

m Miray

Cloning - Backup - Migration - Rescue



HDD, SSD, NVMe, USB, Flash, SD

New: DataSelect

New: Resize Bootable Linux

New: Spot File Manager

New: DiskTest for Storage Media

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

- HotCopy, LiveImage, SmartCopy
- New: SmartImage for Ext, Btrfs, APFS
- New: Directly mount images as 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⁾









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.

Runs with or 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 the reading of defective sectors and timely preferred rescuing of healthy data areas.

File Images and VM Images - NEW: Save to Ext

Save images to FAT, NTFS, ExFAT, HFS+ and Ext media, network drives²⁾ and optionally compressed and/or encrypted, or in VM format (VMDK/VHDX/VDI) for VMware/VirtualPC/VirtualBox.

HotCopy & LiveImage - NEW: with Verification

Creating clones and images – even at runtime ('live') in Windows and even of the system volume itself, plus verification.

Adjusting Partition Sizes & Defragmentation

HDClone can automatically enlarge, shrink and defragment NTFS, FAT & HFS+ during copying.

Faster with SmartCopy & SmartImage

SmartImages and SmartCopies save additional storage space and time. Perfect for faster backup, cloning and migration.

NEW: DataSelect - Select Files and Folders

Include or exclude individual files and folders for partial backups or to facilitate migration to smaller disks (SSD, NVMe).

Complete comparative matrix at: miray-software.com/HDClone	Ф	Basic	Standard	Advanced	Professiona	Enterprise
	Free					
Max. copying throughput MB/sec	30	50	60	$\infty_{3)}$	$\infty_{3)}$	∞^3
IDE, SATA, USB	٠	٠	٠	٠	٠	٠
SSD performance enhancement with TRIM				•	•	•
SAS/SCSI und RAID ⁶⁾ , NVMe and M.2					٠	٠
Dynamic Disks as source					•	•
SATA hotplug & Port-Multiplier						٠
HotCopy	•	•	•	•	•	•
Enlarge file system size	•	•	•	•	•	•
Shrink file system size		٠	•	•	•	•
SafeRescue data retaining		•	•	•	•	•
SmartCopy & SmartImage			•	•		•
Advanced Format (4K sectors) 1)			•	•	•	•
Verification mode, New: HotCopy & Live Image						•
Command line interface (CLI)					•	
Save a report (PDF)						
MultiCopy (4x, 8x, 16x)						
NTFS, FAT (FAT16 & FAT32)	•	•				•
ExFAT						
HFS+ (Apple), Ext (Linux), APFS (Apple)						•
ReFS (Win Server), XFS (Linux Server), Btrfs						
Livelmage		•		•		
SmartImage						
Differential images/backups						
QuickCompress & StrongCompress						
New: Raspberry Pi and Windows 10 IoT Images						
AES-encrypted images						
Images on Network shares 2)						
VM Images – VMDK, VHDX, VDI, DMG						
New: Spot File Manager			0	0		
New: DiskTest for Storage Media						
Miray Virtual Disk (MVD)		•		•		
Multiple mounted volumes		1	1	7	7	7
Mounting VM Images						
New: Command line interface (CLI)						
HDClone/W + HDClone/S (32 bit)						
HDClone/W64 & New: HDClone/S64 (64 bit)						
New: HDClone/L (SAS/SCSI, RAID, LAN) 6)						-

Technical Data

Areas of Application

- Migrate or duplicate entire system installations
- Data backup, data rescue, system recovery
- Mass installation of computer systems (roll-out, deployment)
- Clone, backup or rescue proprietary file systems
- Copy between HDD, SSD, NVMe, USB, SCSI, SAS & RAID

HDClone/S, HDClone/S64 & HDClone/L (Self-booting) Self-booting variants for 32 bit (/S), 64 bit (/S64) and Linux-based (/L) for SAS/SCSI. RAID and LAN ⁶⁾.

• PC Pentium III or higher, 512 MB RAM, CD or USB boot

HDClone/W (Windows Application)

Launch HDClone directly on Windows.

- Windows XP (SP2), Vista, 7, 8/8.1, 10
- Windows Server 2003, 2008, 2008 R2, 2012, 2016 4)

Supported Media

- IDE-, ATA-, SATA- & eSATA hard disks, SSDs and NVMe
- USB hard disks. USB sticks. USB SSDs
- SD/SDHC/MMC, CompactFlash, xD, Memory Stick etc.
- Firewire/IEEE1394 hard disks (internal & external) 4)
- Dynamic Disks, RAID, SAS²⁾ and others²⁾

Supported Controllers 5)

- SATA, SATA-II, SATA 6G over IDE/AHCI, M.2 SSDs with 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⁾

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