TVPA-S02-0601-360-G

TruVision 360° IP camera, 6MP, 15m IR, audio, 360° fisheye lens, PoE-af, IK10, IP67

Product overview

Ideally suited for a variety of applications, the TruVision 360º network cameras provide high-quality image capture that delivers a complete view of indoor or outdoor areas for exceptional security coverage. The 6 and 12 MP indoor and outdoor models are very effective for applications where wide areas need to be covered, such as intersecting corridors, parking garages, counters and warehouses. The cameras can also be used in a wall-mount configuration to capture panoramic scenes. With an IR range of up to 15 m, they can also be used in low-light environments and for 24/7 exterior surveillance. Extra accessories are available for pendant and wall mount installation.

ImmerVision lens

The ImmerVision panomorph lens is superior to traditional panoramic lenses. It beats traditional wide-angle technology in performance and video coverage and allows users to navigate within the panoramic camera image without distortion. Panomorph technology is the most effective way to achieve more coverage, better image quality and compatibility.

Smart retail analytics

Embedded intelligence features like Heat Map, Queue Management , People Counting, and Intersection Analysis help retail owners to better understand the customer journey. It shows how customers move, how much time they spend in different zones and their in-store behaviour. This valuable data, which can also be exported or emailed periodically, gives an overview of the busiest and least busy times of day allowing retailers to optimize and allocate their staff accordingly.



Details

- 6MP 1/8" progressive scan CMOS
- H.265(+) compression
- 360° ImmerVision panomorph lens
- 180° and 360° panoramic views
- Heat map, Queue mangement, People counting, and Intersection analysis
- Multiple fisheye + ePTZ combined viewing modes
- Up to 15 m IR range
- 2-way audio, built-in mic and speaker
- Built-in SD/SDHC card slot
- Ceiling, wall and desk mount options

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Technical specifications

General

Technology	IP
Video standard	NTSC, PAL
OSD	Picture Overlay, Text Overlay
Privacy masking	8 configurable masking zones
Software compatibility	Advisor Advanced Pro mobile app., Advisor Management Software (ATS8600), TruVision Navigator, TVRmobile, Web Browser

Camera

Sensor size	1/1.8"
Max. resolution	6 MP
Sensor scan	Progressive
Sensor type	CMOS
Shutter time	1 to 1/100,000 s

Lighting performance

WDR type	Digital WDR
Digital noise reduction	3D DNR
Day / night	True Day/Night
Motorized IR cut filter	Yes
Color sensitivity	0.01 Lux @ (F2.25, AGC ON)
B/W sensitivity	0.005 Lux @ (F2.25, AGC ON), 0 Lux with IR on
Infrared (IR)	Yes
IR range	Up to 15 m; 3 LEDs
IR wavelength	850 nm

Encoding

Main stream compression	H.264, H.264+, H.265, H.265+
Sub stream compression	H.264, H.265, MJPEG
Video bit rate	32 to 16 Mbps
Max. resolution @ fps	2560 × 2560 @ 25/30 fps
Main stream compression	Fisheye View: 2560 × 2560, 2048 × 2048, 1280 × 1280
	180 Panorama View: 2048 × 1536, 1920 × 1440
	180 Dual Channel Panorama View: 2048 × 768, 1920 × 720
	Panorama View: 2048 × 1536, 1920 × 1440
	4PTZ View: camera 01/camera 02/camera 03/camera 04: 1024 × 768
	Fisheye + 3PTZ View: camera 01: 2048 × 2048, 1024 × 1024, camera 02/camera 03/camera 04: 1024 × 768
	4PTZ Fusion View: 2048 × 1536, 1600 × 1200
Sub stream compression	Fisheye View: 720 × 720, 480 × 480
	180 Panorama View: 640 × 480, 320 × 240
	180 Dual Channel Panorama View: 640 × 480, 320 × 240
	Panorama View: 640 × 360, 320 × 240
	4PTZ View: camera 01/camera 02/camera 03/camera 04: 640 × 480, 320 × 240
	Fisheye + 3PTZ View: camera 01: 720 × 720 camera 02/camera 03/camera 04: 640 × 480, 320 × 240

Lens

Lens type	ImmerVision panomorph lens
Focal length	1.16 mm, horizontal FoV 180°, vertical FoV 180°
f-stop	2.25

DORI

Detection	23.2 m
Observation	9.2 m
Recognition	4.6 m
Identification	2.3 m

Network

Network interface	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Integration	CGI, ISAPI, ONVIF Profile G, ONVIF Profile S, ONVIF Profile T
Supported network protocols	802.1x, Bonjour, DDNS, DHCP, DNS, DynDNS, ezDDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, SSL/TLS, TCP/IP, UDP, UPnP
Simultaneous live view	Up to 20 channels

Audio

Audio compression	AAC, G.711, G.711alaw, G.722.1, G.726, MP2L2, MP3, PCM
Audio in	4 built-in microphones and 1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium
Audio out	Built-in speaker and 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Audio bit rate	64 Kbps (G.711ulaw/G.711alaw), 16 Kbps (G.722.1), 16 Kbps (G.726), 32 to 192 Kbps (MP2L2), 8 to 320 Kbps (MP3), 16 to 64 Kbps (AAC-LC)

Alarm I/O

Alarm inputs	2
Alarm outputs	2 (max. 24 VDC, 1A)

Storage

Local storage type	Built-in micro SD/SDHC/SDXC slot
Max. SD card capacity	Built-in memory card slot, supporting microSD/microSDHC/microSDXC card up to 256 GB

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Video intelligence

ROI	4 regions for each stream
Smart event	Audio exception detection, Heat map, Intersection analysis, Intrusion detection, Line crossing detection, Motion detection, Object removal detection, People counting, Region entrance detection, Region exiting detection, Scene change detection, Unattended baggage detection
Intersection analysis	Detect and analyze flow in an intersection-like scene, and generate reports. Support one intersection with max. 10 ways.
Heat map	A graphical representation of visits (by calculating amount of people or amount of dwell time) in a configured area. Two report types, space heat map and time heat map line chart are supported.
Queue management	Supports up to 8 detection regions, and independent arming schedule and linkage method. Supports 2 detection modes: regional people queuing-up, waiting time detection. Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue. Supports real-time data uploading and scheduled data uploading. Regional people queuing-up: 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold. Waiting time detection: 1 alarm trigger condition, including greater than threshold.

Electrical

Operating voltage	12 VDC ±20% PoE IEEE 802.3af, Class 3
Power consumption	12 VDC: 1 A, max. 11.5 W PoE: max. 12.5 W

Physical

Physical dimensions	Ø 140.3 × 59.4 mm Ø 5.5 × 2.3 in.
Net weight	Approx. 715 g Approx. 1.58 lbs
Shipping weight	Approx. 1206 g Approx. 2.66 lb.
Colour	Grey (Pantone 428c)
Form Factor	360 Degrees

Environmental

Impact rating	IK10
Environment	Outdoor
Operating temperature	-40 to +60°C 40 to +140°F
Internal heater	Yes
Relative humidity	≤95% noncondensing
IP rating	IP67

Regulatory

Compliancy	C-tick, CE, REACH, RoHS, WEEE

Viewing modes

Nbr. of display modes	20
Software decoding	Fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder.
Hardware decoding	Fisheye view, 180 panorama view, 180 dual channel panorama, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion

Compatible products

Category	Reference	Description
Brackets & Mounts	TVPA-BB-01	
Brackets & Mounts	TVPA-CB-01	

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