Atola Insight Forensic 2.0

The first and only forensic data acquisition tool that works with both good and damaged media.
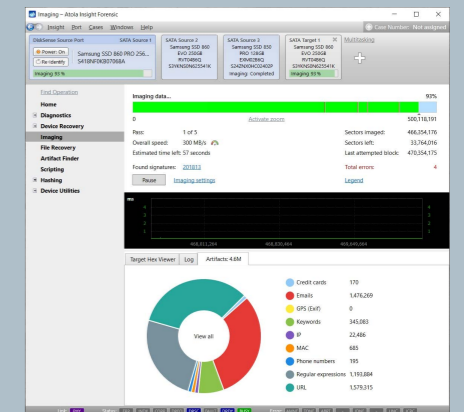

Damaged drive support

- In-depth automated drive diagnostics

- Multi-pass imaging of damaged drives

- Automated imaging of freezing media

- Bad sector recovery

- Segmented hashing for bad drive's image verification

- HDD current monitoring for continuous diagnosis

Forensic feature set

- Unknown ATA password extraction
- Locate sectors - detect which files and partitions they belong to specified drive sectors
- On-the-fly sector-level Artifact finder based on Intel Hyperscan engine
- Hash calculation (linear and segmented): MD5, SHA1, SHA224, SHA256, SHA384, SHA512
- Wiping methods including DoD 5220.22-M, Secure Erase, NIST 800-88, Pattern Erase
- Forensic file recovery for NTFS, APFS (with encrypted volumes), XFS, ext4/3/2, ExFAT, HFS/HFS+, FAT32, FAT16
- Case management system automatically generates detailed reports
- Comparison of 1 drive against 3 drives or images
- Detection and lifting of HPA and DCO restricted areas
- SSD Trim

Functions

Forensic Imaging

- 3 simultaneous imaging sessions + multi-tasking
- Imaging session speed up to 500 MB/s
- E01, AFF4 or Raw target images created in the network or on target drives
- Up to 3 targets per imaging session
- Support of SATA, IDE, USB drives
- Via extensions: SAS, Apple PCIe (2013 - recent models), NVMeand M.2 PCIe SSDs
- Built-in hardware write blocker for all source ports

Workflow

| Drive Diagnostics | Evidence Drive Imaging | Forensic File Recovery |

Atola Product comparison

	Atola TaskForce 2	Atola TaskForce	Atola Insight Forensic
Imaging			
Simultaneous imaging sessions	25+	12+	3
Cumulative imaging speed	25 TB/hour	15 TB/hour	4 TB/hour
Automated RAID configuration detection	Support RAID 0, 1, 5, 6, 10 and JBOD		-
Automation	Web API		-
Damaged drive support	Damaged heads, freezing drives, short circuit detection, worn-out HDDs/SSDs		
Head selection support	✓	✓	✓
Network	2 x 10Gb Ethernet ports		
Express mode	up to 25 imaging sessions	up to 17 imaging sessions	-
Logical imaging to L01	✓	✓	-
Imaging targets	E01/RAW/AFF4 files located on other drives (Veracrypt-encrypted as option), E01/RAW/AFF4 files located on a server or NAS, bit-to-bit copy on other drives		
Max. targets per imaging session	5	5	3
Hardware unit			
Ports	26 ports with source/target switch	18 ports with source/target switch	10 ports Cannot switch source/target
Port types	4 NVMe M.2/U.2 PCIe 4.0 8 SATA 8 SAS/SATA 4 USB 1 IDE Extension port	6 SATA 6 SAS/SATA 4 USB 1 IDE Extension port	6 SATA 6 SAS/SATA 4 USB 1 IDE Extension port
Write protection	on all ports (configurable)	on all ports (configurable)	on source ports
Extension modules	M.2 NVMe/PCIe/SATA Apple PCIe Thunderbolt	M.2 NVMe/PCIe/SATA Apple PCIe Thunderbolt	M.2 NVMe/PCIe/SATA Apple PCIe Thunderbolt SAS
Interface	web-based (offline)		Windows application
Wi-Fi mode	External adapter (optional)		-
Standalone mode	Kiosk mode	✓	-
Server rack compatibility	✓		
Other features			
Drive diagnostics	PCB, Heads, Media scan, Firmware, File system. Imaging time estimate.		
Wiping	Zero-fill, Custom pattern, LBA number, Secure Erase, DoD 5220.22-M, NIST 800-88, Random, Format NVM and Sanitize for NVMe drives		
Hashing	MD5, SHA1, SHA256, SHA512		
Case management	✓	✓	✓
Automatic report generation	✓	✓	✓
Other Common features	SSD Trim, HPA, DCO, AMA recovery, Segmented hashing, Source drive files preview		
Special features for Insight Forensic Only	-	-	Unknown ATA password recovery, Locate sectors, Artifact Finder (sector-level), File recovery, Scripting, Disk editor (HEX)