E-IPCAM-SWHNO
Solar Panel IP Camera with WiFi and LAN Support
Installation and Operation Manual

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CHANGES

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INTRODUCTION

The E-IPCAM-SWHNO Solar Panel IP Camera with WiFi and LAN support is an HD 1080P 2MP Outdoor Solar Powered Security WiFi IP Camera with IR-cut Motion Detection.   The camera provides ONVIF support and is ideal for P2P Surveillance CCTV applications.

Features:
- 1080P 2.0MP HD high-resolution camera provides clear and accurate video footage both day and night
- Built-in 2 x 12Ah Li-ion battery for storing power, camera can work for 48 hours without sunshine charging
- IR-cut dual filter, clearer night vision, never be in the dark again
- IP66 waterproof means this camera is suitable for outdoor locations
- Easy to set up. You can separate the solar panel to aim at the sun
- Supports motion detection and can send alarm information by email
- Built-in 16G TF card for recording
- AP function allows connection to AP hotpot signal, working without Internet connection
- Supports up to 6 users to simultaneous live view at the same time
- No need to preset camera, offers free P2P, plug and play, support for QR code scanning to view
- Supports ONVIF protocol
- Support for Android, iOS and Windows
- Easy to install wirelessly

MATERIALS

Materials supplied with this kit:
- E-IPCAM-SWHNO IP Camera
- 1 x 100-240VAC, 50 or 60Hz-5VDC/3A (PS4191) AC Adapter
- Solar Panel
- Antenna
- Hardware for mounting
- Mounting Bracket
- Power Splitter cable
- URL Slip with path to this manual

PREPARATION FOR INSTALLATION

If you want to access the camera from you smart phones/ devices, download and install the APP before you setup the IP Camera. Search on Google Play store or APP Store for "IPC View".
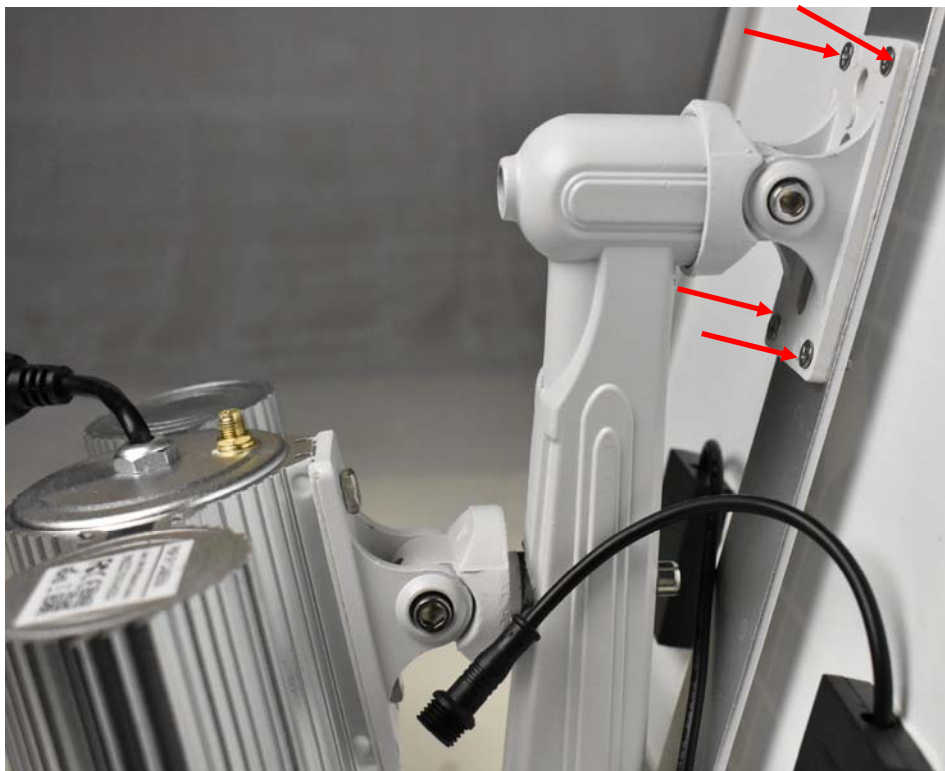

For connection from a PC, download and install the **OCX_Setup.exe** and **HiP2P Client_Setup_v6.0.3.2.exe** from our website.

INSTALLATION

1. Secure the mounting bracket to the camera with the hex bolts supplied.

2. Connect the solar panel to the mounting bracket with the 4 Phillips head screws provided.

3. Attach the antenna to the camera.

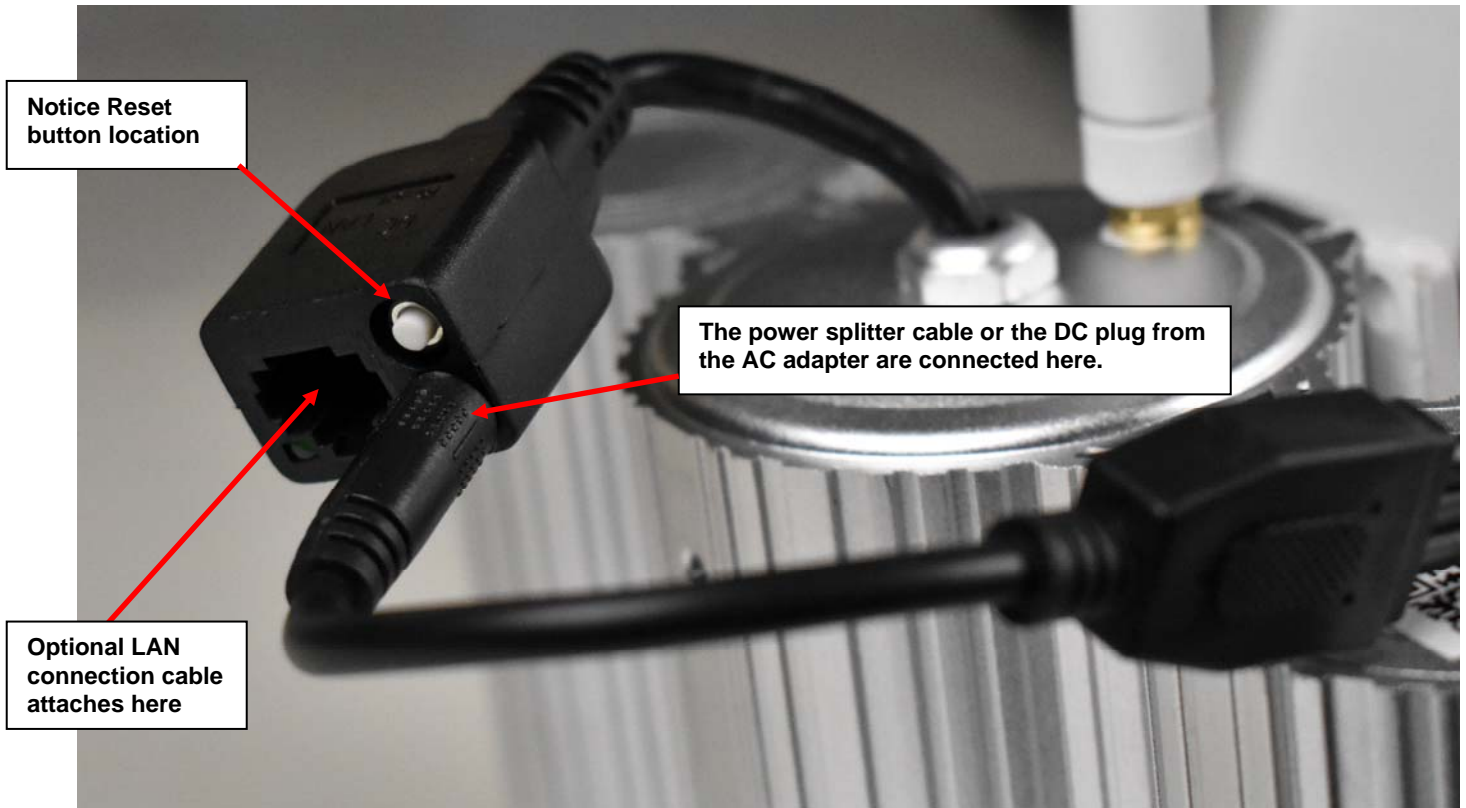4. Connect the power splitter cable to the solar panel.   Then remove the protective boot from the AC Adapter connection jack and plug in the DC plug.

After the battery is charged, the AC adapter is optional.   If the environment provides enough sunshine to the solar panels, the AC adapter will not be necessary.

Optional AC Adapter plugs in here.

Remove the protective boot and insert the DC Plug.

5. Attach the power splitter cable to the camera at the connection cable.

Notice Reset button location

The power splitter cable or the DC plug from the AC adapter are connected here.

Optional LAN connection cable attaches here

6. If using a wired LAN connection, connect the Ethernet cable to the RJ45 connector next to the power splitter cable connection.

7. Anchor the bracket to the desired mounting surface with hardware sufficient to support the full weight of the assembly (6.6 lbs (2993.7 g)).

Charging LED

Power LED

Front View of Camera
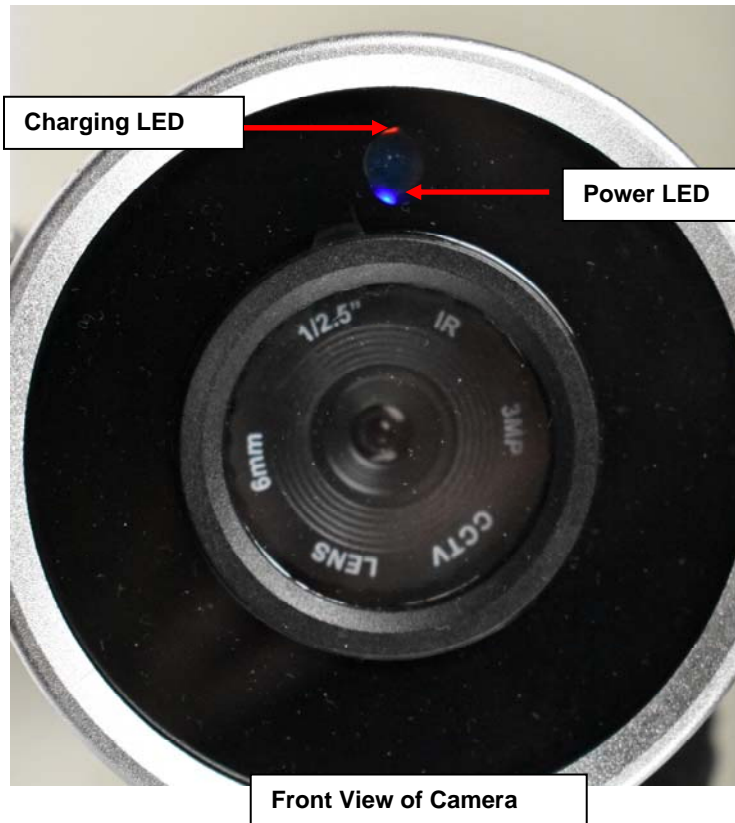
LED Indications

Charging LED

1. When the Charging LED blinks red, the battery charge level is approximately 30%.

2. When the Charging LED blinks green and red, the batter charge level is approximately 50%.

3. When the Charging LED blinks green, the batter charge level is approximately 80%.

4. When the Charging LED is solid green, the batter charge level is 100%.

Power LED

When the camera is being charged by the solar panel or AC adapter, the Power LED will illuminate blue.   The camera will take 30 seconds to completely boot up.

Note: It is recommended to charge the camera using the AC adapter for at least 8 hours before using the camera.

Powering OFF the camera

1. While the camera is working, unplug the power splitter cable from the camera connection cable. Wait 60 seconds.

2. Remove the DC plug of the AC adapter from the power splitter cable, and insert the DC plug directly into the camera connection cable.

3. Insert and remove the DC plug 3 times.   The Power LED will turn OFF.

4. Repeat this if the Power LED does not turn OFF.

Connection

Peer to Peer

The camera can be connected to (using a smart phone or other WiFi enabled device) directly through WiFi AP once it is powered up, provided a network cable is not attached to it. Search and directly connect through WiFi Settings "CAMxxxxxx".   The default WiFi password is 123456789.

Then use the Search Tool or APP "IPC View" to locate the camera.

Wired Network Connection

Connect the camera to your router using Ethernet cable. Then use the Search Tool or APP to locate the camera on your smart device, or HiP2P Client_Setup to locate the camera using your PC.   (See note after "Wired Direct to PC Connection")

Wired Direct to PC Connection

Connect an Ethernet cable between the camera and your PC.   Open your browser and enter the IP address- 192.168.1.88,   username "admin", password "admin".

Note: By default, this camera obtains an IP address from a DHCP server on the local network. To find the IP address of the camera, consult the DHCP client list on the DHCP server of your wireless router or use the discovery tool (HiP2P Client_Setup_v6.0.3.2.exe) and follow the instructions found in the e-ipcam-swhno.zip available on our <ins>website</ins>.   However, if there is no DHCP server available, or if you are connecting the camera directly with your PC without another device in-between, the static default IP address of this camera is 192.168.1.88.

Find using QR Code

The IPC View APP includes a QR code scanner.   Open the IPC View on your smart device, click "+" in the upper right corner to add a device, select the QR Code scanner and point your phone's camera at the QR code on the rear of the E-IPCAM-SWHNO. The QR code will be automatically scanned and the camera will automatically be added.   Click on the camera that was added in the IPC View app and video from the camera will be streamed directly to the smart device.

Sticker on the back of the E-IPCAM-SWHNO

If you change the password, be sure to make note of it.   If you change the password and forget it, reset the camera to default settings.   Press and hold the "Reset" (see page 4) for 10 seconds, then release.

APP Installation for Mobile Access

For Apple devices, download "IPC View" from the APP Store and install.

For Android devices, download "IPC View" from Google Play and install.

Run the "IPC View" and add devices using any of 3 methods:

1. Input the P2P ID (on the back of the camera (see sticker above)), User name, and Password of the camera manually.   Then click "Save"

2. Scan the QR code: Click the "Scan QR Code" button. At the bottom of the camera there is a label with the QR Code. Scan this with a QR scanner on your smart phone. That will then reveal the ID.   Enter the ID, Username and Password. Then click "Save".   (Once the scanner has picked up the QR code, on most phones the software will automatically load the ID, username and password and establish connection to the camera.   You only need to click on the loaded camera in the APP and the video from the camera will be viewed.)

3. Click "Search".   The local camera list will be displayed on your phone. Choose the camera to be viewed, enter the User name and Password. Then click "Save"

Operation from Computer and LAN

1. If you haven't already, open the **OCX_Setup.exe** file.   Follow the prompts to install this software. When it is done, click "Finish".

2. Open the Search Tool application- "**P2P Client**".
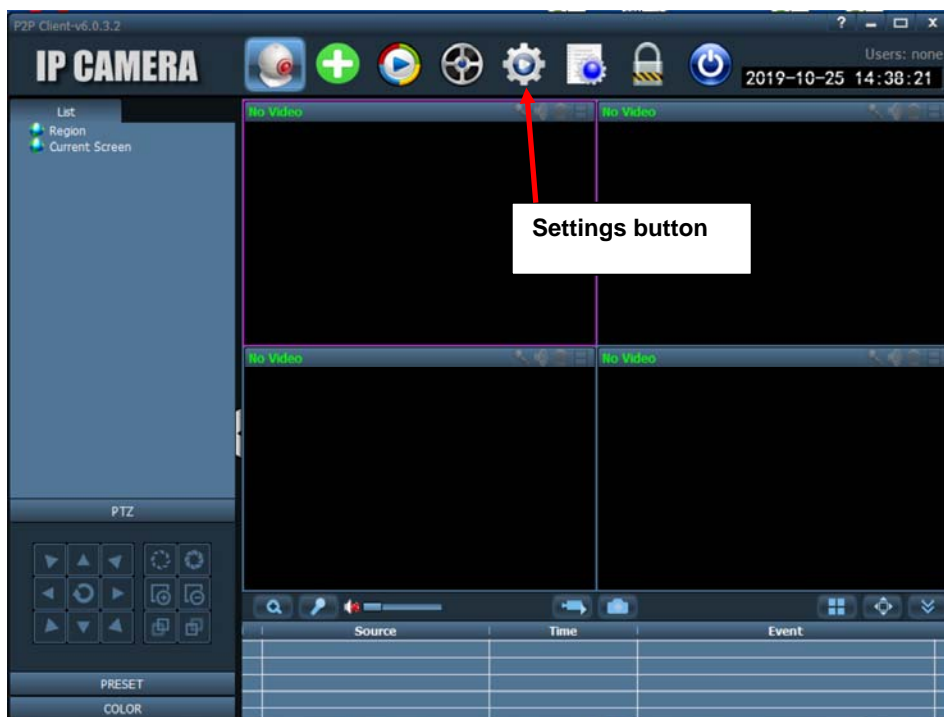
3. Click the Settings button, it will prompt for a password for user admin, just click "OK".   (There is no default password for this.)

4. Place a checkmark in "**Region**" box in the right hand panel.   Then click "**Add Area**" button.   Enter a name for the area and click "**OK**". The area will appear as a subdirectory under "**Region**".
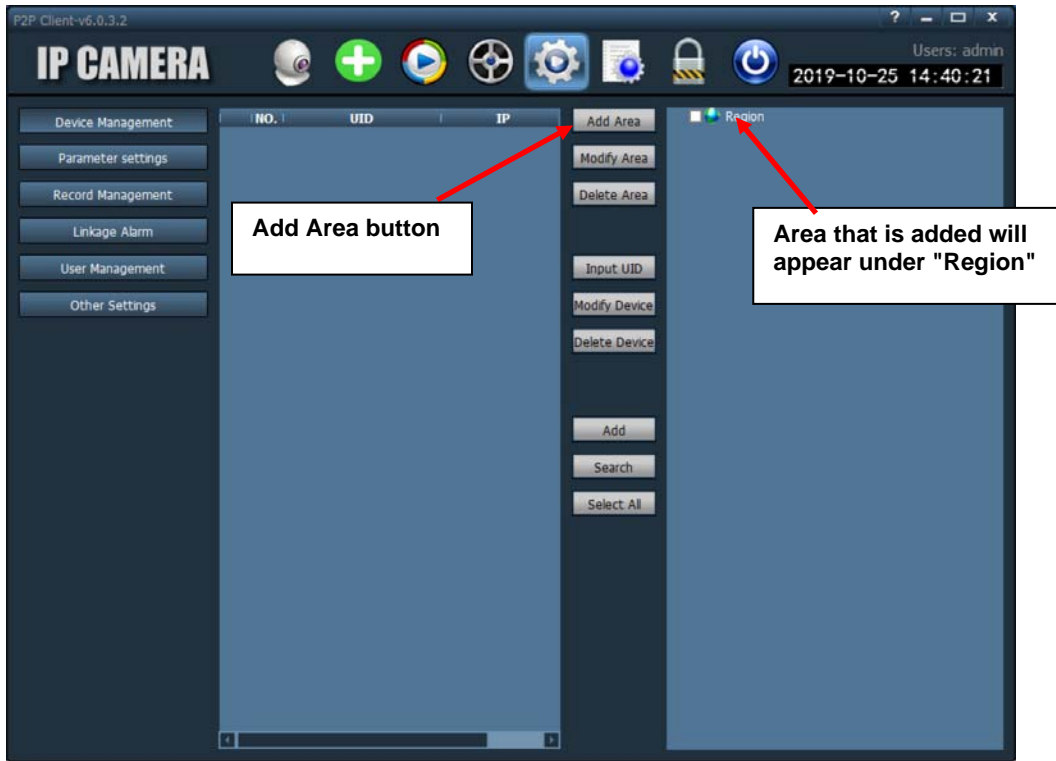
5. Click the "**Search**" button. The local camera IP address and UID will be shown in the Search tool.

6. Place a checkmark in the check box to the left of the camera listed.

7. Click "**Add**".   The camera UID should appear in the list to the right under "**Region**".

8. Make note of the IP address for the camera. (If your camera is directly connected to your PC, or if your router does not have a DHCP server, then the IP address will be 192.168.1.88.

This tool can be used to view video from the camera by selecting the camera icon between "**IP CAMERA**" and the "+" sign.

Note: This is not the software used to configure the camera. For camera configuration, continue with step 9.

9. Open your browser (Internet Explorer 11, Chrome or Firefox), enter the IP Address, and sign into the camera via the web interface.   Login using username "admin" and password "admin".

Note: Internet Explorer 11, Chrome or Firefox can be used for camera management functions, but only Internet Explorer 11 (or later) provides all available management functions.

10. You will be presented with a login selection method.   For this installation, select "Intelligent mode, suitable for IE, Google, Firefox browser".

11. At the next screen you will be prompted to install the plugin to your browser (**use Internet Explorer 11 (or later)) .** Click "Download Plugin" and follow the prompts for installation.

Click here
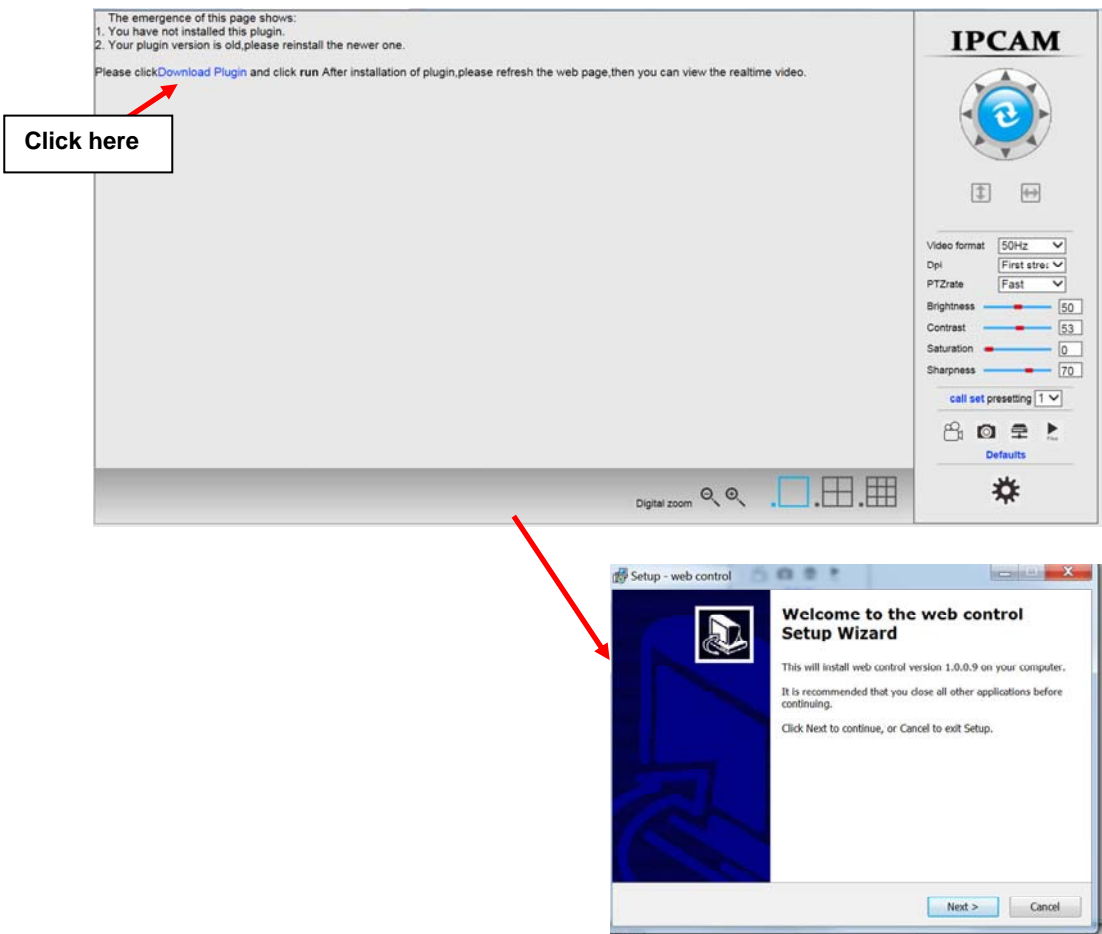
12. Once the plugin is installed, you may need to refresh your connection.   Enter the IP address into the URL bar of the browser again.

You now have access to all internal settings of the camera. Up to 6 users can access this at the same time.

Device information	
Device ID:	IP Camera
P2P ID :	ZZZZ-707474-ECECA
Network Connection Status:	LAN
Current Visitors:	0
Software Version:	V10.6.7.1.2-20170920
Webware Version:	E200.1.29.23
Mac address:	00:AF:A5:39:AC:4F
IP address:	192.168.3.120
Subnet mask:	255.255.255.0
Gateway:	192.168.3.3
Primary DNS:	166.102.165.11
Secondary DNS:	8.8.8.8
Manufacture's DDNS status:	Failed
Third Party DDNS status:	disabled
System Start Time:	2019-10-25 01:49:24
SD Card status:	SD Card Inserted.free space:14972MB total space:14972 Browse SD Card.. Format SD Card as fat32 Stop SD Card

Device information
Time set
Video settings
Audio Settings
Record Settings
Alarm Service Settings
Email
FTP
System Log
Network Settings
Wireless
DDNS Settings
PTZ set
Multiple settings
User Settings
Maintain
ONVIF
Motion detection
Auto Snap
Video mask
Image
Back

Motion Detection, Alarm Service Settings, Multiple Settings, and Video Mask only show up using Internet Explorer 11

Note: If you are using Windows 8 or later, and some of the features in the right column (above) are not present, you probably need to add the IP address of the camera to your PCs compatibility list (see below).

Click the IE browser tools -- Compatibility View settings -- Add this website

Tools	Help	
Delete browsing history...	Ctrl+Shift+Del	
InPrivate Browsing	Ctrl+Shift+P	
Turn on Tracking Protection		
ActiveX Filtering		
Fix connection problems...		
Reopen last browsing session		
Add site to Apps		
View downloads	Ctrl+J	
Pop-up Blocker	▶	
SmartScreen Filter	▶	
Manage media licenses		
Manage add-ons	**1**	
Compatibility View settings		
Subscribe to this feed...		
Feed discovery	▶	
Windows Update		
Performance dashboard	Ctrl+Shift+U	
F12 Developer Tools		
Internet options		

Compatibility View Settings

Change Compatibility View Settings

2

Add this website:

192.168.1.155   Add

Websites you've added to Compatibility View:

192.168.1.120   Remove

☑ Display intranet sites in Compatibility View
☑ Use Microsoft compatibility lists

Learn more by reading the Internet Explorer privacy statement

Close

TROUBLESHOOTING

No AP Signal (for WiFi connection directly to camera)	• Make sure camera is not connected using the Ethernet cable • If necessary, restore camera to defaults- press and hold the "Reset" (see page 4) for 10 seconds, then release. • Battery charge is at less than 30% (charge LED blinks red). Charge battery.
Camera cannot detect WiFi (cannot connect to router's WiFi)	• Check your WiFi connections in your router configuration • If necessary, restore camera to defaults- press and hold the "Reset" (see page 4) for 10 seconds, then release. • Battery charge is at less than 30% (charge LED blinks red). Charge battery.
Camera not working long enough on battery power only	• Make sure both battery panels are connected to the power splitter cable • Make sure battery panels are in the best position to receive sunshine
Video images are monochrome, not color	If there is not enough light present, the camera will automatically switch to monochrome mode.

TECHNICAL SPECIFICATIONS

System	**System Security**	Access password can be used (or omitted).
	OS	Embedded Linux OS
	Processor	Hi3516C+IMX291 Star light sensor
	P2P(Free)	No need to preset camera, Offer free P2P, Plug&play, Supports QR code scanning to view.
	ONVIF Protocol	Supports ONVIF protocol
	PC Browser	Supports 12 language remote surveillance, record, alarm, WiFi setting etc.
	PC client	Supports remote multi-device monitoring, recording, alarm etc.
	Cell Phone View	Self R&D APP, Supports iPhone, Android Smart Phone
	TF Card Record	Built In 16G TF Card, supports max 128G
Lens	**Lens type**	Lens Standard : 6mm
	Magnification	Digital Zoom to 3x
	IR-CUT	Build-in IR CUT, No color cast
Video	**Image Compression**	H.264 Main profile/Baseline profile
	Sensor	1/2.8 2M Starlight CMOS Sensor
	Video Parameters	Brightness, Contrast, Saturation, Exposure, Sharpness can be adjusted
	Image Frame Rate	50Hz: 25fps / 60HZ: 30fps (1920x1080 (default))
	Stream	First Stream: 1920x1080, 1280x720, 640x352
		Second Stream: 1280x960,1280x720, 640x352, 320x176

Solar Power	**Material**	Efficient thin-film solar panels
	Battery	Standby time is 48 hours when batteries are full
Night Vision	**Night Visibility**	100 Meters
	Lux	0.0001LUX(Starlight Level)
Pan/Tilt	**Preset**	None
	Rotation Angle	None
	Rotation Speed	None
Alarm	**Motion Detect**	Supports 4 Independent detection areas (Sensitivity can be adjusted 1-100)
	Alarm Action	Supports Email Photo Alert, Snapshot and Record saved to TF Card
Network	**Ethernet Interface**	One 10/100Mbps RJ45
	Supported Protocol	TCP/IP, HTTP, TCP, ICMP, UDP, ARP, IGMP, SMTP, FTP, DHCP, DNS, DDNS, NTP, UPNP, RTSP, etc.
	Access Protocol	Supports ONVIF protocol
	Online Visitor	Supports up to 6 viewers at the same time (First Stream: 3 viewers; Second Stream: 3 viewers
	IP Mode	Dynamic IP address, static IP address, PPPOE
	Supported OS	Microsoft Win98 SE/ME/2000/XP/Win7/Win8/ Mac OS.
	Browser	IE 11, FireFox, Chrome or other standard browser for most camera management, IE 11 (or later) for full-featured camera management
	AP Function	Support AP connect WIFI
	Wireless Standard	WIFI, 802.11 b/g/n
	Security	Supports authenticated and non-authenticated email, encrypted and non-encrypted
Others	**OSD**	Support the OSD name, date and time info superposition (On/Off)
	Product Type	Metal Bullet, Outdoor waterproof
	Power	100-240VAC 50/60Hz; DC 5V/3A via AC Adapter
	Solar Power	Support Solar Power and Battery (24AH)
	Battery Material	Lithium
	Battery Capacity	2 x 12AH
	Color	Silver
	Working Temperature	-10 ~ 70°C
	Working Humidity	95% RH
	Certification	CE, RoHS

Dimensions-Camera (WxDxH)	7.95 x 4.69 x 2.95 in (202.00 x 119.00 x 75.00 mm)
Dimensions-Solar panel (WxDxH)	14.66 x 10.97 x 0.81 in (372.35 x 278.64 x 20.47 mm)
Weight (Assembled)	6.6 lbs (2993.7 g)

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is one (1) year from the date of purchase. Please contact Video Products Inc at **(800) 626-7801** or **(330) 562-2622** or visit our website at   www.vpi.us   for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

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