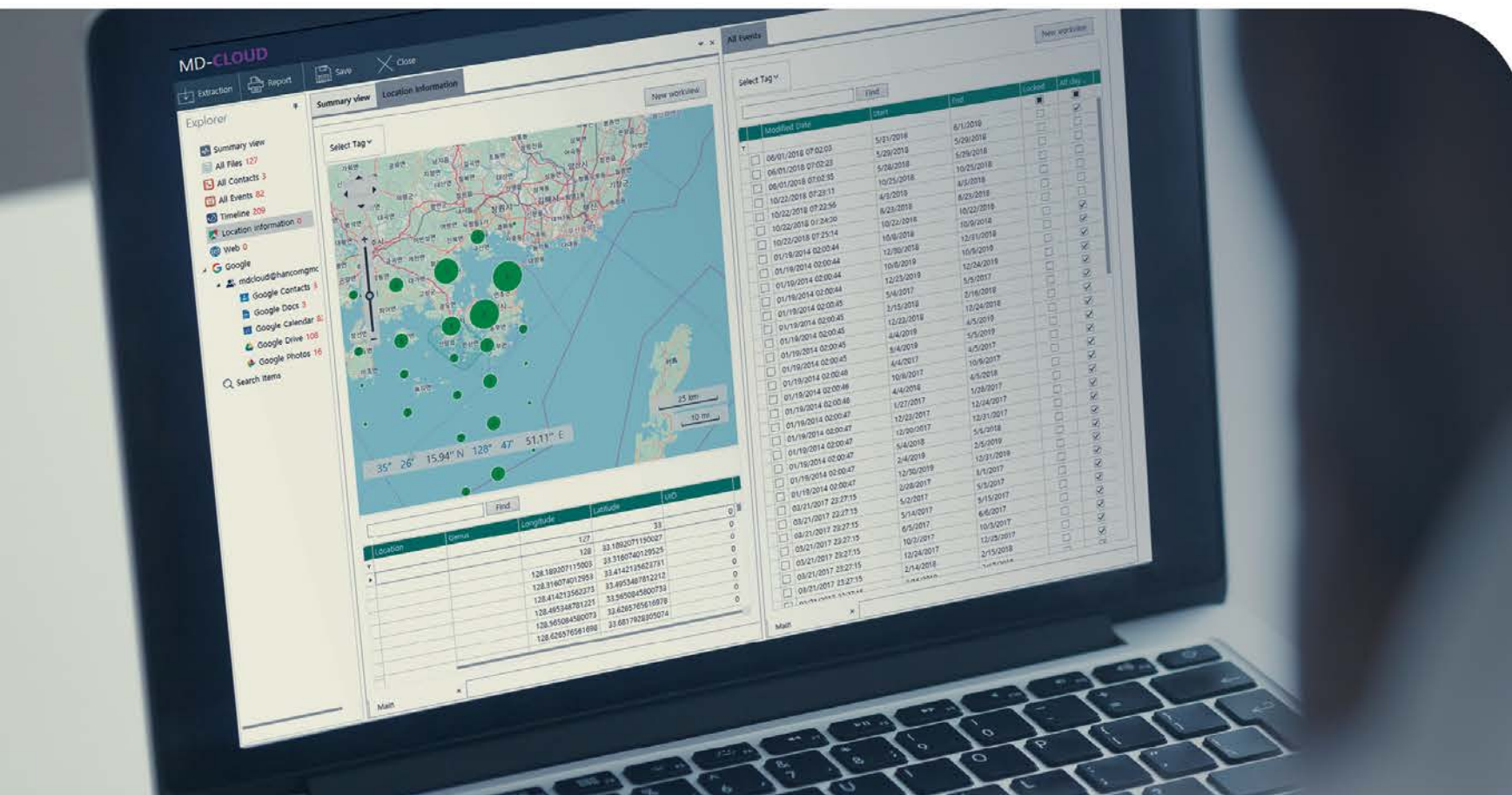
OS : Windows 7/8/10 (64 bit)
CPU : i7 or faster
RAM : 8GB or above
HDD : 1TB or above
Display : 1024x768 or higher
USB : 2 or more USB 2.0/3.0/3.1 ports
Microsoft .Net Framework 4.5

Product components

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

MD-CLOUD

Cloud forensic software for extraction and analysis of cloud data



MD-CLOUD is the most intuitive digital forensic software tool that extract and analyze the data from the cloud data storage. It supports broad range of cloud services.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Supports global cloud service
- IoT cloud and Asian cloud service
- Authentication supports by ID/PWD, 2-step security, Captcha and credentials
- Web capture feature
- Search with tag information
- Interwork with MD-RED

KEY FEATURES

Supports various cloud services acquisition

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

Specialized in Asian Cloud service

- Baidu cloud in China
- Naver cloud in Korea

Acquisition of IoT cloud

- IoT data extraction from AI speaker and Smart home kit
- Official and unofficial APIs for authentication

Supports various authentication methods

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

Web capture feature

- Supports capturing data from web pages without APIs provided

Monitoring the progress of data acquisition

- Supports real-time monitoring progress during data acquisition

User-friendly and easy to use

- Intuitive user interface and quick extract procedure

Interwork with MD-RED

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

Fast 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

Snapshot of filtering option

- Supports snapshot of filter and sort configuration for reuse in workspace

Assurance of evidence data integrity

- Supports 10 hash algorithms such as MD5 and SHA256

Reporting features

- Supports report format such as PDF and Excel
- Supports export of original cloud data files

System Requirements

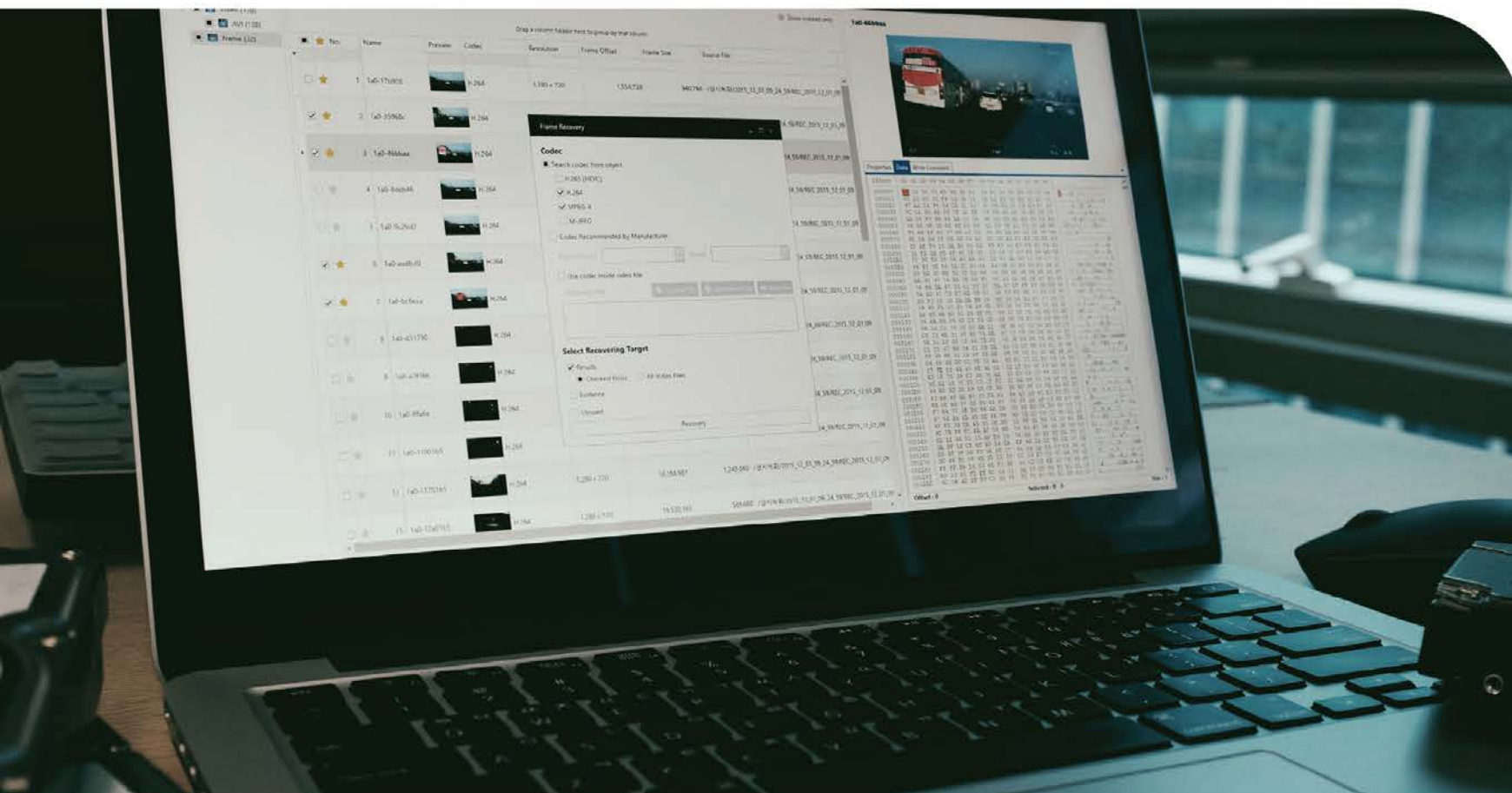
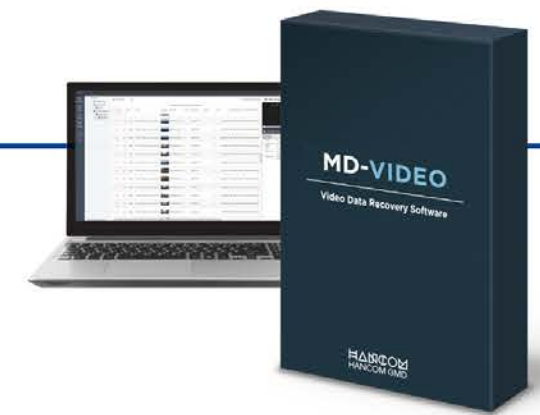
OS : Windows 7/8/10(64bit)
CPU : i5 or faster
RAM : 4GB or above
Display : 1024x768 or higher
USB : 2 or more USB 2.0/3.0/3.1 ports
Network : Internet connection via wired or wireless LAN

Product components

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

MD-VIDEO

Video forensic software for preview, recovery and analysis of video data



SPECIFICATION

PRODUCT HIGHLIGHTS

- Preview, recovery and analysis of video data from CCTV, DVR and Car black box
- Enhanced recovery performance
- Supports various DVR filesystems, video formats, video codecs and audio recovery
- Regenerate video with recovered video frame

MD-VIDEO is the forensic software for extracting and recovering video data directly from the media storage like disk, memory card and corrupted video file

KEY FEATURES

Video forensics for CCTV, DVR, car black box, smartphone and etc

- Supports CCTV and DVR from global manufacturer, car black box, smartphone, desktop, server, IP camera, digital camcorder and camera module in vehicle, drone, wearable and embedded system

3 ways of video data input

- Supports mounted storage like hard disk by physical connection
- Supports binary disk image of DD, E01, BIN and MDF
- Supports file or folder which have damaged or deleted files

3 ways of video recovery

- Filesystem recovery
- Video file signature recovery (DAV, MP4, MOV, MKV, MPEG, SSF, AVI, ZAV, PS)
- Video frame recovery (H.264, H.265, MPEG-4, M-JPEG)

Supports various video filesystem

- Supports auto-detection of filesystem
- Supports FAT, NTFS, exFAT, HFS+, EXT3/4, XFS, DHFS, NtFS, STL and etc.
- Supports DVR manufacturer's filesystem - HikVision, Dahua, Zhilling, Samsung, Bosch, Honeywell, Sony, Panasonic and etc

Supports various video codecs

- Supports H.264, H.265, MPEG4, MJPEG
- H.264 resolution adjustment for recovery
- HEVC (H.265) recovery and replay iOS 11 or above
- Sampling codec from the video file and smartphone codec
- User-defined codec parameter setting

Supports video file scanning

- Frame and file format scan
- Deleted and damaged file scan

Recovery of video frames

- Supports reassemble of frames into video file
- Supports export of video frame as picture
- Supports thumbnail preview and image view

Supports audio file recovery

- Supports audio file recovery for SILK format

Supports recovery of selected partition

- Supports auto-scanning of partition
- Supports recovery of the selected partition

Multi-core CPU/GPU acceleration

- Recovery acceleration with multi-core CPU
- Detection of object acceleration with multi-core GPU (Planned)

Bookmark, filtering, indexing

- Supports book marking for review and reporting
- Supports sorting, filtering and indexing of files and frames

Time adjustment

- Gets time information of video file by analyzing metadata of each frame
- Supports time zone change
- Supports time shifting for adjustment of recorded time

Inbuilt video player

- Multiple play
- Play speed control (1/10X, 1/2X, 2X, 4X, 8X)
- Supports over 300 types of video format (MP4, AVI, MKV, WMV, MPEG, etc.)
- DVR video file play (DAV, ZAV, SSF)
- Video stream play
- Audio play (QCP, SILK and etc.)

Data viewers

- Frame picture viewer
- Hex viewer
- File viewer

File/Format converter

- Export original or converted file
- Supports recovered frame convert to JPG and PNG format
- Supports Video file convert to AVI and MP4 format
- Supports Sound file convert to MP3 and AMR format

Assurance of evidence data integrity

- Supports 10 hash algorithms such as MD5 and SHA256

Reporting features

- Supports report format such as PDF and Excel

System Requirements

OS : Windows 7/8/10 (64bit)
CPU : i7 or faster
GPU : 1 or more multi-core GPU card for acceleration
RAM : 16GB or above
HDD : 8TB or above
USB : 2 or more USB 2.0/3.0/3.1 ports

Product components

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

MD-BOX

Digital forensic hardware for extracting data directly from the board using JTAG interface



KEY FEATURES

Data extraction from the board with JTAG interface

- Forensic hardware for reading data directly from the mainboard of mobile device using JTAG interface

Advanced extraction features

- Supports auto-scanning of partitions
- Supports the selected partition extraction
- Supports extraction without reference voltage
- Supports DMA (Direct Memory Access) type extraction
- Supports resumption of extraction from the halted point

Mobile CPU support

- MSM6XXX, MSM7XXX, APQ, Exynos, OMAP, Cortex - A, Xscale series CPU family

Excellent extraction performance

- Max. 1MB/sec extraction performance

Assurance of evidence data integrity

- Supports write-protection of the evidence data
- Supports 10 hash algorithms such as MD5 and SHA256

JTAG cable support

- Supports FPCB connector cable sets, MD-Cable Suite
- Supports manual connection by soldering work

Image file save using MD-NEXT

- Saves data as MDF image file with MD-NEXT software

MD-BOX is the forensic hardware for extracting data directly from the mainboard using JTAG interface. When the mobile device has damage on the external parts, but the mainboard still works, the examiner can connect the mainboard to MD-BOX through JTAG interface. Then, the data can be extracted at the menu of JTAG Extraction in MD-NEXT program.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Physical extraction for the mainboard with JTAG
- Applicable to the damaged mobile device
- Various Mobile CPU support
- Faster and robust extraction feature
- Write protection and evidence integrity
- Data image file save with MD-NEXT

Product components

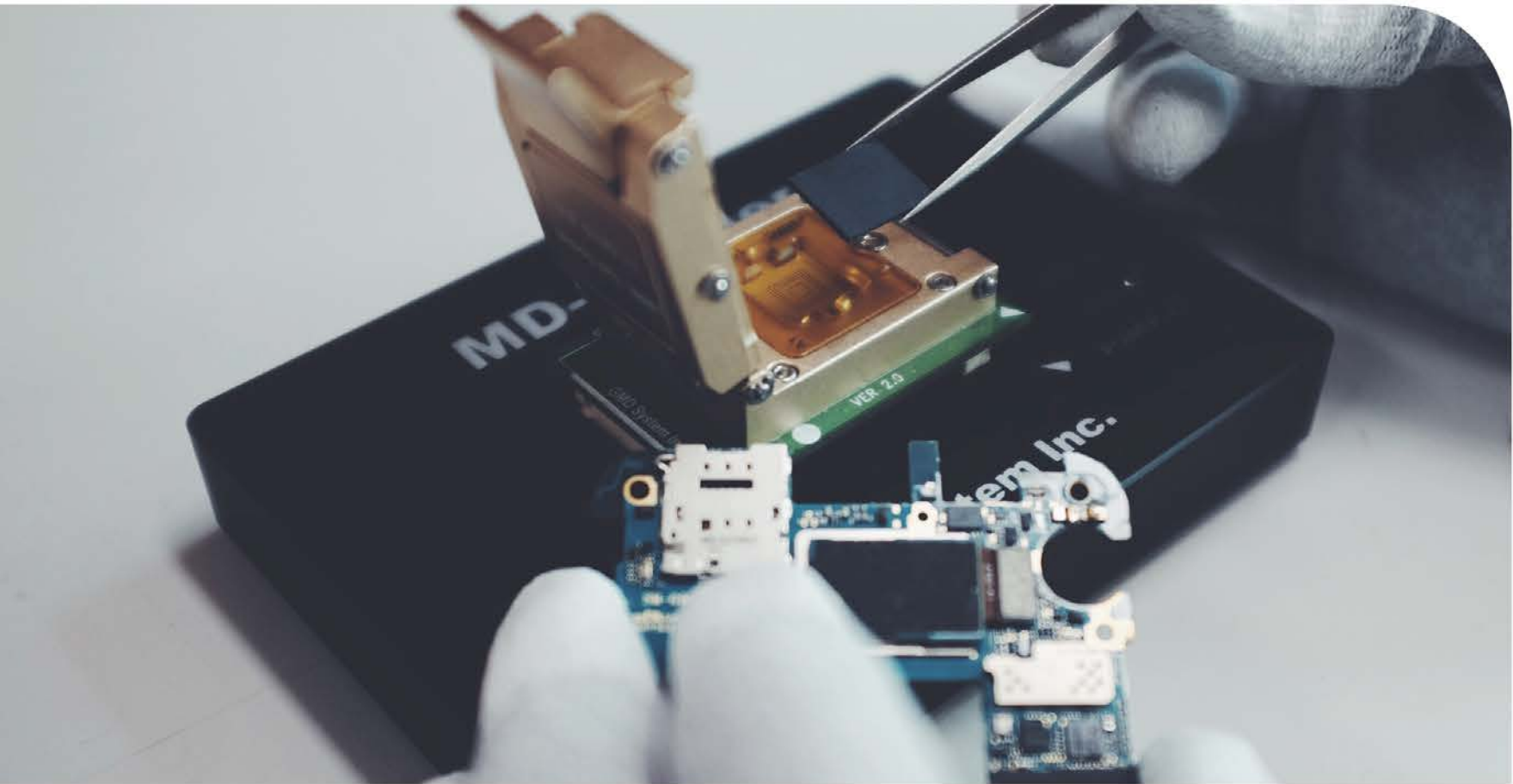
MD-BOX Hardware 1 EA
Probe connector 1 EA
Power adapter 1 EA
USB cable 1 EA
Warranty 1 Year
MD-Carrier (Option)
MD-Cable Suite (Option)

Hardware Specification

CPU: ARM9
RAM: 64Mbytes
Input Voltage: DC 5V/2A
JTAG Clock: 1KHz ~ 50 MHz
Connector Type: 20 Pin Connector
Target Voltage: 1.8V ~ 5.0V
Size: 75 x 120 x 18mm

MD-READER

Digital forensic hardware for extracting data from Chip-off memory



MD-READER is the forensic hardware for extracting data directly from the flash memory detached from the mainboard of digital device. The detached flash memory needs to be mounted into one of the memory sockets bundled with MD-READER. Then, the data extraction can be done at Chip-off menu in MD-NEXT program.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Supports data extraction of Chip-off flash memory
- Supports heavily damaged mobile phones or digital device
- Supports 10 types of eMMC/eMCP memory sockets
- Supports universal SD memory card socket
- Excellent extraction performance
- Write protection and evidence integrity
- Data image file save with MD-NEXT

KEY FEATURES

Data extraction from Chip-off flash memory

- Supports data extraction from the flash memory of mobile phones or digital device heavily damaged by fire, water or external shock.

Supports 10 types of eMMC/eMCP memory sockets

eMMC memory sockets (5 Types)

- BGA153 eMMC - 11.5x13x0.5mm
- BGA169 eMMC - 12x16x0.5mm
- BGA169 eMMC - 14x18x0.5mm
- BGA100 eMMC - 14x18x1.0mm (Option)
- BGA136 eMMC - 10x10x0.5mm (Option)

eMCP memory sockets (5 Types)

- BGA186 eMCP - 12x16x0.5mm
- BGA221 eMCP - 11.5x13x0.5mm
- BGA162 eMCP - 11.5x13x0.5mm (Option)
- BGA254 eMCP - 11.5x13x0.5mm (Option)
- BGA529 eMCP - 15x15x0.5mm (Option)

Universal SD memory card socket

- Supports SD Card, Mini SD Card, Micro SD Card

Selective data extraction

- Supports auto-scanning of partitions
- Supports extraction of selected partition

Excellent extraction performance

- Max. 12MB/sec extraction performance

Assurance of evidence data integrity

- Supports write-protection of the evidence data
- Supports 10 hash algorithms such as MD5 and SHA256

Image file save with MD-NEXT

- Saves data as MDF image file with MD-NEXT software

Product components

MD-READER Hardware 1 EA
Sockets of eMMC or eMCP 5 EA (5+ sockets as option)
Universal SD memory card socket 1 EA
Power adapter 1 EA
USB cable 1 EA
Monthly update license for new models
Warranty: 1 Year

Hardware Specification

CPU: Samsung S5PV210
RAM: DDR256M
Memory: NAND 512M
Input Voltage: DC 5V
Size: 110x140x35mm

MD-MR

Package of digital forensic hardware devices to detach memory from the mainboard of mobile phone or other digital device



MD-MR is the package of hardware devices to detach the memory from the board of mobile phone or digital device. When the device is severely broken, burnt, or drowned, MD-MR is used to prior to Chip-off forensics. MD-MR includes 5 flash memory sockets for MD-READER, heat blower, soldering station, fume extractor, microscope with optional components of mobile device dryer, rework system and mobile device safety box.

SPECIFICATION

PRODUCT HIGHLIGHTS

- Essential devices for manual memory removal
- Optional automatic rework machine, mobile device dryer and safety box

KEY FEATURES

MD-MR Standard devices

- 5 flash eMMC/eMCP memory sockets for MD-READER
- Heat blower for disassemble work
- Soldering station for manual soldering
- Fume extractor for soldering work
- Microscope - Zoom Stereo, 3.5X~180X, Lighting equipment
- Digital microscope with HDMI/USB for PCB inspection

MD-MR Optional devices

Rework Station

- Rework station for small PCB (BK-350S)
- Optimized for mobile phone rework

Mobile device and PCB Dryer

- Dryer for PCB board and small digital device (RG-202)
- Convective drying maintains stable temperature inside
- Safe circuit to prevent the override of heater

Mobile device Safety Box

- Mobile device storage for smartphone and tablet
- Battery charge during storage
- Sterilization
- Digital locking system

Standard devices



Optional devices



Package components

Basic components

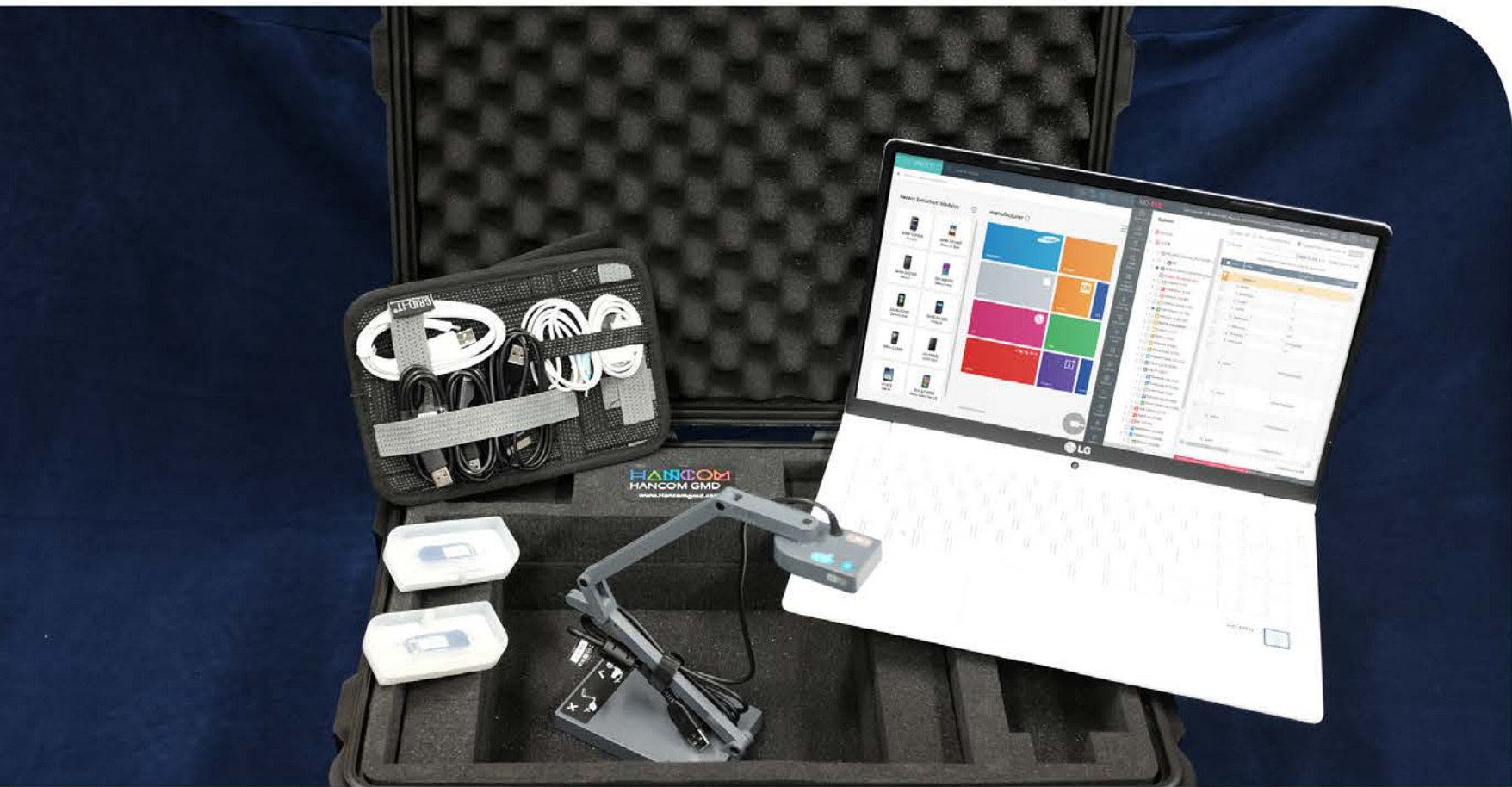
- 5 flash memory sockets for MD-READER 1 SET
- Heat blower for disassemble work 1 EA
- Soldering Station 1 EA
- Fume Extractor 1 EA
- Microscope with lighting 1 EA
- Digital Microscope for PCB inspection 1EA

Option components

- Rework station 1 EA
- Mobile device dryer 1 EA
- Mobile device safety box 1 EA

MD-RUGGED

Mobile forensic rugged package of MD-NEXT/MD-RED for the frontline investigators



MD-RUGGED supports the professional investigation on-site. Data can be extracted and analyzed with MD-RUGGED at the crime scene.

SPECIFICATION

PRODUCT HIGHLIGHTS

- MD-NEXT/MD-RED pre-installed laptop
- All-in-one mobile forensic package for the investigation at the field
- Customizable package components

KEY FEATURES

- Supports data extraction at laboratory level**
 - Supports all logical and physical extraction capabilities at the field
- Supports temporary command center**
 - Workable as a mobile forensic control tower at the very spot where the accident took place
- External camera for Chain of Custody**
 - Photographing evidence and recording of investigation process with external camera for Chain of Custody
- Supports all the necessary forensic accessories**
 - USB cable, SD reader, USIM reader, USB hub, External camera, External HDD

Package components	Laptop Specification
Rugged Carrier 1 EA MD-NEXT/MD-RED Installation Software (CD/USB/Online) USB Dongle Key 1EA High-Performance Laptop 1 EA 5 Types of smartphone cables (5, 8, 20, 30, C-typed pin) HD External Camera 1 EA External HDD 1 EA (for We chat multi-account analysis) SD Reader 1EA USIM Reader 1EA USB Hub 1 EA Portable Printer 1 EA (option) Warranty 1 Year	OS : Windows 7/8/10 (64 bit) CPU : i7 or faster RAM : 8GB or above SSD : 1TB or above Display : 1024x768 or higher USB : 2 or more USB 2.0/3.0/3.1 ports Microsoft.Net Framework 4.5

MD-PORTABLE

Mobile forensic portable package with MD-LIVE for the first responder or triage at the crime scene



MD-PORTABLE supports to quickly respond to the field request by faster and selective collection of the evidence data using MD-LIVE. Triage of mobile evidences and selective acquisition without privacy disclosure can be available with MD-LIVE.

SPECIFICATION

PRODUCT HIGHLIGHTS

- MD-LIVE Pre-installed tablet
- All-in-one package for the first response in the field
- Customizable package components

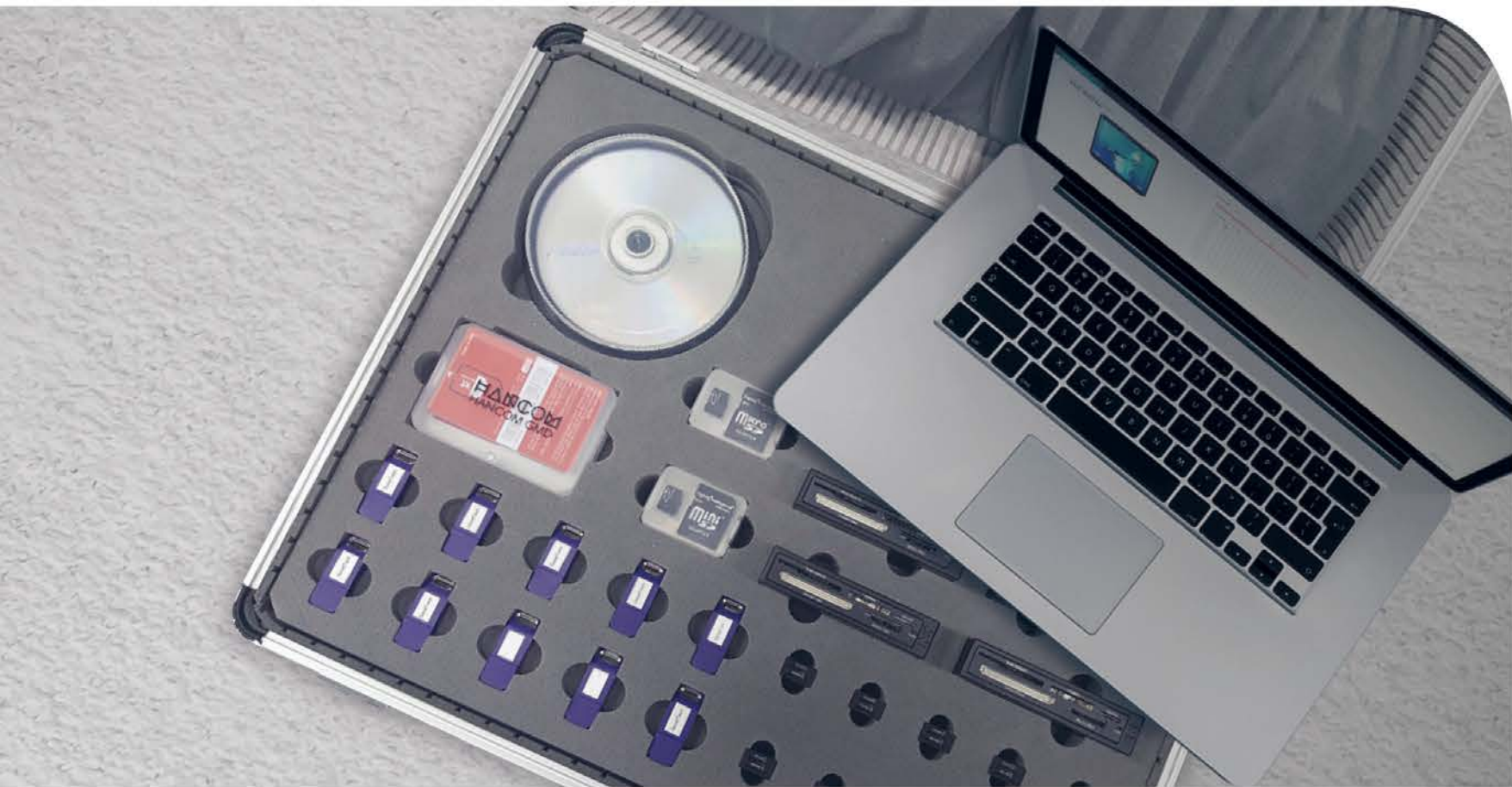
KEY FEATURES

- Portable mobile live forensic tool for on-site use**
 - Portable tablet with MD-LIVE software supports rapid response on site and data acquisition on the move
- Supports faster and secured forensic process**
 - Fast acquisition of selective data using MD-LIVE to secure privacy of phone owner
- Mirroring and remote control of smartphone display**
 - Smartphone screen mirroring and remote control can be used when smartphone display is broken or the prevention of unwanted operation on the phone
 - Mirrored screen can be captured and recorded also as an evidence
- Screen recording of MD-LIVE software**
 - PC screen of MD-LIVE recording to reproduce and verify its forensic process
- External camera for Chain of Custody**
 - Photographing evidence and recording of investigation process with external camera for Chain of Custody
- Supports all the necessary live forensic accessories**
 - USB cables, External camera, Tablet, Portable carrier

Package components	Tablet Specification
Portable Carrier 1 EA MD-LIVE Installation Software (CD/USB/Online) USB Dongle Key 1EA Touch Tablet 1 EA 5 Types of smartphone cables (5, 8, 20, 30, C-typed pin) HD External Camera 1 EA Portable Printer 1 EA (option) Warranty 1 Year	OS: Windows 7/8/10 64bit CPU : i5 or faster RAM : 8GB SSD : 512G Display : 1024x768 or higher USB : 1 or more USB 2.0/3.0/3.1 ports Microsoft.Net Framework 4.5

MD-ACADEMY

Complete set of mobile forensic tools customized for education and training



MD-ACADEMY is the complete set of mobile forensic tools customized for mobile forensic education. MD-ACADEMY is composed of the test materials and the academic version of MD-NEXT, MD-RED for in-depth mobile forensic training and education of the latest mobile forensic technology.

SPECIFICATION

PRODUCT HIGHLIGHTS

- MD-NEXT, MD-RED Academic version
- License and materials set for 1, 5, 10, 20 users
- SD reader, USIM reader, Chip-off memory reader
- Customizable package components
- Textbook and video for the lecturer

KEY FEATURES

Complete set of mobile forensic training

- Training material of manual, basic theory and practice guide
- Academic version of MD-NEXT
- Academic version of MD-RED

Designed for mobile forensic practice

- Smartphone and memory samples, forensic readers and guide video

Effective analysis using the provided sample data

- Provided sample data enable analysis training to be more effective

Customized package set for 1, 5, 10 and 20 users

- MD-ACADEMY package can be customizable by user numbers (1/5/10/20 users)

Package components	Optional components
MD-ACADEMY Carrier for 1/5/10/20 users' package MD-NEXT, MD-RED (Academic version) USB Dongle Keys (1/5/10/20 users) Sample USIM Cards Sample SD Cards SD Memory Readers USIM Readers 5 Types of smartphone cables (5, 8, 20, 30, C-typed pin)	MD-READER demo set Mobile forensics textbook copies Mobile forensics training video Sample smartphones Sample Chip-off memory

TRAINING & CERTIFICATION

Maximize your skills, knowledge and mobile forensic capabilities with HancomGMD

Our certification consists of three courses: an elementary course for professionals, an advanced-level course for examiners and a professional course for specialists.

These courses cover everything about mobile forensics, including both software and hardware products.

All levels of users from beginner to expert can enhance their knowledge on mobile forensics to the point of maximizing their skill, knowledge and ability to conduct their work using MD-SERIES.



HancomGMD Certified Mobile Forensic Professional



HCMP

Certification will equip you with basic mobile forensic knowledge and teach you HancomGMD's mobile forensic software in the data extraction and analysis. This is aimed at practitioners who are new to mobile forensics. Those who hold this certification are given the opportunity to advance their careers in the mobile forensic industry.

Curriculum

- Basic theory of mobile forensics
- Training for mobile forensic tools; MD-NEXT, MD-RED, MD-LIVE, MD-VIDEO

HancomGMD Certified Mobile Forensic Examiner



HCME

It is designed to train mobile forensic examiners in the use of MD-SERIES both software and hardware product. This certification course deals with high level mobile forensic technique with two advanced level curriculums; Mobile forensic analysis theory and physical data extraction course. A HCME certification certifies that an examiner is equipped with a vast depth of understanding and expertise in the use of our total mobile forensic solution.

Curriculum

- | Common | Option |
|---|--|
| <ul style="list-style-type: none"> · In-depth theory of mobile forensics | <ul style="list-style-type: none"> · Advanced mobile forensic analysis theory I <ul style="list-style-type: none"> - Android/iOS Forensics - Database structure, SQLite, Filesystem and Multimedia analysis · Physical data extraction <ul style="list-style-type: none"> - JTAG forensics (MD-BOX) - Chip-off forensics (MD-READER) - Memory removal (MD-MR) |

HancomGMD Certified Mobile Forensic Specialist



HCMS

When the examiner has successfully completed two certification courses of HCMP and HCME, it certifies that the examiner has mastered in-depth mobile forensic investigative technique using MD-SERIES. Furthermore, to be recognized by investigative agencies as a skilled specialist in the mobile forensic sector, an examiner can get the higher-level course of advanced analysis technologies including user-defined analysis course based on python scripting.

Curriculum

- | Advanced mobile forensic theory II | Python analysis scripting |
|--|---------------------------|
| <ul style="list-style-type: none"> · SQLite analysis II · Filesystem analysis II · Multimedia analysis II · Messenger decoding/decryption · APK analysis · Reverse engineering | |

MOBILE & DIGITAL FORENSIC SERVICE

HancomGMD provides one-stop forensic service for law firm, audit and eDiscovery corporation.

It's comprehensive mobile and digital forensic service which includes evidence data acquisition from smartphone, tablet, PC, CCTV/DVR, drone, car, IoT device, cloud service and data analysis on various mobile data, apps, video, audio, documents and so on. Data analysis report and investigation consulting service are provided according to specific client's inquiry.

Service Highlights



Key Services

- 01 One-stop mobile and digital forensic service**
A comprehensive forensic service that provides total forensic solution. It provides evidence data acquisition, data analysis from a wide range of mobile and digital devices and analysis report including entire process recording for Chain of Custody.
- 02 Unlock service & Data extraction**
Data extraction service including screen unlock and decryption for encrypted data partition from smartphone, tablet, PC, CCTV/DVR, drone, car, IoT device and cloud service. It also warrants the integrity of all extracted evidence data.
- 03 Data analysis & Analysis report**
Analysis of extracted data, data recovery, decrypt encrypted data and provide analysis reports.
- 04 Forensic investigation support service**
Provides total forensic investigation service according to specific client's inquiry.
- 05 Legal advisory service for forensic investigation**
Being in partnership with law firms, we provide legal advice on security audit and all the consulting service related to forensic investigation.
- 06 Customized service**
Provides customized forensic service package according to each client's requirement including corporate audit, corruption investigation and an eDiscovery forensics.

DIGITAL FORENSIC LAB SOLUTION

Fully equipped digital forensic laboratory solution for forensic investigators to handle huge variety of different mobile device safe and efficiently

Our digital forensic lab is equipped with the all needed tools and hardware to analyze, identify, preserve, recover and present facts and opinions about the information at hand efficiently.

Digital forensic laboratory supports investigator to handle huge variety of different mobile and digital device with reliable and efficient solutions. It will help your team to analyze evidence in the most efficient way and forensically sound manner.



Physical rework desk

- MD-READER / MD-BOX Hardware
- MD-MR package
- MD-CARRIER package
- MD-Cable Suite for JTAG connection
- USIM reader, SD reader
- Air ventilation for soldering work

Data extraction work desk

- MD-NEXT / MD-LIVE Software
- Workstations / Laptops / Tablets
- Video recording system
- Lighting system
- Cables set

Data analysis work desk

- MD-RED, MD-VIDEO, MD-CLOUD Software
- GPU Workstation/Workstation/Laptop
- NAS storage rack
- 10G network device

Digital devices management

- Smartphone and tablet storage
- Disk storage
- Flash memory storage
- Accessories for smartphone - battery recharger, smartphone cable
- CCTV and door lock

