tp-link | VIGI

Datasheet
Security Never Shuts Down

IR Turret
Network Camera

MODEL: VIGI C420I (2.8/4mm), VIGI C430I (2.8/4mm), VIGI C440I (2.8/4mm)



Human & Vehicle Classification

Smart Detection

SmartVid

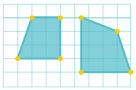
Remote Monitoring

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



Region Entering Detection



Region Exiting Detection



Motion Detection



Camera Tampering

SmartVid

IR

Smart IR

Keeps objects from being under-rendered when far away or overexposed when close to camera at night.

WDR

Wide Dynamic Range

Adjusts for lighting contrast to minimize shadowing effects and renders images true to life.

3D DNR

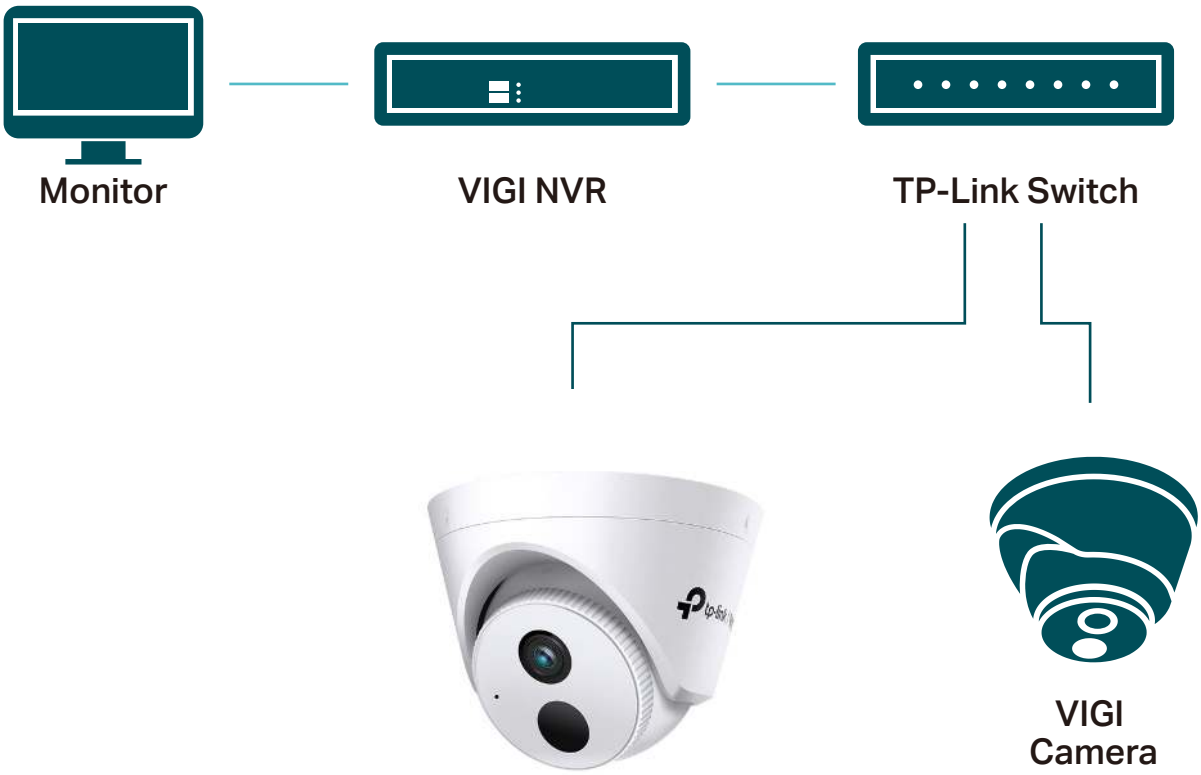
3D DNR

Removes abnormal pixelation to provide clearer video and eliminate distortion.

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.



Specifications

Camera			
Product Model	VIGI C420I	VIGI C430I	VIGI C440I
Image Sensor	1/3" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/3" Progressive Scan CMOS
Shutter Speed	1/3 to 1/10000 s		
Slow Shutter	Yes		
Min. Illumination	Color: 0.01 Lux; 0 Lux with IR Light		
Day & Night	IR Cut Filter		
Digital Noise Reduction	3D DNR		
Day/Night Switch	Unified/ Scheduled/ Auto		
Lens			
Focal length	2.8 mm/4 mm	2.8 mm/4 mm	2.8 mm/4 mm
Aperture	2.8mm: F2. 2 4mm: F2.0	2.8mm: F2. 2 4mm: F2.0	2.8mm: F2. 2 4mm: F2.0
Type	Fixed		
FOV	• 2.8mm: Horizontal FOV: 88.2°, Vertical FOV: 48.7°, Diagonal FOV: 106.5° • 4mm: Horizontal FOV: 75.2°, Vertical FOV: 40.8°, Diagonal FOV: 88.3°	• 2.8mm: Horizontal FOV: 97.8°, Vertical FOV: 52.9°, Diagonal FOV: 117.9° • 4mm: Horizontal FOV: 82.8°, Vertical FOV: 44.5°, Diagonal FOV: 98.1°	• 2.8mm: Horizontal FOV: 88.8°, Vertical FOV: 48.9°, Diagonal FOV: 106.5° • 4mm: Horizontal FOV: 75.2°, Vertical FOV: 40.8°, Diagonal FOV: 88.3°
Lens Mount	M12	M12	M12
DORI Distance	• 2.8 mm Detect: 45 m (149 ft) Observe:19 m (62 ft) Recognize: 9 m (30 ft) Identify: 5 m (15 ft) • 4 mm Detect: 60 m (198 ft) Observe: 25 m (83 ft) Recognize: 12 m (40 ft) Identify: 6 m (20 ft)	• 2.8 mm Detect: 49 m (161 ft) Observe: 20 m (67 ft) Recognize: 10 m (32 ft) Identify: 5 m (16 ft) • 4 mm Detect: 65 m (214 ft) Observe: 27 m (89 ft) Recognize: 13 m (43 ft) Identify: 7 m (21 ft)	• 2.8 mm Detect:60 m (197 ft) Observe: 25 m (82 ft) Recognize: 12 m (39 ft) Identify: 6 m (20 ft) • 4 mm Detect: 80 m (262 ft) Observe:33 m (109 ft) Recognize: 16 m (52 ft) Identify: 8 m (26 ft)
Angle Adjustment (manual)			
Range	• Pan: 0° to 360° • Tilt: 0° to 85° • Rotate: 0° to 360°		

Illuminator			
IR LED	• Quantity: 1 • Range: 30m • Wavelength: 850nm		
White LED	N/A		
Illuminator On/Off Control	Auto/Scheduled/Always on/Always off		
Video			
Max. Resolution	2MP (1920 × 1080)	3MP (2304 × 1296)	4MP (2560 × 1440)
Main Stream	• Frame Rate 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps • Resolution: 1920x1080, 1280x960, 1280x720 Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.	• Frame Rate: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps • Resolution: 2304x1296, 2048x1280, 1920x1080, 1280x720 Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.	• Frame Rate: 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps • Resolution: 2560x1440, 2304x1296, 2048x1280, 1920x1080, 1280x720 Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.
Sub-Stream	• Frame Rate 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps • Resolution: 704x576, 640x480, 352x288, 320x240 Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.	• Frame Rate: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps • Resolution: 704x576, 640x480, 352x288, 320x240 Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps.	• Frame Rate: 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps • Resolution: 640x480, 352x288, 320x240 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 • 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 4 Mbps • Sub-Stream: 64 Kbps to 512 Kbps		

Image	
Image Settings	• Mirror • Brightness • Contrast • Saturation • Sharpness • Exposure • WDR • White Balance • Prevent Overexposure to Infrared Light • HLC Adjustable by Client Software • Rotation(90°/270°)
Image Enhancement	BLC/3D DNR/HLC/SmartIR
Wide Dynamic Range	WDR
SNR	≥ 52 dB
Image Parameters Switch	Yes
Privacy Mask	Up to 4 Masks
ROI	1 Region
OSD Setting	Yes
Audio	
Audio Communication	N/A
Audio Input	Yes
Audio Output	N/A
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 • RTSP • IPv4 • IPv6 (VIGI C420I does not support IPv6) • ARP
ONVIF	Yes
API	Open Network Video Interface (Profile S)
Simultaneous Live View	3 Main Streams & 3 Sub-Streams
Client	VIGI App, VIGI Security Manager, Web UI
Web Browser	• Google Chrome® 57 and above • Firefox® 52 and above • Safari® 11 and above • Microsoft® Edge 91 and above
Cloud	Yes
Security	Password Protection, HTTPS Encryption, IP Address Filter, Digest Authentication
Alarm and Event Management	
Smart Event	• Human & Vehicle Classification • Intrusion Detection • Line-Crossing Detection • Region Entering Detection • Region Exiting Detection • Object Abandoned/Removal Detection • Abnormal Sound Detection • People Detection • Vehicle Detection
Basic Event	• Motion Detection • Video Tampering Detection • Exception (Illegal Login)
Alarm Linkage	Message Push
Linkage Method	N/A

Output Notification	Message Push		
Interface			
Network Interface	1 RJ45 10/100M Self-Adaptive Ethernet Port, PoE		
Alarm	N/A		
Reset Button	N/A		
Power	DC Power Port (VIGI C420I does not have DC power port.)		
On-board Storage	N/A		
Built-in Microphone	Yes; Records Anything Going on within a 15-ft Radius of the Camera		
Built-in Speaker	N/A		
Audio	N/A		
General			
Operating Temperature	-30–60 °C		
Storage Temperature	-40–60 °C		
Operating Humidity	95% or Less (Non-Condensing)		
Storage Humidity	95% or Less (Non-Condensing)		
Package Contents	• VIGI Network Camera • Quick Start Guide • Mounting Accessories		
Power Supply	PoE: 802.3af/at, class 0, Max. 5.5 W	• 12V DC ± 5%, Max. 5 W, 5.5mm Coaxial Power Plug • PoE: 802.3af/at, class 0, Max. 5.5 W	• 12V DC ± 5%, Max. 5 W, 5.5mm Coaxial Power Plug • PoE: 802.3af/at, class 0, Max. 5.5 W
Net Weight	0.19 Kg		
Gross Weight	0.34 Kg		
Material	Plastic		
Protection	N/A		
Product Dimensions	123 × 123 × 83 mm (4.84 × 4.84 × 3.27 in)		

Certification	CE, NTRA, VCCI, BSMI

Build Features



*Calculations based on laboratory testing using a 3MP VIGI camera, and an actual performance may vary according to the amount of activity recorded, resolution and other variables.
Specifications are subject to change without notice and can be found at www.tp-link.com.
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