

## TVF-5204 TruVision 360° IP camera, 12 MPx, outdoor, 15m IR, 360° fisheye lens

#### **Overview**

Ideally suited for a variety of applications, the TruVision 360° network dome cameras provide high-quality image capture that delivers a complete view of indoor or outdoor areas for exceptional security coverage. The 6 and 12MPx 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: Heat map and Intersection analysis

The embedded Heat Map 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 staff accordingly.



#### **Details**

- 12 MPx 1/8" progressive scan CMOS
- H.265 compression
- 360-degree ImmerVision panomorph lens
- 180 and 360° panoramic views
- Heat map 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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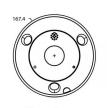
#### **Technical specifications**

Technology	IP
Video standard	NTSC, PAL
OSD	Picture Overlay
Camera	
Sensor size	1/1.8"
Max. resolution	12 MPX
Sensor scan	Progressive
Sensor type	CMOS
Shutter time	1 to 1/100,000 s
Lighting performan	Ce Digital WDR
WDR type	120 dB
Digital noise reduction	3D DNR
Day/night	True Day/Night
Motorized IR cut filter	Yes
Color sensitivity	0.01 Lux @ (F1.2, AGC ON),
B/W sensitivity	0.001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Infrared (IR)	Yes
IR range	15 m - 3 LEDs, each individually controllable
IR wavelength	850 nm
Encoding	
Main stream	H.264, H.265
compression	
Sub stream compression	
Video bit rate	32 to 16 Mbps
	2560 x 2560, 3000 x 3000, 4000 x 3000
Sub stream resolutions	720 x 720
Max. resolution @ fps	4000 x 3000 @ 20 fps
Lens	
Lens type	1.29 mm ImmerVision panomorph lens
f-stop	2.2
FoV	Horizontal FoV 180° (wall mount) / 360° (ceiling/table mount)
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, PSIA
Supported network protocols	802.1x, Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
Simultaneous live view	Up to 20 channels

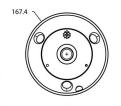
Audio	
Audio compression	G.711, G.722.1, G.726, MP2L2, PCM
Audio in	Built-in microphone + 1 line in 3.5 mm
Audio out	Built-in speaker + 1 line out 3.5 mm
Audio bit rate	16 to 160 Kbps depending on audio compression type
Alarm I/O	
Alarm inputs	1
Alarm outputs	1 (max. 24 VDC, 1A)
Storage	
Local storage type	Built-in micro SD/SDHC/SDXC slot
Max. storage capacity	256 GB
Video intelligence	
Alarm trigger	Motion detection, Video tampering
ROI	4 fixed regions for main stream
Video analytics	Audio exception detection, Heat map, Intersection analysis, Intrusion detection, Line crossing detection, Object removal detection, People counting, Region entrance detection, Region exiting 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 graphic description of visits (calculated by number of people or dwell time) in a configured area. Space heat map and time heat map line chart can be generated.
Electrical	
Operating voltage	12 VDC ±20% PoE+ (802.3 at, class 4)
Power consumption	12 VDC, 1 A, max. 15 W PoE + (802.3at, 42.5 to 57 V), 0.3 A to 0.4 A
Physical	
Physical dimensions	164 x 152.8 x 43.8 mm 6.46 x 6.02 x 1.72 in.
Net weight	1400 g 3.09 lbs
Colour	Grey (Pantone 428c)
Form Factor	360 Degrees
Environmental	
Impact rating	IK10
Environment	Outdoor
Operating temperature	-40 to +60°C 40 to +140°F
Relative humidity	≤95% noncondensing
IP rating	IP67
Regulatory	

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Nbr. of display modes	16
Software decoding	Ceiling mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3 PTZ, 360 panorama + 6 PTZ, 360 panorama + 8 PTZ, 2 PTZ, 4 PTZ, fisheye + 3 PTZ, fisheye + 8 PTZ, half sphere
	Wall mount: fisheye view, panorama view, panorama + 3PTZ, panorama + 8 PTZ, 4 PTZ, fisheye + 3 PTZ, fisheye + 8 PTZ
	Table mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3 PTZ, 360 panorama + 6 PTZ, 360 panorama + 8 PTZ, 4 PTZ, fisheye + 3 PTZ, fisheye + 8 PTZ
Hardware decoding	Ceiling mount: fisheye view, 180 panorama view, panorama view, 4 PTZ, fisheye + 3 PTZ
	Wall mount: fisheye view, 180 panorama view, panorama view, 4 PTZ, fisheye + 3 PTZ
	Table mount: fisheye view, 180 panorama view, panorama view, 4 PTZ, fisheye + 3 PTZ
Supported mounti	ng accessories
TVF-BBM	TruVision 360 degree camera round back box, conduit ports, gang box compatible, metal, indoor & outdoor
TVF-CBM	TruVision 360 degree camera cup base (use with TVD-PPB for pendant mount or TVD-SNB for wall mount)
TVF-WBM	TruVision 360 degree Camera round angled back box, conduit ports, gang box compatible, metal, indoor & outdoor



Outdoor





Indoor



As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your sales representative.