

2MSP1P-4G3D

Portable Solar Solution with Deterrent Motorized PTZ Dome and 4G Router
 Standby 24hr x 3 Days



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



Solutions



Features

PTZ Camera : 2MPIP-2MIR505X

- Light Predator illumination
- 2MP PTZ camera
- 5x optical zoom
- up to 50m (164 ft) night vision and 10m (33 ft) warm light distance
- With wall mount

Solar Power System

- Monocrystalline 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.

Specifications

CAMERA: MODEL 2MPIP-2MIR505X					
Sensor	1/2.8" progressive scan, 2.0 megapixel, CMOS				
Lens	2.8~12mm, AF automatic focusing and motorized zoom lens				
DORI Distance	Lens	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	2.8mm	43.4	17.4	8.7	4.3
	12mm	186.2	74.5	37.2	18.6
Angle of View (H)	32.5°~95.7°				
Angle of View (V)	18.4°~52.2°				
Angle of View (O)	36.9°~100.8°				
Shutter	Auto/Manual, shutter time: 1 s ~ 1/100000 s				
Minimum Illumination	Color:0.001 lux (F1.6,AGC ON) 0 lux with IR				
Day/Night	IR-cut filter with auto switch (ICR)				
Digital noise reduction	2D/3D DNR				
S/N	>52 dB				
IR Range	UP to 50m (164ft)				
Wavelength	850nm				
IR On/Off Control	Auto/Manual				
Warm Light Range	UP to 10m (33ft)				
WDR	120dB				

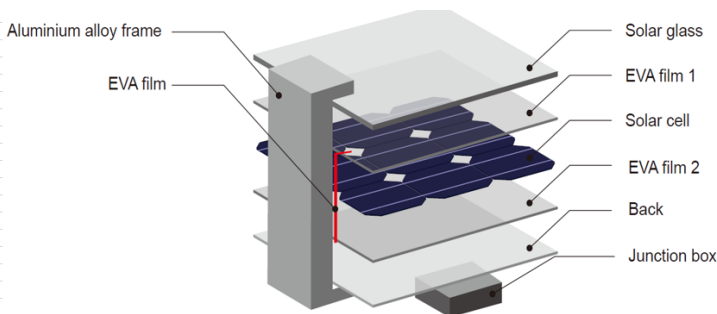
PTZ Camera



VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 code profile	Baseline profile, Main Profile
Frame Rate	Main Stream: 1080P (1920*1080): Max. 30 fps; 720P (1280*720): Max. 30 fps; Sub Stream: 720P (1280*720): Max. 30 fps; Third Stream: CIF (352*288): Max. 30 fps
Video Bit Rate	128 Kbps ~ 16 Mbps
OSD	Up to 8 OSDs
Privacy Mask	Up to 8 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas
IMAGE	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180°
Dewarping	Support
HLC	Supported
BLC	Supported
AUDIO	
Audio Compression	G.711
Suppression	Supported
Sampling Rate	8 KHZ
STORAGE	
Edge Storage	Micro SD, up to 128 GB
Network Storage	ANR, NAS(NFS)

NETWORK	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL
Compatible Integration	ONVIF(Profile S, Profile G, Profile T), API
Client	Android®, iPhone®, 2M Station, 2M Guard
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+
PAN & TILT	
Pan Range	345°
Pan Speed	0.1°/s ~ 50°/s Preset speed: 50°/s
Tilt Range	90°
Tilt Speed	0.1° ~ 40°/s Preset speed: 40°/s
Number of Presets	256
Patrol	Preset patrol, Route patrol
INTERFACE	
Network	1 RJ45 10M/100M Base-TX Ethernet
Built-in Mic	Supported
Built-in Speaker	Supported
Alarm Light	Supported
CERTIFICATIONS	
Certifications	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
GENERAL	
Power	DC 12V±25%, PoE (IEEE802.3 at) Power consumption: Max 16 W
Dimensions (Ø x H)	Ø 133 x 269.4 (mm) (Ø 5.2" x 10.6" in.)
x	0.87 kg (1.92lb)
Gross Weight	1.13 kg (2.49lb)
Material	Metal + Plastic
Working Environment	-20°C ~ 60°C (-4°F to 140°F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-20°C ~ 60°C (-4°F to 140°F), Humidity: ≤95% RH (non-condensing)
Surge Protection	4KV
Ingress Protection	IP66
Reset Button	Supported

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

Lithium Iron Phosphate Battery

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



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