

# Solar Street Light Technical Specification

## I. Product Highlights

1. All-In-One: Plug-and-play, easy to install, reduce the project construction period and reducing hidden costs.
2. High Environmental Adaptability: Undergoes a dual treatment of anodizing and electrostatic spraying, with an IP65 protection rating and a wind resistance rating of  $\geq$  Grade 16. Its corrosion resistance, seismic resistance and impact resistance have all passed professional certification.
3. HD video camera with maximum resolution: 2560\*1440@15fps, delivering clear real-time 4MP images; Integrated with AI detection functions including human detection, motion detection, area intrusion detection and line crossing detection; Wireless connectivity supported, eliminating the hassle of wiring

## II. Core Product Solution

### (I) Solar LED Street Light (Standard)



Figure 1 Solar LED Street Light\_ HX-SL-100W

| Product Model                         | HX-SL-100W          |
|---------------------------------------|---------------------|
| Solar Panel<br>(Monocrystalline Type) | 18V 150W            |
| Battery(LiFePO4)                      | 12.8V 75AH          |
| System Voltage                        | 12.8V               |
| LED(Bridgelux)                        | 300PCS              |
| LED Light Source Power                | 130W                |
| Color Temperature & CRI               | 2700K-6500K, CRI>80 |
| Luminous Efficacy                     | 180LM/W             |

| Product Model           | HX-SL-100W                                                                                                |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| Working Time            | 12h up to 3 cloudy/rainy days                                                                             |
| Intelligent Controller  | 12.8V MPPT IP68<br>Maximum output power: 40W                                                              |
| Charging Time           | 3-5 hours                                                                                                 |
| Mounting Caliber        | 70-76mm(suggestion)                                                                                       |
| Working Temperature     | -25°C~+65°C                                                                                               |
| IP Rating/IK Class      | IP65/IK10                                                                                                 |
| Material                | Anti-corrosion aluminum alloy                                                                             |
| Mounting Height         | <13M                                                                                                      |
| Space between 2 Lamps   | 30-35m                                                                                                    |
| Warranty & Service Life | Complete fixture: 3-year warranty<br>PV module: 20-year service life<br>Battery: 2000 cycle life(>5years) |

## (II) Solar LED Street Light with HD camera



Figure 2 Solar LED Street Light\_ HX-SL-100W(VC)

| Product Model | HX-SL-100W                                                                           |
|---------------|--------------------------------------------------------------------------------------|
| Photo         |  |

|                        |                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical Parameter    | Same as table(1)                                                                                                                                                                                                               |
| <b>Product Model</b>   | <b>HX-VC-4MP</b>                                                                                                                                                                                                               |
| Photo                  |                                                                                                                                              |
| Basic Parameters       | Sensor Type: 1/3-inch CMOS<br>Day/Night Switch Mode: ICR infrared filter type<br>Digital Noise Reduction: 3D DNR<br>Gain Control: Auto<br>White Balance: Auto<br>Backlight Compensation: Supported                             |
| Video Coding Standards | Coding Standards: H.265+/H.265/H.264<br>Coding Bitrate: 64Kbps–2Mbps                                                                                                                                                           |
| Lens Parameters        | Lens Aperture: 2.8mm / 3.6mm / 4mm / 6mm<br>Zoom Type: Fixed focus<br>Aperture Control: Fixed                                                                                                                                  |
| Video Parameters       | Maximum Image Resolution: 2560 × 1440<br>Main Stream: 2560 × 1440<br>Sub Stream: 640 × 480<br>Video Bitrate: Adjustable for H.265+/H.265/H.264<br>Image Settings: Adjustable saturation, brightness, contrast, sharpness, etc. |
| Interfaces             | Network Interface: 1 × RJ45 10/100Mbps Ethernet port / Wi-Fi 2.4GHz (802.11b/g/n)<br>DC Power Input: 1 × DC power port<br>Micro SD Card Slot: Supports up to 512GB Micro SD card.                                              |
| Network Features       | Interface Protocol: ONVIF/P2P<br>Supported Protocols: TCP/IP, ICMP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP<br>FTP Snapshot Capture: Supported<br>Digital Watermarking: Supported                             |
| Operating Environment  | Operating Temperature: -10°C to 40°C, Humidity < 90% (non-condensing)                                                                                                                                                          |
| Power Supply           | Compatible with DC9V and DC12V<br>Power Consumption: 7W MAX                                                                                                                                                                    |

### III. Product Control Function Solution

(I) Time-base control (Standard):

Auto on/off by ambient light, scheduled dimming by night hours according to the scenarios' luminance requirement of each period at night. Improve energy efficiency through reasonable power distribution.

(II) Motion sensor control (Optional):

On the basis of time-based control, a motion sensor is added. When pedestrians or vehicles are detected approaching or moving away on the road, it will automatically perform corresponding dimming actions (the dimming amplitude can be set according to the lighting requirements of the site).

#### **IV. Compliance and Certification Plan**

Safety Certifications: The solar street light as a whole has obtained CE certification and can withstand typhoons up to Category 16. It has also passed IP65 protection certification, IK10 impact resistance certification, and anti-corrosion certification.

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