



**Datasheet**  
Security Never Shuts Down

# Outdoor ColorPro 2.0

Bullet Network Camera

MODEL: InSight S345S



Ultra  
Low Light  
Night Vision

4MP | H.265+

|                   |                                 |                                   |                    |                      |
|-------------------|---------------------------------|-----------------------------------|--------------------|----------------------|
| AI-ISP<br>Powered | People & Vehicle<br>Analytics** | Human & Vehicle<br>Classification | Smart<br>Detection | IP67<br>Weatherproof |
|-------------------|---------------------------------|-----------------------------------|--------------------|----------------------|

## // VIGI Color Pro 2.0 Night Vision

Compared with ColorPro 1.0, 2.0 is powered by AI ISP Technology, achieving higher image quality and color transparency in ultra low light conditions.

## // LightPro Night Vision Technology

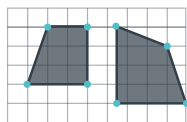
Intelligently switches between IR and full-color night vision by detecting people or vehicles, effectively minimizing light pollution and conserving energy.



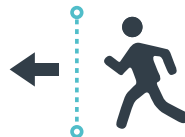
## // Smart Detection



Human & Vehicle  
Classification



Intrusion Detection



Line-Crossing  
Detection



Abnormal Sound  
Detection



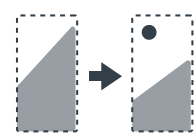
Region Entering  
Detection



Region Exiting  
Detection



Loitering  
Detection

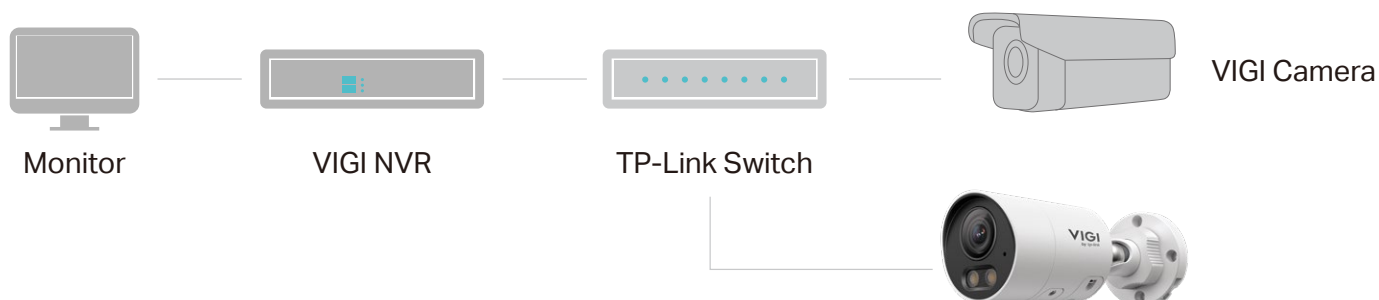


Scene Change  
Detection

## // VIGI Surveillance Solution

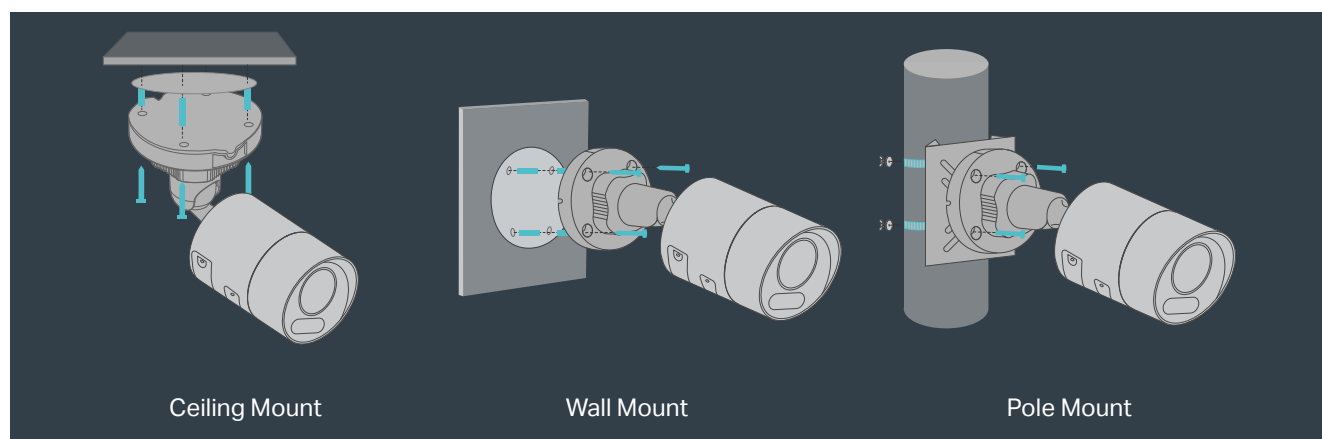
The VIGI professional surveillance system by TP-Link is dedicated to protecting the business that you've worked hard to build—whenever, wherever.

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



## // Flexible Installation

Find the perfect vantage point by simply securing your camera to the ceiling, wall, or pole.\*



## // Build Features



\*The pole mounting kits are not included in the package.

## // Specifications

| Camera                     |                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Model              | InSight S345S                                                                                                                                                                              |
| Image Sensor               | 1/1.79" Progressive Scan CMOS                                                                                                                                                              |
| Shutter Speed              | 1/3 to 1/10000 s                                                                                                                                                                           |
| Slow Shutter               | Yes                                                                                                                                                                                        |
| Min. Illumination          | 0.0005 Lux; 0 Lux with IR/White Light                                                                                                                                                      |
| Day/Night Mechanism        | IR Cut Filter                                                                                                                                                                              |
| Day/Night Switch           | Unified/ Scheduled/ Auto                                                                                                                                                                   |
| Lens                       |                                                                                                                                                                                            |
| Type                       | Fixed Focal Lens                                                                                                                                                                           |
| Focal Length               | 4 mm                                                                                                                                                                                       |
| Aperture                   | F1.0                                                                                                                                                                                       |
| FOV                        | Horizontal FOV: 95°, Vertical FOV: 51°, Diagonal FOV: 115°                                                                                                                                 |
| Lens Mount                 | M16                                                                                                                                                                                        |
| DORI Distance              | Detect: 249ft (76m)<br>Observe: 95ft (29m)<br>Recognize: 46ft (14m)<br>Identify: 23ft (7m)                                                                                                 |
| Angle Adjustment (Manual)  |                                                                                                                                                                                            |
| Range                      | Pan: 0° to 360°, Tilt: 0° to 75°, Rotation: 0° to 360°                                                                                                                                     |
| Illuminator                |                                                                                                                                                                                            |
| IR LED                     | <ul style="list-style-type: none"><li>• Quantity: 2</li><li>• IR Range: 98 ft (30 m)<sup>†</sup></li><li>• White LED Range: 98 ft (30 m)<sup>†</sup></li><li>• Wavelength: 850nm</li></ul> |
| Illuminator On/Off Control | Auto/Scheduled/Always on/Always off                                                                                                                                                        |
| Video                      |                                                                                                                                                                                            |
| Max. Resolution            | 2688x1520                                                                                                                                                                                  |

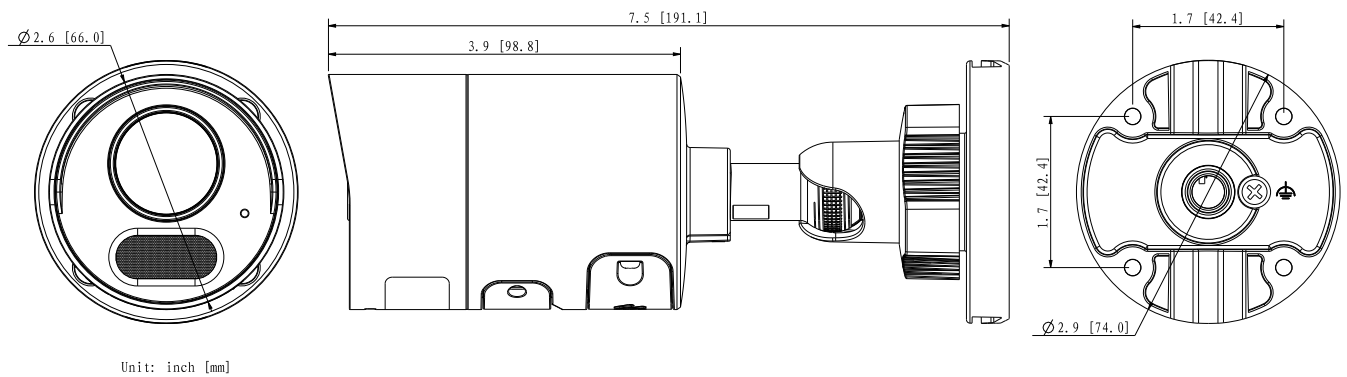
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Stream       | <ul style="list-style-type: none"> <li>• Frame Rate:<br/>50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps<br/>60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps</li> <li>• Resolution:<br/>2688x1520, 2560x1440, 2304x1296, 2048x1280, 1920x1080, 1280x720</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>• If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.</li> </ul> |
| Sub-Stream        | <ul style="list-style-type: none"> <li>• Frame Rate:<br/>50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps<br/>60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps</li> <li>• Resolution:<br/>848x480, 704x576, 640x480, 640x360, 352x288, 320x240</li> </ul> <p>Note:</p> <p>If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.</p>                                                         |
| Bit Rate Control  | CBR, VBR                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Video Compression | <ul style="list-style-type: none"> <li>• Main Stream: H.265+/H.265/H.264+/H.264</li> <li>• Sub-Stream: H.265/H.264</li> </ul>                                                                                                                                                                                                                                                                                               |
| H.264 Type        | High Profile                                                                                                                                                                                                                                                                                                                                                                                                                |
| H.264+            | Main Stream Supported                                                                                                                                                                                                                                                                                                                                                                                                       |
| H.265 Type        | Main Profile                                                                                                                                                                                                                                                                                                                                                                                                                |
| H.265+            | Main Stream Supported                                                                                                                                                                                                                                                                                                                                                                                                       |
| Video Bit Rate    | <ul style="list-style-type: none"> <li>• Main Stream: 256 Kbps to 6 Mbps</li> <li>• Sub-Stream: 64 Kbps to 1024 Kbps</li> </ul>                                                                                                                                                                                                                                                                                             |

| Image                       |                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Settings              | <ul style="list-style-type: none"> <li>• Mirror</li> <li>• Rotation</li> <li>• Brightness</li> <li>• Contrast</li> <li>• Saturation</li> <li>• Sharpness</li> <li>• Exposure</li> <li>• WDR</li> <li>• White Balance</li> <li>• Prevent Overexposure to Infrared Light</li> <li>• HLC Adjustable by Client Software</li> </ul> |
| 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 (Built-in Microphone)                                                                                                                                                                                                                                                                                                      |
| Audio Output                | Yes (Built-in Speaker)                                                                                                                                                                                                                                                                                                         |
| 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, SMTP, SNMP, RTMP                                                                                                                                                                                                     |
| ONVIF                       | Yes                                                                                                                                                                                                                                                                                                                            |
| API                         | Open Network Video Interface (Profile S/T/G)                                                                                                                                                                                                                                                                                   |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Simultaneous Live View            | 3 Main Streams & 3 Sub-Streams                                                                                                                                                                                                                                                                                                                                                                                              |
| Client                            | VIGI App, Web UI, VIGI VMS, VIGI Cloud VMS, VIGI Config Tool, VIGI PC Client                                                                                                                                                                                                                                                                                                                                                |
| Web Browser                       | <ul style="list-style-type: none"> <li>• Google Chrome® 57 and above</li> <li>• Firefox® 52 and above</li> <li>• Safari® 11 and above</li> <li>• Microsoft® Edge 91 and above</li> </ul>                                                                                                                                                                                                                                    |
| Cloud                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Security                          | Password Protection, HTTPS Encryption, IP Address Filter, Digest Authentication, 802.1X Authentication                                                                                                                                                                                                                                                                                                                      |
| <b>Alarm and Event Management</b> |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Smart Event                       | <ul style="list-style-type: none"> <li>• Intrusion Detection</li> <li>• Line-Crossing Detection</li> <li>• Region Entering Detection</li> <li>• Region Exiting Detection</li> <li>• Object Abandoned Detection</li> <li>• Object Removal Detection</li> <li>• Loitering Detection</li> <li>• People Detection</li> <li>• Vehicle Detection</li> <li>• Abnormal Sound Detection</li> <li>• Scene Change Detection</li> </ul> |
| Basic Event                       | <ul style="list-style-type: none"> <li>• Motion Detection (Enhanced with Human &amp; Vehicle Classification for more accurate alerts)</li> <li>• Video Tampering Detection</li> <li>• Exception ( Illegal Login)</li> <li>• Alarm Input Device</li> </ul>                                                                                                                                                                   |
| Alarm Linkage                     | <ul style="list-style-type: none"> <li>• Memory Card Video Recording</li> <li>• Upload to FTP Server</li> <li>• Alarm Output Device</li> <li>• Push Notifications</li> <li>• Send to Alarm Server</li> <li>• Active Defence-Sound Alarm</li> <li>• Active Defence-Light Alarm</li> <li>• Email Alarm</li> </ul>                                                                                                             |

| Deep Learning Function     |                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| People & Vehicle Analytics | Search and filter to people or vehicle of interest based on many different attributes, making post-event search faster and easier.‡                                          |
| 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           | Yes                                                                                                                                                                          |
| Built-in Microphone        | Yes; Records Anything Going on within a 16.4-ft (5 m) Radius of the Camera                                                                                                   |
| Audio                      | N/A                                                                                                                                                                          |
| 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           | <ul style="list-style-type: none"> <li>• VIGI Network Camera</li> <li>• Quick Start Guide</li> <li>• Waterproof Cable Attachments</li> <li>• Mounting Accessories</li> </ul> |
| Power Supply               | <ul style="list-style-type: none"> <li>• 12V DC <math>\pm</math> 5%, Max. 15.6 W, 5.5 mm Coaxial Power Plug</li> <li>• PoE: 802.3at, Class 4, Max. 17.9 W</li> </ul>         |
| Protection                 | IP67 Weatherproof                                                                                                                                                            |
| Material                   | Metal                                                                                                                                                                        |
| Net Weight                 | 0.6KG                                                                                                                                                                        |
| Product Dimensions         | $\Phi$ 2.6 $\times$ 7.5 in ( $\Phi$ 66 $\times$ 191 mm)                                                                                                                      |
| Certifications             | CE, FCC, BSMI, VCCI, KC, NTRA                                                                                                                                                |

## Dimensions



†Calculations are based on laboratory testing. Actual data is not guaranteed and will vary as a result of client limitations and environmental factors.

‡This feature must be used with VIGI specified software.

\*The Micro SD card and pole mounting kits are not included in the package.

Specifications are subject to change without notice and can be found at [www.vigi.com](http://www.vigi.com).

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