

Case Study

Surveillance System

Reliable NVR Solution Secures Australian Warehouse Operations

Learn how an Australian warehouse achieved 24/7 monitoring, improved traceability, and strengthened customer trust with FS's NVR-based PoE surveillance system.



Reliable NVR Solution Secures Australian Warehouse Operations

Country

 Australia

Industry

 Technology

Network Type

 Enterprise Business Surveillance

Solutions

 Surveillance System

Highlights

- Unified 4K monitoring delivers clear, full-area live and playback views.
- Multi-platform access enables real-time viewing and fast incident response.
- Efficient compression with large storage for long-term retention and retrieval.
- 1U rack-mounted design centralizes control for a clean, intuitive interface.
- 16-port Gigabit PoE+ ensures stable power and uninterrupted surveillance.
- Live view, alerts, and device management on PC and mobile via FS software.

Key Stats

- 24/7 monitoring with clear live view and playback, tracking all processes.
- Video retention for 90+ days, supporting quick review and verification.
- Deployment time reduced by 40%, enabling faster system rollout.

- 5+ interactive functions, including alerts, intelligent analysis, etc.
- Supports easily adding 7+ cameras, allowing flexible expansion.

Overview

The customer's warehouse in Australia serves as a strategic hub in the global order fulfillment network, efficiently managing receiving, inspection, labeling, packing, shipping, and after-sales processes. Committed to efficient, agile operations and responsive service, it ensures products reach customers safely and promptly, supporting both domestic distribution and overseas inventory transfers.

However, the warehouse faced challenges in operational visibility and could not offer visitors a hands-on, real-time view of the NVR system in action.

Despite its core role, the warehouse faced limitations in operational visibility and lacked an engaging way to demonstrate its monitoring capabilities to visitors.

FS implemented an NVR-based surveillance system with centralized management, continuous recording, and a flexible demo setup. It improved oversight, made incident review easier, and delivered an immersive demonstration experience that boosted customer confidence.

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Challenges

As order volumes and on-site customer visits continued to grow, the Australian warehouse reached a point where the existing monitoring setup could no longer fully support day-to-day operational needs. Certain packing areas still lacked sufficient visual coverage, making it harder to review workflows or quickly verify occasional discrepancies during busy periods.

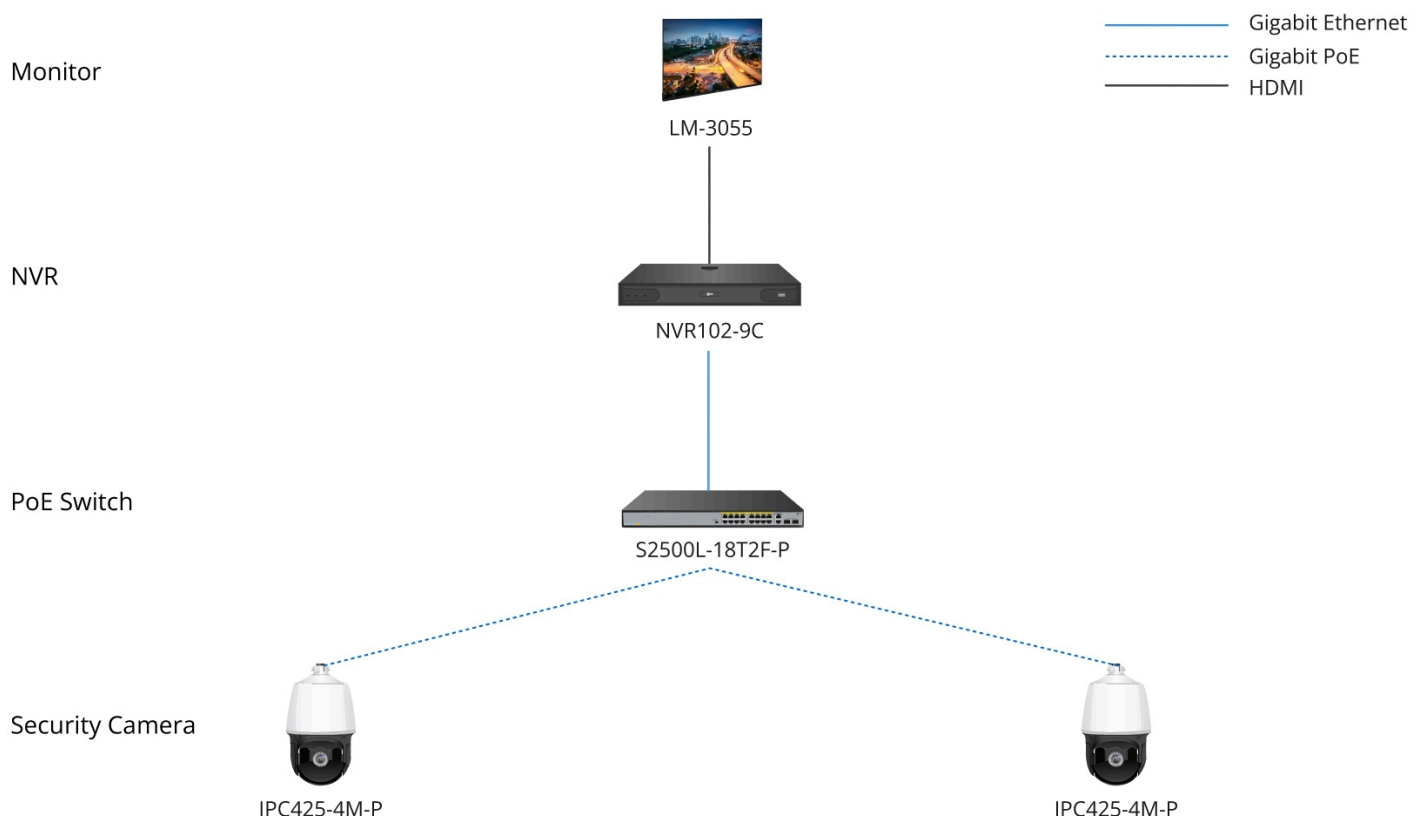
The previous system also offered limited centralized management and short-term video retention, which made incident checking less efficient as operational complexity increased. In addition, the warehouse did not yet have a dedicated real-time demonstration area for customer walkthroughs—an important component for enhancing transparency as service expectations rose.

These changing needs called for a unified, scalable monitoring system to boost visibility, simplify reviews, and enhance customer experience.

Solutions

Our Australian warehouse adopted an NVR-based surveillance architecture centered on the NVR102-9C, combined with IPC425-4M-P cameras and the S2500L-18T2F-P PoE switch to build a simple, reliable, and scalable monitoring system. The NVR delivers centralized recording, playback, and local HDMI output for real-time monitoring and demonstration needs. Cameras connect to the PoE switch through a single Ethernet cable for both power and data, simplifying installation and ensuring stable video transmission.

The architecture includes long-term storage with an 8TB drive, ensuring at least 90 days of video retention while supporting future expansion with additional camera channels. Standard network interfaces provide broad compatibility with third-party platforms, keeping deployment efficient and ongoing maintenance minimal.



Results

The upgraded surveillance system covers the entire packing area, removing major blind spots and making every workflow visible. With reliable video retention, incidents can be reviewed quickly, helping staff respond faster and maintain safer operations. The dedicated demo display lets visitors see live footage and playback in real time, while the scalable network design makes adding new cameras simple and maintenance hassle-free.

Overall, the solution creates a clear, efficient, and adaptable security setup, suitable for warehouses, retail spaces, manufacturing sites, office parks, and other SMB environments.

ID	FSP/N	Description	Quantity (pcs)
176666	NVR102-9C	NVR102-9C, 9-Channel Network Video Recorder, Record 9CH 4K@30fps, Live View/Playback 2CH 4K@30fps, Supports up to 2x8TB Hard Drive (Not Included)	1
138717	IPC425-4M-P	IPC425-4M-P, Super HD 4MP PTZ Dome Network Camera, Pan Tilt 25X Optical Zoom, IP67 & IK10 PoE Network Camera with Varifocal 4.8-120mm Lens	2
252733	S2500L-18T2F-P	S2500L-18T2F-P, 18-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@240W, 2 x 1Gb RJ45, with 2 x 1Gb SFP Uplinks, Desktop/Rackmount	1
174029	LM-3055	55-inch 3840×2160 Resolution 4K Ultra HD Monitor, 300cd/m ² , Viewing Angle Horizontal 178°, Vertical 178°	1



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