

## 6 Inch 5MP 20X 60W Solar Powered WiFi 4G LTE PTZ Camera Kit

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**LOYALTY-SECU 4G LTE WiFi PTZ Camera Outdoor with 60W Solar Panel  
& 40AH Solar Powered Battery, 20X Optical Zoom 5MP, Two-Way  
Audio& Waterproof IP66, Long Range Infrared Night Vision up to 200M  
(656ft)**

**LY-H6-520WG-60W**

## 1.Selling Points

- i. **2MP 4G/LTE WiFi Solution:** 4G 5MP PTZ camera allows users to setup surveillance devices in locations without WiFi coverage through 4G/LTE data plan (micro 4G sim card is not included), meanwhile, it supports to setup PTZ camera in locations via WiFi network, when there has poor 4G signals coverage.
- ii. **Outdoor Monitoring & Two-way Audio:** Outfitted with industrial-level IP66 waterproof shell to tackle extreme weathers and two-way audio function allows people to talk to the person at the camera's end through APP CamHi.
- iii. **Easy Installation & 40AH Solar Battery Powered:** It is completely equipped with accessories which are suitable for a variety of installation scenes. A rechargeable 40AH solar battery powered with 60W solar panel gives you a reliable and powerful wireless security camera system in your domain.
- iv. **Capture More Details with 20X Optical Zoom:** The 20X optical zoom lens will leverage the zoom status of the camera according to the distance of a moving object, day and night. The camera is equipped with 1/2.8" Sony CMOS Sensor.
- v. **Remote Live View & Playback:** Use APP CamHi to remotely view live streams. The security PTZ camera also supports TF card extension up to 128GB (Micro SD card is not included) where users can select to put on for device-end video storage.

## 2. Brief Introduction



**6 Inch 5MP 20X 60W Solar Powered WiFi 4G LTE PTZ Camera Kit**

LOYALTY-SECU 6inch 5MP LTE Network PTZ Camera utilizes 4G-LTE connectivity. It is ideal to install it where there is no WiFi signal. Meanwhile, it adopts the high accuracy stepping motor, works with the high performance motor driver, which ensures the PTZ IP camera works under a stable, accurate, and less vibration condition.

Also, the LOYALTY-SECU 5MP Security PTZ IP camera comes alone with a 60W solar powered kit which is suitable for places where there are no any power supply facilities.

## 3. PTZ Camera's Features

- H.265 video compression, 2520\*1944, 20x optical zoom, 4.7-94mm lens
- High speed pan tilt zoom with Horizontal: 0-360 Degree, Vertical: 0-90 Degree
- 6pcs IR Array LEDs+4pcs Laser LEDs, long range infrared LED night vision up to 200M (656ft)
- Support any brand NVR with ONVIF protocol
- P2P mode, Plug & play, support to QR code scanning to view on iPhone and android phone via APP CamHi
- Two-way audio with built-in mic & speaker allow users to speak with anyone on the camera's end through smartphone app with warning decal for compliance purpose.
- Industrial-level IP66 waterproof shell with an operating temperature rating at -20~60°C to tackle extreme weathers.
- Support different network mode connection: Auto mode/3G-4G mode/WiFi mode

## 4.Solar Power System's Features

- Equipped with the high quality 18V/60W monocrystalline silicon solar panel and 12V/40AH EV MnNiCo ternary 18650 Lithium battery.
- With the real-time monitoring for the solar panel work condition, lithium battery's work condition and the transformation of load power consumption.
- With the frequency conversion lithium battery charging technology, accomplish the high effective charging process and high-accuracy lithium battery charging curve, Max charging efficiency can reach to 99%.
- With the built-in Ultra low power lithium battery protection function, includes: Over Charge, Over Discharge, Overcurrent, Short- circuit Protection, Temperature Detection etc.
- Upgraded solar power kit with built-in battery charge and discharge protection control board and intelligent solar controller, ensure the whole solar power supply process is safe and high efficiency.
- Adopt Hikvision similar bracket installation design, truly "plug and play" function, high waterproof performance IP67.

## 5.Other Features

### 5.1. No Troubles With Network Connection and Power Supply Any More!

LOYALTY-SECU Solar Powered WiFi 4G LTE PTZ Camera Kits are widely used in outdoor sites which are not equipped with power supply facilities, such as the mountain orchard, ranch, fishery, vegetable plantation, construction sites, highway roads, farm and animal husbandry, reservoir and so on.

Meanwhile, it is ideal to install it where there is no WiFi coverage. Just need to insert a 4G sim card in the security camera, and download an APP on the mobile, then you can monitor anytime, anywhere.



## 5.2. Get Notified with Smartphone & Dual Audio Solution

Remotely watch live view & playback and control PTZ/Preset through APP CamHi (iOS & Android) with alarm message pushed. Alarm pictures will be sent by Email; meanwhile, pictures and videos can be uploaded to the FTP server

PTZ IP camera comes with built-in mic & speaker allows users to speak with anyone on the camera's end through smartphone app with warning decal for compliance purpose.



### 5.3. Protect Your Property at Night

Your property will be covered by the superior night vision of LOYALTY-SECU PTZ camera with 6pcs IR Array LEDs+4pcs Laser LEDs. The infrared illumination distance can reach up to 200M (656ft) depending on the scene.



### 5.4. Smart Automatically Patrol

Support preset cruise points, time and speed-patrol in the monitoring zone you cared!

Patrol: Up to 4 patrol groups;

Preset: 10 presets per patrol group

Patrol time: Adjustable

**Our PTZ Security Camera supports "Cruise" and "Auto Tracking" simultaneously!**

**Secure your cares through both Cruise and Auto Tracking**

- i. When there is no human movement detected, the PTZ security camera will cruise according to your preset trajectory.
- ii. When there is human detection, this network security camera will auto tracking the human until the human disappears in the field of view. Then it will resume cruise.



### 5.5. Waterproof IP66 & 4000V Thunder-proof

The security outdoor camera is equipped with an IP66 rated weatherproof metal shell and supports **4000V Thunder-proof**, designed to operate the security PTZ camera even in some real extreme weather conditions.



### 5.6. Support Local Storage and Playback

The network PTZ camera supports micro TF card up to 128GB. Insert a TF card, and then it is a complete remote video surveillance system. When the TF card is full, the new recordings will overwrite the old ones, it can make sure the recording of security camera works normally all the

time. Meanwhile, you can view the live streams of PTZ camera and play videos via your mobile phone APP remotely.



## 6. What's Included?

### For PTZ camera:

1pcs Manual, 1pcs PTZ Camera, 1pcs Wall Bracket (default), 1pcs 12V/4A adapter and 1set install screws.

### For Solar Power Kit:

1pcs Solar Panel, 1pcs Lithium Battery, 1 Set Bracket, 1 Set Install Screws.

### 60W /40AH Solar Power PTZ Camera Kit





## 7.PTZ Camera Specification

Camera	
Model	LY-H6-520WG
CPU	H3516EV300
Sensor	1/2.8" Sony CMOS IMX335
Resolution	2592(H)x1944(V)
Pixel	5MP
Auto-Tracking	Humanoid Detection and Alert Auto Tracking
APP	CamHi
Lens	20X Zoom (4.7~94mm)
Minimum Illumination	0.01Lux
Day/Night Mode	Support IR-cut
IR Distance	200M
Storage Function	Support 256G TF card max
Motion Detection	4 separate test areas can be set (Sensitivity can be set)
Alarm Linkage	Send pictures by Email; pictures and videos uploaded to the FTP server;
Manual Speed	0.5-100°/S
Preset Speed	100°/S
OSD	OSD name, time, date, information overlay
Video Processing	Support H.265/H.264
General	
Network Interface	1 RJ45 Ethernet interfaces ,10/100M self-adaption; Support: CP/IP,HTTP,TCP,ICMP,UDP,ARP, IGMP,SMTP,FTP,DHCP,DNS,DDNS,NTP,UPNP,RTSP
Band Information	WiFi AP: 802.11/b/g/n China: B1/B3/B8/B38/B39/B40/B41 Europe/African/Asia: B1/B3/B7/B8/B20/B38/B40/B41 North/South American: B1/B2/B4/B12/B13WCDMA: B1/B8 TD-SCDMA: Band 34/39 GSM/GPRS/EDGE: 900/1800 Band can be customized
Presets	256
Audio Interface	1 input / 1 output
Cruise/ A-B Scan	4 groups/1

Preset Number of Cruise Groups	10 preset/ groups
SSID	SSID can be set to hide or open, SSID name password can be modified
Breakage self-test repair	Support, When the device fails to go offline on the public network, it is detected every 2 minutes and the connection is automatically reconnected.
IP Address	Support static IP and dynamic IP (DHCP)
Motion detection	Support
Email alert	Support
FTP upload	Support
Waterproof Grade	IP66
Lightning Protection	4000V
Working Temperature	(-20°C ~ +60°C)
Power Supply	12V 4A

## 8.Solar Power System Specification

<b>Solar Power Kit ( 60W Solar Panel + 40AH Solar Battery)</b>	
Solar Power Kit Model	LY-SPS-6040AH
Solar Power Kit Include Items	1PCS Solar Panel, 1 PCS Lithium Battery, 1 Set Bracket, 1 Set Install Screws
Solar Power Kit Carton Size	73*65*22CM
Solar Power Kit GW	17KG

<b>60W Solar Panel</b>	
Solar panel type	Monocrystalline silicon 60W
Solar panel Voltage/Consumption	18V/60W
Power tolerance	+3%
Rated voltage	17.56V
Service life	25 Years
Maximum power	60W
Maximum power voltage	17.56V
Maximum current	2.85A

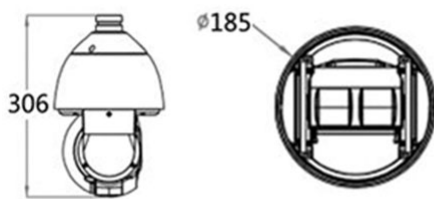
Short-circuit current	3.45A
Open-circuit Voltage	22.32V
Temperature coefficient of ISC	+0.04
TC of VOC	-0.38
TC of Consumption	-0.47
TC of IM	+0.04
TC of VM	-0.38
Temperature range	-40° ~ +85°
Rated current of bypass diode	12A
Load capacity	23m/s,7.53g
Max load capacity of Surface	2400Pa
Solar panel size	59*67*2.5CM
Solar panel weight	5.25KG

<b>40AH Lithium Battery</b>	
Battery cell	EV MnNiCo ternary 18650 Lithium
Battery capacity	Min 40Ah,Max 40.9Ah
Nominal voltage	12V
Charge/Discharge protection voltage	12.6V/9V
Normal charging current	10A
Max Charge/Discharge current	20A
Discharge temperature (Recommend)	-20°~ 60°
Charge temperature (Recommend)	-5°~45°
Intelligent Solar power system	<ol style="list-style-type: none"> <li>1.Solar panel with an-reverse protection</li> <li>2.Support the tracking for the Max power generation efficiency of solar panel</li> <li>3.Support the real-time detection of generation voltage and generation current, and the data upload</li> <li>4.Support the detection of battery capacity, and the data upload</li> </ol>

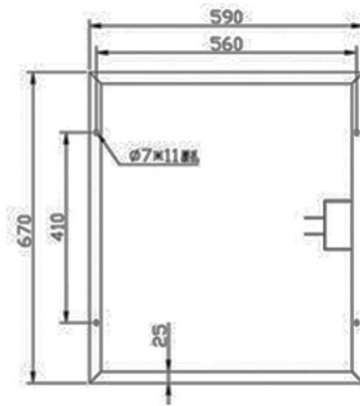
	5.Support the detection of total load's real-time current ,and the data upload 6. With the low voltage protection technology
Storage time	≥18 months(25°)
Battery weight	4.5KG

## 9.Product Dimension

Unit: mm



PTZ CAMERA



SOLAR PANEL