

A Future-Focused Digital Forensic Imager Designed to Streamline Evidence Collection Processes

- Extremely fast forensic imaging speed surpassing 50 GB/min.
- Clone PCIe to PCIe at speeds above 90 GB/min.
- Image to/from Thunderbolt™ 3/USB-C external storage enclosures with an optional I/O card.
- Image and Verify from up to 5 source drives up to 9 destinations simultaneously.
- Create a logical image targeting specific user/data files.
- Concurrent Image+Verify greatly reduces duration of image plus verification process.
- Two 10GbE connections provide fast network imaging performance.
- Network capture feature to capture network traffic, VOIP, internet activity.
- Multi-task. Image from up to 5 sources simultaneously.
- Capture from mobile devices including Apple® iPhones, iPads, Android phones and tablets with optional renewable software package.
- Cloud storage acquisition software option provides convenient capture of OneDrive, Google Drive, and Dropbox, files.
- Secure Erase NVMe SSDs.
- S.M.A.R.T. reporting for all drives involved in Drive to File, Drive to Drive, and Wipe tasks



FEATURES

- The Falcon®-NEO achieves imaging speeds **surpassing 50 GB/min** and can clone PCIe to PCIe at speeds at over 90 GB/min.
- Image and verify to multiple image formats;** native copy, .dd, dmg, e01 and ex01. The Falcon-NEO provides MD5, SHA1, SHA256, and dual hash authentication at extremely fast speeds.
- 6 write-blocked source ports** include 2 SAS/SATA, 1 USB 3.0, 1 PCIe, 2 I/O ports for use with optional I/O cards including Thunderbolt™ 3/USB-C.
- 9 destination ports** include 2 SAS/SATA, 2 SATA, 3 USB 3.0 and 1 PCIe and 1 I/O port for use with optional I/O cards including Thunderbolt 3/USB-C.
- Concurrent Image+Verify.** Imaging and verifying concurrently 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 shortens 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** software subscription allows you to acquire files from Google Drive or Dropbox. Use Falcon-NEO file to file mode to browse files, use filters or keyword search to select and acquire information. Capture to any destination drive or network repository connected to Falcon-NEO.
- Capture critical digital evidence from **mobile devices, including Apple® iPhones and Android phones** with an optional renewable software subscription. Capture SMS, MMS, photos, videos. Supports up to iOS version 15.x and Android 4.0 and up.
- 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. Organizations can take advantage of Thunderbolt 3 technology's fast transfer speeds when imaging directly to large capacity Thunderbolt 3 RAID storage enclosures for evidence data collection. The card connects to the Falcon-NEO'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, refer to the Falcon-NEO users' manual on how to image from Mac systems in TDM using USB ports or our iSCSI boot device.
- 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.** Perform multiple imaging tasks from the same source drive to multiple destinations using different imaging formats.
- 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. The Falcon-NEO supports imaging from **MacBook Pro® systems.**
- 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. Supports **Surface Pro 4 and above** laptops.
- File Browser/Write-Blocked Drive Preview.** Provides logical access to source or destination drives and network repositories connected to Falcon-NEO. 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-NEO. Preview on a PC/laptop or over a network via SMB or as an iSCSI target.
- Multi-Task.** Image from multiple sources to multiple destinations, including a network repository, simultaneously. Image to one destination while hashing and/or wiping a second drive at the same time. 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.



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FEATURES (continued)

- **APFS Support.** The Falcon-NEO 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 users' manual for complete information. The Falcon-NEO can also view and browse APFS files using our file browser feature.
- **Built-in support for SAS/SATA/USB3/PCIe** storage devices. Thunderbolt™ external storage solutions are supported with an optional I/O card. PCIe M.2, including NVMe drives, PCIe cards, IDE drives and flash drives require optional adapters. SCSI and FireWire® devices are supported with optional modules that connect to the Falcon-NEO's PCIe ports. Adapters for mSATA, micro SATA and eSATA drives are included with the unit.
- **Format destination drives to NTFS, exFAT, HFS+, EXT4, EXT3, EXT2, or FAT32** file systems. Image from source drives formatted to any major file system.
- **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.
- **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-NEO or by using open source software programs such as VeraCrypt, TrueCrypt or FreeOTFE.
- **Network Capture.** Capture network traffic, internet activity, and VOIP. Sniff data on a network and store captured packets on a hard drive connected to Falcon-NEO, data is saved to a .pcapng file format.
- **Wipe drives to DoD specifications** or use secure erase to wipe drives. Wipe at speeds of 30 GB/min for SATA drives and 72 GB/min for PCIe drives.
- **Audit trail/Log files** provide detailed information on each operation. Log files can be viewed on Falcon-NEO or via a web browser, exported to XML, HTML or PDF format to a USB enclosure.
- **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 3.0 ports for keyboard, mouse, or printer, blank disk check, drive trim, and S.M.A.R.T. data.

**The Forensic Falcon-NEO achieves speeds surpassing 50 GB/min using solid-state "suspect" drives that contain a freshly installed Windows "X" OS and random data and solid-state destination drives. Settings used are e01/ex01 image format, with compression and with verify "on". The specification and condition of the suspect hard drives as well as the mode, image format, and settings used during the imaging process may affect the achieved speeds.*

OPTIONS

- **Mobile Device Capture Option.** Capture data from unlocked mobile devices. Annual, renewable software subscription
- **Cloud Storage Acquisition Option.** Acquire files stored in supported cloud drives. Annual, renewable software subscription.
- **PCIe adapter kit** includes adapters for M.2 PCIe, M.2 SATA, M.2 NVMe, mSATA, PCIe and mini-PCIe cards
- **Fibre Channel Module** 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.
- **The Thunderbolt™ 3/USB-C I/O card** provides support for Thunderbolt storage enclosures. Card connects to any of Falcon-NEO's I/O ports, including 2 write-protected source I/O ports and 1 destination I/O port.
- **The FireWire Module** provides 1 FireWire port that can be used as either source (write-protected) or destination. Module connects to the PCIe ports on the Falcon-NEO.
- **The SCSI Module** provides 1 68-pin SCSI port that can be used as either source (write-protected) or destination. Module connects to the PCIe ports on the Falcon-NEO.
- **USB 3.0 4-port hub**
- **USB 3.0 to SATA adapter** to connect SATA drives to the USB 3.0 ports
- **USB Power cable** eliminates the need for additional power supplies when using USB to SATA adapters connected to USB ports on the Falcon-NEO
- **2.5"/3.5" IDE, 1.8" IDE to SATA, 1.8" ZIF** adapters, flash media reader
- **18" extended length SAS/SATA cable set**
- **Extended 1-year and 2-year warranties**
- **Hard case (Pelican type)**

IN THE BOX

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

- Power supply & US power cord
- 6 SAS/SATA data & power cables
- 2 CAT7 network cables
- eSATA to SATA cable (18")
- mSATA to SATA adapter
- micro SATA adapter
- USB 3.0 male type A to USB 3.1 male type C cable
- 6 6-pin SATA power plugs for eSATA drives
- Users' manual on CD-ROM

SPECIFICATIONS

Power Requirements	Power Consumption	Operating Temperature	Relative Humidity	Net Weight	Dimensions	Agency Approvals
12 VDC, grounded 21 Amp	< 200 W with drives	0 to 40° C (32 to 104° F)	20% to 80%	3.0 lbs / 1.36 kg	10" X 6.75" X 3.25" 25.4 cm X 17 cm X 8.2 cm	RoHs compliant FCC Part 15 Class A CE

