iStorage®

DISKASHUR® 3

Unparalleled Security, Effortless Usability.

In a world where the protection of valuable data is crucial, the iStorage diskAshur³ shines as an affordable, highly secure solution.

Introducing the iStorage diskAshur³ - a state-of-the-art portable HDD/SSD that sets a new benchmark in effortless data security. With its sleek design and user-friendly interface, this brand-new device ensures unparalleled protection for your data. Meticulously crafted to offer enhanced portability and security, the diskAshur³ incorporates all the essential features of other iStorage products, such as PIN protection and hardware encryption, alongside numerous innovative technological advancements.

The TAA-compliant drive is available in capacities of up to 16TB and redefines the standard for securing data with ease and confidence.



Backlit keypad turned On

Features

Ease of use

Using the device is effortlessly simple: simply connect to the host USB port *(USB Type-A and Type-C cables included)* and input the user-configured 8-64 digit PIN. Upon entering the correct PIN, all data stored on the drive will be decrypted and accessible. To lock the drive, simply eject it from the host, and all data will be encrypted.

Enhanced encryption and physical security

The diskAshur³ provides real-time Full Disk data security through the implementation of a Military-grade FIPS PUB 197 validated AES-XTS 256-bit hardware encryption algorithm. This comprehensive approach ensures strong protection against unauthorised access.

The diskAshur³ is engineered to provide tamper-proof security. Accessing its components requires physically breaking the enclosure, clearly indicating any tampering attempts. Moreover, all internal parts are shielded with a layer of durable epoxy resin, enhancing protection against physical attacks.

Advanced firmware protection

The firmware of the iStorage diskAshur³ complies with FIPS 140-3 Level 3 standards. Additionally, the drive features a secure microprocessor certified to Common Criteria EAL5+, along with a distinctive flash lock mechanism, providing defence against potential firmware attacks on the microprocessor.

It also provides robust protection against BadUSB attacks via an innovative secure USB controller firmware protection mechanism. This guarantees the authentication of the USB controller firmware prior to any unlocking attempt, further enhancing security measures.

Software free

OS & platform independent. Cross-platform compatible with:

MS Windows, macOS, iPadOS, Linux, Android, Chrome, Thin Clients, Zero, Clients, Embedded Systems, Citrix, VMware, DVR's, Medical Equipment, Printers, Scanners, CCTV.

In fact, it will work on any device with a USB port!

Transfer your files in seconds

Faster transfer read/write speeds of 450MB/s, outpacing the impressive speeds of the diskAshur² range.

FIPS ready

- FIPS 140-3 Level 3 compliant firmware.

Tamper proof and evident design

- Every component of the drive is enveloped in a layer of highly durable epoxy resin, rendering it virtually impossible to remove without inflicting irreversible damage to the components.

Brute force hack defence mechanism²

- diskAshur³ protects against brute force attacks. If the User PIN is entered incorrectly 10 consecutive times, it will be deleted. Data will remain on the device but only accessible with the Admin PIN. If the Admin PIN is entered incorrectly 10 consecutive times, all data is lost forever. The device will need to be reconfigured before it can be re-used.

Independent User, Admin and One-Time Recovery PINs

- The diskAshur³ can be configured with three independent PINs. User, Admin & One-Time Recovery, ensuring flexibility without compromising security.

No pre-set PIN

- diskAshur³ is supplied with no pre-set Admin PIN. An 8-64 digit Admin PIN must be configured before the drive can be used.

Backlit keypad

- Can be turned On/Off, making the keys visible in low light conditions.

Wear resistant epoxy-coated keypad

- Hides key usage to avoid tipping off a potential hacker to commonly used keys.

Self-destruct PIN

- Once entered, the encrypted encryption key and all PINs are deleted and all data is rendered as lost forever.

Bootable feature

- Install any OS on the diskAshur³ and boot directly from it.

Unattended auto-lock

- Can be set to automatically lock when idle following a predetermined length of time.

Read-only *(write protect)* - Dual Mode

- Restricts write access to the drive, essentially making it impossible to modify the data stored on it.

Three encryption modes

- AES-XTS 256-bit default mode *(optional AES-ECB 256-bit and AES-CBC 256-bit modes – user selectable, refer to user manual)* – patented technology.

diskAshur³ helps you:

- **Protect data against cyber-attacks**
- **Comply with Regulations**
- **Keep a secure offline backup**
- **Avoid hefty fines**
- **Maintain business continuity**

DISKASHUR® 3

PIN protected, hardware encrypted, portable HDD/SSD



1. USB 3.2 *(Gen 1)* Type-C interface
   USB Type C & A cables included
2. LED lights
   ***RED** - Locked/Standby mode. **SOLID GREEN** - Unlocked. **FLASHING GREEN** - Data transfer. **BLUE** - Admin mode*
3. Epoxy coated, wear resistant, backlit (*user selectable*), alphanumeric keypad
4. Tamper proof and tamper evident design
   All critical components are covered by a layer of super tough epoxy resin
5. On-device crypto chip
6. On-device Common Criteria EAL 5+ Certified Secure Microprocessor
7. SHIFT button
8. UNLOCK button
9. Kensington security lock slot
10. The depth of the 4TB-5TB HDD drive is 26.8mm instead of 20.8mm

Technical specifications	
Hardware	PIN protected, hardware encrypted, portable HDD/SSD
Interface	USB 3.2 *(Gen 1)* SuperSpeed – USB Type C & A Cables included
Capacities[1]	HDD: 500GB, 1/2/4/5TB. SSD: 512GB, 1/2/4/8/16TB and rising
Data transfer rates[3]	HDD: Read: 171 MB/s | Write: 148 MB/s / SSD: Read: 448 MB/s | Write: 444 MB/s
Power Supply	USB port - 100% bus powered
Dimensions (H/W/D)	131mm / 83mm / 20.8mm (The depth of the 4TB-5TB drive is 26.8mm instead of 20.8mm)
Weight	approx. 257 grams *(weight may vary by capacity)*
Hardware data encryption	Can be configured in 3 encryption modes: AES-XTS 256-bit, AES-ECB 256-bit and AES-CBC 256-bit.
Physical security	Kensington security lock slot. Epoxy coated, wear resistant, backlit alphanumeric keypad. Tamper proof and tamper evident design, all critical components are covered by a layer of super tough epoxy resin.
Ordering information[4]	HDD: IS-DA3-256-XXXX-XX | SSD: IS-DA3-256-SSD-XXXX-XX
Warranty	3-year parts & Labour warranty with free lifetime technical support
System Requirements	OS & Platform independent, no software required - works on any device with a USB port
Compatibility	MS Windows, macOS, Linux, Chrome, Android, Thin Clients, Zero Clients, Embedded Systems, Citrix and VMware – Any device that supports a USB mass storage device.
Operating Temperature	0 °C - 40 °C
Storage Temperature	-20 °C - 60 °C
ECCN / HTS / CAGE CODE	ECCN: 5A992c / HTS: 84717098 / CAGE CODE: U1BC0
Authentication	8-64 digit PIN via the on-board alphanumeric keypad
Approvals	FC CE UK CA RoHS REACH TAA PET
What's in the box	diskAshur[3] portable HDD/SSD, USB Type C & A Cables, Carry Case, Free 1 year license of Nero BackItUp and iStorage DriveSecurity, Quick Start Guide, Product Disclaimer

What's in the box



diskAshur[3] portable HDD/SSD, Carry Case and Quick Start Guide

+



Free 1 year license of Nero BackItUp and iStorage DriveSecurity

+



USB Type C & A Cables

1. Some of the listed capacity is used for formatting and other functions and is thus not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. Check out our website for the latest capacity information.
2. Admin, User, and Recovery PINs have separate brute force counters.
3. Speed may vary due to host hardware, software, capacity and usage.
4. XXXX-XX = capacity - colour (B = Diamond Black / BE = Sapphire Blue / R = Ruby Red / GN = Emerald Green)

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