



HDClone 4.3

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

Home office / small office solution for backup, migration, and data rescue

► Professional Edition

Universal disk cloning solution for professionals with high speed and special options

► 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
- Protected file images (password + AES)
- NTFS/FAT: resizing (scaling up and down)
- PartitionSelect & 'on-the-fly' Defrag
- Using file images as Windows drives

New in HDClone 4.3

- Creating dynamic VMDK/VHD images
- Copying from/to Advanced Format*
- Storing a cloning report (with errorlist)
- MVD: virtual drives from VMDK & VHD
- CLI: automation using Ports and Media-IDs

* Copying between volumes with different sector sizes (512 bytes, 1K, 4K)



HDClone 4.3

HDClone is the universal copying solution for storage media, to be used for backup, data rescue, migration and mass-copy

Windows XP/Vista/7/8 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 – NEW: ports, device names and serial numbers

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 VMDK and VHD images

HDClone stores images on FAT and NTFS media as well as on network drives⁷⁾ and optionally compressed and encrypted, or as dynamic VMDK/VHD image for use in VMware & VirtualPC.

HotCopy & LiveImage 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, and ext2 partitions, downsize and perfectly defragment NTFS and FAT partitions automatically during copying – with just little additional time required.

SmartCopy & SmartImage

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

Edition overview

	Free	Basic	Standard	Professional	Enterprise
IDE, SATA, USB	●	●	●	●	●
SCSI support ⁹⁾ & Firewire / IEEE1394	○	○	○	●	●
Max. copying throughput MB/sec	30	50	60	∞	∞
HotCopy	●	●	●	●	●
SafeRescue mode	○	●	●	●	●
LiveImage	○	●	●	●	●
NEW: Advanced Format	○	○	●	●	●
Downsizing & Defrag (FAT & NTFS)	○	○	●	●	●
Verification mode	○	○	●	●	●
SmartCopy & SmartImage modes	○	○	●	●	●
Password protected images	○	○	●	●	●
PartitionSelect	○	○	●	●	●
QuickCompress, StrongCompress	○	○	○	●	●
AES-encrypted images	○	○	○	●	●
NEW: Dynamic VMDK/VHD images	○	○	○	●	●
Command line interface (CLI)	○	○	○	●	●
NEW: CLI: port, device & serial number	○	○	○	●	●
NEW: Storing a cloning report	○	○	○	●	●
MultiCopy (4x, 8x, 16x)	○	○	○	○	●
Miray Virtual Disk	○	●	●	●	●
Managed file images	○	1	1	●	●
Multiple mounted volumes	○	1	1	7	7
NEW: Mounting VMDK/VHD images	○	○	○	●	●
Network shares	○	○	○	●	●
Writeable virtual volumes	○	○	○	●	●
Private use	●	●	●	●	●
Companies/Institutes	○	○	●	●	●
Technician license	○	○	○	●	●

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⁾
- ▶ 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
- ▶ 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 Str. 18
81371 Muenchen
GERMANY

More Information:

Homepage: www.miray.de
Product page: www.miray.de/products/sat.hdclone.html
Online shop: www.miray.de/order/sat.hdclone.html
Email contact: info@miray.de

1) SP = self-booting program 2) WP = Windows progra 3) WP: the hardware requirements of Windows apply 4) media with TrueIDE support 5) using the USB-Mass-Storage-Class protocol 6) using a card reader (USB/Firewire) 7) WP only 8) WP: all controllers managed by a Windows driver 9) SP: Adaptec SCSI adapters only, see www.miray.de/products/scsicompat.html