

## 6 Inch 5MP 33X 120W/40AH Solar Powered 4G LTE IP PTZ Camera

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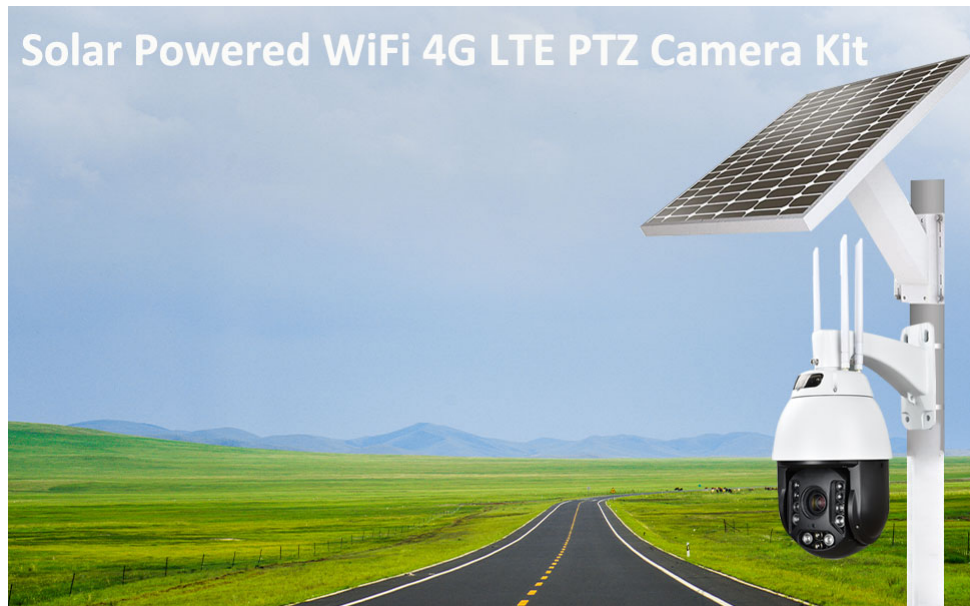
**LOYALTY-SECU 4G LTE Wireless 120W/40AH Solar Powered 5MP PTZ  
Camera with Dual Audio Solution, IP66 Weatherproof, Night Vision Up  
to 200M (656ft) and 120dB WDR**

**LY-U6-533WG-120W**

## 1.Selling Points

- i. **5MP 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 Guard Viewer.
- 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 120W solar panel gives you a reliable and powerful wireless security camera system in your domain.
- iv. **Capture More Details with 33X Optical Zoom:** The 33X 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 Guard Viewer to remotely view live streams. The security PTZ camera also supports TF card extension up to 256GB (Micro SD card is not included) where users can select to put on for device-end video storage.

## 2. Brief Introduction



**6 Inch 5MP 33X 120W/40AH Solar Powered 4G Cellular Security Network PTZ Camera**

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 Security 5MP PTZ IP camera comes alone with a 120W solar powered kit which is suitable for places where there are no any power supply facilities.

## 3. Features

- i. H.265/H.264 video compression, 2592x1944P, 33X optical zoom, 4.5- 148.5mm lens
- ii. High speed pan tilt zoom with Horizontal: 0-360 Degree, Vertical: 0-90 Degree
- iii. 6pcs IR Array LEDs+4pcs Laser LEDs, support starlight function, night vision up to 200M (656ft)
- iv. Support any brand NVR with ONVIF protocol
- v. P2P mode with Plug & play, one tap QR code scanning to view live streaming of PTZ camera on iPhone and android phone via APP Guard Viewer
- vi. 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.
- vii. Industrial-level IP66 waterproof shell with an operating temperature rating at -20~60°C to tackle extreme weathers.
- viii. Support different network mode connection: Auto mode/3G-4G mode/WiFi mode

## 4. Solar Power System's Features

- ix. Equipped with the high quality 18V/60W monocrystalline silicon solar panel and 12V/40AH EV MnNiCo ternary 18650 Lithium battery.
- x. With the real-time monitoring for the solar panel work condition, lithium battery's work condition and the transformation of load power consumption.
- xi. 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%.
- xii. With the built-in Ultra low power lithium battery protection function, includes: Over Charge, Over Discharge, Overcurrent, Short- circuit Protection, Temperature Detection etc.
- xiii. 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.
- xiv. 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 Guard Viewer (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.



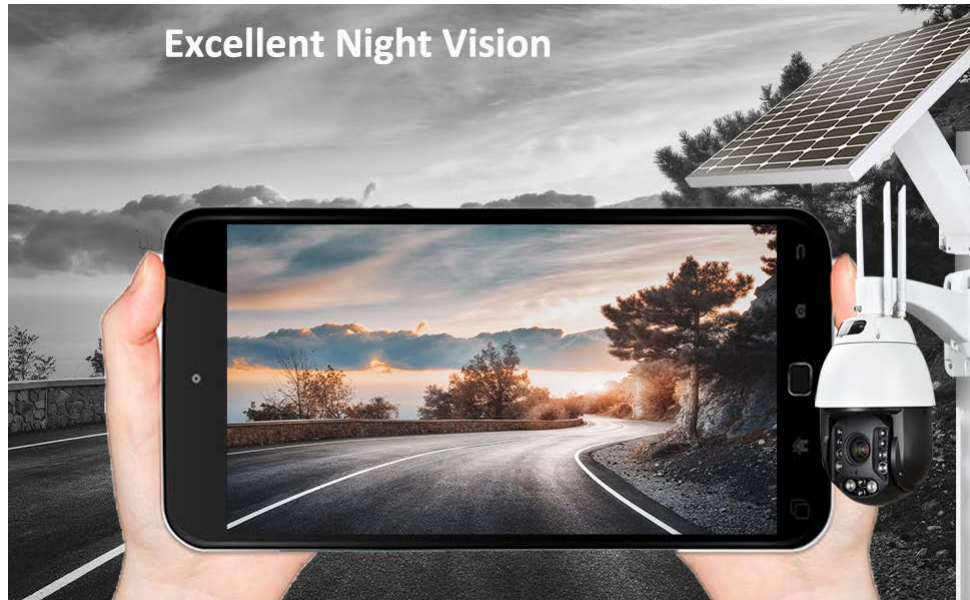
App alerts push

Alarm pictures to Mail



### 5.3. Excellent Video Quality Even at Night

The 4G PTZ Camera with 6 pcs high quality array LEDs +4 pcs laser LEDs which brings an excellent IR night vision at 200m. The infrared illumination distance can reach up to 200m depending on the scene. **Meanwhile, it supports starlight function.**



### 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 256GB. 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.



## 5.7. Intelligent WDR Function& Real Color

With true WDR technology, it can produce images of good clarity even under varying light conditions by using different shutter speeds to allow more light in some darker areas of the image and less light in others brighter. The sensor's exposure to light-receiving from the exterior environment is controlled to achieve a compensated vision.

### Intelligent WDR Function





## 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.

### 120W/40AH Solar Power PTZ Camera Kit



## 7.PTZ Camera Specification

Model	LY-U6-533WG
CPU	H3516EV300
Sensor	1/2.8" Sony CMOS IMX335
Resolution	2592(H)x1944(V)
Pixel	5MP
WDR	120dB
APP	Guard Viewer
AI Features	Auto Tracking/Face Detection/Humanoid Detection
Behavior Detection	Cross-border detection, regional intrusion, entering the area, leaving the area, wandering detection, fast moving, people gathering, parking detection, item leftover, item moving
Lens	33X Zoom (4.5- 148.5mm)
Minimum	Color: 0.005Lux, B/W: 0.0005Lux, 0Lux with IR

Illumination	
Aperture	Auto/manual, aperture range: F1.5~F3.8
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
Video Stream	☑ Three-stream encoding capability to meet real-time streaming and storage streaming requirements of different bandwidths and frame rates
<b>General</b>	
Network Interface	L2TP,IPv4,IGMP,ICMP,ARPTCP,UDP,DHCP,PPPoE,RTP,RTSP,DNS,DDNS,NTP,FTP,UPnP,HTTP,SNMP,SIP
Band Information	WiFi AP: 802.11/b/g/n TDD-LTE: Band 38/39/40/41 FDD-LTE: Band 1/3 WCDMA: B1/B8 TD-SCDMA: Band 34/39 GSM/GPRS/EDGE: 900/1800 <b>Can be customized according to the region</b>
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℃~+60℃)
Power Supply	12V 4A
GW	3.9KG

## 8. Solar Power System Specification

<b>Solar Power Kit ( 120W Solar Panel + 40AH Solar Battery)</b>	
Solar Power Kit Model	LY-SPS-1240AH
Solar Power Kit Include Items	1PCS Solar Panel, 1 PCS Lithium Battery, 1 Set Bracket, 1 Set Install Screws
Solar Power Kit Carton Size	116*74*19CM
Solar Power Kit GW	20KG

<b>120W Solar Panel</b>	
Solar panel type	Monocrystalline silicon 120W
Solar panel Voltage/Consumption	18V/120W
Power tolerance	+3%
Rated voltage	17.56V
Service life	25 Years
Maximum power	120W
Maximum power voltage	17.56V
Maximum current	2.85A
Short-circuit current	3.45A
Open-circuit Voltage	22.32V
Temperature coefficient of	+0.04

ISC	
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	92*67*3CM
Solar panel weight	7.25KG

<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> <li>5.Support the detection of total load's real-time current ,and the data upload</li> <li>6. With the low voltage protection technology</li> </ol>



Storage time	≥18 months(25°)
Battery weight	4.5KG

## 9.Product Dimension

