tp-link | VIGI

**Datasheet**
Security Never Shuts Down

# 4MP IR Motorized Varifocal Turret Network Camera

MODEL: InSight S445ZI



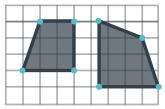

Human & Vehicle Classification | True WDR | IP67 Weatherproof

## Human & Vehicle Classification

Intelligently distinguishes humans and vehicles from other objects, so you receive more accurate event notifications.



## Smart Detection



Intrusion Detection



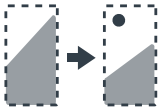
Line-Crossing Detection



Object Removal Detection



Object Abandoned Detection



Scene Change Detection



Region Entering Detection



Region Exiting Detection



Loitering Detection

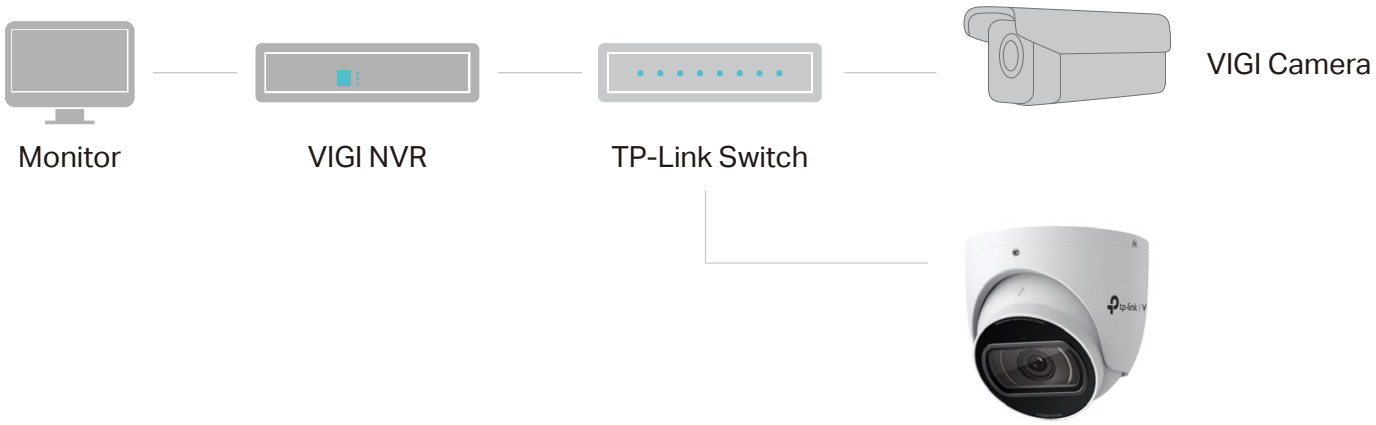


Abnormal Sound Detection

# VIGI Surveillance Solution

The VIGI professional surveillance system by TP-Link is dedicated to protecting the business that you've worked hard to build—whenever, wherever.

Outstanding functions, reliable quality guarantees, and simplified installation work together to ensure your business stays safe and sound.

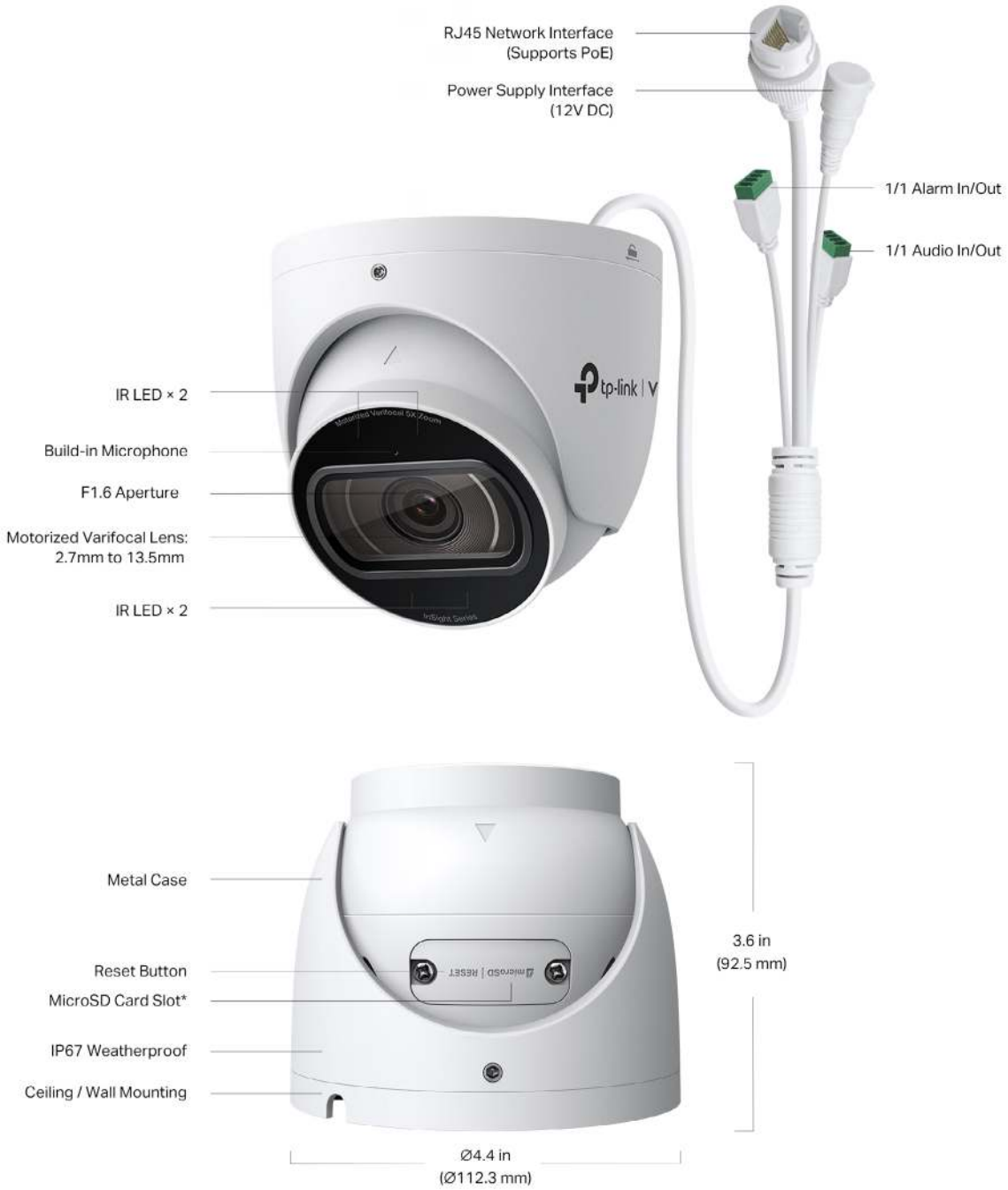



# Flexible Installation

Easily route your camera's cable into a dropped ceiling or avoid drilling by slotting it through the camera's side outlet.



# Build Features




*SD card is not included in the package.

# Specifications

| | |
|---|---|
| **Camera** | |
| Product Model | InSight S445ZI |
| Image Sensor | 1/2.9" Progressive Scan CMOS |
| Shutter Speed | 1/3 to 1/10000 s |
| Slow Shutter | Yes |
| Min. Illumination | 0.005 Lux; 0 Lux with IR Light |
| Day/Night Mechanism | IR Cut Filter |
| Day/Night Switch | Unified/ Scheduled/ Auto |
| **Lens** | |
| Type | Motorized Varifocal Lens |
| Focal Length | 2.7-13.5 mm (5X Optical Zoom) |
| Aperture | F1.6 |
| FOV | 2.7-13.5 mm:<br>• Horizontal FOV: 29.6°-102.0°<br>• Vertical FOV: 16.8°-53.8°<br>• Diagonal FOV: 34.1°-122.8° |
| Lens Mount | φ14 |
| DORI Distance | 2.7-13.5 mm:<br>• Detect: 66-207 m (217-579 ft)<br>• Observe: 28-86 m (92-282 ft)<br>• Recognize: 13-41 m (43-135 ft)<br>• Identify: 7-21 m (23-69 ft) |
| **Angle Adjustment (Manual)** | |
| Range | Pan: 0° to 360°, Tilt: 0° to 77°, Rotation: 0° to 360° |
| **Illuminator** | |
| IR LED | • Quantity: 4<br>• Range: 60m (197ft)<br>• Wavelength: 850nm |

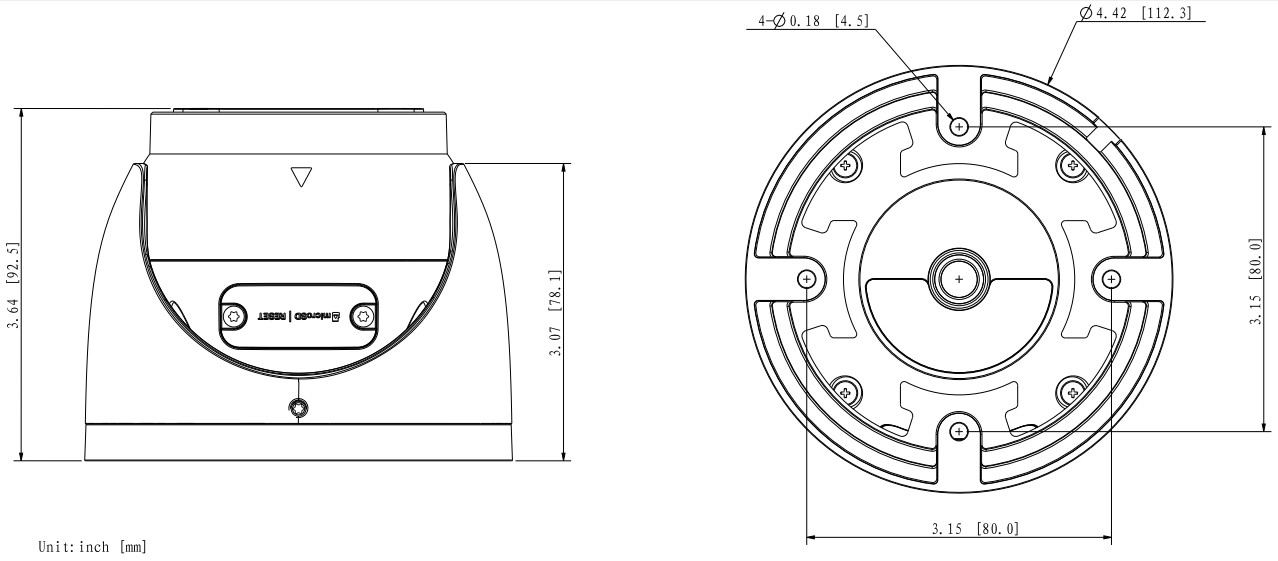
| | |
|---|---|
| Illuminator On/Off Control | Auto/Scheduled/Always on/Always off |
| **Video** | |
| Max. Resolution | 2688*1520 |
| Main Stream | • Frame Rate:<br>50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps<br>60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps<br>• Resolution:<br>2688x1520, 2560x1440, 2304x1296, 2048x1280, 1920x1080<br>Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps. |
| Sub-Stream | • Frame Rate:<br>50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps<br>60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps<br>• Resolution:<br>1280x720, 848x480, 704x576, 640x480, 640x360, 352x288, 320x240<br>Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps. |
| Bit Rate Control | CBR, VBR |
| Video Compression | • Main Stream: H.265+/H.265/H.264+/H.264<br>• Sub-Stream: H.265/H.264 |
| H.264 Type | High Profile |
| H.264+ | Main Stream Supported |
| H.265 Type | Main Profile |
| H.265+ | Main Stream Supported |
| Video Bit Rate | • Main Stream: 256 Kbps to 6 Mbps<br>• Sub-Stream: 64 Kbps to 1024 Kbps |

| Image | |
|---|---|
| Image Settings | • Mirror<br>• Brightness<br>• Contrast<br>• Saturation<br>• Sharpness<br>• Exposure<br>• WDR<br>• White Balance<br>• Prevent Overexposure to Infrared Light<br>• HLC Adjustable by Client Software |
| Image Enhancement | BLC/3D DNR/HLC/SmartIR |
| Wide Dynamic Range | 120 dB |
| SNR | ≥ 52 dB |
| Image Parameters Switch | Yes |
| Privacy Mask | Up to 4 Masks |
| ROI | 1 Region |
| OSD Setting | Yes |
| **Audio** | |
| Audio Communication | Two-Way Audio |
| Audio Input | Yes |
| Audio Output | Yes |
| Audio Compression | Yes |
| Audio Sampling Rate | 8KHz |
| Environment Noise Filtering | Yes |
| Audio Bit Rate | 64 Kbps (G.711 alaw) |
| **Network** | |
| Protocols | TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, DNS, RTSP, NTP, UPnP UDP, SSL/TLS, FTP/SFTP, RTP, IPv4, IPv6, ARP |
| ONVIF | Yes |
| API | Open Network Video Interface (Profile S/T/G) |

| | |
|---|---|
| Simultaneous Live View | 3 Main Streams & 3 Sub-Streams |
| Client | VIGI App, VIGI Security Manager, Web UI, VIGI VMS, VIGI Cloud VMS |
| Web Browser | • Google Chrome® 57 and above<br>• Firefox® 52 and above<br>• Safari® 11 and above<br>• Microsoft® Edge 91 and above |
| Cloud | Yes |
| Security | Password Protection, HTTPS Encryption, IP Address Filter, Digest Authentication |
| **Alarm and Event Management** | |
| Smart Event | • Intrusion Detection<br>• Line-Crossing Detection<br>• Region Entering Detection<br>• Region Exiting Detection<br>• Object Abandoned Detection<br>• Object Removal Detection<br>• Loitering Detection<br>• People Detection<br>• Vehicle Detection<br>• Abnormal Sound Detection<br>• Scene Change Detection |
| Basic Event | • Motion Detection (Enhanced with Human & Vehicle Classification for more accurate alerts)<br>• Video Tampering Detection<br>• Exception ( Illegal Login) |
| Alarm Linkage | • Memory Card Video Recording<br>• Message Push<br>• Audible Warning<br>• Email Alarm<br>• Upload Capture to FTP<br>• Alarm Out Device |
| **Interface** | |
| Network Interface | 1 RJ45 10/100M Self-Adaptive Ethernet Port, PoE |

| | |
|---|---|
| On-board Storage | Built-In Memory Card Slot, Support MicroSD Card, up to 512 GB** |
| Built-in Speaker | N/A |
| Built-in Microphone | Yes; Records Anything Going on within a 15-ft Radius of the Camera |
| Audio | 1 Audio In, 1 Audio Out |
| Alarm | 1 Alarm In, 1 Alarm Out |
| Reset Button | Yes |
| Power | DC Power Port |
| General | |
| Operating Temperature | -30 °C to 60 °C |
| Storage Temperature | -40 °C to 60 °C |
| Operating Humidity | 95% or Less (Non-Condensing) |
| Storage Humidity | 95% or Less (Non-Condensing) |
| Package Contents | • VIGI Network Camera<br>• Quick Start Guide<br>• Waterproof Cable Attachments<br>• Mounting Accessories |
| Power Supply | • 12V DC ± 5%, Max.10.8 W, 5.5 mm Coaxial Power Plug<br>• PoE: 802.3af/at, class 0, Max.12 W |
| Protection | IP67 Weatherproof, IK10 Vandal Proof |
| Material | Metal |
| Net Weight | 0.71 Kg |
| Gross Weight | 0.96 Kg |
| Product Dimensions | Φ4.4 × 3.6 in (Φ112.3 × 92.5 mm) |
| Certifications | CE, NTRA, VCCI, KC, BSMI, FCC, IP67, IK10, ONVIF |

## Dimensions




**Micro SD card is not included in the package.

Specifications are subject to change without notice and can be found at **www.vigi.com**.

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