180° PANORAMIC AI · 8MP

8MP Dual-Lens Splicing AI Turret Network Camera

180° Panoramic Imaging. AI-Powered Protection.

VTC-PD80

Dual-lens image splicing delivers a seamless 180° horizontal field of view at 8MP. AI-powered human / vehicle analytics and smart event detection help secure the full scene.



VCA

VTC-PD80

Light Explorer Full-Color

180° PANORAMIC VIEW | AI HUMAN / VEHICLE | ALERT BLUE / RED WARNING



AI VIDEO ANALYTICS

INTELLIGENT SCENE ANALYTICS · 6 FEATURES



Human / Vehicle Detection
Human / vehicle classification · smart motion detection



Illegal Parking Detection
Detect illegal parking events in monitored areas



Loitering Detection
Detect loitering events within configured scene regions.



Abandoned / Missing Object
Detects objects left behind or removed



Target Counting & Heat Map
Count targets by line or area



Face Detection & Video Metadata
Face capture · 13 human, 4 motor, 1 non-motor attributes

Clear Imaging. Reliable Protection.

KEY PERFORMANCE

8MP · 4640 × 1760	180° H · 66° V	30 m IR · 20 m white light	1CH built-in speaker	Blue and red light warning
Panoramic resolution	2.8 mm @ F1.6 lens	0.0032 lux @ F1.6	2CH built-in microphones	Flashing alternately

Connected Security Ecosystem

MANAGEMENT · INTEGRATION · ACCESS · STORAGE

Central Management
Web Browser · NVMS / NVR · Mobile App

Open Integration
ONVIF · IPv4 / IPv6 · RTSP · HTTPS

Remote Viewing
iOS / Android · up to 10 users

System Resilience
3 streams · microSD up to 256GB · dual-system backup

Audio: 1CH input / output · 1CH built-in speaker · 2CH built-in microphones | Alarm: 1CH input / output | Blue and red light warning (flashing alternately) · user-defined warning voice | Power: DC12V / IEEE 802.3af PoE | Protection: IP67.

VidoNet

8MP Dual-Lens Splicing AI Turret Network Camera

SPECIFICATIONS

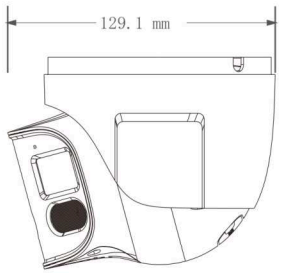
Model / Specifications	VTC-PD80
Camera	
Image Sensor	1 / 2.7 " Progressive Scan CMOS × 2
Max. Resolution	4640×1760
Electronic Shutter	1 / 3 s ~ 1 / 100000 s
Iris Type	Fixed Iris
Min. Illumination	0.0032 lux@F1.6, AGC ON; 0 lux with LED ON
Lens	2.8mm @F1.6
Field of View	Horizontal: 180°; Vertical:66°
Lens Mount	M12
Day & Night	Auto
Wide Dynamic Range	Digital WDR
BLC	Yes
HLC	Yes
Defog	Yes
S/N Ratio	⩾50dB
Digital NR	3D DNR
Angle Adjustment	Pan: 0°~360°; Tilt:0°~75°; Rotation: 0°~360°
Image	
Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264 Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.264 Compression Standard	Baseline Profile/Main Profile/High Profile
Resolution	8MP (4640×1760), 6MP(3632×1632), 4MP(3200×1200), 2MP (2304×864), 2048×768, 1600×608, 1200×448, 960×368, 640×240
Main Stream	8MP/6MP/4MP/2MP(60Hz : 1~30fps; 50Hz : 1~25fps)
Sub Stream	2048×768/1600×608/1200×448(60Hz:1 ~ 30fps; 50Hz: 1 ~ 25fps)
Third Stream	1200×448/960×368/640×240(60Hz:1 ~ 30fps; 50Hz: 1 ~ 25fps)
Bit Rate	64 Kbps ~10Mbps
Bit Rate Type	VBR / CBR
Audio Compression	G711A / U
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, NR, etc. adjustable through client software or web browser
ROI	Each ROI to be configured separately
Interfaces	
Network	RJ 45 10M/100M self-adaptive Ethernet port
Video Output	No
Audio	1CH audio input; 1CH audio output; 1CH built-in speaker; 2CH built-in MICs
Storage	Built-in micro SD card slot; up to 256GB
Reset	Yes
Alarm	1CH alarm input; 1CH alarm output
Intelligent Analytics	
Intelligent Video Detection (IVD)	Line crossing, region intrusion/entrance/exiting (human/vehicle classification), loitering detection, illegal parking detection, abandoned/missing object detection
Statistics	Target counting by line/area, heat map
Exception Detection	Scene change, video blur and abnormal color detection, audio exception
Face Detection	Face detection and face capture
Video Metadata	Simultaneously captures human body, motor vehicle and non-motor vehicle and extracts 13 human features, 4 motor vehicle features and 1 non-motor vehicle feature

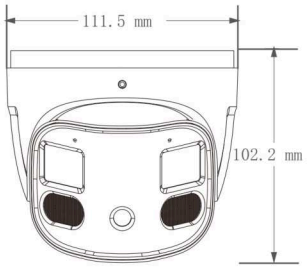
DORI Distance				
Lens	Detect	Observe	Recognize	Identify
2.8mm	54m(178ft)	22m(71ft)	11m(36ft)	5m(18ft)

Functions	
Remote Monitoring	Web Browser/NVMS/NVR/mobile APP
Web Browser	Chrome 105.0+/Edge 105.0+/Firefox 121.0+/Safari 14.0+
Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission

Network Protocol	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST/GET, 802.1x, UPnP, HTTPS, NAT, QoS
Interface Protocol	ONVIF
API&SDK	Yes
Storage	Network remote storage; micro SD card storage
Smart Alarm	Motion detection, SMD, SD card error, SD card full, IP address conflict, Network disconnection, sensor alarm, audio alarm, light alarm
General Function	Watermark, video mask, heartbeat, smart supplement light, ANR, cloud upgrade, disarming
Security	Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and token authentication for HTTP/RTSP/API
PoE	Yes , IEEE802.3af
Supplement Light Range	IR Range: up to 30m; White light range: up to 20m
Ingress Protection	IP67
Others	
Power Supply	DC12V/PoE
Power Consumption	PoE: max. 10.2W; DC12V: max. 9W
Storage Conditions	- 30 °C ~ 65°C (-22°F~149°F), Humidity: less than 95 % (non-condensing)
Operating Conditions	- 30 °C ~ 60 °C (-22°F~140°F), Humidity: less than 95 % (non-condensing)
Dimensions (mm)	Ø 111.5 × 102.2
Weight (net)	Approx.0.719KG
Material	Aluminum alloy body
Installation	Ceiling mounting; Wall mounting
Certificate	CE, FCC
Environmental Protection	Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)

DIMENSIONS





AVAILABLE MODEL

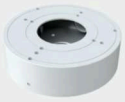
Available Model	VTC-PD80

*All pictures and specifications are for reference only and are subject to change without prior notice.

AVAILABLE ACCESSORIES



VTC-YXH0302



VTC-YXH0106



VTC-YZJ0203



VTC-YZJ0214



VTC-YXH0302 +
VTC-YZJ0811



VTC-YXH0302+
VTC-YZJ0407+VTC-YZJ0501



VTC-YXH0302+
VTC-YZJ0407+VTC-YZJ0601



VTC-YZJ0214+
VTC-YZJ0501



VTC-YZJ0214+
VTC-YZJ0601