



SW-02 All sky imager camera for steadyEye

Plug & Play
Reliable (-40°C / +85°C)
Field proven service

Description

Designed by **steadysun**, the SW-02 sky imager is bundled to the **steadyEye** very short term solar power production forecasting service. The SW-02 sky imager takes pictures up to every minute. The images are sent to Steadysun's FTP server. Solar power forecast for the next hour is generated in quasi real-time and forwarded to the customer's IT/SCADA system. This plug & play device, PoE powered, operates in any climatic conditions.



Features

- > Easy plug & Play setup
- > Real time
- > Firmware update via USB
- > High precision
- > 360° view of images
- > WAN or Standalone operation
- > Cover 4km²



Specifications

Physical characteristics	Weight: ca.3,5 kg Diam.: 13,6 cm Height: 20,6 cm
Power Supply	Power over Ethernet / 48 VDC
Consumption	12 W
Hemispherical shots	360°
Communication	FTP and NTP client – 0.25 Mbps upload
Controller	Remote
Protection	Dome / Mist proof / Watertight / UV resistant
Pictures	1 image per minute / JPEG / 1 M pixels
Accuracy required when installing	Horizontal 1° Azimuth 5°
Temperature range	Operation from -40° to + 85°C
Warranty	12 months

Accessories

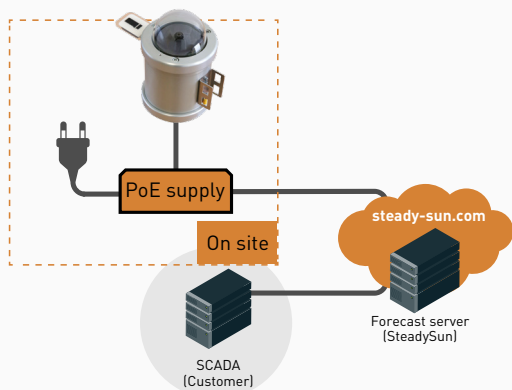
Protective cap / Protection Dome / LAN Cable / Mounting ring /

Features

- > Supporting IT environment and stand-alone systems
- > Remote device configuration
- > Reduced maintenance costs
- > Integrated forecasting solution equipment and service
- > Daily remote control to update learning machine process and models
- > Local processing & forecast production
- > Perfect for On-grid, Off-grid, Storage, Hybrid and Smart grid systems

WAN configuration

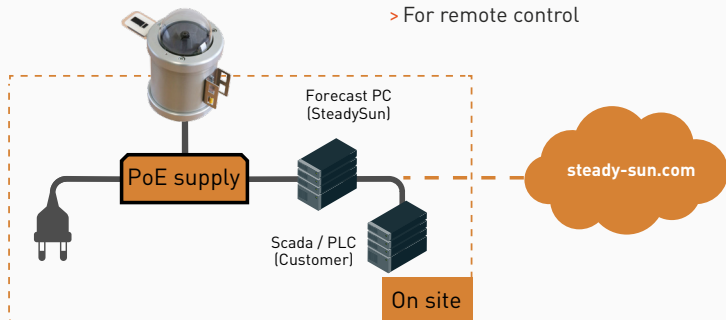
(permanent internet connection – upload 0.25 Mbps)



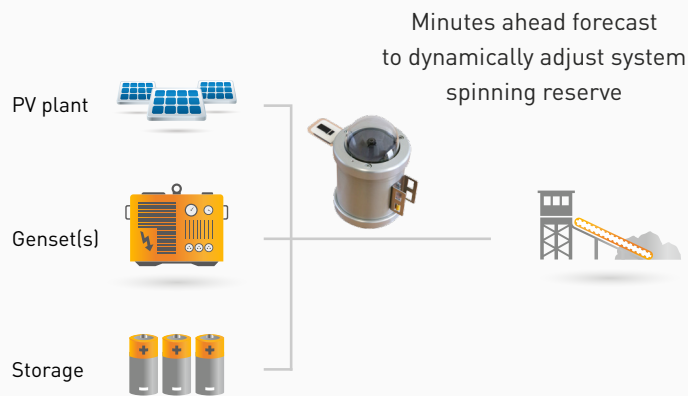
System diagrams

Stand-alone configuration (without permanent internet connection)

- > Upload: data production & aggregated forecasts
- > Download: updated software & models
- > For remote control



An example of application



Implementing

- > Configuration phase: defining procedures for data exchange: SFTP, Modbus, Email, ...
- > Camera setup (Plug & play)
- > Production phase: provision of solar power forecasting files
- > Remote support, Support & Hotline: 7 days a week

Key benefits

- > Anticipate power drops
- > Reduce hybrid plant operation costs
- > Facilitate balancing of power grids
- > Improve Off-grid energy system operation
- > Increase PV share in energy mix
- > Integrate more efficiently solar power into non interconnected grid

To Whom

- > Distribution system operators
- > Hybrid system managers
- > Off-grid site managers
- > Solar power plants operators
- > Smartgrid and VPP supervisors