



DataSheet

Image Sensor

- **Type:** 1/3" Progressive Scan CMOS
 - **Shutter Speed:** 1/3 to 1/10000 s
 - **Slow Shutter:** Yes
 - **Minimum Illumination:** Color: 0.1 Lux; 0 Lux with IR
 - **Day/Night Mechanism:** IR Cut Filter
 - **Day/Night Switch:** Auto / Scheduled / Manual
 - **Digital Noise Reduction:** 3D DNR
 - **WDR:** DWDR
 - **IR Distance:** 30 m
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Lens

- **Type:** Fixed Focal Lens
- **Focal Length:** 2.8 mm / 4 mm
- **Aperture:**
 - 2.8 mm: F2.2
 - 4 mm: F2.0
- **Lens Mount:** M12
- **Field of View (FOV):**
 - 2.8 mm: H: 88.2°, V: 48.7°, D: 106.5°
 - 4 mm: H: 74.6°, V: 41.3°, D: 88.1°

DORI Distance

2.8 mm Lens:

- Detect: 45 m (149 ft)
- Observe: 19 m (62 ft)
- Recognize: 9 m (30 ft)
- Identify: 5 m (15 ft)

4 mm Lens:

- Detect: 60 m (198 ft)
- Observe: 25 m (83 ft)
- Recognize: 12 m (40 ft)
- Identify: 6 m (20 ft)

Manual Angle Adjustment

- Range:
 - Pan: 0° to 360°
 - Tilt: 0° to 85°
 - Rotation: 0° to 360°

Illuminator

- **IR LED: 1 unit, 30 m range, 850 nm wavelength**
 - **White LED: Not available**
 - **Illuminator Control: Auto / Scheduled / Always On / Always Off**
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Video

- **Max. Resolution: 1920 × 1080 (2 MP)**
- **Frame Rate:**
 - **Main Stream: 1, 5, 10, 15, 20, 25, 30 fps**
 - **Sub-Stream: 1, 5, 10, 15, 20, 25, 30 fps**
 - **Note: When image rotation is set to 90° or 270°, maximum frame rate is limited to 20 fps.**
- **Resolutions:**
 - **Main Stream: 1920×1080, 1280×960, 1280×720**
 - **Sub-Stream: 704×576, 640×480, 352×288, 320×240**
- **Video Compression:**
 - **Main Stream: H.265+/H.265/H.264+/H.264**
 - **Sub-Stream: H.265/H.264**
- **Bit Rate Control: CBR, VBR**
- **Video Bit Rate:**
 - **Main Stream: 256 Kbps to 4 Mbps**
 - **Sub-Stream: 64 Kbps to 512 Kbps**
- **Image Enhancements: BLC, 3D DNR, HLC, Smart IR**

- **Image Settings: Mirror, Brightness, Contrast, Saturation, Sharpness, Exposure, WDR, White Balance, Rotation (90°/270°)**
 - **Wide Dynamic Range: Yes**
 - **SNR: ≥ 52 dB**
 - **Privacy Masking: Up to 4 areas**
 - **ROI: 1 region**
 - **OSD: Supported**
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Audio

- **Audio Communication: Not supported**
 - **Audio Input/Output: Not supported**
 - **Built-in Microphone: Not supported**
 - **Environmental Noise Filtering: Yes**
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Network

- **Protocols: TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, DNS, RTSP, NTP, UPnP, SSL/TLS**
- **ONVIF Compliance: Yes**
- **API: ONVIF**
- **Simultaneous Live View: Up to 3 main streams and 3 sub-streams**
- **Supported Clients: VIGI App, VIGI Security Manager, VIGI NVR**

- **Supported Browsers:** Google Chrome 57+, Firefox 52+, Safari 11+, Microsoft Edge 91+
 - **Cloud Access:** Supported
 - **Security:** Password protection, HTTPS encryption, IP address filtering, Digest authentication
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Alarms and Events

- **Smart Events:**
 - **Human and Vehicle Classification**
 - **Area Intrusion Detection**
 - **Line-Crossing Detection**
 - **People Detection**
 - **Vehicle Detection**
 - **Region Entrance/Exit Detection**
 - **Object Abandonment Detection**
 - **Object Removal Detection**
 - **Basic Events:**
 - **Motion Detection**
 - **Video Tampering**
 - **Exception (Illegal Login)**
 - **Alarm Linkage: Push Notification**
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Interfaces

- **Network Interface:** 1 RJ45 10/100M Ethernet port
 - **Alarm Interface:** Not supported
 - **Reset Button:** Not supported
 - **On-board Storage:** Not supported
 - **Audio Interface:** Not supported
 - **Video Output:** Not supported
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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)
- **Maximum Power Consumption:** PoE Class 0
- **Power Supply:** PoE (802.3af/at, Class 0)
- **Material:** Plastic
- **Product Dimensions:** 123 × 83 × 123 mm
- **Net Weight:** 0.19 kg
- **Gross Weight:** 0.34 kg
- **Certifications:** CE, BSMI, VCCI, ONVIF
- **Package Contents:**

- **VIGI C420I Network Camera**
- **Quick Start Guide**
- **Mounting Accessories**