

StorEasy® WormAppliance Enterprise



*Store your most important data securely, in-house,
and without relying on the cloud!*

Terabyte - Petabyte - Exabyte



* The graphic may vary depending on the drive configuration

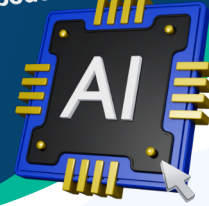
The **StorEasy® WormAppliance Enterprise (WAE)** reliably protects your data against tampering, loss, or theft—thanks to state-of-the-art technology and a unique security concept. Using the proven **4-2-2 principle**, your data is backed up four times across two different storage technologies, with two of those copies stored offline in an air-gapped environment. This ensures your information remains protected even in the event of cyberattacks, hardware failures, or fire hazards.

The integrated **trueWORM technology** ensures that once data is stored, it remains unalterable. Your information is immediately available at any time via the NAS system, while it is simultaneously and automatically archived on optical WORM media. These media can be stored in a separate fire-protected area, providing additional security and flexibility for recovery.



The **StorEasy® WormAppliance Enterprise** integrates seamlessly into any IT environment and offers an **intuitive, platform-independent user interface** that enables management from anywhere, at any time. Automatic notifications alert the administrator as soon as new media needs to be inserted or errors occur. Thanks to the highly redundant architecture, data is always stored in at least two copies, and the system automatically detects hard drive failures, ensuring your data remains available at all times. If hardware fails, defective units can be easily replaced while undamaged data buffers and archive media continue to be used seamlessly.

More information
about AI support



Practical benefits (soft skills)

- File-based archiving on durable **trueWORM** media (Blu-ray BD-XL) – tamper-proof & ransomware-resistant.
- Archiving controlled by file attributes – flexible & automated.
- Fast read access via NAS cache (read-only) + dual optical backup.
- Complete NAS system with integrated controller – easy integration via NFS/SMB.
- Automatic media copies for offline backup.
- Use of different HDD manufacturers for higher reliability.
- Scalable capacity (desktop to enterprise + expansions).

Technical & Compliance Benefits (Hard Skills)

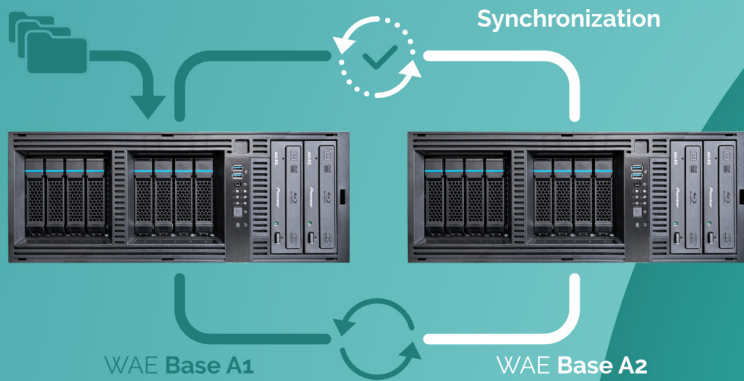
- Supports DVD/BD/BD-XL and UDF standard.
- Open, standards-based solution (ISO/UDF) – vendor-independent & migration-proof.
- Easy integration into existing storage environments as a NAS.
- Intuitive web GUI – no training required.
- Compatible with common backup tools.
- **trueWORM archiving** – optimally audit-proof (GoBD, GDPR, etc.).
- Checksums (MD5) at the file level for integrity & self-healing.

Base Unit



StorEasy

Base Unit: **10 TB to 50 TB**



Performance

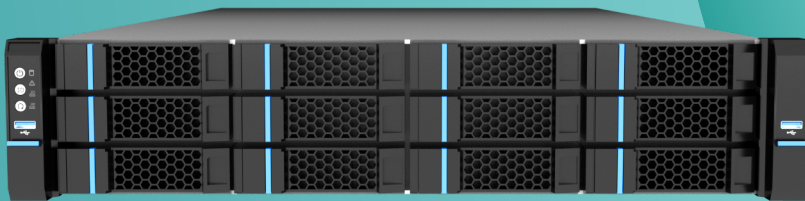
Capacity

Management
and Redundancy

StorEasy®
WormAppliance
Enterprise

Fully
expandable

Infinite
capacity



Pro Expansion Unit:
10 to 50 TB, 70 TB or 110 TB



WAE Base



WAE Expansion

30 TB

10 TB

...

110 TB

Expansion Unit

trueWORM
external



EPSON and Rimage
Production Systems



LAN

Supported
Systems



HIT Storage Systems
TB to PB

LAN



Cloud Storage S3

Admin Options

- Automatic email notifications & status reports
- Pre-installed monitoring software for system setup
- Intuitive graphical web GUI + integrated display
- Configurable log levels & files
- Fully remotely administrable
- **Optional:** Synchronization / Failover / Rackmount

Technical Specifications

- Base unit: 10–30 TB net (Desktop: 1–10 TB)
- Hot-swappable HDDs + optional 2x BD-XL trueWORM drives
- Expansion units: from 10 to 110 TB per unit
- Network: 2x 1 GbE (10 Gb optional), DHCP/static IP
- Protocols: NFS / CIFS / S3

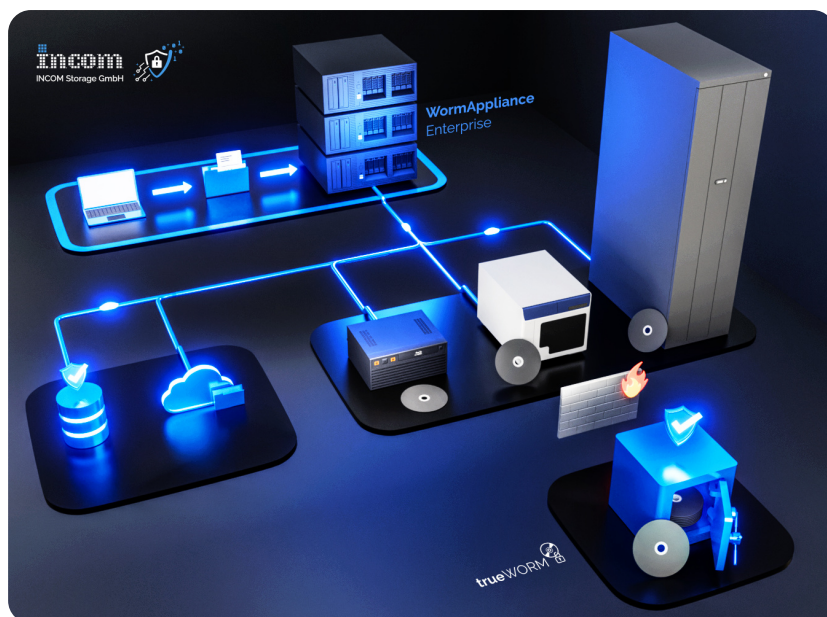
Optional

- Nearline/Offline: Tera- to Exabyte
- WORM-RAID (multiple)

For maximum physical protection, the appliance is lockable, the hard drives and optical archive drives are secured, and the second archive drive allows media copies to be created and off-site stored automatically. This ensures that your data remains protected not only from digital threats but also from physical ones.

The **StorEasy® WormAppliance Enterprise (WAE)** combines the highest level of data security, ease of use, scalability, and reliability in a compact, high-performance archiving system. This makes it the perfect solution for companies that want to protect their valuable information reliably over the long term.

4-2-2 Security Plan



Data is backed up four (4) times using two (2) different storage technologies, with two (2) of these copies stored offline as an air-gapped backup.

incom
store.more.secure.

You can count on it!

- Conceived and developed in Germany
- Software made in Germany

Carefree at all times!

Service

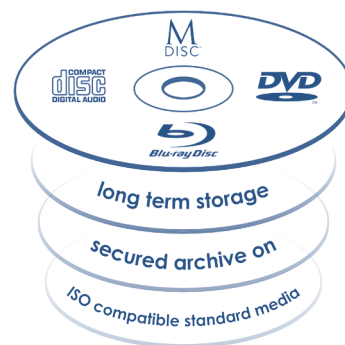
Data availability:

Minimum 30-year data retention

Highly flexible service options

Renewable indefinitely, with the same terms and conditions!

- Next-Business-Day Exchange Service
- Next-Business-Day On-Site / 24/7 On-Site for up to 10 years or longer
- Rapid Exchange Service
- Remote Maintenance



trueWORM

System Specifications

	INCOM WormArchiver	HIT Storage HMS Serie	HIT Storage HDL Serie
Disc capacity	1	70 to 1750	24 to 10368
Disc Magazine (à 35 Slots)	-	2 to 50	2 to 864
Storage capacity (100 / 128 GB BD)	100 / 128 GB	7 TB to 175 TB	2,4 TB to 1327 TB
Drives	1	2 to 12	2 to 12
Disc Load Time (average)	-	< 3,5 sec. to < 6 sec.	5 sec. to < 10 sec.
MSBF	2,5 Mio.	2,5 Mio.	5 Mio.
Interfaces	LAN, iSCSI	SAS, LAN, NAS	LAN, Mini SAS, SATA

	EPSON Production systems	Rimage Production systems
Number of record holders	2	2 to 4
Total disc capacity	Up to 100	150 to 400
Output tray capacity	5, 50, 100	5, 50, 100
HDD storage	-	-
Interfaces	USB, LAN	USB, LAN

Compatibility Chart

Media

Drives

	CD	DVD	BD25	BD50	BD100	BD128
CD	✓	✓	✓	✓	✓	✓
DVD		✓	✓	✓	✓	✓
BD25			✓	✓	✓	✓
BD50				✓	✓	✓
BD100					✓	✓
BD128						✓
M-DISC*		✓	✓	✓	✓	✓

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BD SL 25GB = Single Layer BD-1L
BD DL 50GB = Dual Layer BD-2L
BD TL 100GB = Triple Layer BD-3L
BD QL 128GB = Quadruple Layer BD-4L



Optional:
Cloud connectivity for uploads and / or downloads

* M-DISC (DVD, BD25, BD100)

StorEasy® WormAppliance Enterprise – Your data. Secure. Everywhere. Forever.

In a world where data is the most valuable asset, there can be no compromises: The StorEasy® WormAppliance Enterprise (WAE) reliably protects your information from tampering, loss, or theft — thanks to state-of-the-art technology and a sophisticated security concept.

Maximum security thanks to the 4-2-2 principle

Our WormAppliance Enterprise operates according to the proven 4-2-2 security concept:



- > **Quadruple storage** across two different technologies
- > **Two offline copies** as additional air-gap protection

This ensures your data is protected even in the event of cyberattacks, hardware failures, or fire hazards — a comprehensive, worry-free solution for your business information.

trueWORM – Audit-proof & reliable

Our redundant systems ensure that your data remains available at all times:

- > Once stored, **cannot be changed**
- > **Automatic archiving to optical media**
- > Data directly readable via NAS at any time
- > Optional: Store media in a separate fire-protected area

Your data is doubly protected: quickly available on the NAS and securely stored on WORM media.

Redundancy & Reliability at the Highest Level

Our redundant systems ensure that your data is **always available**:

- > Dual storage in the internal data buffer
- > Self-monitoring automatically detects errors
- > Immediate notification of the administrator
- > Hardware replacement without data loss

Intuitive Management – Anywhere, Anytime

The **StorEasy® WormAppliance Enterprise (WAE)** integrates seamlessly into any IT environment. Thanks to its **platform-independent user interface**, you can manage your archive from anywhere — easily, quickly, and securely.

- > Network-based integration (NAS)
- > Automatic notifications for media changes or errors
- > Graphical interface for easy administration
- > Immediate recovery in the event of a hardware failure

Physical protection – security from the outside and inside

- > Lockable front door and hard drives
- > Locked optical archive drives
- > Automatic creation and off-site storage of media copies

Your data remains secure, protected from unauthorized access and physical theft.

Why StorEasy® WormAppliance Enterprise?

- > Maximum data security with the 4-2-2 principle
- > Audit-proof, tamper-proof, air-gap-ready
- > Easy to integrate and manage
- > Maximum reliability & redundancy
- > Scalable for growing data volumes

StorEasy® WormAppliance Enterprise – the archiving system your data deserves.

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StorEasy® WormAppliance Enterprise with KI-Power „GEMMA 4“

1. Data Sovereignty and Security

Gemma 4 is an **open-source model** released under the **Apache 2.0 license**.

- > **Local deployment:** Companies can run the model on their own infrastructure (on-premise) or in a controlled private cloud. Sensitive company data never has to leave the internal network.
- > **Compliance:** This facilitates compliance with strict data protection regulations (such as the GDPR) and internal security policies, as no data is sent to external API providers.

2. Significant Cost Efficiency

Compared to large closed-source models (such as GPT-4o or Claude), Gemma 4 offers significantly better value for money:

- > **No token fees:** After a one-time setup, there are no ongoing costs per request. This is a huge financial advantage, especially for scaling applications (e.g., customer support bots).
- > **Low hardware requirements:** Thanks to its **Mixture-of-Experts (MoE)** architecture (e.g., the 26B model with only 3.8B active parameters), Gemma 4 achieves top performance on standard consumer hardware or small enterprise servers.
- > **High throughput:** The optimized architecture enables faster inference times, which reduces the required computing time and thus energy costs.

3. Optimization for “Agentic Workflows”

Gemma 4 was specifically developed for autonomous AI agents:

- > **Native tool usage (function calling):** The model can reliably call external APIs, perform database queries, or execute code.
- > **Structured output:** It natively supports JSON output, which significantly simplifies integration into existing software pipelines.
- > **Large context window:** With up to **256K tokens**, entire document collections or extensive code repositories can be processed in a single prompt (RAG optimization).

Conclusion: For businesses, Gemma 4 offers the perfect balance between the power of enterprise AI and full control over costs and data. It is currently one of the strongest solutions on the market, particularly for industries with high security requirements (finance, healthcare, manufacturing).



4. Native Multimodality

Unlike earlier versions of Gemma, Gemma 4 processes text, images, audio, and video natively:

- > **Use cases:** Automated analysis of technical drawings, data extraction from complex diagrams (OCR+), or real-time processing of voice recordings directly on end devices.
- > **Real-time capability:** The smaller variants (E2B and E4B) are so efficient that they can handle multimodal tasks directly on laptops or mobile devices without noticeable latency.

5. Flexibility and Customizability

- > **Fine-Tuning:** Companies can fine-tune Gemma 4 with their own domain-specific data (e.g., internal wiki, technical documentation) to obtain a highly specialized model for their niche.
- > **Avoiding Vendor Lock-in:** Since the model is open-source, you are not dependent on price changes or the availability of a single cloud provider.

Summary of model variants for businesses:

- > **Gemma 4 E2B / E4B:** Ideal for **edge computing**, mobile apps for field staff, or privacy-sensitive assistants on employee laptops.
- > **Gemma 4 26B (MoE):** The “workhorse” standard for **internal automation**, combining high intelligence with extreme speed.
- > **Gemma 4 31B (Dense):** For complex **logical analysis** and orchestration where maximum precision is required.