



## SuperImager Plus portable Forensic units

### 1) SuperImager Plus 8" NVMe + SATA Forensic Field Unit- Linux Forensic Imager with NVMe & Thunderbolt 3.0, Dual Boot

<http://www.media-clone.net/SuperImager-Plus-8-NVME-SATA-Forensic-Unit-p/sif-0037-00a.htm>

**Basic ports:** 2 NVMe ports (one source and one target extremely fast of 94GB/min with certain NVMe SSD) and 2 Native SATA ports (one source and one target max 32GB/min). In addition, there is one e-SATA port on the back of the unit, and 4 more on the TB Expansion Box (so total 7 SATA). The forensic investigator can use all the ports to copy across SATA/NVMe/USB ports

The TB 3.0 Expansion Box is included, and it uses TB3.0 technology with 40gigabit/s transfer rate, the forensic investigator can plug many storage controllers inside the Expansion Box (PCIE 3.0) and connect many different types of storage devices.

**The Application:** It all designed with touchscreen icons, easy to use, truly multi-sessions operation. A forensic investigator can run sessions as many as the number of available ports. All the sessions are independent from each other and there is no limitation on the number of parallel sessions. In every session, the forensic investigator can select to run different operation.

The application is elaborated with many features (Copy, HASH, Erase, Diagnostics..).

**Copy modes:** Mirror imaging, DD, E01/EE01- here the forensic investigator can adjust the compression level and how many CPU threads to run in parallel to do compression, Mix targets of E01/DD, Selective Imaging of files and folders for a mountable Suspect drive. Also the forensic investigator can run Quick Keyword Search prior to imaging, or Keywords Search part of the imaging, Encryption Decryption during the image AES 256, (also we have standalone decryption utility), 3 HASH value at the same time with HASH verification, script, remote access to the main unit, save to network, or capture from the network and more.

**Encrypted Drives:** Supports Drives that encrypted with BitLocker (if the forensic investigator knows the passcode), also support for drives that are SED (self-encrypted drives) if the forensic investigator knows the passcode.

### **Also included:**

- A. Activation for drive Virtual Drive Emulator – for Windows drives, the application bypasses the Windows Suspect passcodes and enables the investigator to copy important files from the Suspect drive.
- B. Remote capture KIT: Capture from unopened laptops directly into the unit using a crossover cable and using the supplied MC Linux bootable 64 bit USB stick.

The support for SAS drives is via the TB expansion Box with the use of optional SAS 4 ports controller

### **For the Windows Side and Dual Boot configuration:**

**Open OS**, the forensic investigator can load and run any 64-bit applications, since the hardware built is more than a laptop, then the performance of the unit is much higher. For example, running UFED Cellebrite on the SuperImager unit is faster than running it on the Cellebrite own laptop.

Run a full EnCase/FTK/Nuix/Magnet application and since the data is already captured and available, it makes it easy to go to the next step of analyzing the data. The MC supplied with a power utility application to power, write block or safely remove storage attached to the unit

### **2) SuperImager Plus 8" T3 Forensic Field Unit – Linux Forensic Imager with i7 and Thunderbolt port and NVMe port**

<http://www.media-clone.net/SuperImager-Plus-8-T3-Forensic-Field-Unit-i7-p/sif-0036-10a.htm>

The basic ports: 4 SAS/SATA ports + 8 USB3.0 ports + 1 TB3.0 ports + TB3.0 Expansion Box with M.2 to NVMe controller

The main differences between Unit #1 and Unit #2:

SAS support: Unit #2 has SAS 4 ports built-in and Unit #1 can use an optional SAS 4 ports controller that plugged inside the TB box.

NVMe support: Unit #1 has NVMe 2 ports built-in and Unit #2 has one NVMe M.2 port inside the TB box. For unit # 2: if the investigator needs more NVMe ports, he will need to add more TB boxes connected in a daisy chain

### **3) SuperImager Plus 12" Rugged Forensic Unit – Linux Forensic Imager with i7 (Optional Dual Boot)**

<http://www.media-clone.net/SuperImager-Plus-12-Rugged-Forensic-Field-Unit-p/sir-0040-10d.htm>

The main advantage of this unit is that is super rugged and has large 12" display - close and go.

It has: 4 SAS/SATA ports, 4 USB3.0 ports, one e-SATA port, 1 RJ45 port, 2 USB2.0 ports for Mouse and keyboard, HDMI port

### **Write-Blockers**

They are strongly hardware depended, using embedded FPGA and the ATA specs are hardware coded

into them. Usually, they create a bottleneck and reduce the data transfer bandwidth. Sometimes they do not recognize by some drives and you will need multiple of them to support multiple interfaces, so it does not make it so economic.

Data Capture is done by capturing the data into laptops (that also can create contamination of the Evidence). Also, the forensic investigator needs many laptops to run many data captures and laptops don't have great performances compare to a PC or servers!

## SuperImager Plus Desktop Forensic unit

**The main difference between those units is the number of Ports and ability to Expand:**

### 1) SuperImager Plus Desktop Pro Gen2 Forensic Lab

<http://www.media-clone.net/SuperImager-Plus-Desktop-Pro-Gen-2-Forensic-lab-p/sil-0002-00a.htm>

The basic ports: 8 SAS/SATA 6 USB3.0

Expansion: 10Gigabit, FC, SCSI, 1394, NVMe (There are some limitation on how many Expansion controllers can be plugged)

### 2) SuperImager Plus Desktop XL Forensic Lab

<http://www.media-clone.net/SuperImager-Plus-Desktop-Pro-Gen-3-Forensic-lab-p/sil-0003-00a.htm>

The basic ports: 8 SAS/SATA 6 USB3.0, 2 USB3.1, 2 TB 3.0 (enable connection to NVMe Expansion Box and other TB devices, include Mac)

3 PCIE Expansion slots: 10Gigabit, FC, SCSI, 1394

### 3) SuperImager Plus Desktop Gen3 with 16 Drives

<http://www.media-clone.net/SuperImager-Desktop-Pro-Gen-2-Forensic-lab-16port-p/sil-0004-00a.htm>

The basic ports: 16 SAS/SATA 8 USB3.0, 1 USB3.1

Expansion: SCSI, 1394 (There are some limitation on how many Expansion controllers can be plugged)

The forensic investigator can run 4 to 8 independent sessions of Imaging in parallel, with very little speed degradation or upload 8 to 16 to the network

Since the desktop units have many SAS/SATA ports and in order to make life easy for the operator, and to minimized the downtime, the application has 2 interesting settings:

Upload- mode : Where the application will set the rule of all the SAS/SATA ports to be source port, so every time the forensic investigator will scan for new plugged drives, the application automatically will detect them as source drives, and with the use the image to network feature, the forensic investigator can set the destination folders on the network. Imaging to the network is performed sequentially since the network bandwidth is always the bottleneck, but the forensic investigator can upload the images in parallel as well if he/she uses the 10Gigabit/s Ethernet option.

Image/Toggle mode - Where the application will automatically assign a pair of source/target, source/target role to the ports. So the forensic investigator can use port 1, 3, 5.. as source and 2, 4, 6.. as targets

[NVMe Desktop with 8 NVMe ports – coming soon](#)