**truVision**

# TVPA-S02-0601-360-G

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

## 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 optimise and allocate their staff accordingly.

## STANDARD FEATURES

- 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

# Technical Specifications
## TVPA-S02-0601-360-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 | 6MP |
| | 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 | 0.01 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 | | |
|---|---|---|
| | 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: 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 |

# Technical Specifications
## TVPA-S02-1201-360-G

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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.<br>Supports 2 detection modes: regional people queuing-up, waiting time detection.<br>Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue.<br>Supports real-time data uploading and scheduled data uploading.<br>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%<br>PoE IEEE 802.3af, Class 3 | |
| Power consumption | 12 VDC: 1 A, max. 11.5 W<br>PoE: max. 12.5 W | |

| Physical | | |
|---|---|---|
| Physical dimensions | Ø 140.3 × 59.4 mm | |
| Net weight | Approx. 715 g | |
| 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 | ≤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 | 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 |

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