



**Intelligent
Computer
Solutions**

Make the intelligent choice...

Image MASter™ 4000PRO X2 FORENSIC UPLOADER

FEATURES:

- 1 High-end Processing Power
- 2 Hard Drive Support
- 3 Multiple Interface Ports
- 4 Cable Free Drive Caddies
- 5 Compact size
- 6 Versatile "Source" Drive Ports
- 7 Multi-Session Capability
- 8 Available Drive Caddy Options
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- 23 8" Full Color Touch screen
- 24 Lock Setting

Faster Copy, Uploading and Wipe Operations with Built-In Expansion Capability, offering the Flexibility of Extending the unit's standard Eight Target drive design to 16 Target drives



Image MASter™
4000PRO UPLOADER

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Image MASter™

4000PRO X2 FORENSIC UPLOADER

With twice the processor as its original version, The Image MASter™ 4000PRO X2 Forensic Uploader is a fast, Reliable and Versatile Forensic Data Acquisition Station. These units are the ideal solution for the Forensics Lab, with native support for SAS, SATA, USB 2.0 and 3.0 drives as well as other common drive interfaces through the use of optional adapters. Featuring advanced SATA-2 Acquisition Technology, these units support speeds exceeding 7GB/min for today's High Speed drives, with a potential of exceeding 18GB/min with Advanced High Speed drives.

The Image MASter™ 4000PRO X2 Forensic Uploader is also configured with a 1Gbit Ethernet port for Network Connectivity support and offers a Cable-Free, Drive Caddy solution. The unit's internal PCIe Bus allows users to easily add a wide array of PCIe cards to expand the unit's support for additional drive interfaces such as SCSI, Fibre Channel, FireWire, 10 Gigabit Ethernet connectivity and more.

The unit's Key Features include the capability of simultaneously acquiring and uploading the Suspect's hard drive data directly to External Storage Media or to a Network Location in a fast and forensically secure environment. The Image MASter™ 4000PRO X2 Forensic Uploader units support SHA-1 and SHA-2 Hardware Accelerated Drive Hashing as well as the standard MD-5 Hashing method. With built-in Hard Drive Encryption support, target drive's data can be secured utilizing the NIST approved AES-256 Encryption standard. Highly scalable, the Image MASter™ 4000PRO X2 Forensic Uploader units come with built-in support to connect an optional 8 Port Add-on Module, providing the capability to copy, upload and wipe up to 16 drives simultaneously. Data from up to 16 Suspect drives can be Sequentially Uploaded during Acquisition for Archiving, Sharing or future Analysis. The process of Uploading 16 Suspect drives can be automated without the need of starting 16 separate Acquisition operations. Network Uploads using the unit's native 1Gigabit Ethernet interface offers speeds exceeding 2GB/min, and speeds exceeding 4GB/min when using the unit's optional Expansion Hardware, self-configured with High Speed Network Interface Cards such as a 10Gbit NIC*

Furthermore, all units support the acquisition of up to 4 Suspect drives to 4 individual Evidence drives simultaneously. Units purchased with the optional 8 Port Add-on Module can acquire up to 8 Suspect drives to 8 individual Evidence drives simultaneously.

*10Gbit NIC are not supplied with the unit. Optional PCIe Cards can be purchased from ICS

FEATURES:

1 High-end Processing Power

The Image MASter™ 4000PRO X2 Forensic Uploader units come standard with a powerful i7 CPU and are designed to support today's High Performance drives as well as future hard drive speed improvements, using 6Gb/s SAS Controller technology. The units support advanced Duplication Technology that can perform multiple operations simultaneously, copy and wipe drives exceeding 7GB/min with a potential of exceeding 18GB/min.

2 Hard Drive Support

Offers native support for SAS, SATA and USB 2.0 and 3.0 drives. Optional adapters are available to support IDE Drives*, Micro SATA*, e-SATA Drives*, 2.5", 1.8" IDE Notebook Drives*, ZIF drives*, and Flash media*. The unit offers an internal PCIe expansion bus which can be used to expand the unit's capability to support additional drive interfaces such as SCSI and FireWire. *Available for purchase/Optional Adapters Required

3 Multiple Interface Ports

The unit offers eight native SATA/SAS Drive ports, 1 dedicated SATA drive port, seven USB 2.0 ports, two USB 3.0 ports, three e-SATA ports, and a Gigabit Ethernet port. Additionally, the units are designed with an available internal PCIe Bus which can be used to expand the unit's capability to support additional drive interfaces.

4 Cable Free Drive Caddies

The unit offers a Cable Free Drive Insertion Solution.

5 Compact size

The unit's Small Footprint design saves work space.

6 Versatile "Source" Drive Ports

Flexible design allows any port to be configured as the "Source" port.

7 Multi-Session Capability

Copy multiple Source drives simultaneously or run multiple operations simultaneously. Multi-Session supports the high-speed duplication of up to 4 Source drives simultaneously. Copy and Sanitize drives at the same time. Units equipped with the 8 Port Add-on Module can support the duplication of up to 8 source drives simultaneously.

8 Available Drive Caddy Options

The units are offered with a 2.5"/1.8" or 3.5" Cable-Free Drive Caddy. Both options support cable-free insertion of eight 2.5"/1.8" or eight 3.5" Form Factor SATA/SAS drives, respectively. The Cable-Free Caddies are designed with replaceable, low cost, SATA/SAS interface boards. The units are also offered with an Open Drive Tray mounting option, providing a

flexible drive mounting solution for non-standard Form Factor 2.5" and 3.5" drives, including Solid State drives and Flash Media devices.

9 Optional 8 Port Add-On Module

The Image MASter™ 4000PRO X2 Forensic Uploader is designed with built-in support to connect an optional 8 Port Add-on Module, providing the capability to copy and wipe up to 16 drives simultaneously. The Optional 8 Port Add-on Module can be purchased with either a 3.5" Drive Caddy, 2.5" Drive Caddy or without the Drive Caddy tray. Additional 8 Port Add-on Modules can be purchased with either the 3.5", 2.5" or without the Drive Caddy tray.

10 Multiple Operational Modes

- Single Capture: Creates "Mirror" image of the Suspect's drive.
 - LinuxDD Capture: Supports storing one or multiple Suspect drive images on a single "Evidence" drive using the standard Linux DD Segmented File Format.
 - E01 Capture: Supports storing one or multiple Suspect drive images on a single "Evidence" drive using the Encase® Forensics Segmented File Format. - IQ Copy*: Optional Non-Forensic Format used to capture only the allocated data of a Suspect's drive, greatly reducing the time required to capture data. In addition, it can be used to duplicate drives for IT purposes such as backup, deploy and upgrade to larger capacity drives.
 - Multi-Session: Capture multiple Suspect drives simultaneously or run multiple operations simultaneously. Multi-Session supports the Acquisition of up to 4 Suspect drives simultaneously. Capture and Sanitize drives at the same time (NOTE: Activating more than three Capture Sessions simultaneously, with Hash enabled, will result in reduced performance).
 - One-to-One or On-to-Many Capture Mode: Captures one "Suspect" drive to one or more "Evidence" drives. A maximum of 7 Evidence drives can be used.
 - WipeOut: Sanitize drives using Single Pass, DoD Standard, or Secure Erase. The unit has the ability to copy and wipe Hidden HPA or DCO areas which may exist on hard drives
- * Offered as an add-on purchase

11 Multiple Hash Verifications

The Image MASter™ 4000PRO X2 Forensic Uploader supports SHA-1 and SHA-2 Hardware Accelerated Hashing and Software based MD-5 Hashing.

12 External Storage

Images can be stored externally to a Shared Network folder, e-SATA drive, USB drive or an ICS DFSS External Storage Module.

13 Upload and Download Images to Network Storage Area

Images files can be uploaded and downloaded to a Network Storage Area allowing the user to take advantage of large storage platforms for the

purpose of processing and archiving images. With the use of the Optional 10 Gigabit Ethernet connection, units can copy and upload at speeds exceeding 4GB/min.

14 Optional IDE Drive Caddies

IDE Drive Caddies are available for 2.5"/1.8" and 3.5" IDE drives. The IDE Drive Caddies require the use of IDE Data and Power Cables.

15 Optional PCIe Expansion Cards

- The unit is equipped with an internal PCI-e Bus for upgradeability and additional device support. Examples of available PCIe Controller cards include the following:
- PCIe SCSI 320Mbit/sec Controller. PCIe FireWire Controller with two (2) 1394B ports and one (1) 1394A port.
- PCIe Express Card Reader Controller which can be used to connect a broad range of Express Card compliant cards such as Express Card Memory devices (not USB based).
- PCIe WiFi Controller.
- PCIe 10 Gigabit Ethernet Card and more.

16 "On the fly" Drive Image Encryption*

Utilizing the built- in AES 256 Encryption Technology the Image MASter™ 4000PRO X2 Forensic Uploader encrypts with minimal speed degradation all digital data during the Cloning Process for the purpose of safe guarding sensitive information. The Image MASter™ 4000PRO X2 Forensic Uploader creates a secure key with a user-chosen pass phrase. An AES 256 encryption key is then generated by the unit and can be saved to any USB thumb drive. The encrypted drive can be decrypted on the fly utilizing the Image MASter™ 4000PRO X2 Forensic Uploader or any regular PC loaded with the ICS free decryption utility and the USB thumb drive containing the saved key. User can then safely image the decrypted data to an additional target drive.

* This process is NOT compatible with the DiskCypher product line

17 ICS Digital Forensic Storage Solutions (DFSS)

The Image MASter™ 4000PRO X2 Forensic Uploader supports the use of the Optional ICS DFSS Modules to provide additional Storage capacity.

18 LinkMASter Option

The LinkMASter Option allows the Forensic Investigator to acquire data from unopened computers using the Ethernet interface.

19 Preview Suspect Data

Preview Suspect Drive's data utilizing third party applications or using the unit's built-in O/S utilities. The unit's preview capability allows previewing Word, Excel, PDF, text or multimedia (pictures, video and audio) files prior to seizing data.

20 Logs and Auditing

Store and print detail operational Event Log and Audit Trail information. The Audit Trail is saved in a PDF format using 128-bit password encryption protection.

21 Cell Phone Acquisition Support

The Image MASter™ 4000PRO X2 Forensic Uploader can be used to acquire Cell Phone data utilizing optional 3rd Party Cell Phone Acquisition Software and Hardware solutions. The units support the Micro Systemation XRY and Paraben's Device Seizure Cell Phone Acquisition Solutions.

22 Convenient and Easy Upgrades

Easily updates Software through the USB port. Free Software Updates are provided periodically.

23 8" Full Color Touch screen

Built-in touch screen eliminates the need of connecting an external monitor, mouse or keyboard.

24 Lock Setting

Provides lock setting for secure operation.

Technical Specs

Unit Weight: 15lbs (6.8kg)






Overall Dimensions

15" x 3.8" x 15.5" (400mm x 100mm x 400mm)

Warranty

One year part and Labor with an optional one year extended warranty.

OPTIONS:

<p>IM 4000PRO X2 Forensic Uploader Open Tray Unit (F.GR-4222-000A)</p>	<p>IM 4000PRO X2 Forensic Uploader 2.5" Unit (F.GR-4221-900A)</p>	<p>IM 4000PRO X2 Forensic Uploader 2.5" – 8 Port Add-on Module + PCIe Memory Card Reader (F.GR-4226-900A)</p>
<p>The unit ships with the Open Drive Tray and with 8 HYPERLINK "http://www.ics-iq.com/product-p/cbdr-0521-000a.htm" \n SAS cables.</p> 	<p>The unit ships with the 2.5" Cable-Free Drive Caddy, including 8 uSATA adapters.</p> 	<p>The unit ships with the 2.5" Cable-Free Drive Caddy, including 8 uSATA adapters an installed PCIe Memory Card and the 8 2.5" Drive Extension Module.</p> 
<p>IM 4000PRO X2 Forensic Uploader 3.5" Unit (F.GR-4220-900A)</p>	<p>IM 4000PRO X2 Forensic Uploader 3.5" – 8 Port Add-on Module + PCIe Memory Card Reader (F.GR-4225-900A)</p>	
<p>The unit ships with the 3.5" Cable-Free Drive.</p> 	<p>The unit ships with the 3.5" Cable-Free Drive Caddy, including 8 uSATA adapters an installed PCIe Memory Card and the 8 3.5" Drive Extension Module.</p> 	

Next Generation ICS Forensic Product Comparison Chart

FEATURES	IMSolo 101 Forensics	IMSolo-4 Forensics	IMSolo-4 Ruggedized	4000PRO X2 Forensic Uploader + 8 Port Add-on Module	Rapid Image 7020 Forensics	Rapid Image 7012 Forensics	WipePRO X2 + 8 Port Add-on Module
Capture Configurations:							
Max # of Evidence Drives per Operation	1	2	2	16	19	11	16
Max 1:1	1	2	2	8	10	6	N/A
Max 1:2	N/A	1	1	6	6	3	N/A
Max 1:3	N/A	N/A	N/A	4	5	3	N/A
Max # of Parallel Captures	1	2	2	8	10	6	N/A
Max # of Drives which can be Captured Sequentially to External Storage	1	4	4	16	19	12	N/A
Interfaces Supported:							
SAS	N/A	4	4	8	20	12	8
SATA	2	4	4	9	20	12	9
SCSI	Requires 3rd Party SCSI-to-USB Adapter	Optional Expansion Box	Optional Expansion Box	3 Optional 3rd Party Internal PCIe Controller Card	3 Optional 3rd Party Internal PCIe Controller Card	3 Optional 3rd Party Internal PCIe Controller Card	3 Optional 3rd Party Internal PCIe Controller Card
USB 2.0	4	4	4	7	4	4	7
USB 3.0	N/A	Optional Expansion Box	Optional Expansion Box	2	4	4	2
e-SATA	2	1	1	3	1	1	3
3.5/2.5" IDE	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Micro SATA	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
ZIF Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
1.8" Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
FIREWIRE	N/A	Optional Expansion Box	Optional Expansion Box	Optional 3rd Party Internal PCIe Controller Card	One Onboard 1394a. Optional 1394b Internal PCIe Controller Card	One Onboard 1394a. Optional 1394b Internal PCIe Controller Card	Optional 3rd Party Internal PCIe Controller Card
FIBRE	N/A	Optional Expansion Box	Optional Expansion Box	Optional 3rd Party Internal PCIe Controller Card	Optional 3rd Party Internal PCIe Controller Card	Optional 3rd Party Internal PCIe Controller Card	Optional 3rd Party Internal PCIe Controller Card
FLASH DEVICES	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Maximum Speed Capability:	7 GB/min	18 GB/min	18 GB/min	32 GB/min	32 GB/min	32 GB/min	32 GB/min
Processing Power:	1.3GHz VIA Nano	1.6GHz VIA Nano	1.6GHz VIA Nano	3.4GHz Intel i7	3.4GHz Intel i7	3.4GHz Intel i7	3.4GHz Intel i7
Average/ Typical Speed:							
SATA	6 GB/min	6 GB/min	6 GB/min	6 GB/min	6 GB/min	6 GB/min	6 GB/min
SAS	N/A	7 GB/min	7 GB/min	7 GB/min	7 GB/min	7 GB/min	7 GB/min
SOLID STATE DRIVES	7GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min
USB 2.0	1.4GB/min	1.4GB/min	1.4GB/min	1.4GB/min	1.4GB/min	1.4GB/min	1.4GB/min
1394B	N/A	2.4GB/min	2.4GB/min	2.4GB/min	2.4GB/min	2.4GB/min	2.4GB/min
SCSI	N/A	4GB/min	4GB/min	4GB/min	4GB/min	4GB/min	4GB/min
SHA-1/SHA-2 HASH H/W Acceleration:	YES	YES	YES	YES	YES	YES	N/A
AES Encryption:	YES	YES	YES	YES	YES	YES	N/A
Ethernet Connection:	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit
Capture Modes:							
LinuxDD - Segmented File Capture	YES	YES	YES	YES	YES	YES	N/A
Mirror Image Capture	YES	YES	YES	YES	YES	YES	N/A
E01 - Segmented File Capture	YES	YES	YES	YES	YES	YES	N/A
IQCopy Allocated File Copy	Optional	Optional	Optional	Optional	Optional	Optional	N/A
Capture to External Storage:							
SAN	YES	YES	YES	YES	YES	YES	N/A
USB	YES	YES	YES	YES	YES	YES	N/A
e-SATA	YES	YES	YES	YES	YES	YES	N/A
FireWire	N/A	Optional Expansion Box	Optional Expansion Box	Optional Internal PCIe Controller Card	Optional Internal PCIe Controller Card	Optional Internal PCIe Controller Card	N/A
ICS Storage Box Option:	YES	YES	YES	YES	YES	YES	YES
Wiping:							
DoD	YES	YES	YES	YES	YES	YES	YES
Single Pass	YES	YES	YES	YES	YES	YES	YES
Secure Erase	YES	YES	YES	YES	YES	YES	YES
Portability:	Handheld	Handheld	Handheld	Small Footprint	Industrial	Industrial	Small Footprint
Design Usage:	Single user	Single user	Single user	Mid Size	Large/Production	Large/Production	Mid Size
SAS/SATA Drive Caddy Cable-Free with Built-in Fans (Select between 2.5" or 3.5")	N/A	N/A	N/A	One Standard	One Standard	One Standard	One Standard
IDE Drive Caddy: Built-in Fans	N/A	N/A	N/A	Optional	Optional	Optional	Optional
Open Drive Tray:	Optional	Optional	Optional	Optional	N/A	N/A	Optional
Operating System:	Windows 7 Embedded Standard	Windows 7 Embedded Standard	Windows 7 Embedded Standard	Windows 7 Embedded Standard	Windows 7 Embedded Standard	Windows 7 Embedded Standard	Windows 7 Embedded Standard



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