

# Image MASter™ Solo-4 FORENSICS

## HIGH SPEED FORENSIC ACQUISITION & DATA SANITIZATION

*Validated Speeds of 13GB/min.*

• PORTABLE • VERSATILE • AFFORDABLE

### FEATURES:

- 1 Extreme Speed
- 2 Multiple "Suspect" Side Connections
- 3 Multiple "Evidence" Side Connections
- 4 Operational Modes
- 5 Multiple Imaging Formats
- 6 "On the Fly" Drive Image Encryption
- 7 Drive Spanning
- 8 Image Restore
- 9 Preview Suspect Data Directly on the Unit
- 10 Logs and Auditing
- 11 Cell Phone Imaging Capable
- 12 Affordable



**Imaging Formats**  
100%  
DD, E01  
VHD

**Included**  
1 GB  
Ethernet  
Connection

**Hard Drive Wiping**  
Single Pass  
DoD  
Secure Erase

**Intelligent  
Computer  
Solutions**

**Image MASter  
Solo-4  
FORENSICS**

*Make the intelligent choice...*

[www.ics-iq.com](http://www.ics-iq.com)

# A “Quantum Leap” forward in Forensic Imaging technology

The “Next Generation” hand-held Forensic Duplicator from the legendary Image MASter™ product line brings value, versatility, speed and cutting edge features with a simple “State-of-the-Art” user interface.

## Features:

### 1 Extreme Speed

The Image MASter™ Solo-4 Forensic is designed to support today’s High Performance drives, featuring advanced SATA-2 Duplication Technology that can copy and wipe drives at validated speeds of 13GB/min. This advanced technology also prepares the User with the hardware necessary to take advantage of tomorrow’s hard drive speed improvements, with the potential of 18GB/min transfer rates.

### 2 Multiple “Suspect” Side Connections

- 2 SATA/SAS connections and 2 USB 2.0.
- connections. Operator can choose to use either the SATA/SAS connection or the USB connection for each of the two “Suspect” 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).

### 3 Multiple “Evidence” Side Connections

2 SATA/SAS connections and 2 USB 2.0 connections. Optional Drive Adapters will allow imaging to many other drive formats including external RAID devices.

### 4 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.

### 5 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.
- Drive Images.

### 6 “On the Fly” Drive Image Encryption

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

### 7 Drive Spanning:

Solo-4 allows for the imaging from one large “Suspect” drive to two smaller “Evidence” drives

### 8 Image Restore

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

### 9 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.

### 10 Logs and Auditing

A complete and accurate, customizable audit report of all unit processes is provided in an unalterable PDF file that can be exported via USB connection.

### 11 Cell Phone Imaging Capable

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

### 12 Affordable

Unparallel performance and built-in features at an affordable price makes Solo-4 the perfect and most complete forensic solution for any digital forensic investigator today.



# Available Models

Solo-4 Forensics is available in two different models:

## Expansion/Storage Box - Ready unit:

The Solo-4 Expansion/Storage Box Ready unit ships with the Expansion Box controller card/port upgrade installed and ready to be used with the Optional Expansion/Storage Box.



## Expansion/Storage Box - Non Ready unit:

For customers that won't need the extra functionality of the Expansion/Storage Box, Solo-4 Forensics is available without the controller card/port installed. However if an upgrade is desired at a later time, the unit can be returned and upgraded for an additional charge.



## Expansion/Storage Box after purchase upgrade:

After market upgrade to add the Expansion/Storage Box functionality for units initially purchased as Non Expansion Ready units.

# Options

## Super Kit

The Solo-4 Forensic Super Kit Ships with the Expansion/Storage Box Ready Unit, LinkMASter PC and MAC Option and many useful accessories in a hard case. The kit contains:

- Solo-4 Expansion/Storage Ready Stand Alone Unit
- 4 SAS Data Cables and
- Power cables
- 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 mouse
- Mini 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 the functionality of the Solo-4 Forensic 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 purchased through ICS

## Digital Forensic Storage Solutions (DFSS)

The ICS 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.



# NEXT GENERATION ICS FORENSIC PRODUCT COMPARISON CHART

Features	IMSolo-101 Forensics	IMSolo-4 Forensics	IMSolo-4 Ruggedized	4000PRO Forensics	WipePRO
<b>Capture Configurations</b>					
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
<b>Interfaces Supported</b>					
SAS	N/A	4	4	8	8
SATA	2	4	4	9	9
	1	3	3	3	3
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
	N/A	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module	Optional Expansion Module
Fibre Flash Devices	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
<b>Maximum Speed Capability</b>	6.2 GB/min	18 GB/min	18 GB/min	18 GB/min	18 GB/min
<b>Average/ Typical Speed</b>					
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
<b>SHA-1/SHA-2 HASH H/W Acceleration</b>	YES	YES	YES	YES	N/A
<b>AES Encryption</b>	YES	YES	YES	YES	N/A
<b>Ethernet Connection</b>	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit
<b>Capture Modes</b>					
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
<b>Capture to External Storage</b>					
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
<b>ICS Storage Box Option</b>	YES	YES	YES	YES	N/A
<b>Wiping</b>					
DoD	YES	YES	YES	YES	YES
Single Pass	YES	YES	YES	YES	YES
Secure Erase	YES	YES	YES	YES	YES
<b>Portability</b>	Handheld	Handheld	Handheld	Small Footprint	Small Footprint
<b>Design Usage</b>	Single user	Single user	Single user	Mid Size	Large
<b>SAS/SATA Drive Caddy</b> Cable-Free with Built-in Fans (Select between 2.5" or 3.5")	N/A	N/A	N/A	One Standard	One Standard
<b>IDE Drive Caddy</b> Built-in Fans	N/A	N/A	N/A	Optional	Optional
<b>Open Drive Tray</b>	Optional	Optional	Optional	Optional	Optional



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