



# HDShrepper 4

Secure Deletion of Hard Disks & Mass Storage Media



## ► Free Edition

Easy-to-use and free-of-charge solution for secure data deletion for private use.

## ► Basic Edition

For occasional use on private computers for high security hard disk and media deletion.

## ► Standard Edition

Standard compliant, high security data deletion for home and small-office use.

## ► Professional Edition

Universal professional solution for standard compliant deletion with deletion report.

## ► Enterprise Edition 4x | 8x | 16x

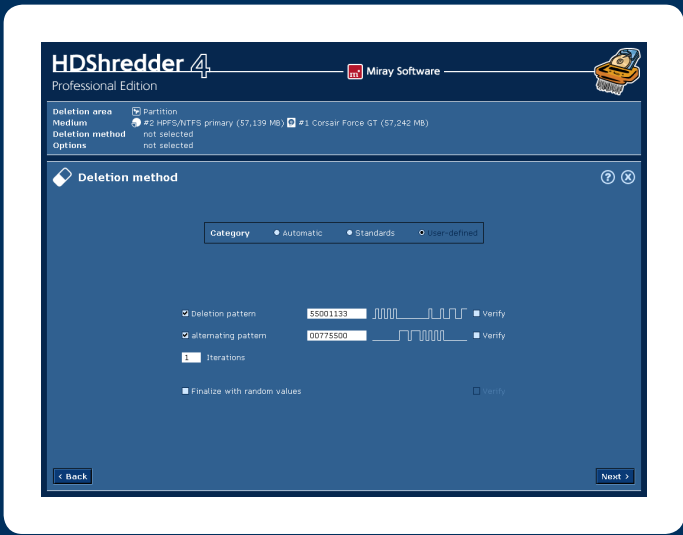
Efficient mass-deletion of up to 16 disks at a time for service providers and businesses.

## Highlights

- Secure data deletion – simple operating
- Self-booting and under Windows
- High deletion performance
- Supporting 15 international standards
- Overwrites media up to 199 times

## New in HDShrepper 4

- USB 3.0 hard disks and storage media
- Running on Windows 8 / Server 2012
- Command line interface (CLI)
- Compatible with new BIOS types (UEFI)
- Storing deletion reports to network drives



# HDSHredder 4

HDSHredder is the universal solution for high security drive deletion of hard disks and other mass storage media

**Windows XP/Server 2003 or later – NEW: Win 8/Server 2012**  
 HDSHredder runs self-booting<sup>1)</sup> or in Windows<sup>2)</sup>, offering the familiar drive letters, dynamic volumes, RAIDs, and media requiring special Windows drivers to be used for copying.

**NEW: Automation (CLI)**

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

**Reusable media**

HDSHredder does not damage storage media! All media remains usable – unlike magnetic deletion & physical destruction.

**Fault tolerance with SmartDefectSkip**

HDSHredder applies special strategies to handle defective sectors and to minimize detention for deleting sound areas.

**Deletion report**

HDSHredder can generate and store a detailed deletion report to confirm (to your clients) that the deletion was accurate.

**User defined deletion**

The integrated editor for deletion patterns lets users freely define their own deletion method with up to 398 runs.

**Deletion modes**

- **Automatic:** Three preset security levels for total ease-of-use.
- **Standards:** International security standards – simply select the desired standard and let HDSHredder do the rest.
- **User-defined:** Over 2<sup>68</sup> (~300 quintillion) combinations for own deletion modes by defining patterns and write-cycles.

## Edition overview

	Free	Basic	Standard	Professional	Enterprise
Secure quick deletion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High security deletion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
International standards	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User defined deletion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Entire drive deletion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Single partition deletion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Security levels	1	3	18	217	217
Speed in GB/min (hardware-dependent)	6	6	6	6	90+
Iterative bit-patterns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Random bit-patterns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SmartDefectSkip	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Deletion report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sector area deletion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Command line interface (CLI)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MultiDelete (4x, 8x, 16x)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Private use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Companies/Institutes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Technician license	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### International secure deletion standards

Standard	Runs	Standard	Runs
VSITR	7	NCSC-TG-025	3
BSI-GSB	3	HMG IS5 (baseline   enhanced)	2   4
ACSI-33	6	GOST P50739-95	2
AFSSI 5020	3	RCMP TSSIT OPS-II	7
AR380-19	3	Bruce Schneier's method	7
DoD 5200.28M	3	Roy Pfitzner's methode	33
DoD 5200.22M	4	Peter Gutmann's methode	35

**Areas of use**

- ▶ Secure deletion, easy to operate, even for amateurs
- ▶ Simple and quick deletion before selling/handing over disks
- ▶ Secure deletion immediately on demand
- ▶ Performing the deletion of highly sensitive data on your own
- ▶ Deleting for clients in compliance with international standards
- ▶ Mass-deletion of up to 16 hard disks/media at a time

**Hardware requirements**<sup>3)</sup>

- ▶ PC 586+/128 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)<sup>4)</sup>
- ▶ SCSI hard disks<sup>9)</sup>, USB hard disks, USB keys<sup>5)</sup>
- ▶ SD/SDHC/MMC<sup>6)</sup>, CompactFlash<sup>6)</sup>, xD<sup>6)</sup>, Memory Stick<sup>6)</sup> etc.
- ▶ Firewire/IEEE1394 hard disks (internal & external)
- ▶ Dynamic Volumes, SAS, RAID and other<sup>7)</sup>

**Supported Controllers**<sup>8)</sup>

- ▶ PCI IDE controllers / Busmaster IDE controllers
- ▶ SCSI host adapters<sup>9)</sup>, 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](http://www.miray.de)  
 Product page: [www.miray.de/products/sat.hdshredder.html](http://www.miray.de/products/sat.hdshredder.html)  
 Online shop: [www.miray.de/order/sat.hdshredder.html](http://www.miray.de/order/sat.hdshredder.html)  
 Email contact: [info@miray.de](mailto: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](http://www.miray.de/products/scsicompat.html)