

SMART Series 12MP Fisheye Camera

TP-MFECM18



The Turing Smart Series fisheye camera TP-MFECM18 is a 12 megapixel high resolution sensor and an ultra-wide angle fisheye lens. It supports a variety of modes that digitally dewarp the fisheye image into a view suitable for the application.

KEY FEATURES

- 12MP image sensor with 360-degree fisheye lens
- Fisheye, panoramic, and ePTZ modes available in wall, desk, and ceiling orientations.
- Built-in surround IR LED for improved low light
- Built-in mic & speaker
- IP67 water resistance, IK10 vandal resistance
- Connects to TURING VISION® cloud VMS via Turing Smart Series NVR



SPECIFICATIONS

MODEL NUMBER		TP-MFECM18
TURING VISION® SUPPORT		
TURING VISION® Cloud VMS	Included	
Prerequisites	Turing SMART Series NVR & bridge TR-MR32R-B & TR-MR64R-B only; other NVR unsupported	
CORE AI License	Not supported (to be supported at a later date)	
VIDEO & AUDIO		
Image sensor	1/1.7", 12.0 megapixel, progressive scan CMOS	
Lens	Focal Length: 1.8mm @ F2.0; Angle of view 360°	
Minimum Illumination	Color: 0.03Lux (F2.0, AGC ON); 0 Lux with IR in B&W night mode	
IR LED	Smart IR Range: Up to 15m (49 ft); Wave Length: 850nm	
Shutter	Auto/Manual, shutter time: 1~1/100000 s	
Image Processing	WDR: 120 dB; S/N: >52dB; Noise reduction: 2D/3D; Defog: Supported	
Video Encoding	Ultra 265, H.265, H.264 (Baseline profile, Main Profile, High Profile), MJPEG; ROI: Up to 8 areas	
Available Modes and Resolution	Fisheye Mode	
	Main Stream: 12MP(4000*3000)@20fps; 3000*3000@20fps; 2560*2560@25fps	
	Sub Stream: 2000*1500@20fps; 2000*2000@25fps	
	Third Stream: D1(720*576)@20/25fps; CIF352*288)@20/25fps	
	Panoramic Mode	
	Main Stream (Only): 12MP(4000*3000)@20fps; 3000*2000@20/25fps; 3000*1500@20/25fp	
	4PTZ Mode	
	Main Stream (Only) PTZ View: 1920*1080@20/25fps	
On-screen Overlay	OSD: Up to 8 OSD; Privacy Mask: Up to 4 areas	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2	
Image Rotation	Normal/Flip Vertical/ Flip Horizontal/180°	
Audio I/O	Built-in Mic; Audio In: 1; Built-in Speaker; Audio Out: 1	
Audio Compression	G.711, 64 Kbps, 8KHz, audio suppression	
Alarm I/O	Alarm In: 1; Alarm Out: 1	
Onboard Storage	microSD slot (SD card not included); up to 256GB	

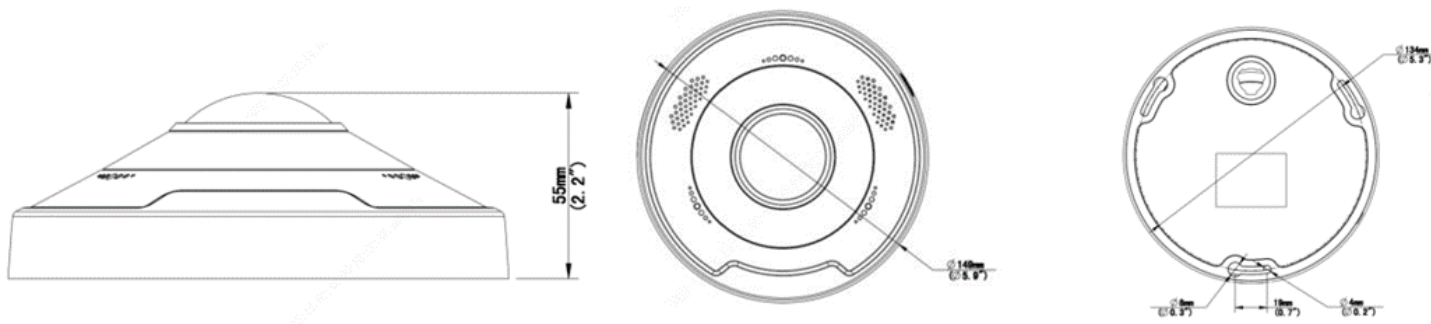
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FISHEYE DEWARP	
Mount Types	Supports table, wall, and ceiling modes
Hardware Dewarp	Ceiling mount fisheye view, fisheye + 4PTZ, horizontal panorama view, vertical panorama view Table mount fisheye view, fisheye + 4PTZ, , horizontal panorama view, vertical panorama view Wall mount fisheye view, fisheye + 4PTZ, panorama view
	Ceiling mount fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ Table mount fisheye view, 360°panorama + 1PTZ, 180°panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ Wall mount fisheye view, 180°panorama view, 180°panorama view+3PTZ, 180°panorama view+4PTZ, 180°panorama view+8PTZ
Software Dewarp	Ceiling mount fisheye view, 360° panorama + 1PTZ, 180° panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ Table mount fisheye view, 360°panorama + 1PTZ, 180°panorama view, fisheye+ 3PTZ, fisheye+4PTZ, fisheye+8PTZ,360° panorama + 6PTZ Wall mount fisheye view, 180°panorama view, 180°panorama view+3PTZ, 180°panorama view+4PTZ, 180°panorama view+8PTZ
Software Dewarp Clients	NVR (TR-MR32R, TR-MR64R only) HDMI output: Supported Web Browser (with IE or Chrome plug-in): Supported Smart Viewer: Supported Smart Station: Supported Turing Vision Desktop and mobile apps: Not Supported
NETWORK ACCESSIBILITY & SECURITY	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSH
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API,SDK
User/Host	Up to 32 users. 2 user levels: administrator and common user
Security	Password protection, Strong password, HTTPS encryption, Export operation logs, Basic and digest authentication for RTSP, Digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Network	1 RJ45 10M/100M Base-TX Auto-adaptive Ethernet
GENERAL	
EMC	FCC CFR 47 Part 15, EN 55032:2015, EN 55024:2010 EN 61000-3-2:2014, EN 61000-3-3-2013
Safety Certification	IEC 62368-1, EN 62368-1, UL 62368-1
Power	DC12V±25%,PoE (IEEE 802.3af); Max. 12W; Surge Protection: 4KV
Dimensions & Weight	Φ149 x 55mm (Φ5.9" x 2.2"); 0.52kg (1.15lb)
Working Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
Reset Button	Reset
Environmental Protection	Ingression protection: IP67; Vandal resistance: IK10

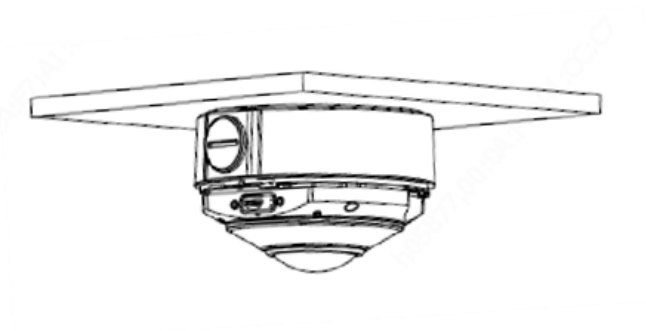
DIMENSIONS





MOUNTING ACCESSORIES

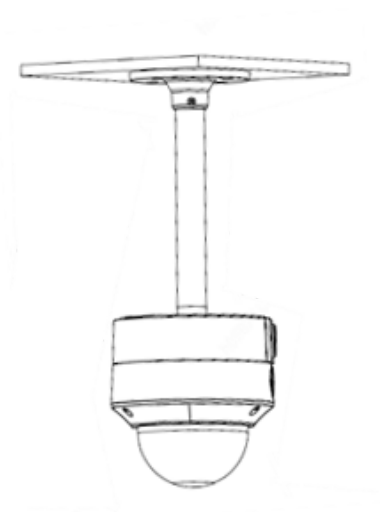
MODEL NUMBER	DESCRIPTION / APPLICATION	COMPATIBLE ACCESSORIES
TP-FEJB	Junction Box	TP-AIPMB - 200mm indoor pendant base TP-IPME2 - 200mm indoor pendant extension (requires base) TP-IPME5 - 500mm indoor pendant extension (requires base) TP-UWPJ - cable gland
TP-FEPC	Pendant Cap (1.5" threads)	TP-PCWM - wall mount arm TP-PCPDMB - 200mm pendant base TP-PCPDM2 - 200mm pendant extension (requires base) TP-PCPDM2 - 500mm indoor pendant extension (requires base)



Junction Box: TP-FEJB



Optional Cable Gland for Junc.
Box: TP-UWPJ



Junction Box: TP-FEJB
 Pendant Base: TP-AIPMB
 Extension 200mm: TP-IPME2
 Extension 500mm: TP-IPME5