Raidon iR2977S RAID-1 Storage Solution SATA 3 Enclosure for 2×2.5-Inch HDDs or SSDs

One-touch backup, no software required, automatic backup intervals of 1, 7, or 30 days to match user data protection needs.
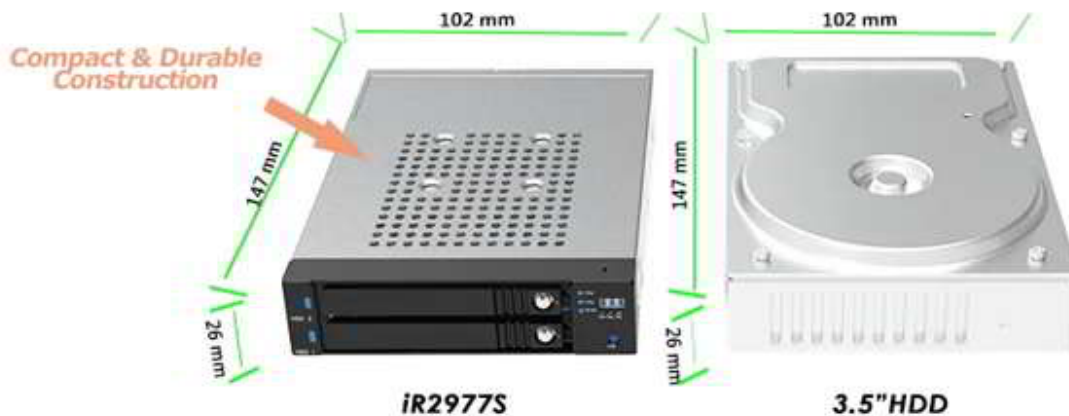
Raidon Technology, Inc. launches the iR2977S RAID-1 enclosure for 2x2.5-inch HDDs or SSDs.

The **iR2977S** elevates traditional RAID-1 storage by combining **real-time redundancy** with **configurable backups** at **1, 7, or 30-day intervals**, ensuring both immediate protection and flexible recovery options.

With **One-Touch Backup (OTB)** and automated restore points, users can easily recover recent data or revert to earlier versions. Optimized for **SSD-based environments**, it integrates **hardware monitoring** and **routine restore testing** to maintain **data integrity and operational continuity**. Designed for reliability and ease of use, the iR2977S offers a smarter, more seamless way to safeguard critical information.

Key Benefits :

Enhanced Data Integrity and Historical Recovery

- **Dual-layered data protection:** Combines real-time RAID-1 mirroring with scheduling backups to safeguard

against both hardware failures and user errors.

- **Configurable backup intervals:** Create point-in-time recovery snapshots at 1, 7, or 30 days, ensuring multiple restore points.
- **Resilience against logical failures:** Protects against malware, accidental deletions, and file corruption, offering easy data restoration.

Optimized Drive Performance and Longevity

- **Minimizes drive stress:** By distributing backup tasks over scheduling intervals, the system reduces wear on SSDs while maintaining peak performance.
- **High-speed SATA 6G connectivity:** Ensures fast and stable data transfers, even during RAID-1 scheduling backup operations.

Operational Simplicity and Robust Security

- **User-friendly controls:** Easily configure backup intervals via a dedicated front-panel switch—no software required.
- **Real-time monitoring:** LED indicators provide instant drive health and backup status feedback.
- **Advanced security measures:** Keylock-protected drive trays, hot-swappable design, and durable metal construction enhance physical security and system longevity.

Customizable RAID-1 Scheduling Backup

- **Flexible Backup Intervals**: Configure automatic RAID-1 backups at 1, 7, or 30-day intervals to suit user data protection strategy.
- **User-Friendly Front-Panel Control**: Easily adjust backup schedules using an intuitive front-panel switch, eliminating the need for software-based configurations.
- **Enhanced Data Redundancy**: Ensures that critical data is consistently mirrored, reducing the risk of data loss due to hardware failure or unexpected system errors.
- **Integration with Workflows**: Ideal for enterprise environments, SMBs, and personal storage solutions, allowing users to align backup frequency with operational demands.
- **Non-Disruptive Backup Process**: RAID-1 scheduling runs without affecting system performance, enabling continuous workflow efficiency
- **Optimized for Long-Term Data Protection**: Reduces the risk of data corruption or accidental deletions by maintaining multiple mirrored versions over time.

Versatile Storage Compatibility

- **M.2 Integration:** Supports high-performance M.2 drives when paired with an M.2 SATA converter, unlocking superior speed and efficiency.
- **Dual SSD and HDD Compatibility:** Works with both SSDs and traditional HDDs, providing flexible storage options.
- **Adaptable to Various Storage Environments:** Suitable for enterprise, SMB, NAS, industrial, and personal storage applications.
- **Scalable Storage Solution:** Enables users to expand or upgrade their storage infrastructure without compromising performance

One-Touch Backup (OTB)

- **Instant Backup Activation:** Quickly initiate a RAID-1 backup at any time with a single press of the dedicated OTB button, ensuring immediate data protection.
- **No Software Required:** Eliminates the need for complex software installations or manual configurations, making the backup process fast and hassle-free.
- **Ideal for Critical Data Protection:** Perfect for high-priority files, system snapshots, and last-minute backups before making significant changes.

- **User-Friendly Operation:** Designed for both professionals and casual users, allowing anyone to secure their data effortlessly.
- **Minimizes Risk of Data Loss:** Ensures that your most recent data is instantly mirrored to the secondary drive, safeguarding against unexpected failures.
- **Optimized for High-Speed Performance:** Works alongside SATA 6G connectivity to perform quick and efficient data duplication without slowing down system operations.
- **Versatile for Various Applications:** Beneficial for business environments, creative professionals, IT administrators, and personal data security needs.

Key features and benefits:

RAID 1 Scheduling Backup

- Support Hardware RAID-1 scheduling backup at 1,7 or 30 days intervals
- Provide one-touch backup (OTB) for user's friendly operation and no software required
- Supports M.2 Modules, SSDs and traditional HDDs for versatile storage configurations
- Supports High Speed SATA6G Interface
- Provide LED indicators for instant feedback on drive status and system health
- Supports enhanced physical security for keylock protection on the drive tray
- Hot swappable and plug and play design for easy easily replace and upgrade drives
- Compact and durable design to fit the standard 3.5" disk bay
- Efficient fanless cooling for reliable performance
- Provide user-friendly front panel control for easily adjust backup schedules

Applications of the RAIDON iR2977S

- **Photographers and Videographers** – Scheduled backups (1, 7, or 30 days) create recovery points, safeguarding large, irreplaceable files.
- **Medical and Legal Professionals** – Features **hardware monitoring, restore testing, and keylock protection** for compliance and data security.
- **Software Developers** – **Versioned backups** allow easy rollback, preventing data loss from corruption or accidental overwrites.
- **Educational Institutions** – **Hot-swappable drives** ensure seamless maintenance, ideal for space-limited offices and labs.
- **Home Offices and Remote Workers** – **Quiet, compact design** with **real-time mirroring** keeps work files secure.
- **IT Enthusiasts and Tech Users** – Supports **M.2 modules, SSDs, and HDDs** with a **high-speed SATA 6G interface** for flexible configurations.
- **Retail and POS Systems** – Hot-swappable drives and LED indicators enable quick maintenance and minimize downtime.
- **Public and Shared Spaces** – **Keylock protection** secures data against unauthorized access in libraries and co-working spaces.

A. HDD/SSD Tray & Tray Handle
B. Tray Key Lock
C. HDD/SSD Access LED
D. Customizable RAID 1 Scheduling Backup Setting
E. OTB Button (One-Touch Button)

F. 15-pin Power Connector
G. SATA Port

Specification

Model no.	iR2977S
RAID Chip	ASMedia 1092R
Interface	SATA III (6 Gbps)
Support Hard Drive	2 × 2.5" SATA III 6.0Gb/s HDD/SSD (9.5mm)
RAID Level	Customizable RAID 1 Scheduling Backup One-Touch RAID 1 Backup
Power Supply	SATA 15pin (12v/5v)
LED Indicators	Yes
Operating System	Windows, Linux
Function Control Interface	GUI (Windows Only)
Certification	CE & FCC
Dimension	102(W)×26(H)×147(L) mm
Operating temperature	32° to 104° F (0° to 40° C)
Storage temperature	-4° to 116° F (-20° to 47° C)
Relative humidity	5% to 95% noncondensing
Packing Content	*iR2977S Quick Installation Guide, Accessory Kit