

Datasheet Security Never Shuts Down

Full-Color

Turret Network Camera

MODEL: VIGI C450(2.8/4mm)







Analytics*



People & Vehicle Human & Vehicle Classification









True WDR

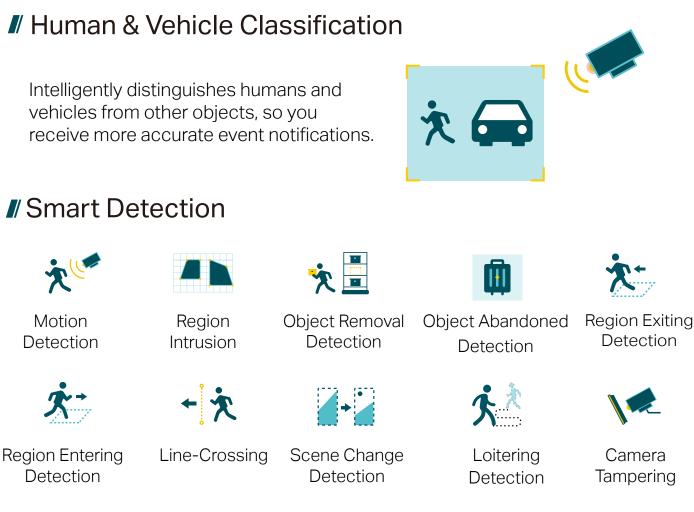
Active Defense

Two-Way Audio

People & Vehicle Analytics

Quickly find people or vehicles of interest using various attributes, greatly improve your search efficiency*.





SmartVid



Smart IR

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



120dB WDR

Enables crystal-clear images in high contrast scenes.



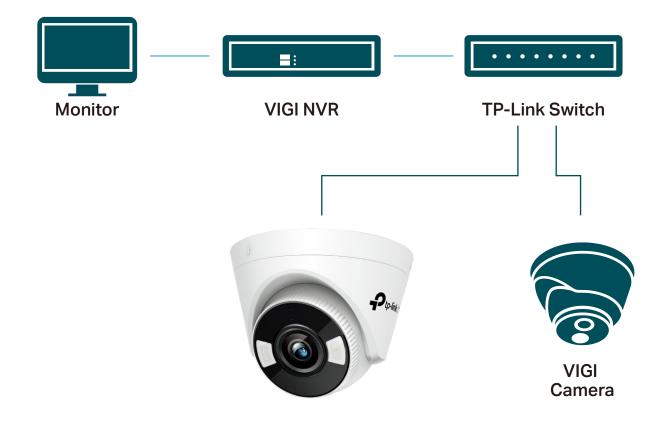
3D DNR

Removes abnormal pixelation to provide clearer video and eliminate distortion.

VIGI Surveillance Solution

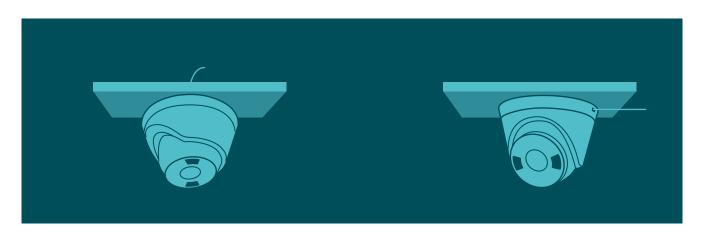
The VIGI professional surveillance system by TP-Link is dedicated to protecting the business that you've worked hard to build—whenever, wherever.

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

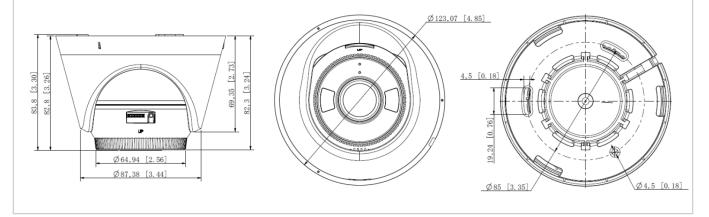
Camera						
Product Model		VIGI C450	VIGI C450			
Image Sensor		1/2.7" Progressive	1/2.7" Progressive Scan CMOS			
Shutter Speed		1/3 to 1/10000 s	1/3 to 1/10000 s			
Slow Shutter		Yes	Yes			
Min. Illumination		0.005 Lux; 0 Lux v	0.005 Lux; 0 Lux with IR/white light			
Day/Night Mechanism		IR Cut Filter	IR Cut Filter			
Day/Night Switch		Unified/ Schedule	Unified/ Scheduled/ Auto			
Lens						
Туре		Fixed Focal Lens	Fixed Focal Lens			
Focal Length		2.8 mm/4 mm	2.8 mm/4 mm			
Aperture		2.8 mm: F1.6 4 mm: F1.6				
FOV		2.8mm: Horizontal FOV: 10	2.8mm: Horizontal FOV: 109°, Vertical FOV: 57°, Diagonal FOV: 128°			
		4mm: Horizontal FOV: 90	4mm: Horizontal FOV: 90°, Vertical FOV: 48°, Diagonal FOV: 107°			
Lens Mount		M12*P 0.5	M12*P 0.5			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	64 m (209 ft)	27 m (87 ft)	13 m (42 ft)	6 m (21 ft)	
	4 mm	80 m (262 ft)	33 m (109 ft)	16 m (52 ft)	8 m (26 ft)	
Angle Adjust	ment (Manual)					
Range		Pan: 0° to 360°, Ti	Pan: 0° to 360°, Tilt: 0° to 85°			
Illuminator						
IR LED		Quantity: 2 Range: 30m Wavelength: 850r				
White LED		Quantity: 2 Range: 30m				
Illuminator On/Off Control		Auto/Scheduled/A	Auto/Scheduled/Always on/Always off			
Video						
Max. Resolution		2880 X 1620	2880 X 1620			

Main Stream	Frame Rate 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps Resolution: 2880x1620,2688x1520, 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. 		
Bit Rate Control	CBR, VBR		
Video Compression	Main Stream: H.265+/H.265/H.264+/H.264 Sub-Stream: H.265/H.264		
Н.264 Туре	High Profile		
H.264+	Main Stream Supported		
Н.265 Туре	Main Profile [△]		
H.265+	Main Stream Supported [▲]		
Video Bit Rate	Main Stream: 256 Kbps to 6 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	120 dB Note: When People & Vehicle Analytics is enabled, only DWDR is supported.		
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		
API	Open Network Video Interface (Profile S)		
Web Browser	Google Chrome [®] 57 and above Firefox [®] 52 and above Safari [®] 11 and above Microsoft [®] Edge 91 and above		
Security	Password Protection, HTTPS Encryption, IP Address Filter, Digest Authentication		
Simultaneous Live View	3 Main Streams & 3 Sub-Streams		
Client	VIGI App, VIGI Security Manager, Web UI		
Cloud	Yes		
ONVIF	Yes		
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 15-ft Radius of the Camera		
Audio	N/A		
Alarm	N/A		
Reset Button	Yes		
Power	DC Power Port		
Alarm and Event Management			
Smart Event	Human & Vehicle Classification, Area Intrusion Detection, Line- Crossing Detection, People Detection, Vehicle Detection, Region Entering Detection, Region Exiting Detection, Object Abandoned Detection, Object Removal Detection, Loitering Detection, Abnormal Sound Detection, Scene Change Detection		
Basic Event	Motion Detection, Video Tampering Detection, Exception (Illegal Login)		
Alarm Linkage	Memory Card Video Recording, Message Push, Audible Warning, White Light Flashing		
Linkage Method	N/A		
Output Notification	Message Push		
Deep Learning Function			
Multi-Target-Type Detection	Search and filter to people or vehicle of interest based on many different attributes, making post-event search faster and easier.		
Face Capture	N/A		

Face Comparison	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)			
Power Supply	12V DC ± 5%, Max. 9 W, 5.5mm Coaxial Power Plug PoE: 802.3af/at, class 0, Max. 10.5 W			
Material	Plastic			
Product Dimensions (L x W x H)	Ф123 x 84 mm			
Package Contents	VIGI Network Camera Quick Start Guide Mounting Accessories			
Net Weight	0.24 Kg			
Gross Weight	0.4 Kg			
Certifications	CE, NTRA, VCCI, KC, BSMI, FCC, IC			

Dimensions



**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.

^aTile encoding is automatically enabled in H.265 mode when the horizontal resolution exceeds 2688. If a third-party NVR doesn't support tile encoding, it cannot enable H.265 mode. For optimal performance, we recommend using VIGI NVR with VIGI cameras.

*SD card is not included in the package.

Specifications are subject to change without notice and can be found at www.tp-link.com. ©2023 TP-Link