



Tempest:

Unrivalled Security Monitoring for Mission-Critical Environments.

Surveillance platforms are often slow, difficult to use, and prone to critical failures, leaving people and assets vulnerable. Tempest is Soldel's answer: a fresh, modern surveillance platform engineered in Great Britain to deliver total confidence in your system. It records everything locally with optional cloud backup and proactively flags potential failures before they become problems, ensuring your system operates at 100%, 24/7. Built by Experts. Designed for Professionals.

Tempest Core Capabilities:

Comprehensive Recording & Data Management

- Records Everything:** Captures complete visual history.
- Long-Term Video Retention:** Securely stores footage for extended periods.
- 1-Click Video Evidence Extraction:** Quickly create and share evidential videos (MP4) with redaction and overlays.

System Reliability & Asset Protection

- 24/7 Asset Protection:** Ensures continuous monitoring and security.
- Low Internet Bandwidth:** Optimised for efficient data transfer.

Advanced Intelligence & Analytics

- On-Board AI Processing:** Powerful AI for real-time insights directly on the device.
- Reduced False Positives:** Focus on genuine threats with intelligent detection.
- Real-Time Analytics:** Instant, actionable AI insights and event triggers, not hours later.

Seamless Integration

- Access-Control Integration:** Connects with existing access control and building management systems.
- Business Integration:** Google Workspace & MS Teams



What Makes Tempest Different?

- Unbeatable Latency:** Experience LiveView so fast it feels like you're physically there; simply the quickest available.
- Built for Unreliable Networks:** Designed to thrive even over poor, patchy 4G/5G, or congested connections without disruption.
- Professional-Grade Hardware:** Runs on robust, professional-grade hardware, ensuring reliability and performance.
- Total System Confidence:** Tempest monitors every component - camera, network, storage - and immediately alerts you to any issues, guaranteeing 24/7 operation.
- Real-Time AI Response:** Actionable AI insights and event triggers happen instantly, preventing delays.



TEMPEST: EDGE

- 16 x AI channels
- 128 x live monitoring cams
- Fast install, minimal setup

Designed for rapid deployment in professional environments. Ideal for installers, integrators, and security teams who want results straight out of the box.



TEMPEST: EDGE SERVER

- 128 x AI channels
- 1024 x live monitoring cams
- Built for enterprise-scale operations

Suited to complex or high-throughput environments where resilience, control, and deep integration are key.

Who Are We?

Soldel Ltd is a British company with over 20 years of experience designing advanced vision systems for national security agencies, police forces, and everyday surveillance products.

We are passionate about building smart, useful technology, and Tempest is our answer to the industry's need for a modern, reliable surveillance platform.

If your job is to keep people and assets safe, Tempest was built for you.



TECHNICAL SPECIFICATION

| | | |
|--------------------------------------|---|---|
| SMART STREAMING | Streaming performance | Supports meta-data AI inference transmission (sub 1 Kbps) |
| | Connection | AES encrypted and optimised for lowest industry bandwidth (SCTP/UDP protocols) |
| VIDEO STREAMING | Streaming performance | Multiple camera streams; any resolution/fps depending on available bandwidth |
| | Streaming connection | Secure encrypted link; tested over even the most unreliable networks |
| | Playback | Full remote video control; playback from any recorded time |
| | Evidential video maker | Create evidence videos for instant sharing (MP4) + redaction + time/info overlays |
| | High-resolution image retrieval | Enhanced / scaled image retrieval (JPEG) + redaction + time/info overlays |
| RECORDING | Recording performance | record from camera, record transcoded with time overlay |
| | Security | AES-256 |
| | Storage | Fixed storage and removable USB sticks / SD cards / external hard drive |
| | | Auto remote repair of storage + hot-swappable |
| | | Encrypted + long term local retention of events |
| Typical recording duration | Choose from optimised for quality or duration | |
| CONNECTIVITY | Cellular | System transmission is optimised for cellular connections |
| | WIFI | Supported |
| | LAN | supports variety of LAN based connections & MTU sizes |
| DIAGNOSTICS & MAINTENANCE | Remote configuration | Plug in and go. 100% remote configurable |
| | Health monitoring | Reports on system health incl. internals, heat, network attacks |
| CAMERA INPUTS | Video Input Format | IP cameras with RTSP and/or ONVIF + (subject to HW => analogue + CSI) |
| | | Support 100s of cameras per device (ideal for large installations) |
| | Audio | from IP cameras or IP microphones |
| | PTZ | IP cameras via ONVIF / PELCO |
| ANALYTICS | Various models available | People/vehicles/ANPR/QR (enhanced searching) |
| | Motion detection | triggering/notifications/meta-data extraction |
| | External triggers | APIs / UART interfacing with external systems |
| | Events database | Maintains list of events |
| HARDWARE CHARACTERISTICS | CPU | ARM / Intel supported |
| | DDR | Typically 2GB minimum (depends on feature-set) |
| | Encryption | Yes |
| | Neural AI accelerators | Intel / NVidia |
| | HW video codecs | Tempest supports systems with and without HW video codecs |
| SOFTWARE ARCHITECTURE | Security | Vulnerability tested to UK government standard + NDAA compliant |
| | Connectivity & distribution | Tempest is periodically upgraded for feature additions and improvements |

Deeper information available under NDA.