FORENSIC Falcon® NEO2

The Premier Future-Proof and Scalable Digital Forensic Imaging Platform for Streamlining Collection Processes

- Image E01 from SAS-3 SSD to SAS-3 SSD at up to 115GB/min
- Clone PCIe to PCIe at speeds exceeding 100GB/min
- Wipe PCIe drives at speeds up to 115GB/min
- M.2 NVMe support for up to 5-to-5 simultaneous tasks with optional adapters
- Supports up to 10 source and 11 destination ports
- Support for AFF4 Capture
- Multi-task. Image from up to 5 sources simultaneously; Support for 4 SAS/SATA source drives are included with a 4-in-1 SAS/SATA cable
- All USB-A ports are 10Gbps
- 12Gbps SAS-3 support
- Image to/from Thunderbolt™ 3/USB-C external storage enclosures with an optional I/O card
- Standard Cloud Storage Acquisition software provides convenient capture of OneDrive, Google Drive, and Dropbox files
- Create a logical image targeting specific user/data files
- Concurrent Image+Verify greatly reduces duration of image plus verification process
- Network capture feature with 2 10GE ports. Capture to/from network location along with network traffic, VOIP, and internet activity
- Capture from mobile devices including Apple iPhones, iPads, Android phones and tablets with optional renewable software package

FEATURES

The Falcon®-NEO2 achieves E01 imaging from SAS-34 SSD to SAS-3 SSD at speeds up to **115GB/min.** Clone PCIe to PCIe at speeds exceeding **100GB/min**.

Image and verify to multiple image formats including native copy, .dd, dmg, e01 and ex01. The Falcon-NEO2 provides MD5, SHA1, SHA256, and dual hash authentication at extremely fast speeds.

10 write-blocked source ports include 4 SAS/SATA drives supported with 1 port, 2 USB 3.2 (Gen 2), 1 PCIe, 2 I/O ports for use with optional I/O cards including Thunderbolt™ 3/USB-C, 10GbE

11 destination ports include include 4 SAS/SATA drives supported with 1 port, 4 USB 3.2 (Gen 2) and 1 PCIe and 1 I/O port for use with optional I/O cards including Thunderbolt 3/USB-C, 10GbE

Concurrent Image+Verify takes advantage of destination hard drives that may be faster than the source hard drive. Duration of total image+verify process time may be reduced by up to half.

Targeted/Logical Imaging may shorten acquisition time. Create a logical image by using pre-set, custom, or file signature filters, and/or keyword search function to select and acquire only the specific files you need. Format output to L01, LX01, ZIP or directory tree.

Cloud Storage Acquisition (now included as a standard feature) allows you to acquire files from OneDrive, Dropbox, or Google Drive. Capture to any destination drive or network repository connected to Falcon-NEO2.

Capture critical digital evidence from **mobile devices, including Apple iPhones and Android phones** with an optional renewable software subscription. Capture SMS, MMS, photos, and videos. Supports up to iOS version 17.x and Android 4.0 and up.

Wipe feature lets users choose from Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process. Wipe at speeds of up to 30GB/min for SATA drives and up to **115GB/min for PCIe drives.**

Whole disk and partition level **encryption detection**. Easily identify Source drives with possible encryption.

Image directly to/from **Thunderbolt™ 3/USB-C**, **USB 3.1 Gen 2 external drives and enclosures** with an optional I/O card. Take advantage of Thunderbolt 3 technology's fast transfer speeds when imaging directly to Thunderbolt 3 RAID storage enclosures for evidence data collection. The card connects to the Falcon-NEO2's 2 write-blocked source I/O ports or 1 destination I/O port. The I/O card does not currently support imaging in TDM from Mac systems.

Two 10GbE network ports provide fast network imaging performance. Image to/from a network repository using CIFS or iSCSI. Connect to a 10GbE NAS as a source and connect to a network using the 2nd 10GbE port to minimize bottlenecks. Two ports provide a secure method to isolate the source network/NAS from the destination NAS/network.

Parallel Imaging allows users to perform multiple imaging tasks from the same source drive using different imaging formats to multiple destinations.

Image from a Mac computer with USB-C ports using a USB-C to USB-A cable and Target Disk Mode or use Logicube's USB boot device to image a source drive from a Mac computer on the same network without booting the Mac computer's native OS.

Image from a PC or laptop without removing hard drives. Create a forensic bootable USB flash drive to image a source drive from a computer on the same network without booting the computer's native OS.

File Browser/Write-Blocked Drive Preview provides logical access to source or destination drives and network connected repositories. View the drive's partitions and contents and view text files, jpeg, PDF, XML, HTML files. View the contents of .dd, e01, ex01, dmg, L01 image files created by Falcon-NEO2. Preview on a PC/laptop or over a network via SMB or as an iSCSI target.

BitLocker, OPAL, VeraCrypt, and TrueCrypt decryption support. Decrypt partitions or drives (requires the recovery key or password) and then image the selected partitions or drives. A password or a newly generated BEK (BitLocker Encryption Key) file is required to unlock FIPS-compliant BitLocker encryption.

FEATURES (continued)

- **APFS support.** The Falcon-NEO2 supports logical imaging (using our File to File mode) from drives formatted to APFS (Apple File System). Requires use of Advanced set-up, reference our user's manual for complete information. The Falcon-NEO2 can also view and browse APFS files using our file browser feature.

- **Secure sensitive evidence data** with whole drive, open standard drive encryption using the NIST recommended **XTS-AES 256 cipher mode.** Decryption can be performed using the Falcon-NEO2 or by using open-source software programs such as VeraCrypt, TrueCrypt, or FreeOTFE.

- Format destination drives to **NTFS, exFAT, HFS+, EXT4, EXT3, EXT2, or FAT32** file systems. Image from source drives formatted to any major file system.

- **Multi-Tasking** allows imaging, wiping, and hashing with multiple sources and multiple destinations, simultaneously. Perform up to 5 tasks concurrently.

- **Capture path selection.** Add folders to the destination repository and then select and image to the named folder. Empty folders can be deleted, and folders can be renamed.

- **Audit trail/log reports** provide detailed information on each task. A digital signature is included in the report for authentication purposes. Reports are available in PDF, HTML, or XML format and users can export individual or all log reports to a USB flash drive.

- **Capture network traffic, internet activity, and VOIP.** Sniff data on a network and store captured packets on a hard drive connected to Falcon-NEO2, data is saved to a .pcapng file format.

- **Additional features** include remote operation, internal removable storage drive for secure/classified locations, partition imaging, a task macro, a resume feature for interrupted tasks, image restore, reverse read, network "Push" feature, HPA/DCO capture, save configuration settings and set password-protected user profiles, image from CD/DVD Blu-Ray media, drive spanning, color touchscreen display, HDMI port, USB 3.2 ports for keyboard, mouse, or printer, blank disk check, drive trim, and S.M.A.R.T. data.

OPTIONS

- **Thunderbolt/USB-C I/O card:** An optional I/O card supports imaging directly to/from Thunderbolt 3/USB-C and USB 3.1 Gen 2 external drives and storage enclosures. The card connects to either of the 2 write-protected source I/O ports or 1 destination I/O port.

- **SCSI Module:** The SCSI Module connects to either of the PCIe ports and can provide 1 write-protected 68-pin SCSI source or destination port. Optional adapters are available for 50-pin and 80-pin SCSI drives.

- **Fibre Channel Module:** The Fibre Channel Module connects to either of the PCIe ports and provides support for imaging to or from one 40-pin Fibre Channel drive. An additional kit is available to allow cloning to and from two 40-pin Fibre Channel drives.

- **FireWire Module:** The FireWire Module connects to either PCIe port and can provide 1 write-protected FireWire source or destination port.

- **Mobile Device Capture Option:** This optional renewable software subscription expands the functionality of the Falcon-NEO2 with a convenient method to quickly acquire potential evidence data from mobile devices including Apple iPhones, iPads, Android phones, and tablets.

- PCIe adapter kit for M.2 (NVMe/SATA/AHCI) and mini-PCIe cards.

- mSATA to SATA adapter (1 included with Falcon-NEO2)

- Micro SATA to SATA adapter (1 included with Falcon-NEO2)

- eSATA cable (1 included with Falcon-NEO2)

- M.2 NVMe to USB adapter

- 2.5"/3.5" IDE to SATA adapter

- U.2 NVMe to PCIe adapter

- 1.8" ZIF to 1.8" IDE and 1.8" IDE to SATA adapter

- USB Flash Reader for various flash media including compact flash and SD cards

- USB SATA Kit Includes 4 USB3 to SATA adapters and a specialty single power cable for converting the four USB Destination ports from USB to SATA

- 4-port USB 3.0 hub

- USB to SATA adapter allows you to connect SATA drives to the USB 3.0 ports

- Hard Case

- SATA/SAS data & power replacement cable

- Extended 1-year and 2-year warranties

- Hard Case

- 50-pin to 68-pin SCSI adapter for use with the Falcon-NEO2 SCSI Module Option

- 80-pin to 68-pin SCSI adapter for use with the Falcon-NEO2 SCSI Module Option

IN THE BOX

The Falcon-NEO2 is shipped in a soft-sided carrying case that includes:

- Power supply & US power cord
- 2 1-to-4 SAS/SATA data & power cables
- 2 CAT7 network cables

- eSATA cable
- mSATA to SATA adapter
- micro SATA to SATA adapter

- USB 3.0 male type A to USB 3.1 male type C cable

SPECIFICATIONS

Power Requirements	Power Consumption	Operating Temperature	Net Weight	Dimensions	Agency Approvals
12V DC, grounded 21A	250W	0 to 40° C (32 to 104° F)	3.35 lbs 1.52 kg	10" X 6.75" X 3.25" 254 mm X 171.45 mm X 82.55 mm	RoHS Compliant FCC Part 15 Class A CE