VICON

## Sales Alert

# Introducing Our Upgraded Thermal Sensor Models


*The SN683D or SN688D PTZ cameras are sold separately.

Designed for superior 360-degree surveillance, the latest VTR thermal camera sensor delivers the same dependable technology as the previous version. This version includes updated analytic offerings tailored to your security operation, cost-effective resolution options and built-in Valerus VMS interface appliance (TRIA).

## Product at a Glance

- Thermal detection and tracking of intruders up to 500 m in a 360° panoramic view
- Integrated high-speed PTZ provides real-time tracking
- Geospatial tracking on localized maps
- Excellent performance regardless of lighting or weather conditions
- Dual inputs to VMS provide PTZ image and multi-screen customized thermal display
- One thermal unit can replace up to 8 fixed cameras
- Perfect for large storage yards, parking lots, power plants or other secure areas

**Added lower-cost models for operations monitoring less than 250 meters of uninterrupted space.**

**Recent Updates:**

Vicon's latest VTR thermal camera sensors deliver 360-degree surveillance in expansive areas, continually inspecting for people and objects; they can be used in both indoor and outdoor perimeter environments. New to the line are two highly cost-effective models that have a 320x256 resolution and offer the same high quality features as higher resolution models. They are ideal for applications such as small airports and facilities.

*Some highlights include:*

**Improvements to image clarity and detection distance for well-defined and distinct visuals with fewer false positives.**

**New enhanced analytics including not only person and vehicle detection, but also fire detection and equipment temperature monitoring.**

**The Thermal Radar Integration Appliance (TRIA) is now built into the unit, facilitating installation and the need to purchase the unit.**

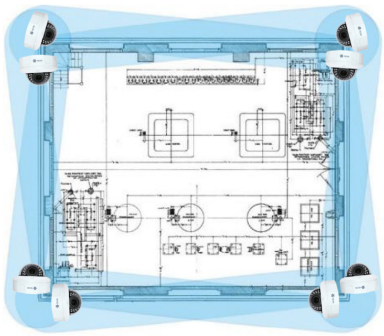
**Improved exterior hardware design now reduces the amount of moving parts, decreasing the potential for replacing components to this unit.**

With these features also comes the expansion of sophisticated analytics that are used to determine and classify detections within your perimeter. Edge analytics are included for human, vehicle and fire detection. These embedded analytics provide security (*intrusion and classification*), fire detection and temperature monitoring.

## 360-Degree Situational Awareness

When used with our SN683D or SN688D PTZ camera, the VTR thermal camera sensors deliver integrated guarding technology, providing a live 360-degree surveillance feed that continually searches for intruders. The area protection begins with the powerful thermal sensor that continuously scans 360-degrees for potential threats. When a threat is detected, the PTZ will automatically slew-to-cue, providing immediate visual verification and forensic coverage. Operators will also receive an alert, along with GPS coordinates of the threat with a map of the property.

A single VTR sensor with an integrated PTZ can cover a massive area that would traditionally require several fixed cameras, thereby simplifying operations from installation to everyday monitoring.



**You will need**
**Eight Fixed Thermal Cameras...**

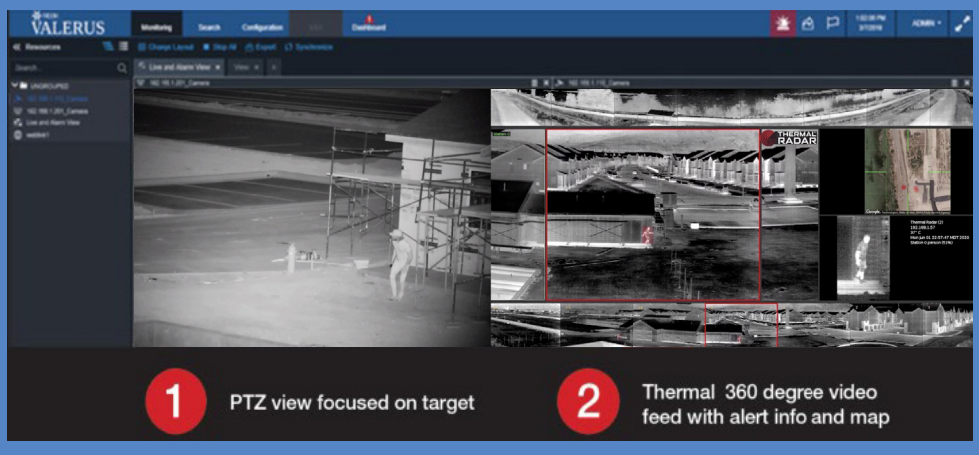

**...to get the surveillance coverage of ONE VTR/PTZ**

**The thermal sensor does the work of multiple fixed cameras, decreasing the number of security personnel needed to monitor critical areas.**

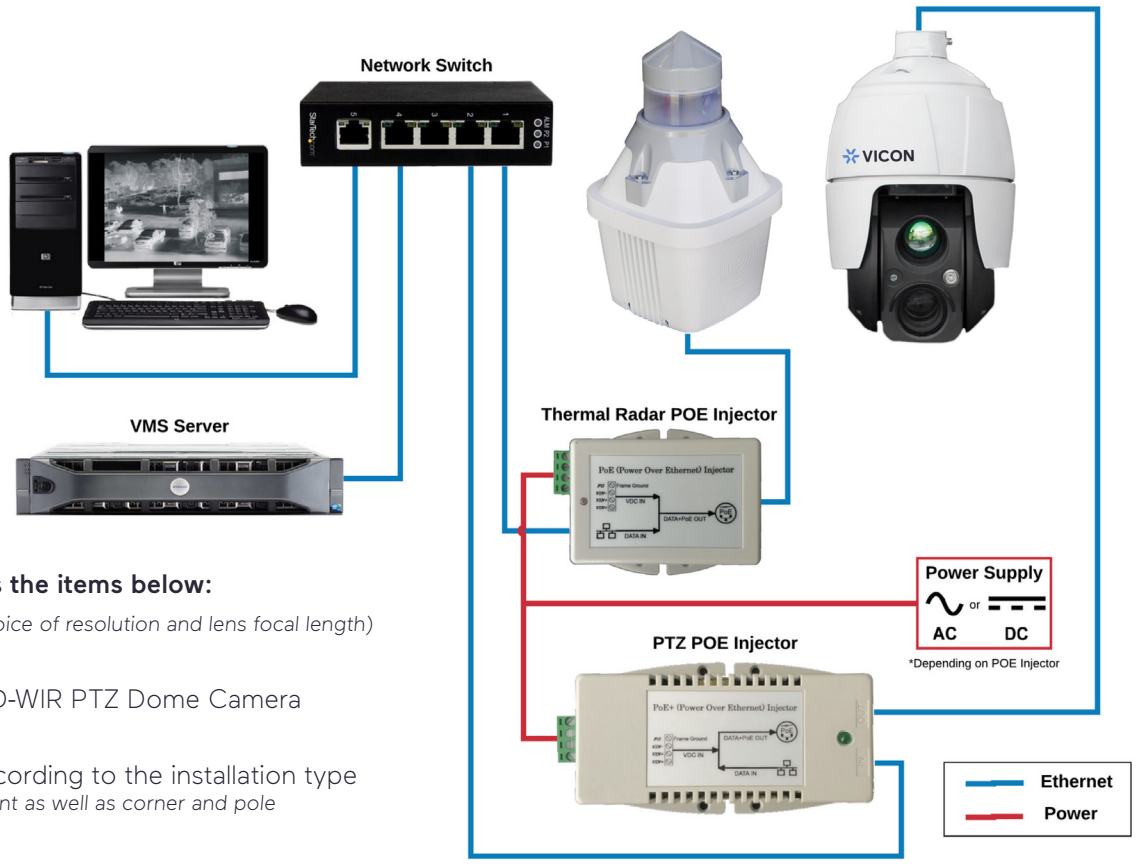
This figure illustrates better perimeter coverage with just one sensor vs. 8 fixed thermal cameras. Establish a perimeter anywhere and the rotating thermal sensor provides continuous thermal coverage, securing your business borders.

## Integration with Valerus:

The unique integration of the VTR thermal camera sensor and the SN683D/SN688D with the Valerus VMS provides two views. The image on the left (#1) is directly from the PTZ. The images on the right (#2) are from the thermal imaging sensor and the customizable user-friendly UI can be configured to provide tailored alerts. With Valerus's powerful event search, users can review all alerts for rapid forensic investigations.

# How it Works:




**A typical system includes the items below:**

- Thermal Sensor unit *(choice of resolution and lens focal length)*
- SN683D-WIR or SN688D-WIR PTZ Dome Camera
- Mounting Accessory according to the installation type *(wall, gooseneck or roof mount as well as corner and pole mounting brackets)*

## Product Descriptions and Pricing

| MODEL | PRODUCT CODE | RESOLUTION/ DESCRIPTION |
|---|---|---|
| **Camera** | | |
| VTR-3200 | 10560-00 | THERMAL SENSOR CAMERA; 360° thermal imaging module; 320×256 resolution; 6.3 mm focal length; includes TRIA device |
| VTR-3300 | 10560-05 | THERMAL SENSOR CAMERA; 360° thermal imaging module; 320×256 resolution; 9.1 mm focal length; includes TRIA device |
| VTR-6200 | 10560-10 | THERMAL SENSOR CAMERA; 360° thermal imaging module; 640×512 resolution; 8.7 mm focal length; includes TRIA device |
| VTR-6400 | 10560-15 | THERMAL SENSOR CAMERA; 360° thermal imaging module; 640×512 resolution; 14 mm focal length; includes TRIA device |
| VTR-6600 | 10560-20 | THERMAL SENSOR CAMERA; 360° thermal imaging module; 640×512 resolution; 18 mm focal length; includes TRIA device |
| **Mounting Options** | | |
| V-ARM-TR | 10514-40 | MOUNTING ARM; required interface for combined VTR sensor and the SN683D/SN688D PTZ dome |
| V-GNB-TR | 10514-41 | GOOSENECK MOUNTING BRACKET; for VTR/PTZ combination |
| V-PMK-TR | 10514-42 | POLE MOUNTING KIT; for VTR/PTZ combination |
| V-CMK-TR | 10514-43 | CORNER MOUNTING KIT; for VTR/PTZ combination |
| V-RMK-TR | 10514-44 | ROOF MOUNTING KIT; for VTR/PTZ combination |

## Thermal Camera Specifications

| MODEL | VTR-3000 SERIES | VTR-6000 SERIES |
|---|---|---|
| **Thermal Imager Module** | | |
| Thermal Sensor Type: | FLIR® Boson Uncooled VOx microbolometer | |
| Frame Rate: | 9 Hz/60 Hz | |
| FPA Resolution: | 320 x 256 | 640 x 512 |
| Image Bit Depth: | 16 bit thermal infrared | |
| Lens Focal Length: | 6.3 mm, 9.1 mm | 8.7 mm, 14 mm, 18 mm |
| **Speed and Resolution** | | |
| Rotation Speed: | VTR-3200: 35 RPM; VTR-3300: 28 RPM | VTR-6200: 42 RPM; VTR-6400: 35 RPM; VTR-6600: 28 RPM |
| Image FOV (H): | 360° continuous | |
| Image FOV (V): | VTR-3200: 19.5°; VTR-3300: 27.3° | VTR-6200: 19.5°; VTR-6400: 25.6°; VTR-6600: 39.3° |
| Image Resolution: | 320 x 256 per station | 640 x 512 per station |
| Stations: | VTR-3200: 11; VTR-3300: 15 | VTR-6200: 8; VTR-6400: 11; VTR-6600: 15 |
| Refresh Rate: | VTR-3200: 1.7 s; VTR-3300: 2.1 s | VTR-6200: 1.3 s; VTR-6400: 1.7 s; VTR-6600: 2.1 s |
| **Communication** | | |
| Ethernet: | Autoswitch 100 Mbps - 1 Gbps | |
| Network Security: | TLS with password protection | |
| Network Protocols: | Zeroconfig system with multicast, DNS/DNS-SD Service Discovery, DHCP, NTP, TCP/IP, UDP/IP | |
| **Processor and Analytics** | | |
| Processor: | Quad Core, 64-bit | |
| Memory: | 4 GB RAM | |
| Embedded Analytics: | Security: intrusion and classification, fire detection, temperature monitoring | |
| Detection Zones: | Configurable Areas of Interest, Exclusions and Motion Filters | |
| **Video** | | |
| Compression (Streaming): | H.264 | |
| Resolution/Frame Rate: | 1080p/8-15 fps | |
| **Detection Range** | | |
| Human: | Up to 225 m | Up to 500 m |
| Vehicle: | Up to 750 m | Up to 1500 m |
| Fire: | Up to 2.5 km | Up to 5 km |
| **Environmental** | | |
| Operating Temperature: | -4 to 140° F (-20 to 60° C); Storage: -4 to 185° F (-20 to 85° C) | |
| Certification: | IP67 | |
| **Power Requirements** | | |
| Power Source/Connector: | PoE+, IEEE 802.3at, 802.3at - LTPoE++ (90 W); RJ-45 | |
| Power Consumption: | <16 W, 12 W typical | |

## Thermal Camera Specifications Continued

| Mechanical/General | |
|---|---|
| Dimensions (W x H): | 6.49 in. x 11.06 in. (165 mm x 281 mm); refer to dimensional diagram |
| Weight: | About 7 lb (3 kg) |
| Country of Origin: | USA |
| PTZ Integration: | PTZ Slew-to-Cue commands upon detection |
| VMS Integration: | ONVIF compliant: RTSP stream, alerts |

View PTZ Specs

Watch this video to see how the thermal sensor can be leveraged for your security operation.


**Please contact your regional sales representative or visit vicon-security.com for more information.**