

Image MASter™ Solo-4

PORTABLE
PROTECTIVE CASE
OPTIONAL BATTERY PACK

RUGGEDIZED

HIGH SPEED FORENSIC ACQUISITION

Validated Speeds of 13GB/min



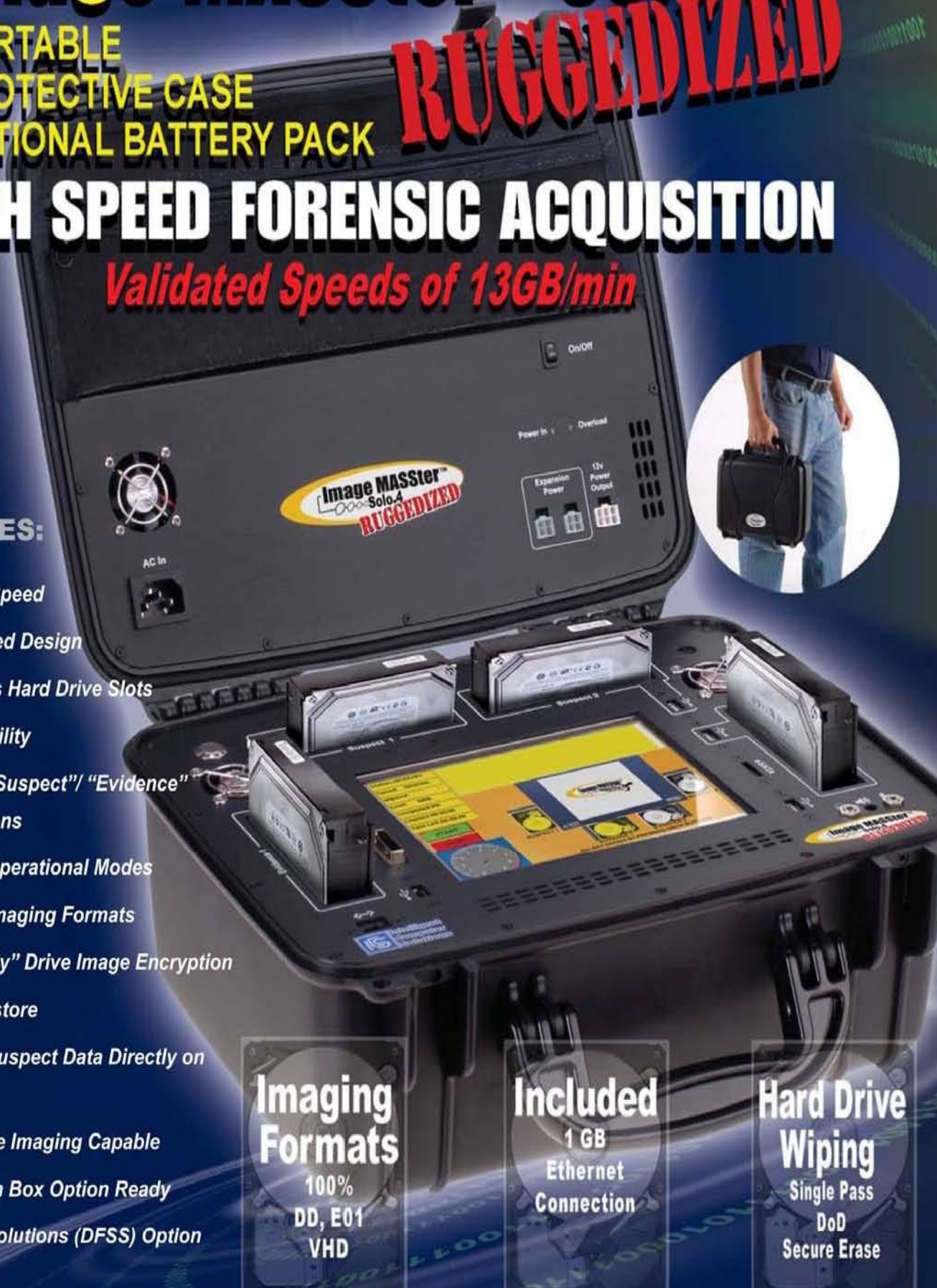
FEATURES:

- 1 Extreme Speed
- 2 Ruggedized Design
- 3 Cable-less Hard Drive Slots
- 4 Expandability
- 5 Multiple "Suspect"/ "Evidence" Connections
- 6 Multiple Operational Modes
- 7 Multiple Imaging Formats
- 8 "On the Fly" Drive Image Encryption
- 9 Image Restore
- 10 Preview Suspect Data Directly on the Unit
- 11 Cell Phone Imaging Capable
- 12 Expansion Box Option Ready
- 13 Storage Solutions (DFSS) Option Ready

Imaging Formats
100%
DD, E01
VHD

Included
1 GB
Ethernet
Connection

Hard Drive Wiping
Single Pass
DoD
Secure Erase



A "Quantum Leap" Forward in Forensic Duplication Technology now built in a ruggedized case to work in even the toughest environments.

Features:

1 **Extreme Speed**

Built to work with the fastest hard drives available, Solo-4 captures, authenticates, and sanitizes at full SATA-2 speed (18GB/min. top capability) This technology not only allows the unit to take advantage of today's fastest hard drive speeds but also allows the user to be prepared for tomorrow's future hard drive improvements. Real world speeds of 13GB/min for Solid State Drives.

2 **Ruggedized Design**

The new Solo-4 Ruggedized unit comes built in a shock absorbent case that allows investigators to easily carry, store and utilize the unit in even the toughest environments. The unit is simple to transport, set-up and store and easily fits under a standard airplane seat. An optional Rechargeable Compact Battery enables the device to have backup power in the field.



3 **Cable-less Hard Drive Slots**

Unit features two "slide-in" cable-less hard drive slots for hard drive insertion.

4 **Expandability**

The unit supports the use of the Optional Expansion Box. The Expansion Box (purchased separately) adds SCSI, Firewire and ExpressCard Interface support. Allows connection of up to 2 Firewire Drives and up to 3 SCSI drives and supports connecting a broad range of ExpressCard compliant cards, such as ExpressCard USB 3.0 cards used to connect USB 3.0 mass storage devices. The Forensics Investigator can customize the Expansion Box by adding 3rd Party PCIe Cards such 10Gbit NIC Cards to add high speed 10Gbit Network interface support.

5 **Multiple "Suspect"/ "Evidence" Connections**

- 4 SATA/SAS connections and 4 USB 2.0 connections. Operator can choose to use either the SATA/SAS connection or the USB connection for each of the two "Suspect"/"Evidence" positions.
- Unit features built-in support for imaging of a RAID drive pair (0, 1, JBOD).
- Optional drive adapters for 1.8", 2.5", ZIF, and proprietary Interface / Laptop drives, and Micro Media Formats including Compact Flash, Memory Sticks, SD, Micro SD, Multi Media card, etc.
- SCSI drives can be acquired utilizing a USB to SCSI adapter (Low speed) or by purchasing the Expansion Box or Storage Box Option (High Speed).
- Cross Copy Support allows user to image any "Suspect" drive interface to any "Evidence" drive interface (ie. IDE "Suspect" drive to SATA "Evidence" drive).
- All Suspect connections are permanently write-protected at all times to prevent changing Suspect Data (This feature cannot be disabled).
- Unit features "Suspect" cable-less insertion for native SAS/SATA drives.

6 **Multiple Operational Modes**

- Single Copy Mode – Captures one "Suspect" drive to one "Evidence" drive (1:1).

- Multiple Copy Mode - Captures one "Suspect" to two "Evidence" drives (1:2).
- Parallel Copy - Captures two "Suspect" drives to two "Evidence" drives (1:1 & 1:1).
- Drive Wiping and Sanitization (Single Pass, DoD Standard, or Secure Erase).
- Hardware Accelerated Drive Hashing using SHA-1 and SHA-2. Standard MD-5 Hashing also included
- Upload "Suspect" images to Network Storage and/or any attached Network Share through the native 1 Gigabit Ethernet Connection.
- All processes are done simultaneously with minimal speed degradation.

7 **Multiple Imaging Formats**

- 100% Copy: Bit-for-bit copy
- Linux DD: Supports storing single or multiple DD images (industry standard) on a single "Evidence" Hard Drive or USB storage device. User can define the size of the Linux DD image segments.
- E01 files: Supports imaging to Encase® Forensics image file.
- Optional IQ Copy: Captures actual "data only" greatly reducing the time needed to make a non-forensic copy for back up or mass duplication purposes.

8 **"On the Fly" Drive Image Encryption**

Built-in DiskCypher technology allows the full encryption (AES 192/256) of Forensic Images. The process is done without speed degradation during the acquisition phase.

9 **Image Restore**

Restore a previously captured DD or E01 image to a 100% fully bootable working copy

10 **Preview Suspect Data Directly on the Unit**

Review active files on the Suspect Drive utilizing third party file viewer that allows previewing Word, Excel, PDF, text or multimedia (pictures, video and audio) files prior to seizing the data.

11 **Cell Phone Imaging Capable**

Solo-4 Ruggedized can be used to acquire cell phone in the field utilizing 3rd party cell phone acquisition software programs. Solo-4 Ruggedized currently ships ready to support Mycro Systemation XRY and Paraben's Device Seizure.

12 **Expansion Box Option Ready**

The IMSolo-4 Ruggedize unit has built in support for the Expansion Box Option. The Expansion Box Option extends the capability of the Solo-4 Ruggedized unit to capture data from additional devices and drive interfaces.

13 **Storage Solutions (DFSS) Option Ready**

The Solo-4 Ruggedized unit has built in support for all of the ICS Digital Forensic Storage Solutions (DFSS). DFSS are large volume RAID Data Storage Systems. Utilizing the IMSolo-4 Ruggedized "Port assignment" feature, the Digital Forensic Investigator can re-assign Evidence Ports as Write-Protected Suspect Ports to allow the simultaneous, secure capture of up to four (4) Suspect hard drives directly into any DFSS.



High Speed Forensic Acquisition

Options:

Super Kit

The Solo-4 Forensic Ruggedized Super Kit ships with the LinkMASter PC and MAC Option and many useful accessories.



The kit contains:

- Solo-4 Ruggedized Stand Alone Unit
- 1 SAS/SATA Cable
- 1 IDE to SAS Adapter
- 1 IDE Power Cable
- 1 IDE Data Cable
- 1 2.5" Drive Adapter
- 1 2.5" power Cable
- 1 PS 150 watt
- 1 Power Cord
- 1 Touch Pen
- 1 User Guide
- Mini USB mouse
- Mini USB Keyboard
- Mini hub 2.0 4 PORTS
- Mini Speakers with Jack
- Headphones
- WiFi USB 2.0
- eDVD
- LinkMASter Option
- LinkMASter MAC Option
- Expansion Box

Expansion Box Option

Increase of the functionality of the Solo-4 Forensic Ruggedized unit by connecting the high speed Expansion Box device that allows the connection of additional drive interfaces including FAST SCSI, FIREWIRE A/B and EXPRESS CARD ADAPTER. Additional approved cards like USB 3.0, etc are user installable and are available for purchase.



Digital Forensic Storage Solutions (DFSS)

The Digital Forensic Storage Solutions (DFSS) are large volume RAID Data Storage Systems that work seamlessly with the Image MASter™ Solo-4 or connected directly to a Forensics Computer. The DFSS Systems were developed to overcome the unpredictability of suspect drives' size



and to streamline the management of high capacity hard drive image storage. Additionally, the systems allow the

investigators to acquire multiple Suspect drives simultaneously, facilitate the transportation of evidence images from the field to the lab and to ensure the protection of valuable evidence data.



LinkMASter Option



With the purchase of the LinkMASter Option, the unit allows users to acquire data from unopened computers and image "Suspect's" hard drives through a Network or USB connection.

Rechargeable Battery Pack Option

The rechargeable compact Battery Pack enables the extended use of the device in the field.



NEXT GENERATION FORENSIC PRODUCT COMPARISON CHART

Features	IMSolo-101 Forensics	IMSolo-4 Forensics	IMSolo-4 Ruggedized	4000PRO Forensics	WipePRO
Capture Configurations					
Max # of Evidence Drives per Operation	1	2	2	7	9
Max 1:1	1	2	2	4	N/A
Max 1:2	1	1	1	3	N/A
Max 1:3	N/A	N/A	N/A	2	N/A
Max # of Parallel Captures	1	2	2	4	N/A
Max # of Drives which can be Captured Sequentially to External Storage	1	4	4	8	N/A
Max # of Drives which can be Captured in Parallel to External Storage	1	4	4	4	N/A
Interfaces Supported					
SAS	N/A	4	4	8	8
SATA	2	4	4	9	9
SCSI	Requires 3rd Party SCSI-to-USB Adapter	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module
USB 2.0	4	4	4	5	5
USB 3.0	N/A	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module
e-SATA	2	1	1	Optional Adapter	Optional Adapter
3.5/2.5" IDE	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Micro SATA	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
ZIF Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
1.8" Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
FireWire	N/A	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module
Fibre	N/A	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module
Flash Devices	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Maximum Speed Capability	6.2 GB/min	18 GB/min	18 GB/min	18 GB/min	18 GB/min
Average/ Typical Speed					
SATA	5.5 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
Solid State Drives	6.2GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min
USB	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
SCSI	N/A	4GB/min	4GB/min	4GB/min	4GB/min
SHA-1/SHA-2 HASH H/W Acceleration	YES	YES	YES	YES	N/A
AES Encryption	YES	YES	YES	YES	N/A
Ethernet Connection	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit
Capture Modes					
LinuxDD - Segmented File Capture	YES	YES	YES	YES	N/A
Mirror Image Capture	YES	YES	YES	YES	N/A
E01 - Segmented File Capture	YES	YES	YES	YES	N/A
IQCopy Allocated File Copy	Optional	Optional	Optional	Optional	N/A
Capture to External Storage					
SAN	YES	YES	YES	YES	N/A
USB	YES	YES	YES	YES	N/A
e-SATA	YES	YES	YES	Optional eSATA Cables	N/A
FireWire	N/A	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	N/A
Storage Box Option	YES	YES	YES	YES	N/A
Wiping					
DoD	YES	YES	YES	YES	YES
Single Pass	YES	YES	YES	YES	YES
Secure Erase	YES	YES	YES	YES	YES
Portability	Handheld	Handheld	Handheld	Small Footprint	Small Footprint
Design Usage	Single user	Single user	Single user	Mid-Size	Large
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
IDE Drive Caddy					
Built-in Fans	N/A	N/A	N/A	Optional	Optional
Open Drive Tray	Optional	Optional	Optional	Optional	Optional