



TP-Link VIGI C420I

2MP IR Turret Network Camera · Specification summary



Resolution	2MP
Night Vision	IR Night Vision
Human & Vehicle Classification	Yes
Video Compression	H.265+
Smart Video Enhancement	Smart IR, WDR, 3D DNR
Power Supply	12V DC/PoE
Image Sensor	1/3" Progressive Scan CMOS
Shutter Speed	1/3 to 1/10000 s
Slow Shutter	Yes
Minimum Illumination	Color: 0.01 Lux; 0 Lux with IR Light
Day/Night Mechanism	IR Cut Filter
Day/Night Switch	Unified/ Scheduled/ Auto
Lens Type	Fixed Focal Lens
Focal Length	2.8/4 mm
Aperture	2.8 mm: F2.2, 4 mm: F2.0
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°
Lens Mount	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)
Angle Adjustment Range (Manual)	Pan: 0° to 360°, Tilt: 0° to 85°, Rotate: 0° to 360°
IR LED	Quantity: 1, Range: 30m, Wavelength: 850nm
Illuminator On/Off Control	Auto/Scheduled/Always on/Always off
Max. Resolution	1920 × 1080
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.

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.
Bit Rate Control	CBR, VBR
Video Compression (Main / Sub-Stream)	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 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 Input	Yes
Audio Compression	Yes
Audio Sampling Rate	8KHz
Environment Noise Filtering	Yes
Audio Bit Rate	64 Kbps(G.711 alaw)
Protocol	TCP/IP; UDP; ICMP; HTTP; HTTPS; DHCP, DNS, RTSP; NTP; UPnP UDP; SSL/TLS; FTP/SFTP; RTP; RTSP; IPv4; 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

Smart Event	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 (Enhanced with Human & Vehicle Classification for more accurate alerts), Video Tampering Detection, Exception (Illegal Login)
Alarm Linkage	Message Push
Network Interface	1 RJ45 10/100M Self-Adaptive Ethernet Port, PoE
Built-in Microphone	Yes; Records Anything Going on within a 16.4-ft (5 m) Radius of the Camera
Operating Temperature	-30 to 60 °C
Storage Temperature	-40 to 60 °C
Operating Humidity	95% or Less (Non-Condensing)
Storage Humidity	95% or Less (Non-Condensing)
Package Content	VIGI Network Camera, Quick Start Guide, Mounting Accessories
Material	Plastic
Net Weight	0.19 Kg
Gross Weight	0.34 Kg
Product Dimensions (L x W x H)	123 × 123 × 83 mm (4.84 × 4.84 × 3.27 in)
Certifications	CE, NTRA, VCCI, BSMI

Specifications are summarised from the manufacturer's published information (checked 2026-10-27). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

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