## VISIX™ VT Series Thermal Imager

The VISIX VT Series Thermal Imager (available with 35 or 56 degree arrays) allows you to see where you never could before. When using high-contrast thermal imaging for object tracking, the results are a dramatic reduction in false alarms. Unlike standard thermal imagers, the VT Series Thermal Imager provides the advantage of alarm generation, object verification and equipment monitoring . This tiny but powerful thermal imager is not affected by changes in lighting, low-contrast scenes or inclement weather, and no illumination is required.

The embedded analytics use algorithms that automatically self-adjust, allowing the user to concentrate on the object detection rules. This greatly simplifies the analytics setup process. These advanced analytics, coupled with thermal technology allow for object classification, direction, people counting, dwell times, video alarm verification, retail traffic flow, queue management and occupancy counts.  The ability to utilize the camera's temperature monitoring thresholds allows for easy monitoring of generators, electrical panels, etc… to proactively notify a customer of an overheating or runaway condition providing an effective way to manage and preserve assets and security. The VX-VT's application versatility means it can be leveraged by any business, of any size.

The imager is compatible with the VIGIL Software Suite including VIGIL Client, VIGIL VCM and the View Lite II mobile app.  Simple plug-and-play installation allows for access using a standard web browser, VIGIL Client, or your mobile device or tablet.



## Key Features and Benefits

| | |
|---|---|
| **Frame Rate** | 9 fps |
| **Compression** | H.264, MJPEG |
| **Two-Way Audio** | ✓ |
| **On-Camera Storage** | Up to 128GB |
| **Alarm I / O** | 1 / 2 |
| **Weather Resistance** | IP66 |
| **Base Analytics** | ✓ |
| **Advanced Analytics** | ✓ |
| **Array Size** | ■ 35° - 206x156<br>■ 56° - 320x240 |
| **Lens** | 4mm Fixed |

## Typical Use Cases

**DEALERSHIPS & RENTAL YARDS**

**INDUSTRIAL**

**WAREHOUSE & DISTRIBUTION**

**MULTI-TENANT**

## What's in the Box

**Template Sheet**
**Torx Wrench**
**Waterproof Cap & Gasket**
**Screws & Anchors**
**Test Video Cable**

## Camera

| | |
|---|---|
| Image Sensor | 12 µm Uncooled Sun-Safe Vanadium Oxide Microbolometer |
| Spectral Response | 7.8 ~ 14µm |
| Lens | 4mm Fixed |
| Range* | Detection: 250 Ft / 76.2 M |
| | Recognition: 150 Ft / 45.72 M |
| | Identification: 50 Ft / 15.24 M |
| Angle of View | 35°, 56° (depending on model) |
| Day / Night | Thermal |
| Remote Focus | No |
| Detection Temp Range | -40°C ~ 330°C (-40°F ~ 626°F) |

**\*** Stated ranges are for Human object classification. Ranges will vary based on object classification criteria.

## Compression Standard

| | |
|---|---|
| Video Compression | H.264, MJPEG |
| Dual Streams | Yes |

## Image

| | | |
|---|---|---|
| Max Image Resolution | VX-VT-35: | 206x156 |
| | VX-VT-56: | 320x240 |
| Frame Rate | 9fps | |
| Image Orientation | Flip / Mirror / Corridor Mode (-90°, +90°) | |

## Functions

| | |
|---|---|
| Alarm Triggers | Motion Alarm, Network disconnect, Temp. critical |
| Audio Compression | G.711 |
| Security | HTTPS(SSL), IP filtering, 802.1x, Digest Authetication |
| Protocols | HTTP, Qos Layer 3 DiffServ, TCP/IP, HTTP, HTTPS,FTP, UDP/IP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP, SMTP, DHCP, DNS, DDNS, NTP, IPv4,SNMPv1/v2c/v3(MIB-II), IGMP, ICMP |
| System Compatibility | ONVIF (Profile S) |
| Product Support | 3xLOGIC (VIGIL), Aimetis, Alnet, Artec, Avigilon, Digifort, Digi-IT, Emstone, Exacq, Genetic, Getebruck, GVD, LuxRiot, Milestone, Mirasys, Nuuo, ONSSI, Seetec, SmartStation, Wavestore, Win4Net |

## Electrical

| | |
|---|---|
| Power Supply | DC12v or POE IEEE 802.3af |
| Power Consumption | DC12V Max 8.6W |

## Physical

| | |
|---|---|
| Op. Conditions | -40 º C - 59 º C (-40 º F - 138ºF) |
| Humidity | 85% max - non condensing |
| Weather Rating | IP66 |
| Dimensions | 8.23 (L) in x 2.4 (W) in x 2.99 (H) in |
| | 209 (L) mm x 61 (W) x 76 (H) mm |
| Weight | 1.4 lb / 621 g |

(3X) ⌀ 4.80 MOUNTING HOLE
⌀ 58 BOLT PATTERN
⌀ 69

**ONVIF**
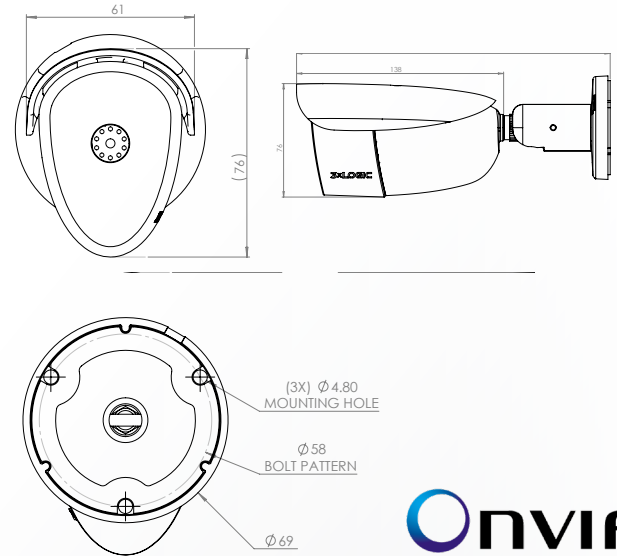
## Part Number

| | |
|---|---|
| VX-VT-35 | 35° FoV Exterior Thermal Bullet w/ Advanced analytics |
| VX-VT-56 | 56° FoV Exterior Thermal Bullet w/ Advanced Analytics |
| VX-VT-35-S128 | Add All-in-One functionality with 128GB SD Card |
| VX-VT-56-S128 | Add All-in-One functionality with 128GB SD Card |

## Interface

| | |
|---|---|
| Communication | RJ45(10/100BASE-T) |
| Alarm Input | 1 |
| Alarm Output | 2 |
| Audio Input | 1-channel microphone input, cable (mic-in/line-in) |
| Audio Output | 1-channel audio interface |

## Warranty

Three (3) years

## Analytics

Base (included):
- Detection Zones: Polygons and Lines
- On-screen Display: Real-time Display of Tracking
- Image Stabilization
- Change of Scene Detection
- Temp Monitoring for Equipment Control

Advanced (included):
- Size-based Object Classification
- Detection Behavior; Direction, Stopping,
- Entering, Exiting, Appear and Disappear Filters
- Speed Filters
- Above / Below Temp Detection
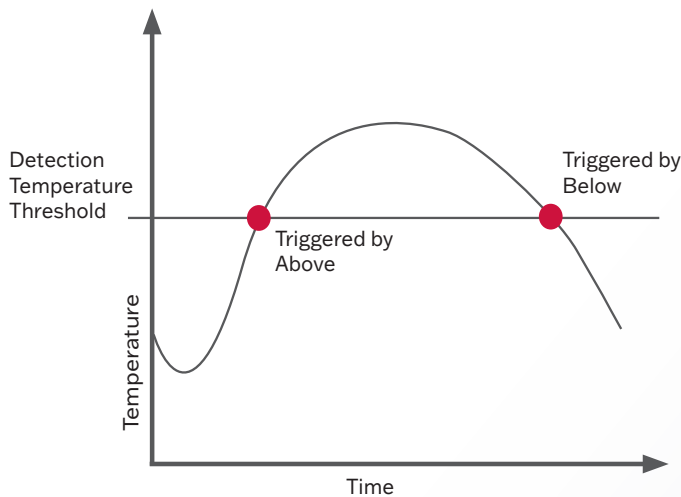- Slope Rate temp Detection

## Certifications / Compliance

FCC Part 15, Subpart B, Class A
CAN ICES-3 (A)/NMB-3(A)
UL and ULC Safety
CE
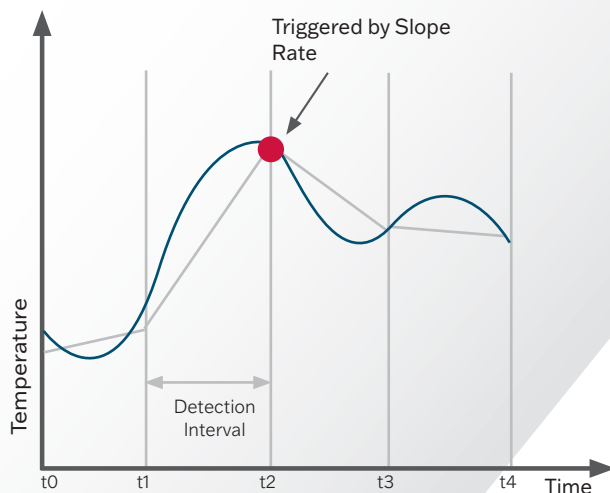NDAA Compliant

## Equipment Monitoring

## Temperature Detection - Above / Below:

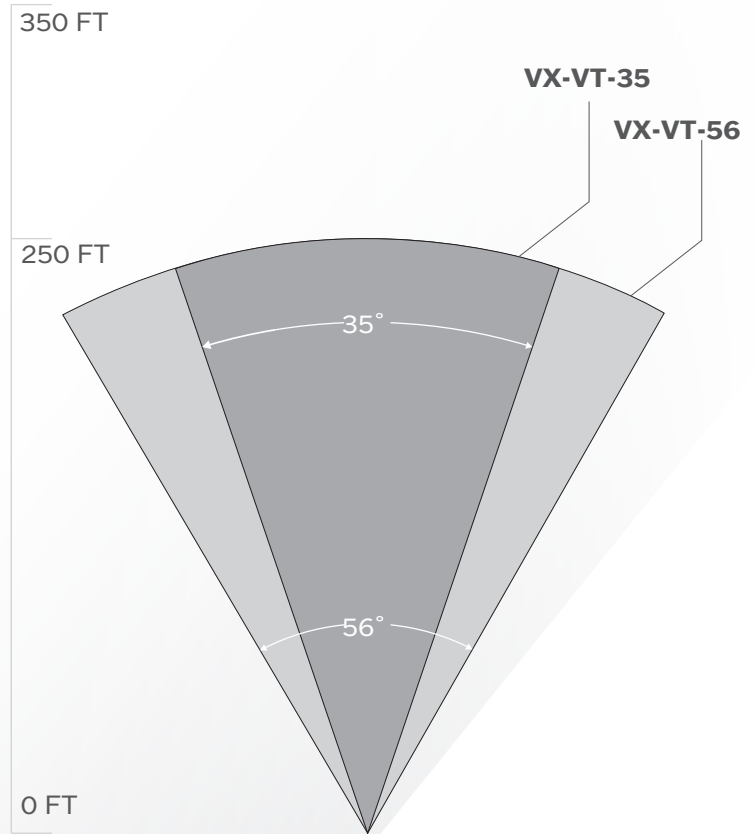Generate an event when temperature is higher/lower than set threshold

Detection Temperature Threshold

Triggered by Below

Triggered by Above

Temperature

Time

## Temperature Detection - Slope Rate:

Generate an event when temperature is raising or lowering at a defined ratio and interval.

Triggered by Slope Rate

Temperature

Detection Interval

t0　t1　t2　t3　t4　Time

## Detection Range Info

350 FT

VX-VT-35

VX-VT-56

250 FT

35°

56°

0 FT

| | Human (Object Class) |
|---|---|
| **Detection** | **56°/35°:** 250ft / 76.2 M |
| **Recognition** | **56°/35°:** 150ft / 45.7 M |
| **Identification** | **56°/35°:** 50ft / 15.2 M |