

OpenText Forensic TX2 Imager

High-performance forensic imaging designed to maximize the speed and efficiency of digital forensic evidence triage and acquisition



Benefits

- Up to 5x faster evidence acquisition
- Seamless connectivity across a variety of device types
- Intuitive user interface for ease of operation
- Maximized productivity when running multiple jobs simultaneously

During digital forensics and incident response (DFIR) investigations, forensic examiners must acquire an exact bit-by-bit copy, or forensic image, of digital evidence instead of just copying visible files. This ensures the integrity, completeness, and admissibility of evidence. However, investigators face several challenges when acquiring exact bit-by-bit copies of digital evidence that can impact the integrity, speed, and effectiveness of their forensic investigations.

OpenText™ Forensic TX2 Imager simplifies complex forensic data acquisition with advanced local and networked imaging capabilities—without compromise, even during simultaneous forensic jobs. Designed for speed, reliability, and ease of use, the OpenText Forensic TX2 Imager ensures consistent, defensible results in a high-performance standalone hardware solution, giving investigators confidence in the digital evidence captured from a suspect device.

High-performance acquisition

OpenText Forensic TX2 Imager uses an innovative approach to physical acquisition readback verification referred to as “parallel hash verification” (patent pending). As data is written to the destination, hash states are captured at the start and end of each block of data. When the TX2 begins readback verification, it uses the start and end block hash states to independently verify the integrity of each data block. In addition to massively speeding up verification through parallelization, parallel hash verification has the added benefit of failing the verification as soon as an incorrect block hash state is detected instead of waiting for the end of a lengthy sequential hash verification.

The imager also supports “tree hashing,” an industry first for portable imagers. Tree hashing breaks the acquisition data stream into chunks which are independently hashed using traditional hash algorithms. Those chunk hashes are then sequentially hashed to create a single, forensically sound hash value that represents the entire input data set. The speed improvement comes from the parallelization of the first-order chunk hashing, which allows use of all the system’s available processing resources. The same benefit is realized during readback verification as each chunk is verified in parallel before sequentially calculating the top-level readback verification hash value. Tree hashing eliminates the major bottleneck of legacy sequential hashing, allowing massive gains in acquisition and verification performance. OpenText tree hashing is the solution needed to keep pace with rapidly increasing drive densities and read/write speeds.

Enhanced security

OpenText Forensic TX2 Imager supports PIV Smart Card multi-factor authentication with YubiKey devices. This authentication is particularly important in networked environments as it prevents unauthorized access to digital evidence, ensures only authorized personnel handle forensic images, maintains evidentiary integrity, reduces the risk of internal misuse or tampering with forensic data and helps organizations meet regulatory standards for network and evidence security.

Widespread device compatibility

Investigators never know what type of device they’ll need to investigate. With source and destination support for PCIe, SATA and USB, OpenText Forensic TX2 Imager allows investigators to image whatever device type they encounter. With optional adapters, TX2 also supports SAS, IDE, and FireWire media. And with PCIe hot-swap functionality, investigators can be sure the TX2 remains efficient, flexible, and capable of handling high-speed forensic acquisitions without delays.

Additionally, mobile devices play a critical role in digital forensic investigations, as they often contain valuable evidence related to criminal activities, cyberthreats, or legal disputes. With the vast amount of data stored on these devices, forensic investigators can rely on the OpenText Forensic TX2 Imager to support Apple and Android mobile device backup file acquisition.

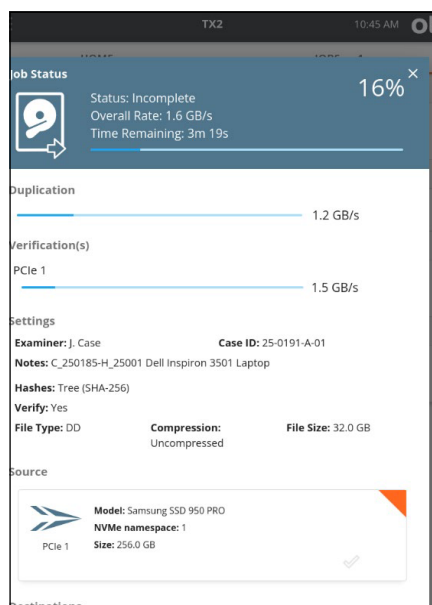
Seamless workflows

Resources available to conduct forensic acquisitions often face limitations in terms of available personnel, levels of expertise and facing pressure from large case backlogs. OpenText Forensic TX2 Imager eases the burden on investigative teams by providing a compact, lightweight device that can easily be transported to field operations or used in forensic labs. Displayed via a high-resolution color LCD, the TX2’s intuitive user interface seamlessly guides investigators through imaging operations. Simplify triage operations with a convenient thumbnail gallery view in all known multimedia file types. And with the ability to conduct many forensic operations at a time, efficiency of the evidence acquisition process is guaranteed.

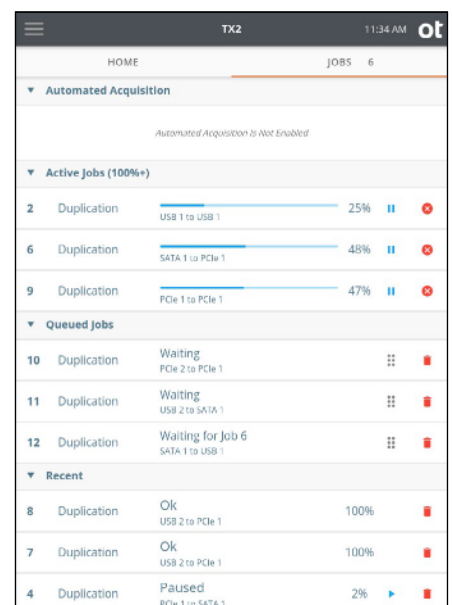
The cornerstone of digital forensic investigation

Delivering forensic integrity, efficient workflows, portability and high-performance acquisition/verification for both on-site and in-lab forensic work, OpenText Forensic TX2 Imager should be the cornerstone of any digital forensic investigation, helping law enforcement, corporate security, and legal professionals discover and acquire crucial evidence at industry-leading speed.

Feature	Benefit
Concurrent imaging and verification	Allows forensic acquisition jobs to complete significantly faster
Innovative hashing concepts	Enables up to 5x improvement in performance
Multi-factor authentication (MFA) support	Provides enhanced network security
Gallery view for image files	Enables rapid triage and ease of use
Destination drive reconfiguration function	Provides the option to select one or any combination of HPA/DCO/AMA removal, wipe, format, or encrypt in a single job, improving efficiency of data imaging process by automating destination media management
Source/destination support for USB 3.2 G2 and PCIe Gen3	Improved drive interface performance resulting in reduced acquisition/verification time
Support for detached NVMe namespaces	Improves evidence accuracy
Automatic job startup based on dynamic assessment of available system resources with manual override option	Optimized job execution efficiency



TX2 users can easily determine job status



Conducting multiple imaging jobs to increase investigative efficiency