

CASE STUDY

MAJOR NORTHEASTERN SUPERMARKET CHAIN

Reliable, Long-Term Surveillance with
Watchman NVR Systems

OVERVIEW

Industry: Retail Grocery

Scale: Multi-store chain with large-format supermarket locations

This supermarket group operates high-traffic retail environments across multiple states. With thousands of daily customers and complex store operations, the client required a surveillance system that could enhance security, prevent losses, and support liability management through clear and long-term video evidence.



CHALLENGE



Challenge_1

The client required an enterprise-grade surveillance system capable of:

- Managing 170+ 5MP IP cameras per store
- Retaining up to six months of continuous video
- Ensuring reliable 24/7 operation without downtime
- Offering cost-effective long-term storage with no recurring fees
- Providing easy playback and export for theft and accident investigations



Challenge_2

Most conventional NVR solutions—both local and cloud-based—could not meet these requirements.

- Cloud-based systems carried high monthly subscription costs and limited retention.
- Standard NVRs were restricted to smaller drive capacities, typically supporting up to 12TB per drive, making six months of high-resolution recording impractical.



SOLUTION

Power Technology Inc. supplied and configured **Watchman 128-Channel NVR Systems**, designed and manufactured in **Korea** and fully **NDAA/TAA compliant**, to meet client large-scale recording and retention needs.

Each client location was equipped with:

- 1 Two (2) Watchman 128-Channel NVRs
- 2 Over 170 high-resolution 5MP cameras
- 3 Twelve (12) 24TB enterprise-grade HDDs per NVR – totaling 288TB of storage per unit
- 4 Up to six months of uninterrupted high-definition recording
- 5 Secure local retention with no monthly or cloud

The Watchman system's advanced hardware design allowed support for higher-capacity HDDs and stable, continuous recording even under heavy camera loads.

RESULTS

- 1 **Long-Term Retention:**
Six months of high-quality video storage without the cost of cloud plans.
- 2 **Improved Loss Prevention:**
Clear 5MP footage supports theft and liability investigations.
- 3 **Reduced Risk Exposure:**
Extended retention ensures video evidence is available when needed.
- 4 **Exceptional Reliability:**
Watchman NVRs maintain continuous, stable operation across multiple sites.
- 5 **Ease of Management:**
Intuitive local interface simplifies playback, export, and system monitoring.



EQUIPMENT USED (REFERENCE LIST)

Recording System:

- 2x Watchman 128-Channel NVRs per store (Made in Korea) 
- 12x 24TB enterprise HDDs per NVR (288TB total storage)

Cameras:

- Freedom TI-NC416-TDA-28
– 6MP IP Dome, Human & Vehicle Detection
- Freedom TI-NC416-XDA-28
– 6MP IP Turret, Human & Vehicle Detection
- Freedom TI-NC416-4VDZA
– 6MP Varifocal Dome
- Freedom TI-NC818DL-XPZA
– 6MP Varifocal Dome
- Freedom TI-NC405-TDA-36
– 6MP Dome (3.6mm lens)

Mounting Accessories:

- TruView THK_A-DS-1280ZJ-DM18
– Junction Box for Mini Dome
- TruView THK_A-TDB-HPTXD-W
– Junction Box for Mini Dome
- TruView PT-JB-17-W / PT-JB-07-W
– Camera Base Mounts

Networking Equipment:

- TI-POE24GFE-360
– 24-Port PoE Switch with 2 Gigabit Combo Uplinks

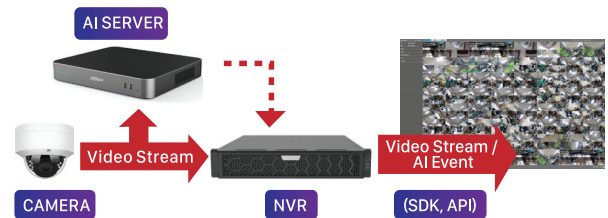
CLIENT FEEDBACK

“The Watchman NVR systems provided exactly what we needed—high-quality video, reliable long-term recording, and no recurring costs. It’s a true enterprise solution that works.”

— Major Northeastern Supermarket Chain Operations Team



WATCHMAN AI-INTEGRATED SMART SERVER SOLUTION



WHY WATCHMAN

1. Made in Korea | NDA & TAA Compliant
2. Up to 128 channels per unit (256 per site)
3. Supports 12 HDDs up to 24TB each (288TB total)
4. Long-term local recording — no subscription fees
5. Enterprise-grade reliability and smart playback functions



ABOUT POWER TECHNOLOGY INC.

Power Technology Inc. (PTI) provides professional-grade security and networking solutions for commercial and enterprise applications.

The Watchman Series, proudly made in Korea, delivers exceptional performance, scalability, and compliance for mission-critical surveillance systems.

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