Kobra VS
Secure storage media for classified companies and governments

KOBRA DRIVE VS
External encrypted USB-C HDD / SSD

KOBRA Stick VS
Encrypted USB-C memory stick

Approved by German Federal Office up to EU RESTRICTED / NATO RESTRICTED and German VS-NfD

The **Kobra VS storage devices** correspond to the current state of the technology, as regulated by the German Federal Office for Information Security (BSI), and enable the GDPR compliant data storage, data retention, forwarding and secure transport of sensitive, personal and classified information up to the classification level VS-NfD (German public sector classification), RESTREINT UE/EU RESTRICTED and NATO RESTRICTED.

In addition to DIGITTRADE smartcards, existing PKI-based company ID-, Service- and Troop ID Cards can be used for authentication. In terms of confidentiality, all data stored on the Kobra VS storage devices is protected against unauthorized access in case of loss or theft of the device.
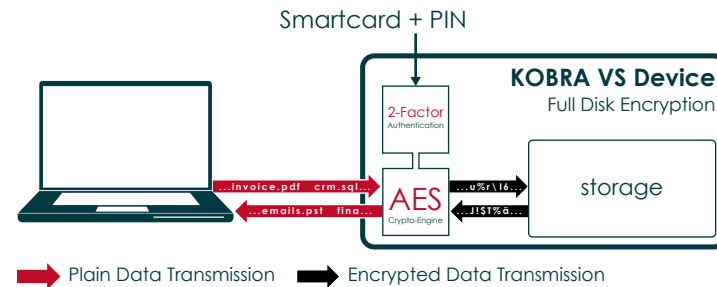
KOBRA Stick VS
- Read/write speed: up to 120 MB/s
- Capacities: 16GB, 32GB, 64GB, 128GB, 256GB, 512GB

KOBRA Drive VS
- Read/write speed:
  SSD: up to 250 MB/s
  HDD: up to 130 MB/s
- Capacities:
  HDD: 500GB, 1TB, 2TB, 4TB
  SSD: 250GB, 500GB, 1TB, 2TB, 3TB, 4TB, 8TB, 16TB

Only high-quality industrial storage devices are used for the Kobra VS storage devices.

Smartcard + PIN

KOBRA VS Device — Full Disk Encryption

2-Factor Authentication

AES Crypto-Engine

storage

...invoice.pdf crm.sql... ...u%r\16...
...emails.pst fina... ...J!$1%a...

→ Plain Data Transmission   ⬛→ Encrypted Data Transmission

- Users cannot bypass encryption
- Simple and secure
- Transparent and operating system independent

Safety functions and technical information:
- Sturdy metal housing protected against splash water
- Distribution of roles between administrator and user
- Automatic formatting after key change
- Up to 10 smartcards (PKI cards) can be integrated
- Operating system independent and bootable
- Management software Kobra Client VS
- Use as a smartcard reader
- Lock-Out and Quick-Out functions
- Time out function (1 to 30min)
- Read-Only Mode mechanism
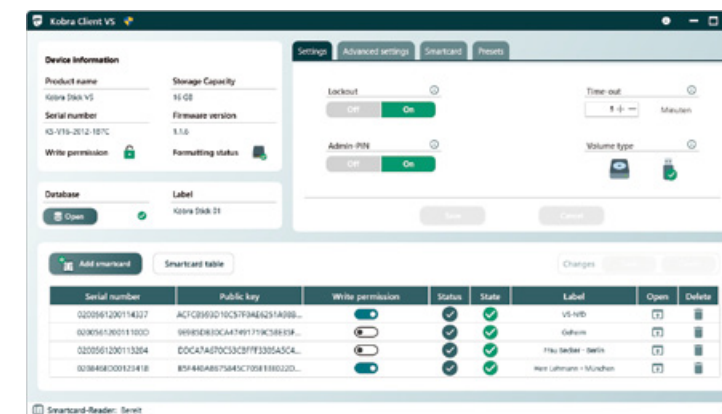- Integrated power supply

Optional configurations:
- pSLC memory (KOBRA Stick VS)
- Laser engraving of logo, inventory numbers, scanable QR codes, designations or similar according to customer
- Custom USB VID, PID & Serial Number
- Integration of PKI-based badges or smartcards you use

Security certificates:
- Approved by BSI for German VS-NfD, RESTREINT UE/EU RESTRICTED and NATO RESTRICTED - BSI-VSA-10338

Central management software for VS storage devices
- Enables administrators to configure the Kobra VS storage devices quickly and for specific applications r
- Storage of the configurations made as presets for specific deployment scenarios
- Public keys and serial numbers can be read directly from the DIGITTRADE smartcard (PKI card) in the VS storage device.
- Reading of the smartcard table of the Kobra VS storage device as well as read and write authorisation of the respective smartcard owners
- Configuration of time-out, lock-out, admin PIN, update key
- Direct access to smartcard parameters through integrated database

---

Kobra Infosec

External encrypted hard disks and USB-C memory sticks with approval by the German Federal Office for Information Security (BSI) for classified data up to

- 🇩🇪 VS-NfD
- 🇪🇺 EU RESTRICTED
- NATO RESTRICTED

SecurITy
made in Germany
Trust Seal
www.teletrust.de/itsmig

Approved by German Federal Office up to EU RESTRICTED / NATO RESTRICTED and German VS-NfD

🔒 **Encryption:**
256-bit AES full-disk hardware encryption in XTS mode using two 256-bit crypto keys

Access Control:
Two-factor authentication via smartcard and PIN according to the principle "having and knowing"

🔑 **Cryptographic Keys Management:**
The cryptographic keys can be created, changed and destroyed by the user with the smartcard

Kobra Infosec

## VS storage devices
manufactured in germany

Possible Use Cases

Simplified data transport

- Storage device is prepared by admin for access by sender and recipient
- Cost-effective transport by parcel service provider instead of own staff

SHIPPING of the KOBRA VS storage device

Secure mobile VS workstation (e.g. Linux, Mac OS and Windows)

connect with system

VS-NfD

Authentication

Booting from VS storage device
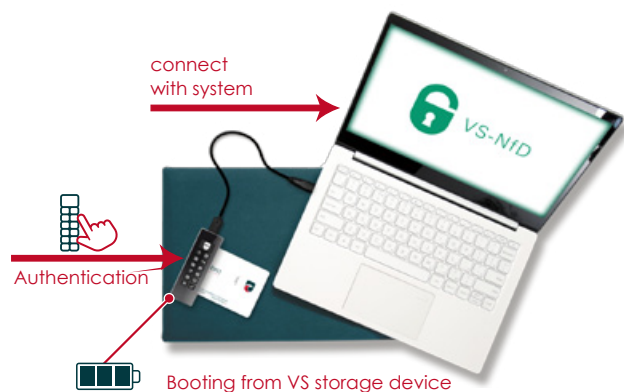
- Integrated power supply enables pre-boot authentication
- Verschlüsselte Installation von Betriebssystemen auf KOBRA VS-Datenträgern
- Flexible change of purpose from laptop/PC
- pSLC memory recommended to ensure the longest possible lifespan
- When the storage device is disconnected from the PC, the data remains encrypted and is stored only on the Kobra VS storage device.

Geo-Redundant Backups
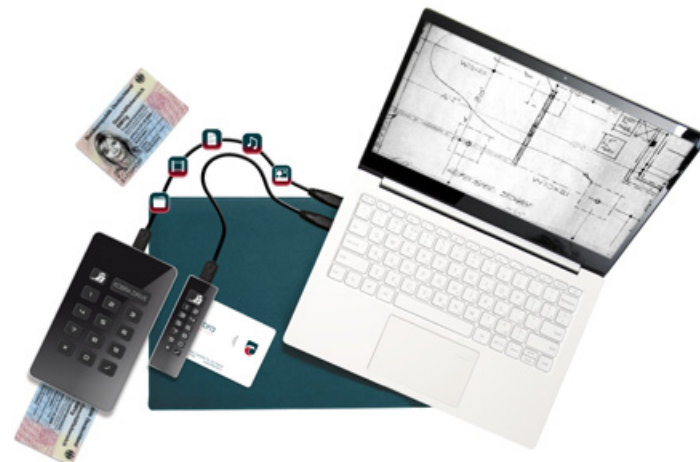
- Protects data against unauthorised access
- Offers full control over sensitive and personal data
- Several Kobra VS storage devices can be operated with one smartcard
- Secure backups of i.e. project-based developer laptops with NATO Restricted and EU Restricted content
- Cost-effective secure geo-redundant storage of backups for disaster recovery

Server system migration

Windows Server 2008   Windows Server 2019

KOBRA DRIVE

- Kobra Drive VS with up to 16TB on one storage device
- Protects data against unauthorised access
- Offers full control over sensitive and personal data
- Several Kobra VS storage devices can be operated with one smartcard
- Secure transport of data to new location

Secure Software Deployment

- Software is copied from source system to VS storage device and transported to place of use / vehicle.
- then transferred/installed/updated on target system
- Protection of the integrity and confidentiality of software systems and configurations during transport.

Log data from vehicles

LOG

- Log data from emergency vehicles (aircraft, helicopters, utility vehicles, ships) are stored on Kobra VS storage devices after use and transported for evaluation.

Deposit of source code

- Instead of depositing papers with source code with notary, source code is stored on Kobra VS storage device
- Smartcard is deposited with the notary instead
- Client can get access to the smartcard
- Paper stacks no longer need to be exchanged as source is updated on VS storage device
- This application saves space, energy and is sustainable

Two-factor authentication for:

read

- E-mail encryption, VPN access, Cloud access, Windows or Linux login, Digital signing of documents and files

Read Only Windows / OS

Read-Only

- Activated write protection against unwanted leakage of information from higher-rated systems to lower-rated systems
- Faster booting due to flash memory
- no modification of system data possible
- Processed information is not persistently stored on the Kobra VS storage device at any time
- Easy update of the software systems by exchanging the data carriers via normal postal dispatch

Use as data diode

Source System (VS-NfD / NATO Restricted / EU Restricted)   Write protection   Target System (Secret)

- Activated write protection against unwanted leakage of information from higher classified systems to lower classified systems.
- Administrator can define two smartcards: Smartcard 1 for work in the NATO Restricted and EU Restricted area (read and write) and smartcard 2 for secret area (read only).