TURING

TP-MMB4AV2

4MP HD TwilightVision ™ IR VF Bullet Network Camera

KEY FEATURES

✓ To be used with SMART Series NVR with Turing Vision Cloud

✓ 2.7~13.5mm Motorized Lens

✓ 4MP (2688*1520)@ 30/25fps

✓ **TwilightVision™** technology superior low-light performance

✓ Smart IR, up to 50m (164 ft)

✓ Supports 256 G Micro SD card

✓ PoE, IP67, IK10

SPECIFICATIONS

CAMERA	
Sensor	1/3", 4.0megapixel, progressive scan, CMOS
Lens	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens
Angle of view (H)	98.26° ~ 31.35º
Angle of View (V)	54.76° ~ 18.55º
Angle of View (O)	127.74° ~36.99º
Adjustment angle	Pan: 0º ~ 360º Tilt: 0º ~ 90º Rotate: 0º ~ 360º
Shutter	Auto/Manual, 1 ~ 1/100000s
Minimum Illumination	Cooler: 0.003Lux (F1.6, AGC ON) 0Lux with IR on
Day/Night	IR-cut filter with auto switch (ICR)
Digital Noise Reduction	2D/3D DNR
S/N	>56 dB
IR Range	Up to 50m (164ft) IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
Defog	Digital Defog
WDR	120dB

VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 code profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 4MP (2688*1520), Max 30fps;4MP (2560*1440), Max 30fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps;
	Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps;
	Third Stream: D1 (720*576), Max 30fps; 640*360,Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps;
Video Bit Rate	128 Kbps~16 Mbps
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas

IMAGE	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180º/90ºClockwise/90ºAnti-clockwise
De-warping	Supported
HLC	Supported
BLC	Supported

AUDIO	
Audio Compression	G.711
Two-way audio	Supported
Suppression	Supported
Sampling Rate	8KHZ

STORAGE	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR

INTELLIGENCE	
Smart intrusion Prevention	Cross line, intrusion, enter area detection
Supported NVR	Turing SMART NVR: TR-MR(P) models

EVENTS	
Basic Detection	Motion detection, tampering alarm, audio detection
General Function	Watermark, IP address filtering, tampering alarm, alarm input, alarm output, access policy, ARP protection, RTSP authentication, user authentication

NETWORK	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
	Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+

INTERFACES	
Audio I/O	Input: impedance 35kΩ; amplitude 2V [p-p]
	Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
Network	1 RJ45 10M/100M Base-TX Ethernet

CERTIFICATIONS	
Certifications	CE: EN 60950-1
	UL: UL60950-1
	FCC: FCC Part 15

GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
	245.4 × 85.4 × 86.4mm (9.7" × 3.4" × 3.4")
Dimensions (L × W × H)	245.4 × 85.4 × 86.4mm (9.7" × 3.4" × 3.4")
Net Weight	0.92kg (2.03lb)
Material	Metal
Working Environment	-30ºC ~ 60ºC (-22ºF ~ 140ºF), Humidity: ≤95% RH (non-condensing)
Storage Environment	-30ºC ~ 60ºC (-22ºF ~ 140ºF), Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Ingress Protection	IP67
Vandal Resistant	IK10
Reset Button	N/A

DIMENSIONS
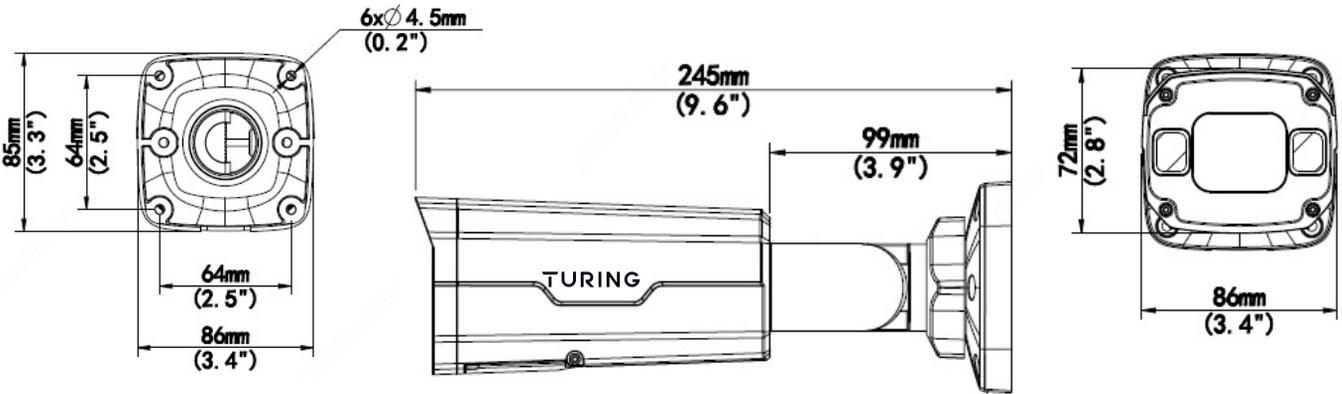
MOUNTING
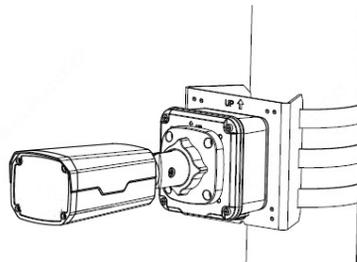
Pole Mount: TP-FCBPM

Junction Box: TP-MBJB

Optional Cable Gland: TP-UWPJ