



# iXAM®

Zero-Footprint Forensic Acquisition for  
Apple iPhone™ & iPod Touch™



**iXAM®** - an iPhone™ and iPod Touch™ forensic imaging and data analysis suite comprising two key applications to allow fast and comprehensive forensic examination and reporting of live and deleted data stored on these unique devices.

**iXAM - Forensic data imaging tool:** Uses a proprietary method which requires no modification to the device Operating System and leaves absolutely no trace on the target device. This tool has 2 extraction modes to allow investigators to perform the appropriate level of examination based on importance of the device and the time available.

**Forensic Imaging Mode:** A full 'byte for byte' physical memory space image, which includes deleted data and unallocated memory space. Includes audit logging & MD5/SHA1 hash validation of every memory block.

**Logical Imaging Mode:** Allows an investigator to perform targeted acquisition of specific key live data sets, but still using a physical imaging technique to download the data.

**iXAMiner™ - Decoding and reporting tool:** Enables investigators to interpret and present the results of a data acquisition performed using iXAM.

Manual data carving of iPhone data is time consuming and requires expertise and knowledge to search for case-relevant evidence. iXAMiner automates this procedure enabling an investigator to quickly produce a detailed and comprehensive forensic report. Even files encoded in a proprietary Apple™ format are decoded and presented. The software consolidates the many different file types in to one evidence workbook, increasing workflow rates and allowing vital data to be presented in an easy to read and consistent format.

iXAMiner creates a Microsoft® Excel® based report suitable for evidential submission or for exporting into other data analysis applications.

## Features of iXAM®:

- 'Zero-footprint' forensic imaging
- No jail breaking or OS modification required
- Pass code and encryption bypass
- Radio Isolation (GSM, WiFi & Bluetooth)
- Cable based USB data download
- Full disk imaging or logical extraction
- Audit logging & MD5 / SHA1 hash validation
- Virtual Machine support

**iXAM®** can typically recover the following information where available:

### Phone & User information:

- ICCID/IMSI of last SIM card
- IMEI/Firmware version
- Call register with incoming / outgoing call durations
- SMS / MMS messages (with media files)
- Address book (including sub categories) and Speed dials
- Calendar entries, Notes and Task entries
- User specified dictionary words
- Voicemail (potentially everything received over the lifetime of the handset)

### E-Mail and Web information:

- E-mails (plain text) & E-mail accounts used
- Extract and reproduce e-mail attachments
- Internet bookmarks (including last visited date)
- Internet cookies (including websites visited and creation/expiry time stamps)
- Internet history (including active and historically viewed web pages)
- Content downloads

### Media and Device information:

- Still image files, Video files & Audio clips
- GeoTag data (including time/date and location - i.e. latitude and longitude of the image)
- GPS location fixes (For 3G iPhone) These include latitude, longitude, altitude and time and date.
- Map locations (latitude, longitude and search terms)
- Wireless Network details (including router IP/MAC/Subnet, domain name and last connection time)
- Bluetooth pairings (including device names, MAC addresses and PIN numbers for pairing)
- Current time zone offset (not available on all firmware versions)
- Application screen snapshots

iXAM users benefit from ongoing research and development as FTS continues to increase device support and the range of live and deleted data recoverable from the Apple iPhone and iPod Touch. Regular updates and software support are included with each seat licence.

Please note: iXAMiner does not currently report deleted data. Carving of a full memory image file is required to recover deleted information.





## CONTACTS

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**Mobile Phone and SIM Card Forensics**



**HEX M-FILTER® Chip Level Forensics**



**Hi-Tech Device, SatNav and Computer Forensics**



**Cell Site Analysis and Expert Witness Services**



**Specialist Investigator Training Services**

Forensic Telecommunications Services Ltd. (FTS) is a world leader in the advanced extraction, analysis and presentation of data from mobile telephones, cellular networks and all forms of computing and mobile communications technology.

FTS delivers specialist technical services and unique data extraction tools to a wide range of security services, police forces, legal services and corporate clients. Through the provision of highly specialised software, hardware and training solutions the company also supports the activities of law enforcement and internal security agencies all over the world.

Based in the UK with offices in Europe and the USA, FTS has provided advanced technical services since 2000, developing the experience and technical expertise to enable the delivery of Best Evidence as a standard. Building on this solid foundation, the business is managed and staffed by qualified individuals from the telecommunications industry and by experienced former police investigators.

An accredited ISO 9001:2008 company, FTS is committed to achieving the internationally recognised ISO standards relevant to the delivery of forensic services and software products, including ISO 17025:2005 and ISO 27001:2005. A strong emphasis is placed on best practice and audited forensic processes to ensure the constant fidelity, integrity and credibility of all FTS's data output and products.

Fundamental to FTS's ongoing success is a significant and continuing dedication to independent research and development, specifically the advancement of e-forensic extraction techniques, specialist telecoms products and the validation of digital forensic processes. It is through this continued commitment to quality, improvement and stability that FTS is assuring its long-term ability to deliver Best Evidence through Best Practice, thereby guaranteeing Best Value.

