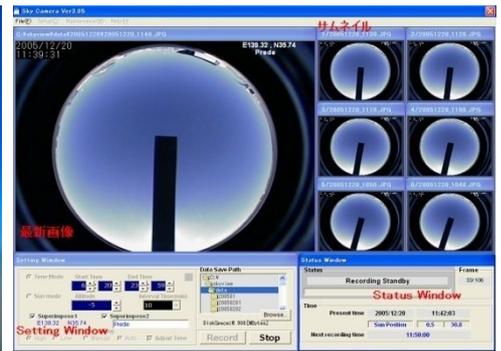


SKYVIEW PSV-100 W2

PREDE



With Option



An Image of Software

[General]

PSV-100W2 Skyview all-sky camera shoot the images of the sky in every scheduled period of the time and it automatically stores the images to the PC as JPEG files. Shading blade automatically follows the path of the sun and blocks the direct sun light all the time, based on the information of the latitude and longitude, preliminary configured into the software, in order to prevent the direct solar beam on the camera.

Followings are the images of the all-sky condition shot by PSV-100W2.



Upside=North, downside=South, Left=East, Right=West. (File size = approx. 80KB)

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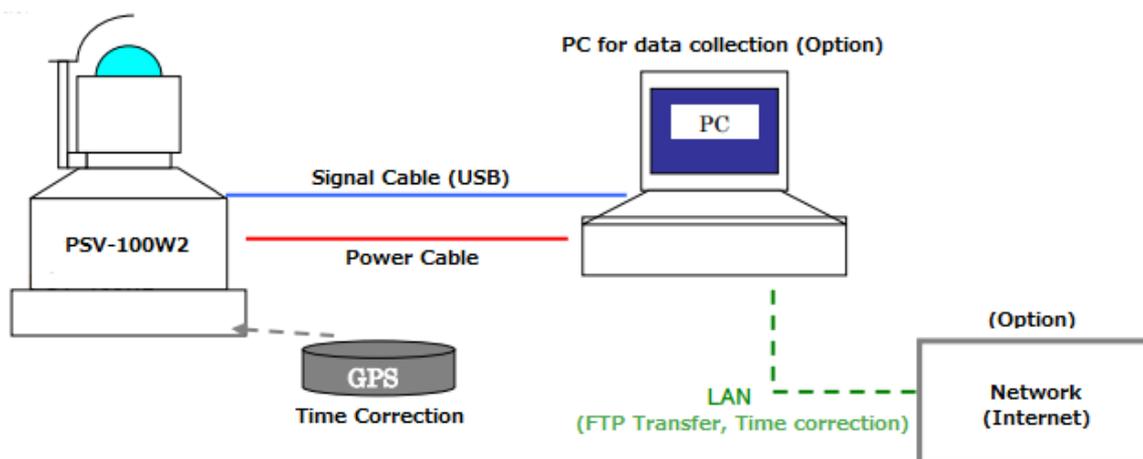
[Specification]

| Tracking unit part | | Camera unit part | |
|--|--|----------------------|--|
| Tracking method | Automatic calculation of the sun position by the internal micro computer | Lens Focal distance | F1.4~3.1(mm) |
| Driving method | 5 aspect stepping motor | Lens Diaphragm range | F1.4~Close |
| Azimuth angle | +/- 180 degree (South = 0 degree) | Lens angle of view | 180 degrees |
| Controller | Control board (H8 Micro Computer) | Projection method | $y=1.24 \cdot f \cdot \sin(\theta/1.24)$ |
| Tracking accuracy of the shading blade | Approx. 0.36 degrees | Lens mount | CS |
| Interface | Images (USB), GPS (Serial) | Image sensor | CMOS(e2v) |
| Operating Temperature range | -10 to + 40 degC | Valid pixels | 1600(H) × 1200(V) |
| Weight | Approx. 10kg | Sensor size | 1/18" |
| | | Interface | USB |
| | | Power (Voltage) | USB(DC5V) |
| | | Weight | Approx. 1.5kg |
| GPS | Automatic setting of time, latitude and longitude of tracking unit | | |
| Power | 100 to 240 VAC | | |
| Power consumption | <200W | | |
| Total weight | Approx. 11.5kg (Not including cables) | | |
| Cable | | | |
| Power Cable | 20m (3 core 2.0 m ²) Cable extension = option | | |
| Control signal cable | 20m (3 core 0.3 m ²) Cable extension = option | | |
| Option | | | |
| Ventilation fan | PO-159 (For the Frost prevention) 24VDC | | |
| Heater | PO-160 (20 to 30W) | | |

PC : PC with Windows OS

| | |
|--------------------|---|
| OS | : Windows-7 (32bit) (Windows Vista is not compatible) |
| Memory | : >1GB |
| Free Space in HDD | : >10GB |
| Monitor resolution | : 1024 x 768 dots (XGA) |
| Display color | : >16Bit color |
| Serial port | : 1 port (9600bps) for the maintenance purpose only. |

[Configuration]



[Software]

- Configure the Start time/end time/recording period, Storing directly, switching of auto/manual mode.
- Display of Latest image, retrieval of previously stored images.
- Thumbnail display of last 6 images.
- Indication of the remaining storage capacity.
- File name, data and time (Hour:minutes) will be automatically created.

Additional features can be added to the software on demand

i.e.1: Additional meteorological data on the images such as temperature and humidity.

i.e.2: Transferring image data through FTP server.