



HDClone 4.1

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 back-up, 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 fuelling of up to 4/8/16 disks or other storage media at a time

Highlights

- ▶ HotCopy & LiveImage
- ▶ Compressed file images
- ▶ Downsizing and Defragmenting NTFS & FAT
- ▶ Command-Line-Interface (CLI)
- ▶ Using file images as virtual drives

New in HDClone 4.1

- ▶ File image protection (password & AES)
- ▶ **Writing** virtual drives (with 'Undo')
- ▶ Mounting file images from LAN
- ▶ Creating VMware VMDK and VMX files
- ▶ GPT/GUID partition support



HDClone 4.1

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

Self-booting & Windows XP/Vista/7/Server

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: resizing & protection/encryption

In Windows, HDClone can be invoked by shell-scripts, short-cuts, or the task scheduler for predefined, automated actions.

Fault tolerance

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

File images & data compression – NEW: protection/encryption

HDClone stores images on FAT and NTFS media as well as on network drives⁷⁾ and will compress the data if desired.

HotCopy & LiveImage in Windows at runtime

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

Defragmentation ('on-the-fly')

HDClone can perform perfect defragmentation of file systems during copying – with only minimal additional time required.

Adjusting partition sizes

HDClone can expand NTFS, FAT and ext2-ext4 partitions automatically during copying and downsize NTFS and FAT partitions.

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	●	●	●	●	●
USB 3.0	○	○	●	●	●
Storage media/hard disks > 2 TB	○	○	○	●	●
SCSI support ⁹⁾ & Firewire / IEEE1394	○	○	○	●	●
Max. copying throughput MB/sec	30	50	60	∞	∞
HotCopy	●	●	●	●	●
NEW: GPT partitions	●	●	●	●	●
SafeRescue mode	○	●	●	●	●
LiveImage	○	●	●	●	●
Downsizing & Defragmentation	○	○	●	●	●
Verification mode	○	○	●	●	●
SmartCopy & SmartImage modes	○	○	●	●	●
NEW: password protected images	○	○	●	●	●
NEW: AES-encrypted images	○	○	●	●	●
VMDK images + VMX files	○	○	○	●	●
NEW: resizing & protection via CLI	○	○	○	●	●
MultiCopy (4x, 8x, 16x)	○	○	○	○	●
Miray Virtual Disk	○	●	●	●	●
Managed file images	○	1	1	7	●
Multiple mounted volumes	○	1	1	7	7
NEW: Converting images to RAW	○	○	○	●	●
NEW: Mounting images from LAN	○	○	○	●	●
NEW: 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/scsicomp.html