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WE EMPOWER YOUR INVESTIGATION!

MD-SERIES Complete Mobile & Digital Forensic Solution



We Empower Your Investigation! HancomWITH

We Empower Your Investigation!

HancomWITH is a research group that leads the world in the field of mobile and digital forensics. We have been dedicated to developing forensics solutions that support digital investigations for almost fifteen years. Ourmobile and digital forensics solution, MD-SERIES, has been provided to hundreds of global investigative agencies since 2005. Since then, our products and technologies have satisfied and exceeded our clients' demands and expectations. We believe our sincere service and passion for the development of new technology are well recognized by our customers. We are constantly engaged with our clients and are now growing quickly to become one of the top mobile forensic companies across the globe.

BUSINESS AREA





WHY HancomWITH?



| | S |
|-----------------------------------|---|
| MODELS | 2,000 Apps FOR Android AND iOS |
| TIONS | SUPPORTED |
| | |
| EARS I EXPERIENCE FORENSICS | 9 Patents HANCOMGMD'S PATENTED INNOVATIVE TECHNOLOGY |
| | lew digital forensic software solution; loud/Video/IoT/Drone/Vehicle |
| 07 | Jser-friendly UI with rich experience |
| S | Online package updates and ubscription of new devices and the itest app version |
| | n-depth mobile forensic training & ertification courses |
| | xperienced in mobile forensic laboratory stablishment and management |



MD-SERIES PRODUCT OVERVIEW

Complete 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

Forensic Software Solution for Live Data Extraction and Analysis from Smartphones which supports the First responders

MD-NEXT

Forensic Software Solution for performing Data Extraction on Smartphone, Feature phone, Drone, Smart TV, Wearable device, IoT device, USIM card, SD memory card, JTAG, and Chip-off memory

MD-RED

Forensic Software Solution for Recovering, Analyzing, and Reporting on Extracted Mobile and Digital Data

Mobile Forensic Hardware



MD-BOX

Forensic Hardware Solution for Extracting Data directly from the Motherboards of Mobile devices through the JTAG interface

MD-READER

Forensic Hardware Solution for Reading Data after performing Chip-Off Forensics -Extracting Data directly from a Detached Memory Chip pulled from the Motherboard of a Mobile phone

MD-MR

Package of Forensic Hardware devices for physically removing the memory chips from the motherboards of mobile phones when performing Chip-Off Forensics

Digital Forensic software



MD-VIDEO

Mobile Forensic Packages

MD-RUGGED

Mobile Forensics Package Solution for performing investigation in Portable Forensics Centers or Directly On-site at the crime scene





MD-ACADEMY

Academic Training Package, containing all the necessary equipment for Mobile Forensic Education

MD-SERIES Selection Guide

| | Device type | Ext |
|---|--|-----|
| | Smartphone Live data extraction and analysis in the field | 12 |
| Þ | Mobile device Data extraction and analysis for Smartphone, IoT, Drone and Embedded HW | |
| | JTAG board Data extraction from board with JTAG interface | N |
| | Chip-off memory Data extraction from physically removed Flash memory | MD |

Cloud Forensic Software Solution for Extraction and Analysis of Cloud data

Video Forensic Software Solution for Preview, Recovery, and Analysis of Video data

MD-PORTABLE

Portable Mobile Forensics Package Solution for performing Live data Acquisition and



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MD-LIVE

Mobile forensic software for on-the-spot investigation performing live extraction and analysis on mobile devices



MD-LIVE is a mobile forensic solution for quickly performing logical extraction and data analysis on live mobile devices. It also supports a number of legal compliance the forensic process. MD-LIVE also supports the use of a separate camera for recording

SPECIFICATION PRODUCT HIGHLIGHTS

- Mobile forensic software solution for on-the-spot investigation and forensic triage
- The best forensic tool for acquiring data from witnesses' or victims' smartphones
- Selective acquisition of evidence data for privacy protection
- Mirroring, recording, and capturing smartphone display
- Supports the use of an external camera for recording the forensic process (for auditing or legal compliance purposes)
- Convenient and straightforward experience with an intuitive user interface
- High speed analysis engine allows for minimal work time and automated steps

KEY FEATURES

Selective extraction and analysis of evidence data

- Data unrelated to the case can be excluded from selection and analysis
- Important apps can be scanned based on time and frequency of use

Processed evidence data presented just like a real smartphone display

Integrated data viewers

Mirroring and remotely controlling smartphone display

- won the device
- The mirrored display can be also captured and recorded as evidence

MD-LIVE software screen recording

• The PC screen recording feature can record forensic processes performed in MD-LIVE for reproduction and verification purposes

Easy and concise experience

· Post-extraction analysis is automated, making the investigation process even faster

Reporting features

 Supports report formats such as PDF, Excel, and SQLite DB Supports saving reports and dump images to USB/DVD

External standing camera (Option)

Optional standing camera offered for taking photos of evidence device and its display or for recording the investigation procedure

System Requirements

OS: Windows 7/8/10 (64 bit) CPU: i5 or faster RAM: 8GB or above Storage: 256G or more Display: 1200x700 or higher USB: 2 or more USB 2.0 ports Microsoft.Net Framework 4.6.2



· Minimizing extraction of unnecessary data reduces the time spent on the site and protects the privacy of those involved

The view interface is themed and presented like a smartphone app, allowing users to quickly and intuitively identify evidence data

Users can view evidence files such as photos, videos, audio, documents, maps, and website browsing history directly in the software

• The smartphone display mirroring and remote-control feature can be used to circumvent a broken display or to prevent any unwanted operations

Product components

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

MD-NEXT

Data extraction software for smartphones, feature phones, drones, smart TVs, wearables, IoT devices, USIM cards, SD memory cards, JTAG boards, and chip-off memory



MD-NEXT is our forensic software solution

SPECIFICATION PRODUCT HIGHLIGHTS

- Data extraction from smartphones, feature phones, IoT devices, smart TVs, drones, chip-off memory, and JTAG boards
- Powerful extraction tools for devices from Asian manufacturers (Samsung, LG, and Chinese brands)
- Supports all physical extraction methods Bootloader, [...], and Removable Media
- Supports all logical extraction methods Filesystem, [...], and MTP
- Unlock latest Samsung and Chinese phones (Oppo/Vivo/Huawei/Xiaomi)
- iOS backup file decryption and keychain extraction
- Selectively extract based on partitions, files, categories, and apps

KEY FEATURES

The perfect data extraction tool for diverse mobile and digital de • Supports data acquisition for various global smartphone manufac

(Samsung/Apple/LG/HTC/ZTE) models

- Support Chinese Manufacturerd devices (Huwei/Xiaomi/Oppo/Vivo, Supports extraction of IoT device, AI Speaker, Smart TV and Drone

Advanced physical extraction features

- Supports Bootloader, Fastboot, MTK, QEDL, Custom Image Android R iOS Physical, DL, JTAG, Chip-off, SD Card, Removable Media
- ADB Pro extraction which supports data acquisition using vulnerabili
- attacks from Android-based devices
- ЛАG pin map viewer and connection scanning with AP
- Drone data extraction DJI (Phantom, Mavic), Parrot, PixHawk Al Speaker Chip-off extraction - Amazon Echo, Kakao Mini, Naver Clov

Supports diverse physical data reader hardware • JTAG Reader (MD-BOX)

- Memory Chip Reader (MD-READER)
- SD Memory Reader and USIM Reader

Advanced logical extraction features • Supports Android Live, MTP, iOS full filesystem Backup, Vendor backu protocol, Local backup, USIM

Supports extraction and decryption of the latest Asian phone

 Physical extraction through all lock bypass (KNOX, FRP/OEM, Screen I Samsung Galaxy S/J/A/Note series

- Unlock screen: Samsung Galaxy S/J/A/Note series
- ADB Pro physical KNOX bypass Samsung Galaxy S/J/A/Note series
- Vendor Backup protocol extraction Samsung, LG, Huawei
- · Local backup extraction Huawei, Xiaomi, Oppo, Gionee
- Physical extraction for Japanese manufacturer model Sharp, Sony

Supports the latest iPhone logical extraction

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

Selective extraction for privacy protection

Supports selective acquisition of partition, file, category, and app

System Requirements

OS: Windows 7/8/10 (64 bit) CPU: i5 or faster RAM: 4GB or above Storage: 1TB or above Display: 1024x768 or higher USB: 2 or more USB 2.0 ports Microsoft.Net Framework 4.6.2



| evices cturers | Special extraction features Supports user-defined extraction for unlisted models using pre-defined methods | |
|-------------------|---|--|
| ,etc.) | Supports Google cloud drive extraction | |
| Rooted, ity | Useful extraction utilities Supports auto recognition and decryption of partition table and encrypted partition Supports automatic firmware restoration and retrial after restoration failure Supports pausing/resuming extraction Supports merging multiple image files – MDF and binary file Supports creating MDF file from PC backup | |
| va | Assures evidence data integrity • Supports write-protection for every piece of evidence • Supports ten different hash algorithms, including MDS, SHA1/224/256/384/512, RIPEMD128/160/256/320 • Excellent extraction performance – maximum 32GB/20min • Support multiple device extraction • Supports both simultaneous and sequential extraction | |
| ip | User-friendly and easy to use Intuitive graphical user guide for each extraction method Features' Recently Selected models' List | |
| Lock): | Data preview and save Supports preview of the extraction data - Hex viewer Sound alarm and TTS alarm for extraction status change | |
| | Reporting features Extraction information - Hash value, Time, Method and Filename Supports 'Extracted File List' generation with a hash value of each file Constant Wittense Document' Parcet | |

Generate Witness Document' Repor

Product components

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

MD-RED

Data analysis software for recovering, decoding, decrypting, visualizing, and reporting evidence data from mobile and digital devices



MD-RED is our forensic software solution for recovering, decrypting, visualizing, performing analytic data mining, and reporting evidence data that's been extracted with MD-NEXT or another analogous extraction tool. The analysis results output by MD-RED can be exported as forensic reports for crime and accident investigations. In addition, as a result of our continuous ongoing research, MD-RED's mobile app analysis engine is constantly being updated with support for analyzing the latest apps

SPECIFICATION

PRODUCT HIGHLIGHTS

- Supports analysis and recovery for a number of filesystems and over 2,000 mobile apps
- Supports decryption of encrypted instant messaging apps
- Provides quick updates and rolling support for new versions of apps
- Supports social relationship analysis
- Supports drone and IoT analysis
- Supports post-analysis data visualization
- Includes built-in Python script editor for custom application analysis

KEY FEATURES

Supports wide variety of mobile operating systems and devices

Supports Feature phones, Smartphones and various other digital devices
 Supports iOS, Android, Windows, Tizen and other mobile operating systems

Parsing and Recovery of various filesystems

- Support for FAT12/16/32, exFAT, NTFS, ext3/4, HFS+, EFS, YAFFS, FSR, XSR,
- F2FS, VDFS, XFS, DVR filesystems
- Supports data carving of unused areas

Supports analysis of mobile data over 2,000 popular mobile apps

- Multimedia files taken with device camera
 Call logs, Address book information, SMS/MMS messages, emails, Memos,
- and Internet history
- Social networking, maps, navigation, banking, health, and lifestyle apps
 Detection of Anti-forensic apps

Maximized performance

- High speed analysis achieved through multi-core CPU/GPU parallel processing
- \cdot Supports running multiple instances of the program (i.e.: one instance for each open case)

Data Decryption

- Supports identifying encrypted documents
- Supports decryption of chat messages, emails, files, and other app data

Deep analysis on popular messenger apps

- Deserialization, decryption, and recovery of data Skype, Facebook messenger, Telegram, Wickr, QQ, KakaoTalk, Line, Zalo,
- Viber, Snapchat, and many more
- WhatsApp Multiple backup file analysis
 WeChat Multiple account analysis, rainbow table analysis

- Supports decoding screen lock and password informatio • Supports decoding unlock patterns, PINs, and passwords
- Supports brute force through GPU acceleration
- Supports iPhone keychain data analysis

Multimedia data recovery and analysis

- Supports frame recovery for deleted/damaged video files
 Supports the use of Reference Data Set (RDS) for excluding over 6.7M
- known unusable images from analysis result data
- Supports audio file conversion (From AMR/AUD/QCP/SILK to MP3/AMR/WAV)
- Supports playing QCP files and SILK-encoded audio

New digital device analysis

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

System Requirements

OS: Windows 7/8/10 (64 bit) CPU: i7 or faster RAM: 8GB or above Storage: 1TB or above Display: 1024x768 or higher USB: 1 or more USB 2.0 ports Microsoft.Net Framework 4.6.2



Log analysis

Supports analysis of various logs: media, search word, system, and network logs (Bluetooth, WiFi, Cell towers)

Social relationship analysis

- Provides Basic/Advanced modes for analyzing single/multiple phones
- Supports call, messenger, and email communication data analysis
- Supports filtering by app, time period, contact(s), and type(s) of communication
- Supports community analysis
- · Supports relationship visualization and automatic re-organizing

Embedded data viewers

- View extracted data directly in-application
 SQLite databases, HEX, PLists, Documents (Text, XML, CDF, PDF, MS Office,
- ZIP, Executable, Encrypted), Photos, Videos, and Audio

Visualization of analyzed data

- Map viewer for GPS and cell tower location data
- Offline / Online map (Region / Country / City view levels)
- Timeline view
- Link viewer (social relation ship visualizer)
- Chat viewer
- Web browser view (for internet browsing history)

Advanced data filtering options

- Supports filtering by a variety of properties such as filesystem, signature, and time
- Supports dynamic filtering operators, sorting, and grouping
- Supports searching by regular expression
- Supports keyword registration
- Supports bookmarking selected data

Python scripting IDE for user-defined analysis

Includes a Python script editor
 Supports generating, executing, and debugging code and includes sample scripts

Case management and hash value verification

- Supports various case management features
- Supports grouping extraction images
- Supports hash value verification on a per-image basis

Reporting features

- Supports hashing of individual files
- Supports export of analyzed multimedia
- Supports automatic report generation (PDF, Excel, HTML, and SQLite DB formats)
- \cdot Supports 3rd party reporting formats like Nuix and Relativity

Product components

MD-RED Installation Software (CD/USB/Online) USB Dongle Key 1 EA External HDD for WeChat analysis Warranty 1 Year

MD-CLOUD

Digital forensic software for extraction and analysis of cloud account



MD-CLOUD is the most intuitive digital forensic software tool that extracts and

SPECIFICATION

PRODUCT HIGHLIGHTS

- Supports global cloud service
- Supports IoT cloud and Asian cloud service
- Authentication supports by ID/PASSWORD, 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, Samsung Cloud, Naver cloud, IMAP/POP3, Evernote, One Drive, Twitter, Baidu

Specialized in Asian Cloud service

- · Baidu cloud in China
- Naver cloud in Korea

Acquisition of cloud accounts for IoT devices

- · IoT data extraction from AI speaker and Smart home equipment
- Public or non- public APIs authentication

Supports various authentication methods

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

Web capture feature

· Supports web capture when cloud acquisition does not offer API

Real-time acquisition status check

· Monitors data acquisition in real time

Easy user-friendly use

Intuitive user interface and guick data extraction

System Requirements

OS: Windows 7/8/10(64bit) CPU: i5 or faster RAM: 4GB or above Display: 1024x768 or higher USB: 1 or more USB 2.0 ports Network: Internet connection via wired or wireless LAN



Interwork with MD-RED

· Acquire data with credentials information analyzed by MD-RED

Cloud Data tion & Analysis Softw

HANCOM COM

Simple search using 'Tag' feature

· Supports easy and fast search with pre-categorized 'Tag'

Various built-in viewers

· Supports preview of Image, video, document, web page, and email

Snapshot of filtering option

· Supports snapshot of the filter and sort configuration for reuse in the workspace

Assurance of evidence data integrity

· Guarantees integrity of evidence data based on powerful hash algorithms such as MD5 and SHA256

Reporting features

· Supports report format such as PDF and Excel

Product components

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

MD-VIDEO

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



MD-VIDEO is the digital forensic software for extracting and recovering video data

SPECIFICATION

PRODUCT HIGHLIGHTS

- Supports preview, recovery and analysis of video data from CCTV, Car Dashboard Camera, Camcorder, and Smartphone.
- Supports various DVR filesystems, video formats, video codecs
- Regenerate video with recovered video frame

KEY FEATURES

Video data forensics from CCTV, car black box, smartphone, media storage

· Global manufacturers' IP-CCTV and key manufacturers' Car Dashboard Camera, Smartphone, Desktop, Server, Camera, Camcorder and Drone, Wearable device and Embedded system

3 types 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 has damaged or deleted files

3 types 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 file system

- · Supports auto-detection of the filesystem • FAT 12/16/32, NTFS, exFAT, HFS+, EXT3/4, TAT16, HIKVISION, DHFS4.1, XFS, F2FS, VDFS
- · Supports DVR manufacturer's filesystem HikVision, Dahua, Zhiling, Samsung, Bosch, Honeywell, Sony, Panasonic, etc.

Supports various video codecs

- · Supports H.264, H.265, MPEG4, M-JPEG
- · H.264 resolution adjustment for recovery
- HEVC (H.265) recovery and iOS 11 or higher model media playback
- · Supports 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

- · Reconstructs the frame of video files · Extracts image frames with pictures
- · Supports thumbnail preview and image view

Supports audio file recovery

Supports audio file recovery for SILK format

System Requirements

OS: Windows 7/8/10 (64bit) CPU: i7 or faster GPU: 1 or more multi-core GPU card for acceleration RAM: 32GB or above Storage: 8TB or more USB: 2 or more USB 2.0/3.0/3.1 ports Microsoft.Net Framework 4.6.2





Bookmark, filtering, indexing

Recovery of the selected partition

Multi-core CPU/GPU acceleration

· Supports auto-scanning of partition

Supports recovery of the selected partition

· Recovery acceleration with multi-core CPU

- Supports bookmarking for examination and report
- · Supports arraying, filtering, and indexing of files and frames

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

Extracts time information

· Get time information for image files through metadata analysis of each frame

Inbuilt video player

- · Multi-channel videos playback
- Play speed control (1/10X, 1/2X, 2X, 4X, 8X)
- · Supports more than 300 image formats (MP4, AVI, MKV, WMV, MPEG, etc.)
- DVR video file (DAV, ZAV, SSF)
- Video stream playback
- Audio play (QCP, SILK, etc.)

Data viewers

- · Frame picture viewer
- Hex viewer
- File viewer

File/Format converter

- · Export original or converted file
- Supports multi-channel image separation storage when extracting files
- Supports recovered frame to convert to JPG and PNG format
- Supports video file convert to AVI and MP4 format
- · Supports audio file convert to MP3 and AMR format

Assurance of evidence data integrity

· Guarantees integrity of evidence data based on powerful hash algorithms such as MD5 and SHA256

Reporting features

Supports report format such as PDF and Excel

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 mobile phone motherboards through the JTAG interface



MD-BOX is our forensic hardware solution mobile device has survived despite external damage to the phone, a forensic examiner can use MD-BOX to connect to it through the JTAG interface. From there, the data can

SPECIFICATION

PRODUCT HIGHLIGHTS

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

KEY FEATURES

Data extraction from the board with JTAG interface

· Forensic hardware for reading data directly from the main board of the 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

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) FPCB 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 our forensic hardware

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 the selected partition

Excellent extraction performance

Max. 12MB/sec extraction performance

Assurance of evidence data integrity

· Supports write-protection of the evidence data \cdot 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

Digital forensic hardware package for detaching memory from motherboards of mobile phones and other digital devices



MD-MR is our forensic hardware package digital device. When a device has sustained damage from physical force, fire, or water exposure, MD-MR can be used to prepare it for Chip-Off forensics. MD-MR includes five flash memory sockets for MD-READER, a heat blower, a soldering station, a fume extractor, and a microscope along with optional components such as the 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 disassembling 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

Standard devices





> 5 flash memory sockets

> Heat blower for Soldering Station dissemble work

Optional devices



> Rework station

Package basic components

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



MD-MR Optional devices

Rework Station

- Rework station for small PCB (BK-3505)
- Optimized for mobile phone rework

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

Mobile device Safety Box

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





> Fume Extractor



Microscope



Digital microscope with HDMI/USB



> Mobile device dryer



> Mobile device Safety Box

Package option components

Rework station 1 EA (Option) Mobile device dryer 1 EA (Option) Mobile device safety box 1 EA (Option) Warranty 1 Year

MD-RUGGED

Rugged mobile forensics hardware and software package for frontline investigators



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

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 the 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

 \cdot A USB cable, SD reader, USIM reader, USB hub, External camera, and External HDD

Package components

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 Wechat multi-account analysis) SD Reader 1EA USIM Reader 1EA USB Hub 1 EA Portable Printer 1 EA (option) Warranty 1 Year

Laptop Specification

| | OS: Windows 7/8/10 (64 bit) |
|-----|--------------------------------------|
| ne) | CPU: i7 or faster |
| | RAM: 8GB or above |
| | SSD: 1TB or more |
| | 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 a faster and selective collection of the evidence data using MD-LIVE. Triage of mobile evidence 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
- Customízable package components

KEY FEATURES

Portable mobile live forensic tool for onsite use

Portable tablet with MD-LIVE software supports rapid response onsite and data acquisition on the move

Supports faster and secured forensic process

· Fast acquisition of selective data using MD-LIVE to secure the 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.

The mirrored screen can be captured and also recorded as an evidence

Screen recording of MD-LIVE software

· PC screen of MD-LIVE recording to reproducing 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

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

Tablet Specification

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
- · The academic version of MD-NEXT
- The academic version of MD-RED

Designed for mobile forensic practice

 \cdot Smartphone and memory samples, forensic readers and guide video

Practical analysis using the provided sample data

· Provided sample data enable analysis training to be more effective

The 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

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)

Optional components

MD-READER demo set Mobile forensics textbook copies Mobile forensics training video Sample smartphones Sample Chip-off memory

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HANCOM WITH

TRAINING & CERTIFICATION

Maximize your skills, knowledge and mobile forensic capabilities with HancomWITH

HancomWITH provides an extensive set of certified courses composed of certification courses, mobile forensic training courses, webinars and other training materials. Covering all levels of knowledge from beginner to expert, each course provides students with a detailed understanding of mobile forensics as well as up-to-date forensic knowledge. If you are looking for an education in mobile forensics, our training team is waiting for you. Select a course suited to your level and obtain what you need here.



HCMP

HCMP certification will equip you with basic mobile forensics knowledge and teach you to make practical use of HancomWITH's mobile data extraction and analysis software. This certification 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 forensics industry.

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

HancomWITH Certified Mobile Forensic Examiner

HCME

HCME certification is designed to train mobile forensic examiners in the use of both HancomWITH's MD-Series hardware and software products. This certification deals with high level techniques for handling Android and iOS-based smartphone forensics and various kinds of analysis methods. An HCME certification certifies that an examiner is equipped with a vast depth of understanding and expertise in the use of HancomWITH's complete mobile forensic solution.

Physical data extraction · JTAG forensics (MD-BOX) · Chip-off forensics (MD-READER) Memory removal (MD-MR)

HancomWITHCertified Mobile ForensicSpecialist **HCMS**



HCMS certification certifies that an examiner has successfully completed all the contents of the certification course and mastered in-depth mobile forensic investigative methodology. Recognized by investigative agencies as a skilled specialist in the mobile forensics sector, an HCMS certified examiner can manage matters of all sizes, including real-world application analysis based on Python scripting.

Advanced mobile forensic theory II

· SQLite analysis II Filesystem analysis II · Multimedia analysis II · Messenger decoding/decryption · APK analysis · Reverse engineering





We Empower Your Investigation!

HancomWITH

MOBILE & DIGITAL FORENSIC SERVICE

HancomWITH provides one-stop forensic service for a law firm, audit, and eDiscovery corporation. It's comprehensive mobile and digital forensic service which includes evidence data acquisition from a Smartphone, Tablet, PC, CCTV/DVR, Drone, Car, loT device, Cloud service and data analysis on various mobile data, apps, videos, audios, documents and so on. Data analysis report and investigation consulting service are provided according to the specific client's inquiry.

Service Highlights





Key Services

| 01 | One-stop mobile and digital forensic service A comprehensive forensic service that provides a co data analysis from a wide range of mobile and digita for a chain of custody. |
|----|---|
| 02 | Unlock service & Data extraction Data extraction service including screen unlock and Tablet, PC, CCTV/DVR, Drone, Car, IoT device, and C data. |
| 03 | Data analysis & Analysis report Analysis of extracted data, data recovery, decrypt end |
| 04 | Forensic investigation support service Provides a complete forensic investigation service ac |
| 05 | Legal advisory service for forensic investigation Being in partnership with law firms, we provide lega to forensic investigation. |
| 06 | Customized service Provides customized forensic service package acco corruption investigation, and an eDiscovery forensics |

complete forensic solution. It provides evidence data acquisition, tal devices, and analysis report, including entire process recording

d decryption for encrypted data partition from the Smartphone, Cloud service. It warrants the integrity of all extracted evidence

ncrypted data, and provide analysis reports.

according to the specific client's inquiry.

gal advice on security audit and all the consulting service related

cording to each client's requirement, including corporate audit, cs.

We Empower Your Investigation!

HancomWITH

DIGITAL FORENSIC LAB SOLUTION

Fully equipped digital forensic laboratory solution for forensic investigators to handle a massive 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.

The digital forensic laboratory supports investigator to handle a vast 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 analysis work desk

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





Data extraction work desk

- MD-NEXT/MD-LIVE Software
- Workstation/Laptop/Tablet
- Video recording system
- Lighting system
- · Cables set

Digital devices management

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

MEMO

