



TVPA-S02- 1201-360-G

TruVision 360° IP camera, 12MP, 1
5m IR, audio, 360° fisheye lens,
PoE-af, IK10, IP67



OVERVIEW

Ideally suited for a variety of applications, the TruVision 360° 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 optimise and allocate their staff accordingly.

STANDARD FEATURES

- 12MP 1/8" progressive scan CMOS
- H.265(+) compression
- 360° ImmerVision panomorph lens
- 180° and 360° panoramic views
- Heat map, Queue management, 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

Technical Specifications

TVPA-S02-1201-360-G

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	12MP
	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
	Motorised IR Cut filter	Yes
	Colour sensitivity	0.03 Lux @ (F2.2, AGC ON)
	B/W sensitivity	0.006 Lux @ (F2.2, AGC ON), 0 Lux with IR on
	Infrared (IR)	Yes
	IR range	Up to 15 m; 3 LEDs
Encoding	IR wavelength	850 nm
	Mainstream 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	3504 × 3504 @ 25/30 fps
	Main stream compression	Fisheye View: 3504 × 3504, 3024 × 3024, 2560 × 2560, 2048 × 2048
		180 Panorama View: 3072 × 2304, 2048 × 1536
		180 Dual Channel Panorama View: 3072 × 1152
		Panorama View: 3072 × 2304, 2048 × 1536
		4PTZ View: camera 01/camera 02/camera 03/camera 04: 1600 × 1200
		Fisheye + 3PTZ View: camera 01: 2560 × 2560, 2048 × 2048, 1280 × 1280 camera 02/camera 03/camera 04: 1600 × 1200
		4PTZ Fusion View: 3200 × 2400, 2048 × 1536
	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	1.29 mm, horizontal FoV 180°, vertical FoV 180°
	f-stop	2.2
DORI	Detection	27.9 m
	Observation	11.1 m
	Recognition	5.6 m
	Identification	2.8 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, 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	Storage options	NAS (NFS, SMB/CIFS), SD card (encrypted/nonencrypted)
	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 analyse 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 $\pm 20\%$ PoE IEEE 802.3af, Class 3
	Power consumption	12 VDC: 1 A, max. 11.5 W PoE: max. 12.5 W
Physical	Physical dimensions	$\varnothing 140.3 \times 59.4$ mm
	Net weight	Approx. 715
	Shipping weight	Approx. 1206 g
	Colour	Grey (Pantone 428C)
	Form Factor	360 Degrees
Environmental	Impact rating	IK10
	Environment	Outdoor
	Operating temperature	-40 to +60°C
	Internal heater	Yes
	Relative humidity	$\leq 95\%$ noncondensing
	IP rating	IP67
Regulatory	Compliance	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	TruVision 360° Camera Round Back Box, Conduit Ports, Gang Box Compatible, Metal, Indoor & Outdoor, grey
	Brackets & Mounts	TVPA-CB-01	TruVision 360° Camera Cup Base (use with TVD-PPB for pendant mount or TVDSNB for wall mount), grey