HDClone 7

Miray

Cloning | Backup | Migration | Rescue

Hard disks, SSDs & USB drives

New: NVMe and M.2 SSDs

New: SmartCopy for ReFS & XFS

New: 64 bit HDClone/W

VHDX, VMDK and VDI

Editions

- Free Edition [F*]
- Basic Edition [W,V*]
- Standard Edition [W,V*]
- Advanced Edition [W,V*]
- Professional Edition [W,V,T,M*]
- Enterprise Edition 4x/8x/16x [M*]

Highlights

- HotCopy, LiveImage, SmartCopy
- SmartImage for NTFS, FAT, HFS+, ext, ReFS, XFS
- Mounting file images as Windows drives
- **New:** HDClone/L for LAN, SAS/SCSI & RAID
- TRIM for SSDs with SATA, IDE, SAS and SCSI
- Disks above 2 TB and with Advanced Format [1)]

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HDClone is the universal cloning solution for storage media and includes backup, data rescue, migration and mass-copy.

The core of HDClone is a specially developed CopyEngine, making it one of the fastest cloning applications in the world.

Running with and without Windows
HDClone can be started self-booting or in Windows, offering the familiar drive letters, dynamic volumes, RAIDs and media requiring special Windows drivers to be used for copying.

Automation
The command line interface (CLI) for Windows can be used from batch scripts or the task scheduler for predefined tasks. Specify drives by ID, port, device name and/or serial number.

Fault tolerance with SafeRescue
Special strategies for reading defective sectors and a timely preferred rescuing of healthy data areas.

File images and VM images – NEW: ExFAT & HFS+
Storing images on FAT and NTFS media, on network drives[2] and optionally compressed and/or encrypted, or in VM format (VMDK/VHDX/VDI) for VMware/VirtualPC/VirtualBox.

HotCopy & LiveImage
Consistent copies and images – even at runtime ('live') in Windows and even of the system volume itself.

Adjusting partition sizes & Defragmentation – NEW: ExFAT
HDClone can automatically enlarge, shrink and defragment NTFS, FAT & HFS+ during copying.

Faster with SmartCopy & SmartImage – NEW: ReFS & XFS
Smart images and copies (NTFS/FAT/HFS+) additionally save storage and time. Perfect for backup and migration.

TRIM keeps SSDs fast
The TRIM command optimizes SSDs, reviving their original performance during cloning and for subsequent use.

Edition overview

Complete comparative matrix at:
miray-software.com/HDClone

	Free	Basic	Standard	Advanced	Professional	Enterprise
Max. copying throughput MB/sec	30	50	60	∞[3]	∞[3]	∞[3]
IDE, SATA, USB	●	●	●	●	●	●
SSD performance enhancement with TRIM				●	●	●
SAS/SCSI und RAID [6]					●	●
Dynamic Disks as source					●	●
Intel Software RAID 0/1/10/5					●	●
SATA hotplug & Port-Multiplier						●
HotCopy	●	●	●	●	●	●
Enlarging file system's size	●	●	●	●	●	●
Shrinking file system's size			●	●	●	●
SafeRescue data retaining			●	●	●	●
SmartCopy & SmartImage				●	●	●
InherentDefrag				●	●	●
Advanced Format (4K sectors) [1]				●	●	●
Verification mode				●	●	●
Command line interface (CLI)					●	●
Storing a report (PDF)					●	●
MultiCopy (4x, 8x, 16x)						●
NTFS, FAT (FAT16 & FAT32)	●	●	●	●	●	●
New: ExFAT				●	●	●
HFS+ (Apple), ext (Linux)				●	●	●
New: ReFS (Windows Server), XFS (Linux Server)					●	●
LiveImage			●	●	●	●
SmartImage				●	●	●
Compressed images				●	●	●
Differential images/backups					●	●
QuickCompress					●	●
AES-encrypted images					●	●
Images on Network shares [2]					●	●
Creating VM images (VMDK, VHD, VHDX, VDI)					●	●
Miray Virtual Disk (MVD)			●	●	●	●
Multiple mounted volumes		1	1	7	7	7
Mounting VM images (VMDK, VHD, VHDX, VDI)					●	●
Writeable virtual volumes					●	●
HDClone/W + HDClone/S (32 bit)	●	●	●	●	●	●
New: HDClone/W (64 bit)					●	●
New: HDClone/L (SAS/SCSI, RAID, LAN) [6]					●	●

Technical Data

Areas of use
- Migrating or duplicating entire system installations
- Data backup, data rescue, system recovery
- Mass installation of computer systems (roll-out, deployment)
- Clone, backup or rescue proprietary file systems
- Copies between SATA, IDE, USB, Firewire, SCSI, SAS & RAID

HDClone/S & HDClone/L (self-booting)
Variant /L adds a Linux base to the normal /S variant, including support for SAS/SCSI, RAID and LAN [6].
- PC Pentium III or better, 512 MB RAM, CD- or USB boot

HDClone/W (Windows-Application)
Launch HDClone directly
- Windows XP (SP2), Vista, 7, 8/8.1
- Windows Server 2003, 2008, 2008 R2, 2012 [4]

Supported Media
- IDE-, ATA-, SATA- & eSATA hard disks & SSDs, CompactFlash
- USB hard disks, USB thumb drives, SCSI hard disks [6]
- SD/SDHC/MMC, CompactFlash, xD, Memory Stick etc.
- Firewire/IEEE1394 hard disks (internal & external) [4]
- Dynamic Disks, RAID, SAS [2] and other [2]

Supported Controllers [5]
- SATA, SATA-II, SATA 6G over IDE/AHCI, M.2 SSDswith NVMe
- USB 1.1/2.0/3.0/3.1 controllers with UHCI/OHCI/EHCI/XHCI
- Firewire/IEEE1394 controllers with OHCI
- SAS/SCSI host adapters [6]

Features dependent on edition. *) License types: F=Freeware | W=Workplace | V=Volume | T=Technician | M=Maintenance 1) copying different sector sizes (512, 1K, 4K) 2) Windows only 3) hardware speed limits apply 4) requires Professional 5) Windows: all Mass-Storage-Controllers 6) self-booting only Adaptec SCSI-Adapters: miray-software.com/scsi