



Note: This image is for marketing purposes ONLY. It does not indicate the position of the cameras and is not to scale.



Fixed Bullet Camera



4G Router



1 Month Backup



3 Day Battery Backup

Solutions



Features

4MP Mini Fixed Bullet Network Camera: 2MBIP-4MIR30-E

- Day/night functionality
- Smart IR, up to 30 m (98 ft) IR distance
- Optical glass window with higher light transmittance
- IR anti-reflection window to increase the infrared transmittance
- 2D/3D DNR (Digital Noise Reduction)

Solar Power System

- Mono-crystalline silicon solar cell module with a 25 year service life
- Durable Lithium iron phosphate battery with an 8 year service life
- Standby time: 24 hours for 3 days
- Easy to manage controller
- Integrated power cabinet

Note: More cameras can be added. Further customization is available. Price will change accordingly.

4MP Mini Fixed Bullet Network Camera



Specifications

CAMERA: 2MBIP-4MIR30-E					
Sensor		1/2.7", 5.0 megapixel, progressive scan, CMOS			
Lens		4.0mm@F2.0			
DORI Distance	Lens	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	4.0mm	60	24	12	6
Angle of View (H)		79.7°		50.5°	

Angle of View (V)	51.8°	35.9°
Angle of View (O)	98.0°	62.1°
Adjustment Angle	Auto/Manual, 1~1/100000 s	
Shutter	Color: 0.01 Lux (F2.0, AGC ON) 0 Lux with IR on	
Digital Noise Reduction	2D/3D DNR	
Day/Night	IR-cut filter with auto switch (ICR)	
S/N	>52dB	
IR Range	Up to 30m (98 ft) IR range	
WDR	DWDR	
VIDEO		
Video Compression	Ultra 265, H.265, H.264, MJPEG	
H.264 code profile	Baseline profile, Main Profile, High Profile	
Frame Rate	Main Stream:5MP (2592*1944): Max.15fps; Sub Stream: 720P (1280×720): Max.20fps;	
HLC	Supported	
BLC	Supported	
OSD	Up to 4 OSDs	
Privacy Mask	Up to 8 areas	
ROI	Up to 2 areas	
Motion Detection	Up to 4 areas	
NETWORK		
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL	
Compatible Integration	ONVIF (Profile S), API	
INTERFACE		
Network	10/100M Base-TX Ethernet	
GENERAL		
Power	12 V DC±25%, PoE (IEEE802.3 af)	
Power Consumption	Power consumption: Max 4W	
Dimensions (LxWxH)	167.3 × 62.9 × 62.7 mm (6.6" × 2.5" × 2.5")	
Weight	0.37kg (0.81lb)	
Working Environment	-30°C ~ +60°C (-22°F ~ 140°F)	
Humidity	Humidity :10%~90% RH (non-condensing)	
Ingress Protection	IP67	

Lithium Iron Phosphate Battery

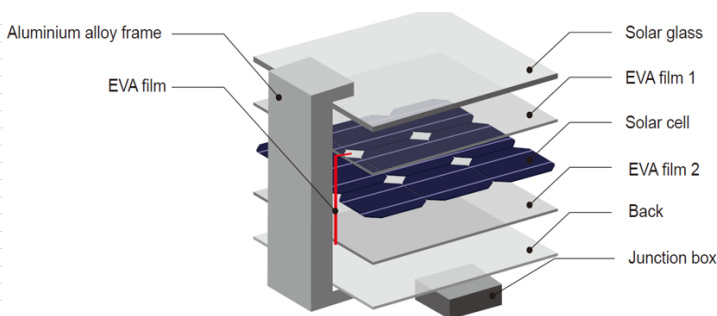


Note: Batteries are custom made according to the projects requirement. Picture is for reference only.

BATTERY SPECIFICATIONS

Voltage	12.8V
Max Capacity	230AH
Discharge Stop Voltage	11.2V
Charge Stop Voltage	14.4V
Working Temperature	-10°C~70°C 14°F to 158°F
Service Life	2000-2500 circle life
Features	Deep discharge depth, no memory, environmental protection, portable, long life

Solar Panel Modules



SOLAR MODULE SPECIFICATIONS

MODULE DATA

Standard Power (W)	170	300	380
Working Voltage (V)	18.86	32.01	38.41
Working Current (A)	8.51	8.86	8.86
Open Circuit Voltage (V) Voc	22.35	37.27	44.72
Short-circuit Current (A) Isc	9.02	9.373	9.895
Cell Efficiency (%) CE	19.3	19.9	19.9
Module Efficiency (%) ME	>16.13	>17.43	>17.52
Tolerance (%)	±3%		
Nominal Operating Cell Temperature	47°C (+/- 2°C) 116.6°F (+/- 35.6°F)		

TEMPERATURE COEFFICIENTS

Short Circuit Current Coefficient Isc (%)	0.04°C / 32.1°F
Open Circuit Voltage Coefficient Voc (%)	-0.38°C / 31.3°F
Nominal Power Factor Pm (%)	-0.47°C / 31.2°F
Working Current Coefficient Im(%)	0.04°C / 32.1°F
Working Voltage Coefficient Vm (%)	-0.38°C / 31.3°F

COMPONENTS & MECHANICAL DATA

Solar Cell	156 x 156 Mono-crystalline silicon		
Number of Cell (pcs)	4 x 9 series connection	6 x 10 series connection	6 x 12 series connection
Size of Module	1485 x 668 mm/ 4.9' x 2.2' ft	1640 x 990 mm/ 5.4' x 3.2' ft	1960 x 990/ 6.4' x 3.2' ft
Front Glass Thickness	3.2mm 0.1" in		
Surface Maximum Load Capacity	2400-5400Pa		
Allowable Hail Load	23m/s, 7.53g 23m/s, 0.3oz		
Weight Per Piece (kg)	15.26kg/33.6 lbs	18.86/41.6 lbs	22.16/48.9 lbs
Junction Box Type	Pass the TUV or CE Certificate		
Bypass Diode Rating (A)	12 or None		
Cable & Connector Type	Pass the TUV or CE Certificate		
Frame (Material Corners, etc.)	30# / 35#	40# / 35#	
Back Board Type (Brand Type)	TPT, PET or KPF		
Working Temperature	-40°C to 85°C -40°F to 185°F		
Standard Test Conditions	AM1.5 1000W/m ² 25°C/77°F		

Solar Power Controller MPPT



CONTROLLER SPECIFICATIONS

System Voltage	12V/24V/48V/96V automatic recognition
Max Charging Current	40A
Fast Charging Voltage	14.0/28.0V/56V/112V(25°C)/(77°F)
Boost Charging Voltage	14.5/29.0V/58.0V/116V(25°C)/(77°F)
Equalization Charging Voltage	14.8/29.6V/59.2V/118.4V(25°C)/(77°F)
Float Charging Voltage	13.7/27.4V/54.8V/109.6V(25°C)/(77°F)
Low Voltage Alarm	11.0/22.0/44.0/88.0V
Low Voltage Disarming	12.5/25.0V/50.0V/100.0V
Storage Cell Type	Liquid, Gel, Lithium
Temperature Compensation	-4.17mV/K per cell (boost charging, equalization charging); -3.33mV/K per cell (float charging)
Solar Power End Max Voltage	55V/100V/150V/300V
Storage Cell Max Voltage	DC280V
Cable Length	120mm/80mm 4.7" in/3.1" in.
High Protection Voltage For Storage Cell	15.5/31.0/62V/124V
Communication Protocol	RS232/RS485/TCP/IP transmission wired or wireless by GPRS/3G/4G etc.
Recommended Wire Diameter	6mm ²
Max Current Consumption	8mA /16mA /24mA
Working Temperature	-40°C ~ 60°C
Protection Level	IP30~IP68
Altitude (for reference)	4000~5000m 2.5~3.1 miles