



Smartwatch Forensics

Get the extra evidence from the most popular wearable devices



Smartwatches are the world's most popular wearable devices with unquestionable importance when it comes to forensic examinations. The personal data found in smartwatches can lead investigators in the right direction, especially when the phone is nowhere to be found. MOBILedit Forensic can extract heartbeat details, which gives the investigator an intimate look into the life of the user. This data can reveal moments of excitement, stress, and even time of death. For a successful investigation, examining smartwatches is not only an option but a necessity for every digital forensic professional.

Why smartwatch forensics?

Smartwatch forensic analysis can bring critical data beyond what is available from phone forensic investigations.

- 1 RICH SOURCE OF PERSONAL DATA**
Smartwatches collect a broad range of highly personal information, such as heart rate, body temperature, blood oxygen levels, health statistics, location history, and messages. This makes them a valuable resource for understanding an individual's detailed activities or behavior patterns.
- 2 LOCATION TRACKING**
Smartwatches often feature GPS capabilities, making them key in tracing movements, which is essential in cases of kidnappings or when verifying alibis. It is also common for individuals to leave their phones at home and use smartwatches as the only device during sports activities.
- 3 SMARTWATCHES AS THE SOLE SOURCE OF EVIDENCE**
When a phone is missing or damaged, smartwatches may serve as the sole source of digital evidence, offering unique insights that cannot be obtained from other devices.
- 4 SYNCHRONIZATION GAPS PROVIDE ADDITIONAL DATA**
Gaps in the synchronization of data between a phone and a smartwatch can reveal critical evidence. For instance, photos long deleted from an iPhone may still be present on an Apple Watch.
- 5 COMMUNICATION AND SOCIAL MEDIA ACTIVITY**
Users can access a wide array of apps on their smartwatches, generating valuable data. Linked to social and communication apps, smartwatches offer insights into texts, emails, and social media notifications that are relevant to investigations.

ALL MAJOR BRANDS SUPPORTED

As smartwatches gain popularity, the market's expansion to hundreds of brands makes forensic analysis challenging. The MOBILedit team, leading in smartwatch forensics since 2019, is focusing not only on all major brands including Apple, Samsung, Garmin, Huawei, Alcatel, TCL, Amazfit, Huami, Suunto, but also on many local brands of smartwatches.

MOBILedit Smartwatch Kit

Essential hardware for smartwatch forensic analysis

What's in the Kit?

This kit focuses on Apple Watch, Samsung, and Garmin smartwatches, while many other brands can be connected using the manufacturer's cables or Bluetooth. To perform smartwatch forensic analysis, the MOBILedit Forensic software is required alongside this kit.

SAMSUNG GALAXY WATCH READERS

The unique Samsung Galaxy Watch readers are designed and engineered by the MOBILedit team. With these two readers, data such as messages, geolocations, health data, heartbeats, and more can be obtained from the Samsung Galaxy Watch 2 up to the latest versions. Under certain conditions, it is possible to gain root access and extract the full, unencrypted file system. This means all the data stored on the smartwatch, and potentially more evidence for your investigation, can be accessed.

APPLE WATCH READERS

Two specialized readers support the entire Apple Watch lineup, including the Ultra series. One connects via a physical diagnostic port, while the other reader enables wireless access for the latest models.

Extract data such as synchronized photos (with geolocations), voice recordings, device information, files, and more.

GARMIN WATCH CABLES

Covering most models, these cables connect to Garmin watches through standardized connectors, providing access to a wide range of data.

The kit also includes several adapters for various Samsung Galaxy Watch models, tools for smartwatch handling, accessories for smartwatch connection, and both USB-C and Lightning cables.



MOBILedit Dive Kit

Dive computers are akin to smartwatches for divers, crucial when lives depend on them. In the event of an accident, dive computers retain comprehensive details about the dive, tracking adherence to safe diving protocols by the second. The MOBILedit Dive Kit is an essential hardware not just for coastal countries but also for those with lakes and deep waters, essentially covering almost all nations worldwide. To utilize this hardware, MOBILedit Forensic software is required. MOBILedit Forensic is capable of providing a complete and detailed dive log from over 200 models across all major manufacturers such as Suunto, Oceanic, Mares, Aqualung and others.

