

# ECO INDUSTRIAL SUPPLIES

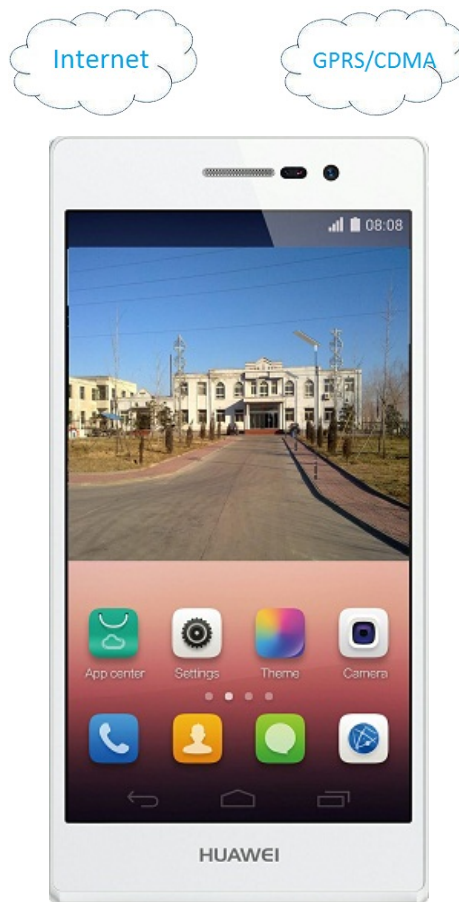
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## Instruction Manual

Intelligent monitoring solar led street light with HD camera by remote online control

(Model: SNF306 with integrated solar panel)



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## APPLICATIONS

SNF306 is powered by integrated solar panel and built-in lithium iron phosphate battery, and has PIR sensor, HD camera with WiFi and intelligent controller.

SNF306 series of intelligent monitoring solar led street lights are widely used as lighting and remote security monitoring by WiFi and internet online in urban roads, local roads, rural roads, factory roads, public garden, residential area, villa and private residence, car parking, shopping center, etc., and it can also video and store what happened on the site under the light in built-in TF card which is help for providing the direct evidences for the investigation of the truth of the incidents by police department.

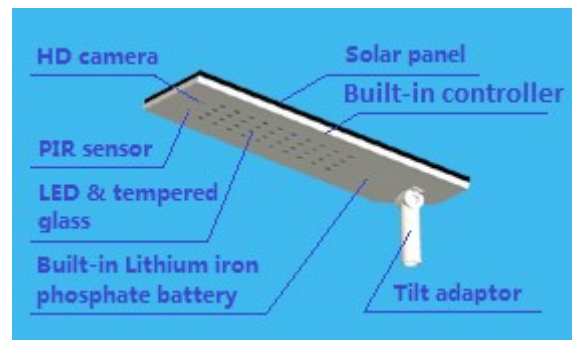


## PRODUCT PHOTOS



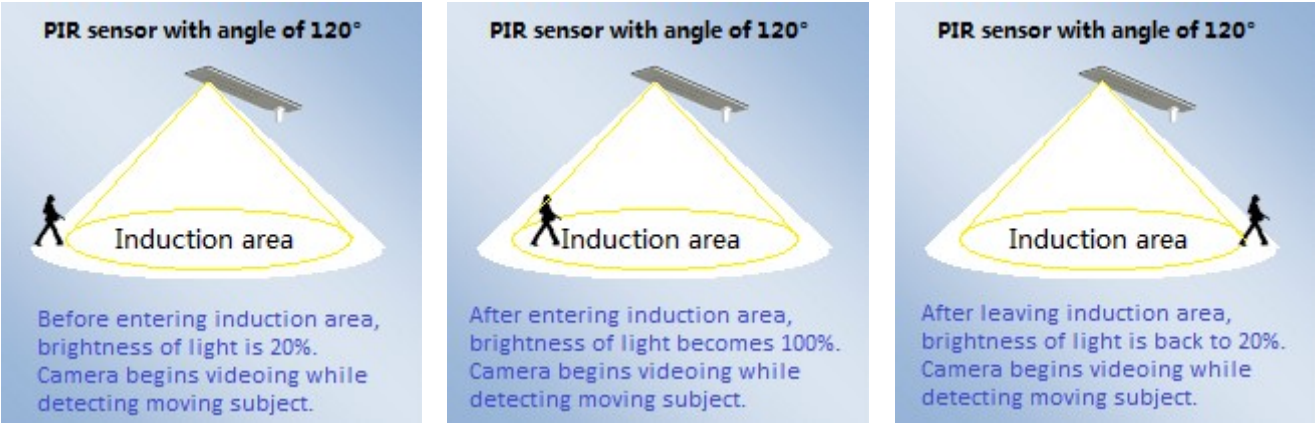
## MAIN FEATURES

- Integrated HD camera which doesn't need to lay fiber optic cable and broadband wire, can automatically record a video of the situations on the site under the light and store video data in built-in TF card.
- By integrated camera with WiFi connecting with wireless router, internet or 3G/4G SIM card, the monitor screen can be seen online at any time and the stored video data can be downloaded from TF card remotely in monitoring center by APP of mobile phone or computer.
- PIR infrared motion sensor, automatically dimming the brightness of light to save more energy.
- Built-in lithium iron phosphate battery with more than 3000 cycles and more than 8 years' lifespan.
- Built-in TF card with capacity of 32G, it can store video data about half a month and cover the most front data by cycle video automatically when it is full of storage data.
- Integrated monocrystalline silicon solar panel has high charging efficiency which can reach more than 75% and can save a lot of cost of laying cables.
- The tilt of light can be adjusted from -90° to +90°.
- IP protection: IP65



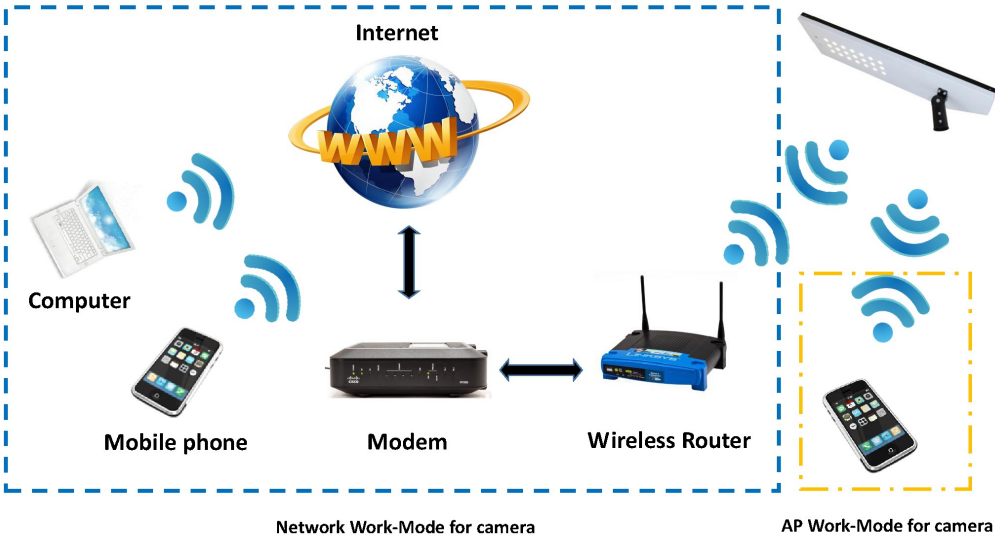
SNF306 with integrated solar panel

# SCHEMATIC DIAGRAM OF INDUCTION

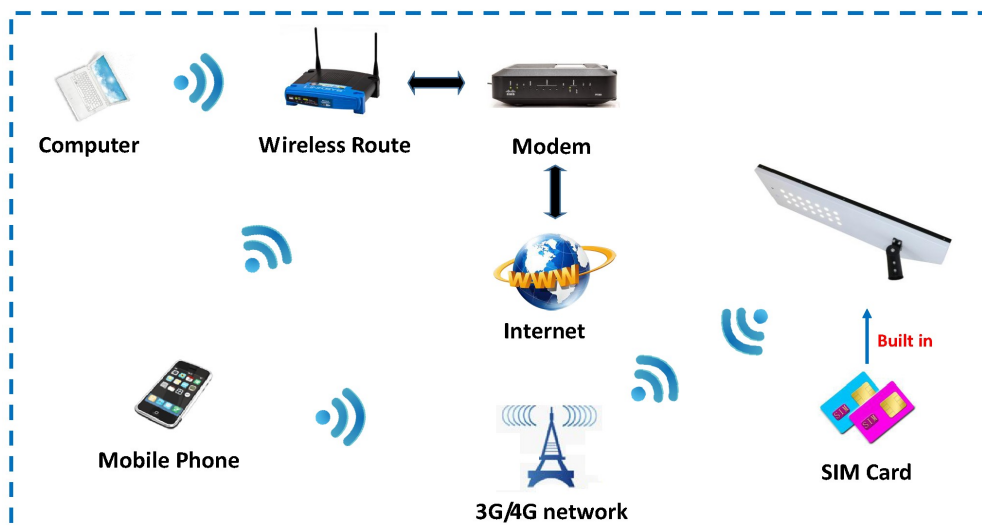


# WORKING MODE FOR CAMERA

1. WiFi remote network work-mode and WiFi AP work-mode



2. SIM card remote network work-mode



SIM network work-mode for camera

## MAIN TECHNICAL PARAMETERS

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Model and Power	SNF306-15W	SNF306-20W
Total power of led chips (W)	15	20
Brand of led chips	Bridgelux	Bridgelux
Luminous efficiency (lm/W @350mA)	130	130
Total luminous flux (lm)	1950	2600
Light efficiency of luminaire (lm/W)	105-110	105-110
Beam angle (°)	120°	120°
Correlated color temperature (K)	3000-6500	3000-6500
Color Rendering Index (Ra)	75	75
Period of operational hours (h)	≥50000	≥50000
Type of solar battery	Lithium iron phosphate	Lithium iron phosphate
Specification of solar battery	12.8V18Ah	12.8V24Ah
Cycle life of battery (cycle)	≥3000	≥3000
Dimming of brightness of luminaire	20% (PIR not activated) /100% (PIR activated)	20% (PIR not activated) /100% (PIR activated)
Passive infrared detector (PIR)	Yes	Yes
PIR induction angle (°)	120°	120°
Type of integrated solar panel	Monocrystalline silicon	Monocrystalline silicon
Power of separated solar panel (W)	18V30Wp	18V40Wp
High definition video	960P	960P
TF card capacity (G)	32G	32G
Stored days of data (d)	15	15
Angle of camera lens (°)	90°	90°
Operation time of camera (hrs/d)	24	24
Video format	Avi	Avi
Communication mode for remote monitor	WiFi/Internet/GPRS/CDMA	WiFi/Internet/GPRS/CDMA
Monitoring mode	Remote online monitor/AP mode	Remote online monitor/AP mode
Operating control mode	APP of mobile phone/computer	APP of mobile phone/computer
Operating system of mobile	IOS system/Android system	IOS system/Android system
Working temperature (°C)	-20~+55°C	-20~+55°C

IP protection	IP65	IP65
Dimensions (mm)	970*356*50	980*356*50
Weight (Kg)	10	12.5
Installation (mm)	Φ 60	Φ 60
Recommended installation height (m)	2.5-3.5	3.5-4.5
Working time per day (h)	10-11	10-11
Average effective sunshine time (hrs per day)	5	5
Continuous rainy days (d)	3	3

Note: 1. Lithium ion battery can be optional.

2. SIM network mode can be custom-made.

3. Power more than 30W can be custom-made.

Model and Power	SNF306-30W	SNF306-45W
Total power of led chips (W)	30	45
Brand of led chips	Bridgelux	Bridgelux
Luminous efficiency (lm/W @350mA)	130	130
Total luminous flux (lm)	3900	5850
Light efficiency of luminaire (lm/W)	105-110	105-110
Beam angle (°)	120°	120°
Correlated color temperature (K)	3000-6500	3000-6500
Color Rendering Index (Ra)	75	75
Period of operational hours (h)	≥50000	≥50000
Type of solar battery	Lithium iron phosphate	Lithium iron phosphate
Specification of solar battery	12.8V30Ah	12.8V36Ah
Cycle life of battery (cycle)	≥3000	≥3000
Dimming of brightness of luminaire	20% (PIR not activated) /100% (PIR activated)	20% (PIR not activated) /100% (PIR activated)
Passive infrared detector (PIR)	Yes	Yes
PIR induction angle (°)	120°	120°
Type of integrated solar panel	Monocrystalline silicon	Monocrystalline silicon
Power of separated solar panel (W)	18V55Wp	18V75Wp
High definition video	960P	960P
TF card capacity (G)	32G	32G
Stored days of data (d)	15	15
Angle of camera lens (°)	90°	90°
Operation time of camera (hrs/d)	24	24
Video format	Avi	Avi
Communication mode for remote monitor	WiFi/Internet/GPRS/CDMA	WiFi/Internet/GPRS/CDMA
Monitoring mode	Remote online monitor/AP mode	Remote online monitor/AP mode
Operating control mode	APP of mobile phone/computer	APP of mobile phone/computer
Operating system of mobile	IOS system/Android system	IOS system/Android system
Working temperature (°C)	-20~+55°C	-20~+55°C
IP protection	IP65	IP65

Dimensions (mm)	1100*356*50	1200*356*50
Weight (Kg)	14	18
Installation (mm)	Φ 60	Φ 60
Recommended installation height (m)	4.5-6	6-7
Working time per day (h)	10-11	10-11
Average effective sunshine time (hrs per day)	5	5
Continuous rainy days (d)	3	3


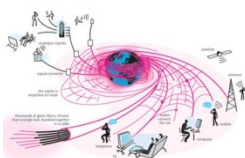





Note: 1. Lithium ion battery can be optional.

2. SIM network mode can be custom-made.

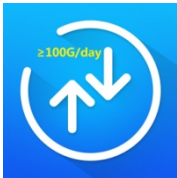

3. Power more than 30W can be custom-made.

## COMPARISON WITH CCTV MONITOR

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 <p>SNF306 intelligent monitoring integrated solar led street light by 960P HD camera with wifi</p>	No need	<p>Communication optical cable</p> 	Need	 <p>CCTV monitor camera</p>
	No need	<p>Electric power cable</p> 	Need	
	No need	<p>Monitoring center</p> 	Need	
	No need	<p>Monitoring system storage room</p> 	Need	
	Yes	<p>Cryptic camera</p> 	No	
	Zero flow /Zero	<p>Communication flow and cost</p>	Large flow /High cost	



	charge			
	≥15 days	Video data storage time 	≥30 days	

## SETUP AND OPERATION

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### STEP 1:

According to operating system of mobile phone or computer, download corresponding application software in mobile phone or computer.

### STEP 2:

Install application software in mobile phone or computer according to corresponding tips.

### STEP 3:

Run application software in mobile phone or computer and enter the interface of equipment management.

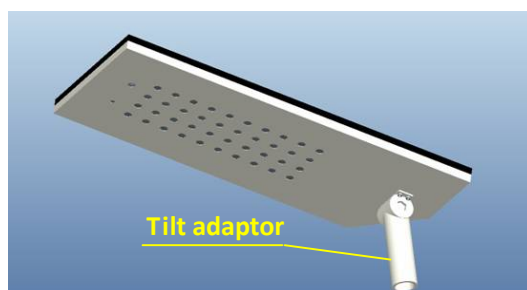
### STEP 4:

Select manual addition, and then input equipment name, ID number of equipment, network port, user, password and channel, and then click "confirmation".

### STEP 5:

Enter operation interface, see monitor screen and carry out corresponding operations.

## INSTALLATION MODES



## WARRANTY

Our company provides 3 years' warranty (not including TF card and SIM card). We will offer free parts within the period of warranty if light has any failure under normal use and correct installation.

## PRECAUTIONS

- The main technical parameters are suitable for our standard factory products. Different sunshine radiation, working time per day, car and person flow, and tilt of angle of light will have influence on discharging time or brightness of light and working time. Please select the suitable product model and configurations according to the local sunshine radiation and the annual total radiation.
- Please mounting the light and the lamp pole in the place with plenty of sunlight and adjusting the suitable angle of light for accepting the most sunlight.
- The suitable working temperature for lithium iron phosphate battery is  $-15^{\circ}\text{C} \sim +60^{\circ}\text{C}$ , low temperature and high temperature will affect the charge and discharge current and efficiency, working time, the life of battery and even damage the battery. Please check your local extreme temperature while selecting products or communicating with us.
- Please download the required video data asap if needed.
- Battery must be charged and discharged for one or two cycles in half a year to extend battery life if not used long time.
- While installed in Northern Hemisphere, please make sure the surface of solar panel to be facing the South to collect maximum sunshine radiation. While installed in Southern Hemisphere, please make sure the surface of solar panel to be facing the North to collect maximum sunshine radiation. At the same time, please keep it 6' from any shadow of houses, trees, etc.
- Keep the surface of solar panel clear in order to collect maximum sunshine radiation.
- Because the sunshine time and sunshine direction are much different due to different seasons, different weather and temperature in different regions, the work efficiency of the solar panel, charging and discharging efficiency of battery will be much different. Therefore, the brightness and working time of luminaire will exist certain difference, this is a normal phenomenon.

## CONTACT US

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