

MACTRATM

MPW5F0F / 1F / 2F

5MP Network Mini Bullet Camera | Fixed Focus



Core



5MP
Camera



Hybrid
Light



60m
Night Vision



PoE
Powered



IP67 | IK10
RATED



Secure
Boot



Technical Specifications

The **MACTRA 5MP Network Mini Bullet Camera** delivers sharp 5MP video, robust durability, and seamless integration for reliable 24/7 surveillance in any environment

CAMERA

Sensor Resolution	5MP
Sensor Type	CMOS
Sensor Size	1/2.78"
Minimum Illumination	Color = 0.01 lux, Monochrome = 0 lux
Day/Night	Auto, Manual Day Mode / Night Mode
Camera Adjustable Angle	Pan 0° to 360° Tilt 0° to 90° Rotate 0° to 360°

LENS

	MPW5F0F	MPW5F1F	MPW5F2F
Focal Length	2.8 mm	3.6 mm	6.0 mm
Field of View	HFOV : 104.3° VFOV : 57.9° DFOV : 121.8°	HFOV : 86.6° VFOV : 46.2° DFOV : 103.4°	HFOV : 54.2° VFOV : 29.7° DFOV : 62.9°
Lens Mount	M12x0.5		
Focus	Fixed		
Aperture	F1.6		
Iris Type	Fixed		

ILLUMINATOR

LED Type*	IR LED + Hybrid (IR + White LED)
No. of LEDs	4 IR + 2 Hybrid LED
IR Distance	Up to 60 meter
IR Wavelength	~850 nm
IR & White Light Control	Auto, Manual (ON/OFF/Adjustable)

VIDEO & AUDIO

Stream Capability	Triple Stream
Stream Profiles	
Main Stream	5MP (2592 × 1944)@1-25/30fps, 4MP/2K (2560 × 1440)@1-25/30fps, 2MP/FHD (1920 × 1080)@1-25/30fps, 1MP/HD (1280 × 720)@1-25/30fps
Sub Stream	1MP/HD (1280 × 720)@1-25/30fps, D1/480P (720 × 480)@1-25/30fps, VGA/360P (640 × 360)@1-25/30fps
Preview Stream	1MP/HD (1280 × 720)@1-25/30fps, D1/480P (720 × 480)@1-25/30fps, VGA/360P (640 × 360)@1-25/30fps
Video Standards	PAL/NTSC
Video Compression	H.265, H.264, MJPEG
Video Bitrate Type	128 kbps-16Mbps
Video Bitrate	CBR
Region of Interest (ROI)	Supported
Audio Bit Rate	64 Kbps
Audio Codec	G.711/PCM
OSD	Supported

IMAGE

Image Settings	Brightness, Contrast, Saturation, Hue, Sharpness, Lens Distortion Correction
Wide Dynamic Range	~120 dB
S/N Ratio	50 dB
Noise Reduction	2D/3D NR
Image Rotation	Mirror, Flip, Rotation (0°, 90°, 180°, 270°)

INTERFACE

Ethernet Interface	1 X RJ45 10 M/100 M Self-Adaptive Ethernet Port
Power Reset Key	Available
Built in Microphone*	Available
Relay	2 x Channel
RS485	1 x Channel
GPIO	4 x GPIO On Pigtail
SD Card*	Upto 512GB

EVENT

Alarm Event	SD Card Connect/Disconnect, SD Card Full, Wrong Login, Box Tamper Detection
Recording Type	General, Event, Alarm, Configurable Recording Streams
Recording Storage	SD Card, FTP/FTPS

AI ANALYTICS

AI Enabled	Motion Detection Visual Tamper Detection Line Crossing Detection People Counting
Edge AI*	

SECURITY

Secure Boot	Supported
Security	User account and password protection, HTTPS, TLS 1.3/1.2, , SSH/Telnet Disabled
HTTPS Streaming	Using TLS 1.3/1.2
Network Authentication	Yes, 802.1x Network authentication
Firmware Upgrade	Supported
Antirollback Firmware	Supported
Web Login Protection	Supported
SD Card Encryption	Supported
Reader Interface	Secure Channel Supported

NETWORKS

Supported Protocols	TCP/IP, HTTP, HTTPS, DHCP, SRTP/RTSPS, RTP/RTSP, SMTP, NTP, TLS/SSL, FTP/FTPS, ICMP, IGMP, ARP, UDP, 802.1x, SNMP
Interoperability	ONVIF Profile S/G/T
Max. Users Access	10 Users
Web Support	Edge, Chrome, Mozilla

Note: * For Selected Variants



Technical Specifications

ELECTRICAL

Power Supply	12V(DC); 802.3af (PoE)
Power Consumption	~ 13.5W

MECHANICAL

Body Material	Metal Casting (Die Casting Aluminum with Powder Coating), PC
Product Dimension	185 × 75 × 75 mm (L × W × H)
Product Weight	~400gms
Body Color	Infinity White

ENVIRONMENT

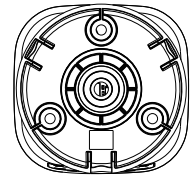
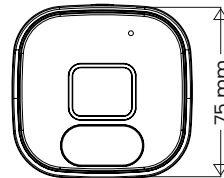
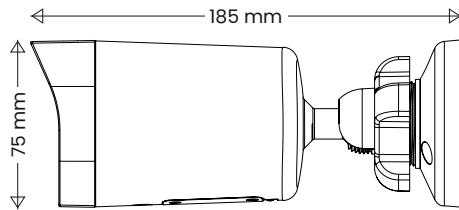
Humidity	Less than 95% RH (Non-Condensing)
Operating Temperature	-20°C to 70°C
Storage Temperature	-30°C to 60°C
Ingress Protection	IP66, IP67, NEMA 4X
Impact Resistance	IK10

REGULATORY

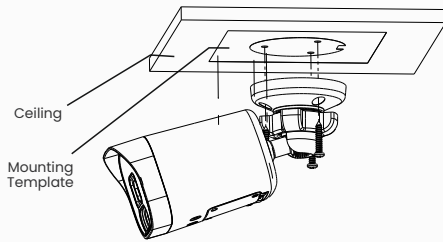
Emissions	FCC PART 15
Certificates	STQC, BIS, CE
RoHS	Yes
REACH	Yes
Country of Origin	India
NDAA*	Compliant
Safety	UL 62368-1, EN 62368-1, IEC 62368-1

Note: * For Selected Variants

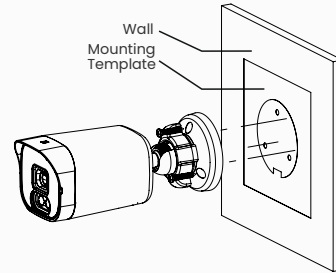
DIMENSIONS (MM)



Ceiling Mount

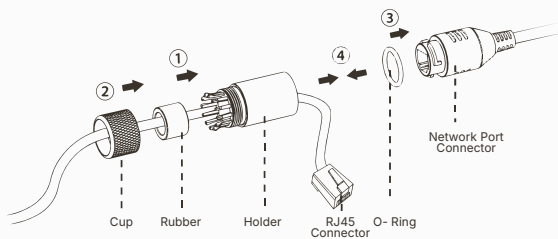


Wall Mount

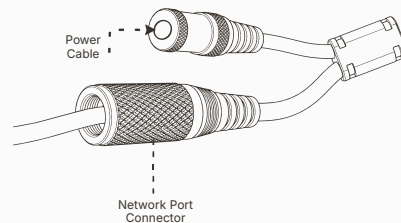


ACCESSORY

Connector Kit



Power Cable



Certifications & Environmental Standards & Compliance



Ordering Details

5MP Network Mini Bullet Camera Core Series

Key Features


SD Card


Hybrid/IR


Mic

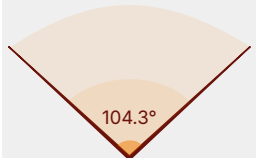

Edge AI


NDAA


NEMA 4X

2.8 mm Fixed Lens

Wide Area Coverage



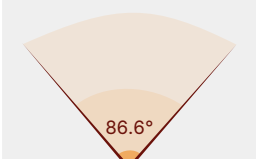
104.3°

Field of View

Description	Model-Part Code							Key Features
5MP NETWORK MINI BULLET CAMERA • Image Sensor: 1/2.78" CMOS • Lens: 2.8 mm Fixed Lens • Reader Interface: Secure Channel Supported • Finish: Infinity White	MPW5F0F-F02IU2RD	-	-	-	-	-	-	IR LEDs, On-device AI Enabled, Secure Channel
	MPW5F0F-F01IU1RA	●	-	●	●	-	-	IR LEDs, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic
	MPW5F0F-F02HU2PD	-	●	-	-	-	-	IR LEDs + Hybrid LED, On-device AI Enabled, Secure Channel
	MPW5F0F-F01HU1PA	●	●	●	●	●	●	IR LEDs + Hybrid LED, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic, NDAA & NEMA 4X

3.6 mm Fixed Lens

Balanced Surveillance



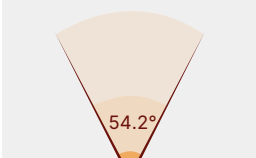
86.6°

Field of View

Description	Model-Part Code							Key Features
5MP NETWORK MINI BULLET CAMERA • Image Sensor: 1/2.78" CMOS • Lens: 3.6 mm Fixed Lens • Reader Interface: Secure Channel Supported • Finish: Infinity White	MPW5F1F-F12IU2RD	-	-	-	-	-	-	IR LEDs, On-device AI Enabled, Secure Channel
	MPW5F1F-F11IU1RA	●	-	●	●	-	-	IR LEDs, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic
	MPW5F1F-F12HU2PD	-	●	-	-	-	-	IR LEDs + Hybrid LED, On-device AI Enabled, Secure Channel
	MPW5F1F-F11HU1PA	●	●	●	●	●	●	IR LEDs + Hybrid LED, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic, NDAA & NEMA 4X

6.0 mm Fixed Lens

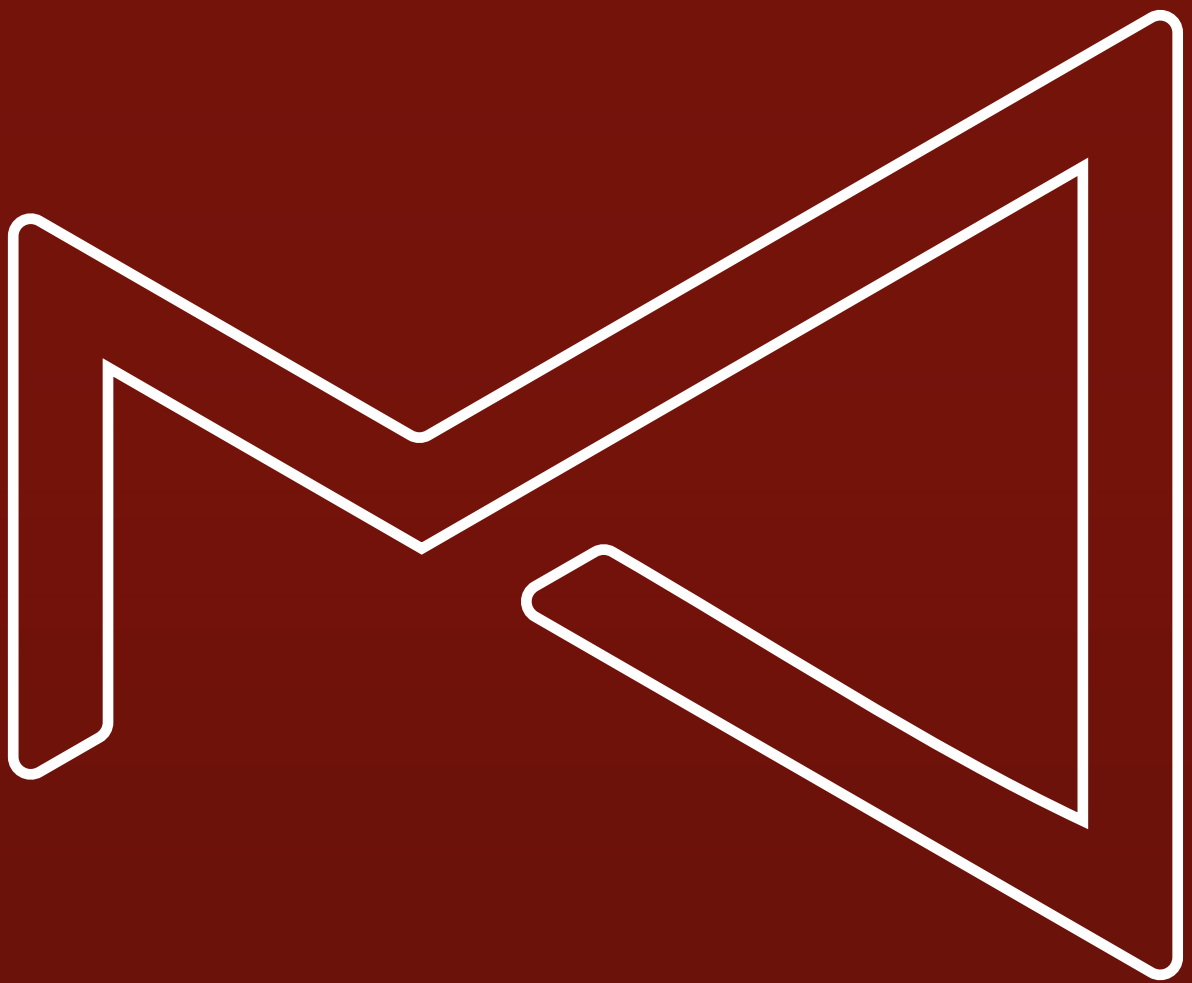
Long-Distance Viewing



54.2°

Field of View

Description	Model-Part Code							Key Features
5MP NETWORK MINI BULLET CAMERA • Image Sensor: 1/2.78" CMOS • Lens: 6.0 mm Fixed Lens • Reader Interface: Secure Channel Supported • Finish: Infinity White	MPW5F2F-F22IU2RD	-	-	-	-	-	-	IR LEDs, On-device AI Enabled, Secure Channel
	MPW5F2F-F21IU1RA	●	-	●	●	-	-	IR LEDs, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic
	MPW5F2F-F22HU2PD	-	●	-	-	-	-	IR LEDs + Hybrid LED, On-device AI Enabled, Secure Channel
	MPW5F2F-F21HU1PA	●	●	●	●	●	●	IR LEDs + Hybrid LED, On-device Edge AI Supports, Secure Channel, SD Card Supported, Built-In-Mic, NDAA & NEMA 4X



MACTRA™

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