



HDClone 5

Copy | Backup | Migration | Rescue



► Free Edition

Simple 1:1 copying solution at no cost, very suitable for one-time system migration

► Basic Edition

Basic functionality for private use, especially for backup and system migration

Standard Edition

Backup, migration and data rescue solution for home or small office environments

Advanced Edition

High performance solution for backup, migration and data rescue with SSD support

Professional Edition

Universal disk cloning with high speed and special options for the professional user

► Enterprise Edition 4x | 8x | 16x High-speed data feeding of up to 4/8/16 disks or other storage media at a time

Highlights

- ► HotCopy, LiveImage, SmartCopy
- ▶ Downsizing and Defragmenting NTFS & FAT
- ► File images (VMDK/VHD(X)/VDI, password)
- ▶ Disks with Advanced Format* and > 2 TB
- ► Using file images as virtual drives

New in HDClone 5

- ► Cloning and backing up Intel SATA RAID
- ▶ USB and SATA hotplug, Port-Multiplier
- ► Creating dynamic VHDX & VDI images
- ▶ MVD: Virtual drives from VHDX & VDI
- ► ATA password & TRIM for IDE and SATA

 $^{^{*}}$ Copying between disks with different sector sizes (512 bytes, 1K, 4K)



Edition overview

	Free	Basic	Standard	Advance	Professio	Enterpris
Max. copying throughput MB/sec	30	50	60	-x	- oo	∞
IDE, SATA, USB	•	•	•	•	•	•
New: Unlocking ATA password protection	0	0	0	•	•	•
New: TRIM command for enhancing SSDs	0	0	0	•	•	•
New: Intel Software RAID 0/1/10/5	0	0	0	0	•	•
SCSI support 9) & Firewire / IEEE1394	0	0	0	0	•	•
Neu: SATA hotplug & Port-Multiplier	0	0	0	0	0	•
HotCopy	•	•	•	•	•	•
SafeRescue mode	0	•	•	•	•	•
Advanced Format	0	0	•	•	•	•
Downsizing & Defrag (FAT & NTFS)	0	0	•	•	•	•
Verification mode	0	0	•	•	•	•
SmartCopy	0	0	•	•	•	•
Command line interface (CLI)	0	0	0	0	•	•
Storing a cloning report	0	0	0	0	•	•
MultiCopy (4x, 8x, 16x)	0	0	0	0	0	•
Livelmage	0	•	•	•	•	•
SmartImage	0	0	•	•	•	•
Password protected images	0	0	•	•	•	•
Compressed images	0	0	•	•	•	•
QuickCompress	0	0	0	•	•	•
StrongCompress	0	0	0	0	•	•
New: 256-bit AES-encrypted images	0	0	0	0	•	•
Network shares 2)	0	0	0	0	•	•
New: Hidden network shares 2)	0	0	0	0	•	•
Dynamic VMDK & VHD images	0	0	0	0	•	•
New: Dynamic VHDX & VDI images	0	0	0	0	•	•
Miray Virtual Disk	0	•	•	•	•	•
Managed file images	0	1	1	1	•	•
Multiple mounted volumes	0	1	1	1	7	7
Mounting VMDK & VHD images	0	0	0	0	•	•
New: Mounting VHDX & VDI images	0	0	0	0	•	•
Mounting directly from network shares	0	0	0	0	•	•
Writeable virtual volumes	0	0	0	0	•	•

HDClone 5

HDClone is the universal copying solution for storage media. Uses include backup, data rescue, migration and mass-copy

Windows XP/Vista/7/8/8,1 and Server 2003-2012

HDClone can be started self-booting¹⁾ or in Windows²⁾, 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 by scripts or the task scheduler for predefined tasks. Drives can be specified by ID, port, device name and/or serial number.

Fault tolerance

HDClone contains strategies to rescue defective sectors. Moreover, defective sectors will not obstruct the copying process.

File images - NEW: Dynamic VHDX & VDI images

HDClone stores images on FAT and NTFS media as well as on network drives⁷⁾ as optionally compressed and encrypted, or as dynamic VMDK/VHDX/VDI for VMware/VirtualPC/VirtualBox.

HotCopy & Livelmage in Windows at runtime

In Windows, HDClone creates consistent copies and images at runtime ('live') – even of the system volume itself.

Adjusting partition sizes & Defragmentation ('on-the-fly')

HDClone can expand NTFS, FAT & Ext partitions, downsize and defragment NTFS & FAT partitions during copying.

SmartCopy & SmartImage

Logical images and copies (NTFS/FAT/ext2-ext4) save a huge amount of storage and time. Perfect for backup and migration.

NEW: TRIM command

The TRIM command can optimize SSDs by binging their original high performance back for the copying process and further use.

Areas of use

- ► Migrating or duplicating entire system installations
- ▶ Data backup / data rescue / system recovery
- ► Mass installation of computer systems (roll-out, deployment)
- ► Copy/backup/rescue 'exotic' and proprietary file systems
- ► Copying between SCSI, IDE, USB, Firewire, SATA, SAS & RAID
- ► Forensics, rescuing and securing of evidence

Hardware requirements 3)

- ► PC 586+/64 MB, VGA, keyboard & mouse (PS/2 or USB)
- ▶ Bootable floppy disk or CD/DVD drive or USB medium

Supported Media

- ► IDE-, ATA-, SATA- & eSATA hard disks, CompactFlash (IDE) 4)
- ► SCSI hard disks ⁹⁾, USB hard disks, USB keys ⁵⁾
- \blacktriangleright SD/SDHC/MMC 6), CompactFlash 6), xD 6), Memory Stick 6 etc.
- ► Firewire/IEEE1394 hard disks (internal & external)
- ▶ Dynamic Volumes, SAS, RAID and other 7)

Supported Controllers 8)

- ▶ PCI IDE controllers / Busmaster IDE controllers
- \blacktriangleright SCSI host adapters $^{9)}$, SATA/SATA-II controllers with IDE/AHCI
- ► USB 1.1/2.0/3.0 controllers with UHCI/OHCI/EHCI/XHCI
- ► Firewire/IEEE1394 controllers with OHCI

Manufacturer

Miray Software AG Gaißacher Straße 18 81371 Munich GERMANY

More Information

Homepage: <u>miray-software.com</u>

Product page: <u>miray-software.com/HDClone</u> Online shop: <u>miray-software.com/Shop</u>

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