



Solar IP Camera System

SLR-B Series Quick Install Guide

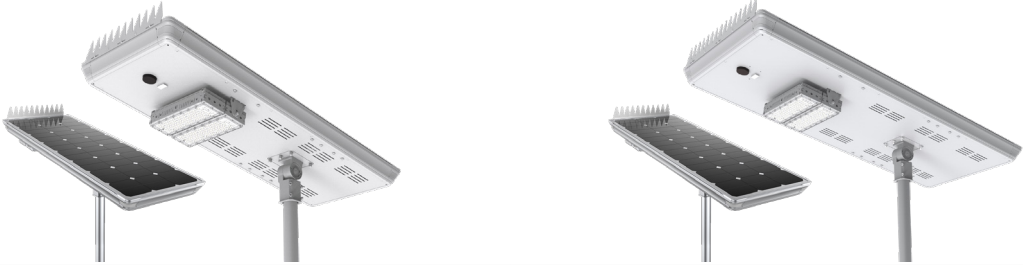





Version: VIPSLRB-Q123

1. Product Information

1.1 Included Components

Thank you for purchasing a VIP Vision Solar Surveillance System.

Below is a list of what is included with the standard Solar Surveillance System. Please note that this can vary, depending on the customization options selected. Please refer to the included configuration sheet for specific product details.

Solar Panel	
Image	
Panel Model	120
Panel Type	120W monocrystalline silicon panel
Conversion Rate	Up to 21% efficiency
Battery	12.8V/500Wh Lithium Iron Phosphate (LiFePO4) w/ Low Voltage Cutoff
Dimensions	1321 x 525 x 161mm
Panel Adjustment	-60° ~ 60° tilt adjustable with angle compass
Ingress Protection	IP65
Wind Resistance	Up to 65m/s
Dimensions	Ø50 ~ 60mm
Area Light	
Light Module	50W LED (3030 Philips), 9400lm (180lm/W)
Light Characteristics	145° x 100° (batwing) beam angle / 5700K cool white / 50,000hrs rated lifespan
Motion Detection	Microwave motion sensor, Ø8 ~ 15m range (at 10m height)
Adjustable Settings	Normal & Morning time periods / Brightness on motion / On-time delay / Brightness after delay
Light Adjustment	-30° ~ +30° tilt adjustable LED module
Camera	
Camera Options	 <p>4.0MP Mini AI PTZ Dome 2.8 ~ 12mm Motorised lens 31.6° ~ 96.9° (4x optical zoom) Pan: 0° ~ 355° / Tilt: 5° ~ 90° IP66 weather resistant IK08 vandal resistant Video analytics (tripwire etc.) Perimeter protection to identify people & vehicles</p>
Connectivity	
Inclusions and Optional Accessories	    <p>Solar CCTV Assembly (included) Mounting kit with backing box and triple-clamp pole mount (pole not incl.)</p> <p>256GB MicroSD (included) 256GB surveillance grade microSD card for footage recording</p> <p>3G/4G LTE Modem Router (option) LTE connectivity up to 150Mbps speeds 4G: FDD 700/900/1800/2100/2600; TDD 2300Mhz *SIM card & service charges not included</p> <p>5.8GHz Wireless Links (option) 2 x 5.8GHz wireless antennas 120° beam width, 25dBi gain Pair configured as network bridge</p>

1.2 Optional Mounting Components

Below are optional mounting components; please contact your supplier for more information.



4.5m Hinged Galvanised Pole
SLR-POL4.5H (Special order)
SLR-POL4.5H3
Includes 1 x Pole



Unassembled Solar Base
SLR-POLBASE
Includes 1 x Base, 4 x Mounting Bolts, 1 x Bolt
Template & 1 x Steel Reinforcement Cage
On-site assembly required
Concrete not included



Assembled Solar Base
SLR-POLCONC
Includes 1 x Base, 4 x Mounting Bolts, 1 x Bolt
Template, 1 x Steel Reinforcement Cage &
Concrete
Assembled off-site

1.3 Solar Panel Information



120W/180W Solar Panel with Motion-Sensing Street Light

This solar panel system is fitted with undervoltage protection, which disconnects the load at approximately 10.8V (SLR-B120) or 21.6V (SLR-B180). If you are not receiving any voltage on the output wires, place the panel in direct sunlight for a minimum of one hour and re-test.

The output will be reconnected automatically when battery voltage reaches approximately 11.5V (SLR-B120) or 23.0V (SLR-B180). For more information on panel configuration, refer to Section 4.

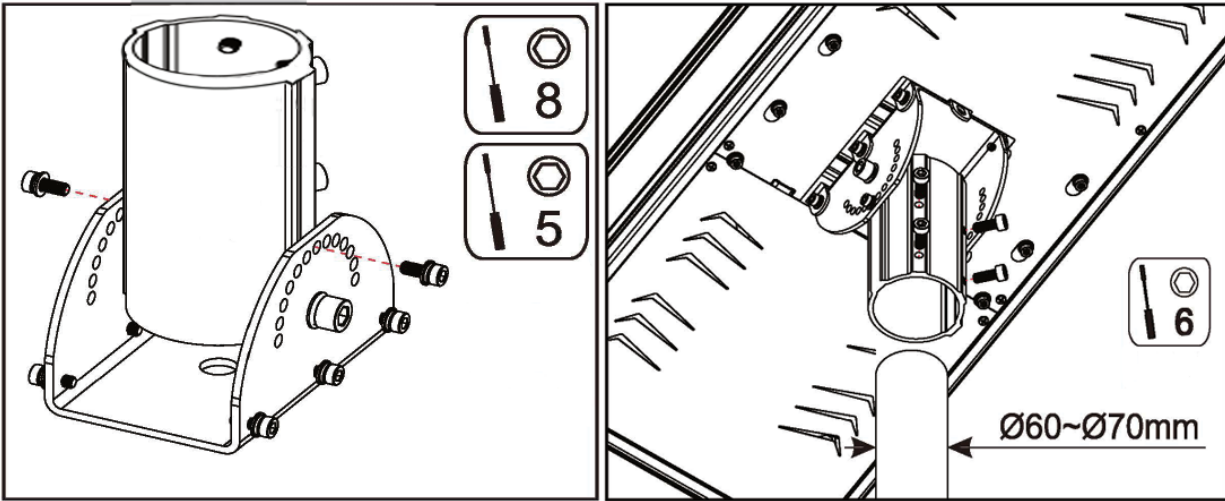
The solar panel must be installed in direct sunlight. Shade will negatively impact performance.

This solar panel includes a motion-activated LED light. For more information, refer to Section 4.

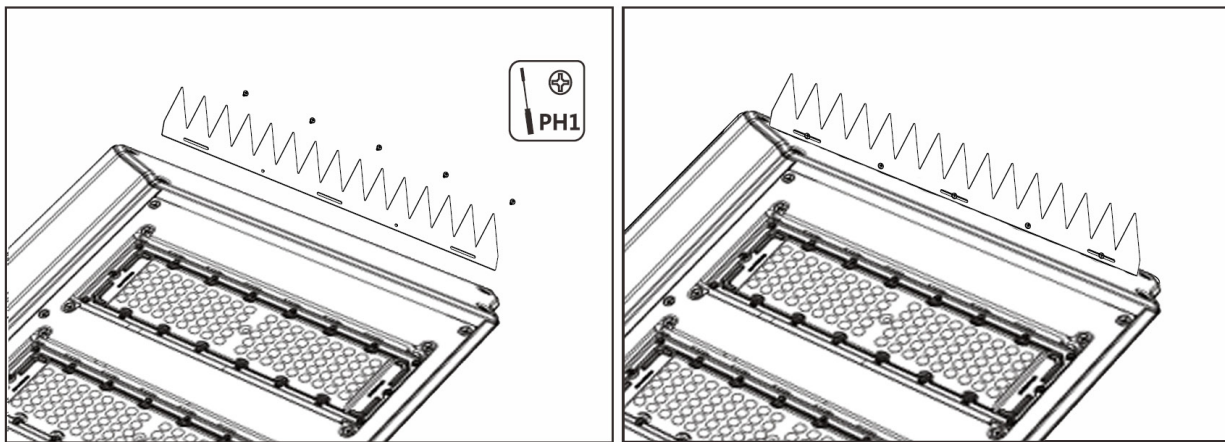
1.3 Solar Panel Information (continued)

Solar Panel Assembly Diagram

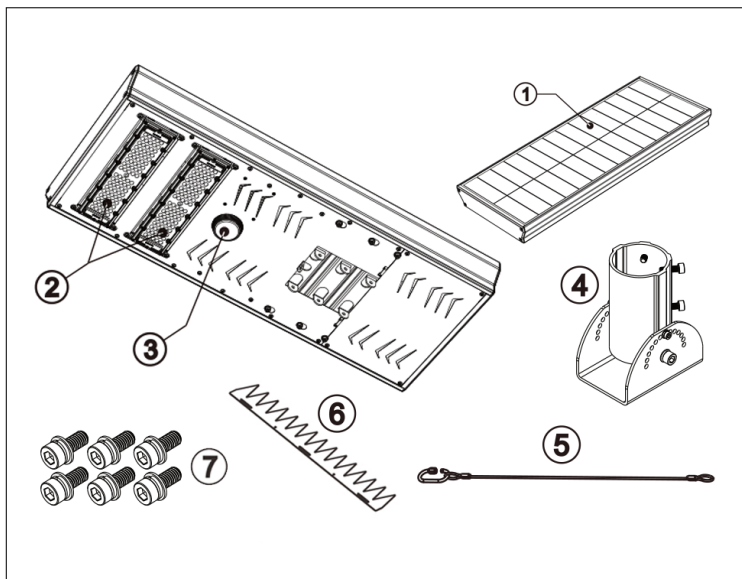
Lamp Arm



Bird Spikes



Accessories



#	Component
1	Solar panel
2	LED light
3	Microwave sensor & RF receiver
4	Lamp arm
5	Safety rope
6	Bird spikes
7	Screws

1.4 Camera Information

The camera has been pre-installed with a 256GB microSD card and has been preconfigured to record at its maximum resolution.

The username and password details for the camera can be found on the configuration sheet inside the junction box. The default username is **admin**.

To prevent unauthorised access, ensure you change the admin password before completing installation.

Default Camera Configuration

Main Stream

Stream Type	General
Encode Type	H.265
Resolution	Camera max
FPS	15
Encoding Method	Constant Bit Rate
Quality	N/A
Bit Rate	1536-8192Kbps
I Frame Interval	30

Sub Stream

Stream Type	General
Encode Type	H.265
Resolution	D1 (704 x 576)
FPS	15
Encoding Method	Variable Bit Rate
Quality	6 (Best)
Bit Rate	512Kbps
I Interval	30

2. Installation

2.1 Installation Prerequisites

It is strongly recommend to have a minimum of two people performing installation of the solar panel, base, and pole.

Required Install Tools: 5mm & 6mm Allen keys for junction box (*included*), 5mm, 6mm & 8mm Allen keys for solar panel, 20mm hole saw, battery drill, phillips screwdriver, flat head screwdriver, lifting equipment, padlock with key, large adjustable spanner.

A laptop with RJ45 network interface is **strongly** recommended for camera setup.

For more information and videos regarding base and pole installation, please visit the below website.

<https://help.c5k.info/solar-installation>



2.2 Installing the Optional Base

Warning: The pre-assembled base weighs approximately 500kg. Specialist lifting equipment is required to move the base. Care must be taken to prevent injury when moving the base.

Pre-Assembled Base:

1. Locate a hard level surface to install the base, ensure that there is easy access for the lifting equipment that will be required, and that it is free from objects that will shade the solar panel, such as trees or buildings.
2. Using lifting equipment, position the base on the ground.



2.2 Installing the Optional Base (continued)

Un-Assembled Base:

1. Locate a hard level surface to install the base, ensure that it is free from objects that will shade the solar panel, such as trees or buildings.
2. Install the reinforcing cage inside the base. Install a washer and nut on each threaded rod on the top side of the base, to secure the cage. (Fig. 2.2a)

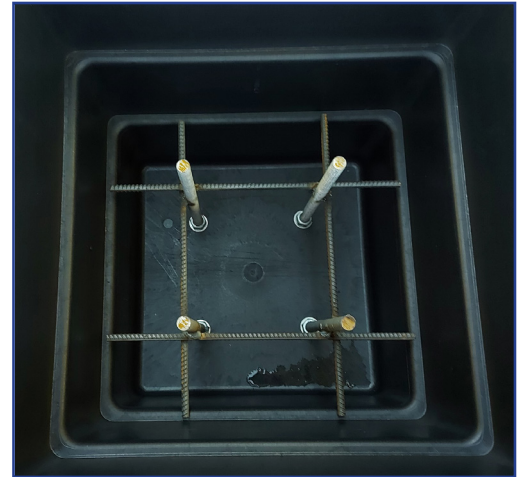


Fig. 2.2a
Cage installed

3. Place the base open side up, on top of a solid object such as concrete besser blocks. (Fig. 2.2b)

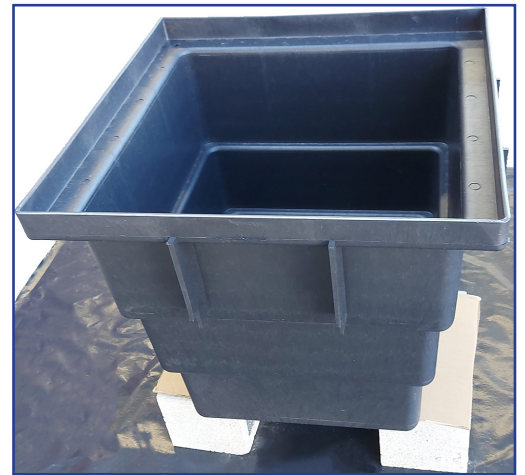


Fig. 2.2b
Base on blocks

4. Mix approx 480kg of concrete, and pour into base. Ensure the concrete that is exposed is level with the top of the base, otherwise the base will not sit level on the ground. (Fig. 2.2c)
5. Allow a minimum of 7 days for the concrete to cure, this can take longer depending on weather conditions.
6. Once the concrete has cured, use suitable lifting equipment to turn the base over



Fig. 2.2c
Concrete curing

2.3 Installing the Optional Tilt Pole

Warning: The tilt pole weighs approximately 100kg. Care must be taken to prevent injury when installing the pole.

1. Attach a lifting sling to the hinged part of the pole.
2. Unhinge the pole and position the pole base over the 4 threaded studs.



Fig. 2.3a
Mounting pole onto concrete base



Fig. 2.3b
Pole fixed onto on concrete base

3. Install the included washers and nuts. Ensure the nuts are fastened securely.
4. Refer to *Section 2.4 - 2.8* to mount the camera and solar panel to the pole. After the steps have been followed continue with the steps below.
5. Using lifting equipment, raise the pole.
6. Once the pole is vertical, secure it into position with the included bolt and nut.
7. Using a padlock, lock the pole.
8. Re-tighten the nuts on the pole base.

2.4 Mounting the Solar Panel to the Pole

Caution: Solar panel **must** be placed so it is in **direct sunlight all day**.

Any shading will greatly reduce the solar panel's performance.

1. Drill an 20mm hole in the pole (minimum 15cm down from the top of the pole) on the same side that the camera will be mounted.

This is for the solar panel cable and plug to run through. The position of the hole will vary depending on what position on the pole the camera is to be mounted. If using the optional tilt pole, this hole will be pre-drilled,

2. Feed the power cable and plug connected to your solar panel through the hole.
 3. Place the solar panel bracket on top of the pole, pointing north.
- **Note:** If you need to cover a different area with the light beam, keep the panel flat after repositioning.



Fig. 2.4a
Solar panel power cable hole location

4. Securely fasten the included grub screws to the bracket. Tighten the locking bolts to prevent the grub screws from loosening. (*Fig. 2.4b*)
- **Note:** For poles greater than 4m in height, tapered poles are preferable for camera stability and pole strength.

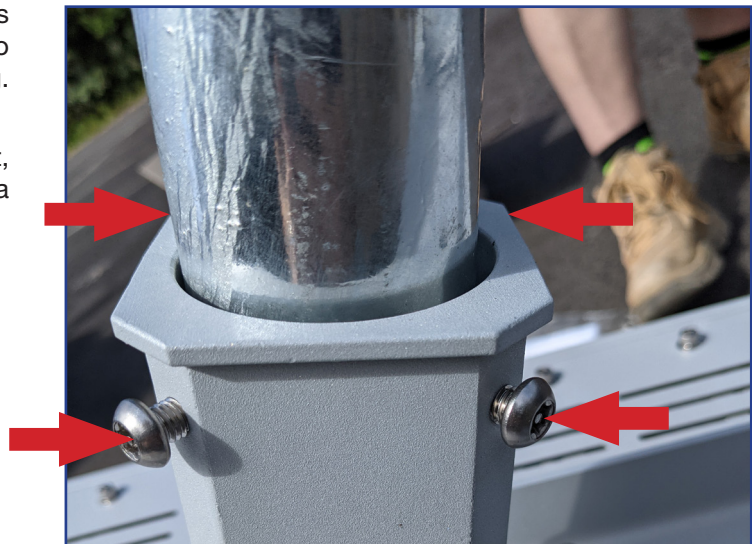


Fig. 2.4b
Installed grub screws

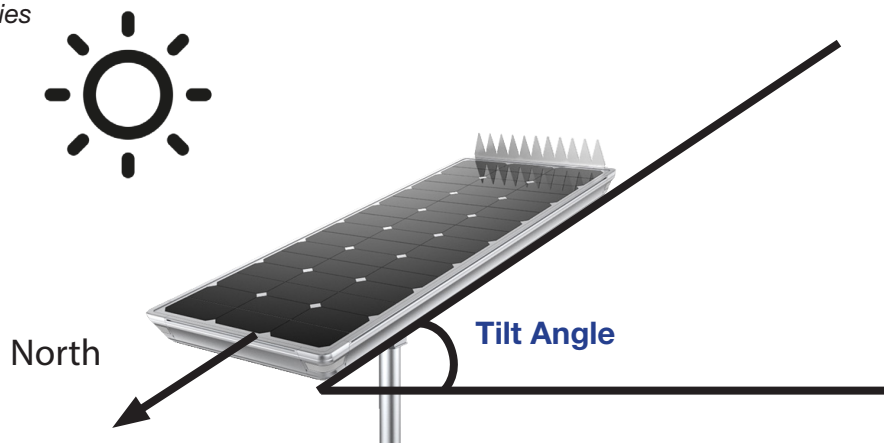
2.5 Adjusting the Solar Panel Angle

To ensure your solar panel absorbs as much light as possible, it's important to adjust the solar panel angle.

For Australia and all locations in the southern hemisphere, the lower edge of the solar panel must point **north**. Locations in the northern hemisphere must have the lower edge of the panel pointing **south**.

City	Angle	
Adelaide	55°	We recommend adjusting the solar panel to a tilt angle that is optimised for winter. This is to achieve better light absorption in winter and a consistent amount of light absorption year-round.
Brisbane	48°	
Darwin	10°	The formula for calculating the optimal winter tilt is (Latitude x 0.89)+24 , when the latitude is above 25°, or Latitude x 0.87 if the latitude is less than 25°. Refer to Fig 2.5a for the optimal Winter Tilts for Australian Capital Cities.
Perth	52°	
Tasmania	61°	For example Sydney has a latitude of 33.8688° S, therefore the panel should be tilted directly north with an angle of 54° (33.8 x 0.89 = 30, then 30 + 24 = 54°)
Sydney	54°	
Victoria	56°	<p>If you are unable to use the optimal winter tilt or it is impractical to tilt the panel north, (e.g due to using the light on the solar panel), set a tilt angle of 5° and rotate the unit to the best lighting position. Note that this will reduce charging performance, which may reduce operating time.</p>

Fig. 2.5a
Optimal Winter Tilts for
Australian Capital Cities



How to adjust tilt angle:

1. Use a 5mm Allen Key to remove the two panel adjustment bolts. (Fig. 2.5b). **Warning: The panel will freely move after the bolts are removed.**
2. Once the the bolts are removed, tilt the panel to the desired angle. Replace the bolts after adjusting the angle to secure the solar panel in place.
3. Use a 8mm Allen Key to tighten the large bolts above the angle adjustment bolts.



Fig. 2.5a
Solar panel angle bolt

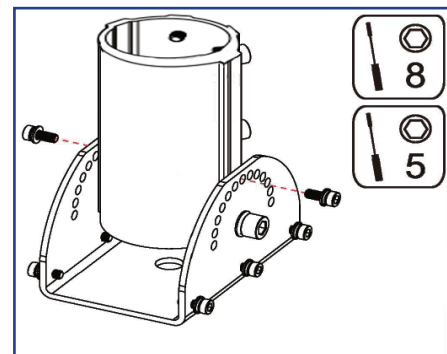


Fig. 2.5b
Solar panel angle adjustment

2.6 Camera Mounting & Wiring

1. Open the junction box by loosening the 4 screws, and loosen the 2 screws (*Fig. 2.6a*), holding on the junction box mounting plate and pole bracket (*Fig. 2.6b*).
2. Mount the junction box mounting plate and pole bracket onto the pole using 3 included band clamps (*Fig. 2.6c*).

Note: The 3 included band clamps are 65-89mm for poles 50-60mm in diameter. If installing on a thicker pole (eg. 80-150mm), larger band clamps will be required.



Fig. 2.6a
Mounted pole bracket (front)



Fig. 2.6b
Mounted pole bracket (front)



Fig. 2.6c
Mounted pole bracket (back)

2.7 Camera Mounting & Wiring (continued)

3. Reinstall the junction box to the junction box mounting plate, and securely fasten the 2 screws. Leave the junction box open.
4. If using a 4G solar kit, insert an active Micro SIM card into the SIM card slot in the modem. (Fig 2.7a)
If using a Wi-Fi solar kit, mount the wireless antenna to the pole with the included mounting hardware, and attach the ethernet cable. (Fig 2.7b)



Fig. 2.7a
4G router overview



Fig. 2.7b
Wifi antenna mounted

5. Attach the waterproof plug from the solar panel side, to the camera side.
6. Close the junction box and securely fasten the 4 bolts (Fig. 2.7c).



Fig. 2.7c
Camera and junction box

2.8 Reconnect Battery

The Solar Light is shipped with the battery disconnected from the system.

To activate the Solar Light, this battery must first be reconnected. To reconnect:

1. Remove the “Battery Disconnected” sticker. (Fig 2.8a)
2. Find the two cables labeled “Battery”. (Fig 2.8b)
3. Taking note of the cable key, connect the two cables. (Fig 2.8c)
4. Twist the waterproof locking connector until tight. (Fig 2.8d)
5. Install the solar panel connection cover, included in the solar panel accessory bag. (Fig 2.8e)

Once the battery is connected, a red LED will flash slowly inside the black sensor on the solar panel. If the battery is connected correctly and this does not occur, this likely indicates low battery voltage - place the system in direct sunlight for at least 1 hour to charge before continuing.



Fig. 2.8a



Fig. 2.8b



Fig. 2.8c



Fig. 2.8d

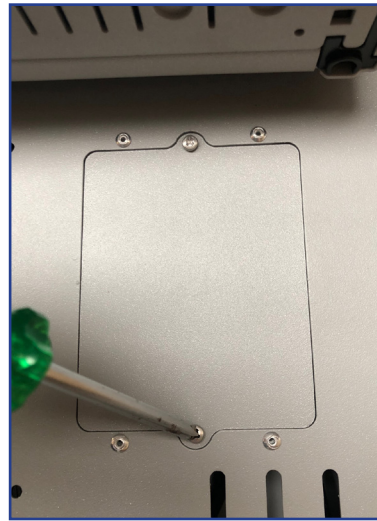


Fig. 2.8e

3. Wi-Fi (Applies to SLR-B120/180-4W Only)

3.1 Connect using WiFi

This section covers how to set up the Access Point side of WiFi network for your WiFi Solar Surveillance Kit. **Note:** The station side of the wireless bridge should already be mounted under the solar panel.

1. Ensure the Ethernet cable is connected between the camera and the wireless bridge (station), as per section 2.6.
2. Mount the other side of the wireless bridge (access point) on the building, facing towards the station on the solar panel.
3. The access point can be powered by connecting the AP's network port to the included PoE injector, then connect the injector to a network switch and power supply.
4. (Optional) Connect the network switch to an NVR (The camera includes a microSD card for edge recording).
5. (Optional) Connect the network switch to a router, to be able to remotely access the NVR.



4. Camera Remote Access

4.1 QR Code Remote Access Setup (4G)

Internet access is required for remote access setup.

1. Install the free mobile application (**DMSS**) from the App Store for iOS or Play Store for Android.
2. Open the **DMSS** app you have installed on your device and select the “+” icon
3. Select **SN/Scan**. (Fig. 4.1a)
4. Use your mobile device to scan the **QR code** (refer to configuration sheet inside junction box). (Fig. 4.1b) Make sure the app is permitted to access your phone’s camera. Alternatively, select **Manually Enter SN** and enter the serial number of the camera.
5. Select **Wired Camera**. (Fig 4.1c)
6. Enter a **Device Name** for the camera. This name is for reference only.
7. Enter the default username **admin** and password (refer to configuration sheet inside junction box). For extra security, be sure to change these details before completing installation.
8. Select **Save** (Fig. 4.1d), if the details are correct, the camera will display a live image

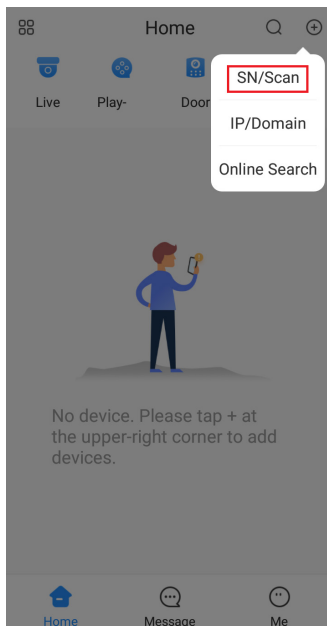


Fig. 4.1a
Main Menu



Fig. 4.1b
Camera details

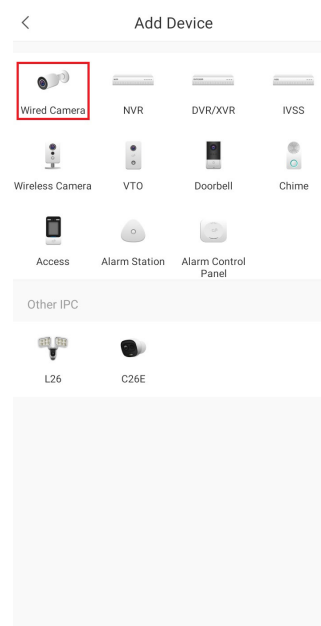


Fig. 4.1c
Device Type

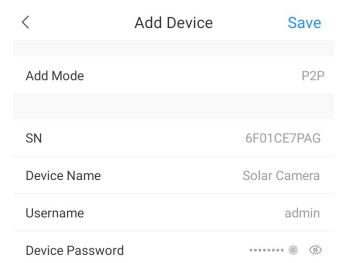


Fig. 4.1d
Camera Details

4.2 Adjusting Stream Settings

You can choose between using Main or Sub stream when Live Viewing on the mobile application. (Fig. 3.2d) Main displays a higher quality stream but uses up more data and can take longer to load, while Sub consumes less data and bandwidth but has lower image quality. When using Playback, ensure that Playback is set to Main. If set to Extra, the screen will be black. This is because the camera has been preset to only record the Main stream to the microSD card.

1. Open the application and go the home screen and select the 3 dots “...” next to the device. (Fig 4.2a)
2. Select **Device Details** (Fig 4.2b), then **Stream Settings**. (Fig 4.2c)
3. Adjust the stream settings, Set **Live** to **Sub**, and **Playback** to **Main**. (Fig 4.2d)

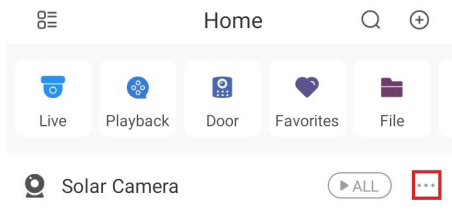


Fig. 4.2a
Home Screen

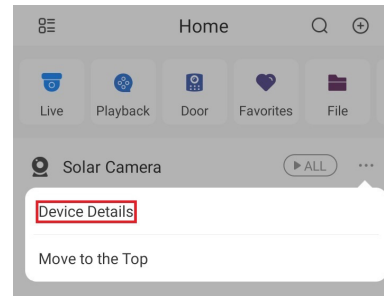


Fig. 4.2b
Device Details

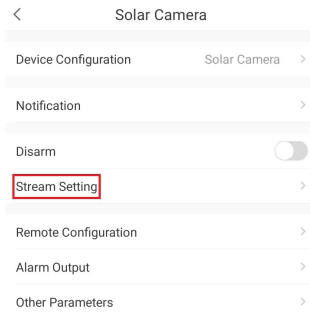


Fig. 4.2c
Device Details

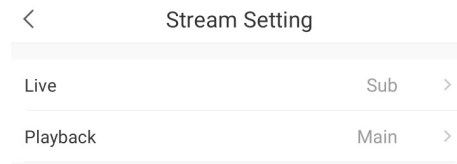


Fig. 4.2d
Stream Settings

4.3 Additional Camera Configuration

For more information regarding camera setup and use, please visit:

<https://help.c5k.info/solar-camera-setup>



5. Solar Panel, Sensor & Light Configuration

5.1 Solar Remote Introduction

This section covers how to set up the motion-activated 50W (SLR-B120) or 60W (SLR-B180) LED light on the solar panel. Our example will show you how to configure your solar panel & light with the remote control, showing you how to configure the light to activate after motion is detected at night.

Warning: Modification to the LED light and sensor default values may increase power consumption, affect light uptime and more.

Incorrectly editing settings can permanently damage the solar panel, battery and/or LED light. Performing changes to contrary to those in this guide may cause damage to the panel not covered under warranty.

All configuration of the solar panel & LED street light is performed with the included RF remote. The remote interacts with the panel's RF receiver to control settings (the dark circle on the underside of the panel).

The remote control allows you to adjust solar panel, battery & sensor settings and then transmit them to apply the configuration to the solar system. See initial menu options and button functions below:



Fig. 5.1a
Solar panel remote control

Remote Control Button Functions

	Set	Press to edit values, then press again to confirm changes.
	+	Press to scroll down or decrease value.
	-	Press to scroll down or increase value.
	Send	Press to transmit parameters to the control board.
	Test	Press to test the light module. Toggle between 100%, 70%, 50%, 30% and 0% brightness.
	Status	Press to check the current status of the control board.
	Parameters	Press to read the current values set on the control board.
	ON	Press to allow the control board & Light to function at night time.
	OFF	Press to set the control board & light to enter sleep mode at night time. Warning: If this is pressed, the remote will not communicate with the control board at night time. Press ON during daylight hours to fix this.

When using the remote to communicate with the panel, the remote will display an icon in the top right corner (Fig 5.1b) to indicate the current send state (Sending, Send Succeeded, Send Failed). Three beeps indicate that the remote was unable to communicate with the panel. A long single beep indicates that the communication was successful.

Sending	Send succeeded	Send failed

Fig. 5.1b
Remote Send States Solar Surveillance Installation Manual - Version: VIPSLRB-Q123

5.2 Settings Detail

Each Solar Light has default factory settings for light configuration and battery configuration. Below are the functions of each setting in the **ValueSet** menu and the solar system default settings. Before adjusting solar panel and light settings, familiarise yourself with the setting definitions below.

Note: Modification to the LED light and sensor will increase power consumption and reduce battery power available for the system.

Incorrectly editing settings can permanently damage the solar panel, battery and/or LED light. Only edit power settings exactly as outlined in this guide. Please contact your place of purchase for more information.

Name	Remote Title	Description	Settings	Default Settings
Battery Type	BatType	Type of battery installed in the solar panel	Li 24 / Li12 / Li6 / Li3 / Lead	Must use Li12 for SLR-B120 and Li24 for SLR-B180 DO NOT change this parameter
Sensing Delay	S-D-Time	Countdown timer after last detected motion where light output stays at Light Ratio setting before switching to Idle Ratio setting. <i>See the next page for more details.</i>	No / 1S ~ 60S / 2M ~ 60M	All Models: No
PV Wake Up	PV-Wake	TBA	Yes / No	All Models: Yes
Light Control Voltage	L-Con-V	The solar panel acts as an ambient light sensor. Once the solar panel voltage drops below the Light Control Voltage , the first Time Period/Light Ratio will begin after Light Control Delay has elapsed.	1 ~ 11V	All Models: 5V
Light Control Delay	L-Con-DT	The amount of time that must elapse after the solar panel voltage drops below the Light Control Voltage before the first Time Period/Light Ratio will begin.	5S ~60S / 2M ~ 60M	All Models: 60S
Over Discharge Voltage	Over-DV	Battery cut-off voltage. When the battery voltage falls below this value, output will be disabled.	2.0V ~ 17.0V	All Models: 11.5V DO NOT change this parameter
Over Discharge Recovery	Over-DRV	Minimum voltage for the battery to start. Battery output is enabled or resumed from cut-off when battery voltage is above this value.	2.0V ~ 17.0V	All Models: 12.5V DO NOT change this parameter
Charge Voltage	Chg-Volt	Battery overcharge voltage. To protect the battery from overcharging, the battery stops charging when it is above this voltage.	2.0V ~ 17.0V	All Models: 14.4V DO NOT change this parameter
Charge Recovery	Chg-CR-V	When the battery level falls below this value, the battery will resume charging.	9.00V ~ 25.00V	All Models: 13.8V DO NOT change this parameter
Low Temp Change	Cold Chg	Low temperature cutoff	0°C ~ -40°V	All Models: -35°
Low Temp Work	Heatwork	High temperature cutoff	40°C ~ 90°V	All Models: 65°
Load Current	LED-Cur	Set the constant current output level.	0.14A ~ 10.0A	All Models: 0.3A
Power Saving	SmartPow	When turned on, the battery will adjust power output automatically to save energy.	High / Mid / Small / No / USE	All Models: USE
Derating Start Value	S-M-StaV	Voltage where the control board will begin to reduce the power output from Load Current to Minimum Current to save energy.	7.5V ~ 17.0V	All Models: 12.6
Derating End Value	S-M-EndV	Voltage where the control board will have reduced the power output to Minimum Current to save energy.	7.5V ~ 17.0V	All Models: 11.6
Minimum Current	Min-Cur	The minimum constant current output level		All Models: 0.1A
Load Parameters	LoadPowSet	Enter the Load Parameters section. <i>See the next page for more details.</i>	-	-
Factory Reset	Re-deflt	Reset remote back to factory parameters.	Yes / No	All Models: No

5.2 Settings Detail cont.

Load Parameters

The Load Parameters section will change depending on how **Sensing Delay** is configured. The first **Time Period** begins once sunset has been detected via **Light Control Voltage**. The second Time Period begins once the first Time Period has elapsed.

If **Sensing delay** is set to **No** the light will be **Time Control** mode. In Time Control Mode the light you can set the **Time Period** (1st-9thTime) and **Light Ratio** (1st-9thPower) to determine the light brightness for designated time periods.

If **Sensing Delay** is set to a second or minute value (e.g 20S), the light will be in **Sense Mode**. In Sense Mode you can set the **Time Period** (STime1-9), **Light Ratio** (S-C-Pow1-9) and **Idle Ratio** (S-L-Pow1-9) to determine the light brightness when movement is detected (**Light Ratio**) and the light brightness when motion has stopped being detected and Sensing Delay has elapsed (**Idle Ratio**).








Time Control Mode

Name	Remote Title	Description	Settings	Default Settings
(Time) Time Period	1st-9thTime	User-programmable light on/off schedule. Maximum 15 hours for each setting. Time intervals begin once the sun has set.	00.00 ~ 15.00	All Models: 1st-9thTime: 0.00
(Time) Light Ratio	1st-9thPower	Set light output (%).	0% ~ 100%	All Models: 1st-9thPower: 0%
(Time) Morning Light Time	MorTime	The time period the light will be on for during daylight hours.	00.00 ~ 15.00	All Models: 0.00
(Time) Morning Light Ratio	MorPower	Set light output (%) during the Morning Light Time period	0% ~ 100%	All Models: 0%

Sense Control Mode

Name	Remote Title	Description	Settings	Default Settings
(Sense) Time Period	STime1-9	User-programmable light on/off schedule. Maximum 15 hours for each setting. Time intervals begin once the sun has set.	00.00 ~ 15.00	All Models: S-Time1-9: 0.00
(Sense) Light Ratio	S-C-Pow1-9	Set light output (%) for when movement is detected.	0% ~ 100%	All Models: S-C-Pow1-9: 0%
(Sense) Idle Ratio	S-L-Pow1-9	Set light output (%) after last detected movement and after Sensing Delay has elapsed.	0% ~ 100%	All Models: S-L-Pow1-9: 0%
(Sense) Morning Light Time	MorTime	The time period the light will be on for during daylight hours.	00.00 ~ 15.00	All Models: 0.00
(Sense) Morning Light Ratio	S-C-Pow	Set light output (%) for when movement is detected during the Morning Light Time period	0% ~ 100%	All Models: 0%
(Sense) Morning Light Idle Ratio	S-L-Pow	Set light output (%) after last detected movement and after Sensing Delay has elapsed during the Morning Light Time period	0% ~ 100%	All Models: 0%

5.3 Change LED Light Settings

1. Point the remote control at the solar panel's black sensor and scroll to the **Load Pow Set** (Load Parameters) and press  **Set** to enter the system configuration menu.
 - Use  and  to scroll.
 - Press  **Set** to begin editing values. The value will be shown in reverse colour.
 - Use  and  to change the value.
 - Press  **Set** again to confirm.

Note: The remote will power off automatically if no key is pressed for 3 minutes.

Nine periods of time can be set to turn on the solar panel LED light. These periods can be set with a min. of 0 and max. of 15 hours. (9 hours by default - refer to 5.2 Settings Detail)

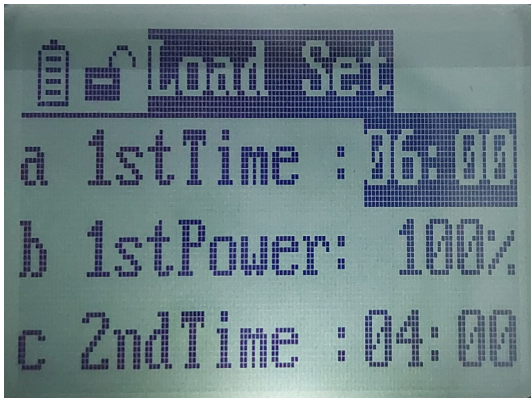


Fig. 5.4a
Time activated light settings

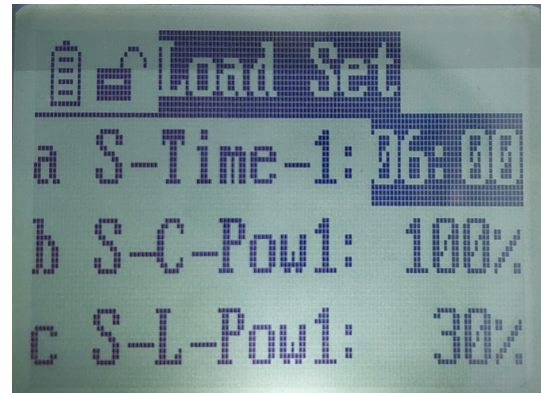



Fig. 5.4b
Sense activated light settings

2. Point the remote control at the solar panel's black sensor and press  **Send Key** to update the solar panel with your new configuration. If you hear a long beep, the configuration settings are transmitted successfully.

5.4 Disable LED Light

To disable the LED light, simply change the **Sensing Delay** to **No**. Then set each time period to 0 hours, and each light ratio to 10%.

5.5 Lock/Unlock the Remote Control

After setup has been completed, you can lock the remote control to prevent settings from being accidentally changed, or changed by somebody else.

To Lock/Unlock the remote control, press the  **Off** and  **+** buttons together for three seconds.

When the remote gives two short beeps, the remote is now locked. Repeat these steps to unlock the remote.

5.6 Remote Control Type Selection



If the remote has been reset via the Factory Reset option, the Remote Control Type will need to be reconfigured before it can communicate with the panel.

Press the  and  buttons together for three seconds to open the **Remote Control Settings** (RemotSet) page.

Set **CommType** to **RF** and **RF-Dst** to **10**. **Cur-Pasw** should be **0000**. If it has been changed, use the **Chg-Pasw** option

5.7 Check Solar Panel Status

Current Run State

To check the solar panel's **current** state press  **status**, (or press and hold  **status** for three seconds and select **RunState**) This will show info such as photovoltaic voltage, battery voltage, output voltage, current and power, temperature and total operating time in minutes and more.

Name	Remote Title	Description
System State	SysState	On connecting to the panel, the Solar Panel Status can be in 3 states.
		DCHG: When the Solar Light is on
		FULL: When the Solar Panel is fully charged
		CHG: When the Solar Panel is charging
		OV-D: When the system is below Over Discharge Voltage
		L-OPN: when the remote hasn't connected or the system is above Charge Voltage
Battery Voltage	BatVolt	Battery voltage as measured by the charge controller output.
Photovoltaic Voltage	PV-Volt	Solar panel voltage as measured by the charge controller input.
Charge Current	Chg-C	Current being supplied to the battery.
Charge Power	Chg-P	Power being supplied to the battery.
Charge Time	Chg-AH	Ah charged during this session.
Load Voltage	LoadVol	Voltage being supplied to the LED light.
Load Current	LoadCurr	Current being supplied to the LED light.
Load Power	Load-P	Power being supplied to the LED light.
Lighting-up Time	Light-T	Total running uptime of the Solar Light, measured in hours & minutes.
Sensing Time	Sensor-T	Total running time the sensor has detected movement, measured in hours & minutes.
Discharge Ah	DisC-AH	Ah discharged during this session.
Ambient Temperature	Temp	Temperature inside the Solar Light.
Running days	RunDays	Total running uptime of the Solar Panel, measured in hours & minutes.

6. Troubleshooting

Problem	Troubleshooting
Cannot connect to camera remotely	<ul style="list-style-type: none">• Ensure a SIM card is installed that is activated, and has data remaining on it. (4G Models)• Ensure solar panel is charged, and there is power to the modem and camera
Camera only recording during daylight hours	<ul style="list-style-type: none">• Check camera schedule settings• Ensure solar panel charge settings are correct• Ensure there is no objects shading the solar panel, such as trees• Ensure the solar panel is clean
No communication to solar panel remote control Send failed from solar panel remote control	<ul style="list-style-type: none">• Move remote closer to solar panel sensor• Ensure the RemoteSet Page is configured correctly. <i>Refer to 5.6 Remote Control Type Selection</i>
Camera login details incorrect	<ul style="list-style-type: none">• Contact your supplier for assistance
Unable to playback footage	<ul style="list-style-type: none">• Ensure that the playback type is set to Main. (Section 4.2)• Ensure the recording schedule is setup correctly• Ensure an SD card is installed in the camera, by checking with Smart PSS



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Note:

All products, designs and software here are subject to change without prior written notice.