

Atola Insight Forensic

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



Functions

- Disk Diagnostics
- Disk Duplication
- Selective Head Imaging
- Password Removal
- Segmented Hashing
- Scripting
- Case Management
- Bad Sector Recovery
- File Recovery
- Firmware Recovery
- Disk Utilities
- Multi-Tasking

Features in forensic and e-discovery cases:

- Fastest in industry imaging speed up to 500 MB/s
- High performance multi-pass imaging for damaged drives
- In-depth Automatic HDD diagnostics
- Extraction of unknown ATA Passwords
- Case management system prepares acquisition reports automatically
- Hash calculation: MD5, SHA1, SHA224, SHA256, SHA384, SHA512
- Forensic data erasure methods including DoD 5220.22-M, Security Erase, NIST 800-88, Pattern Erase
- File recovery for NTFS (all versions), Ext 2/3/4, HFS, HFS+, HFSX, ExFAT, FAT16, FAT32
- Support for SATA, IDE, SAS, USB media
- Support for Apple PCIe (2013 - recent models) and M.2 PCIe SSDs via Atola extension modules
- Built-in write blocker
- Optional 10Gb Ethernet via extension modules
- Network forensics via SSH

Acquiring data from damaged media

- HDD Diagnosis
- ATA Password Removal and Firmware recovery
- HDD Duplication / Backup Image Creation
- File Recovery

Functions Work with Specific Hard Drives:



Automatic Password Removal







Head Selection in Imaging and Media Scan



Full Firmware Access

Extention Modules

SAS extension module	
	<p>Atola Insight Forensic allows to run most operations for a SAS drive plugged into DiskSense system. There are a few functions that are not available for SAS drives by their nature: Host Protected Area (HPA), Device Configuration Overlay (DCO), Security Features, and SSD Trim. Firmware recovery is also not supported.</p>
	<p>Technical specifications:</p> <ul style="list-style-type: none"> • SAS interface: 6 Gbit/s • Max read/write speed: 500 MB/s • Damaged drive support • Hotplug for SAS drives is supported • Current sensing is supported • Short circuit and overvoltage protection is active • Write protection
10GBit Ethernet extension module	
<p>The module accelerates the following operations executed with image files: Imaging, File Recovery, Compare, Write from File.</p>	
<p>Technical specifications:</p> <ul style="list-style-type: none"> • Max possible transfer speed: 10 GBit/s • Transfer speed received in practice: 400 MB/s • 10G copper standard • RJ45 (8P8C) connector interface • Cat 6 Ethernet cable recommended for optimum performance 	
Apple PCIe SSD extension module	



This is the first official extension supported by Atola Insight Forensic. It can process the PCIe SSDs having the custom proprietary M.2 interface within Apple laptops:

- MacBook Pro, Late 2013 - 2015
- MacBook Air, 2013 - 2015



The following Insight operations and features are supported for the Apple drives:

- Drive imaging with 400 MB/s speed (24 GB/min)
- Damaged drive support
- SSD Trim
- Calculate hash
- Comparison with pattern, image files or other drives
- Media scan
- Various device utilities: disk editor, media recovery, etc.
- Write protection

M.2 PCIe/SATA SSD extension module

*Only M key interface drives are supported by this module.

Differences between M.2 SATA and M.2 PCIe support:

Features	M.2 SATA	M.2 PCIe
All Insight operations	√	Partial
Drive hotplug	√	X
Power management	√	X



M.2 PCIe SSD features supported:

- Max read/write speed: 500 MB/s
- Damaged drive support
- SSD Trim
- Calculate hash
- Comparison with pattern, image files or other drives
- Media scan
- Various device utilities: disk editor, media recovery, etc.
- Write protection



Thunderbolt extension module



Thunderbolt extension enables Insight to work on MacBooks of all generations with the following interfaces (no SSD removal is necessary, the extension allows connecting insight directly to MacBook):

- FireWire
- Thunderbolt 2
- Thunderbolt 3



Insight supports the following operations and features on MacBooks when connected through Thunderbolt extension:

- Imaging
- Hash calculation and verification
- Comparing with patterns, image files or other drives
- Media scan
- File recovery
- Write protection