

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.



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 | | | | |

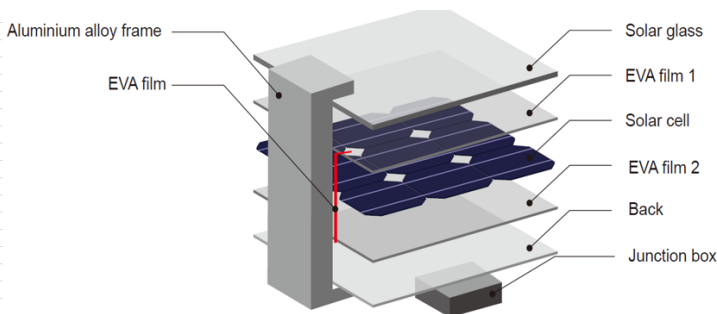
PTZ Camera



| 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.