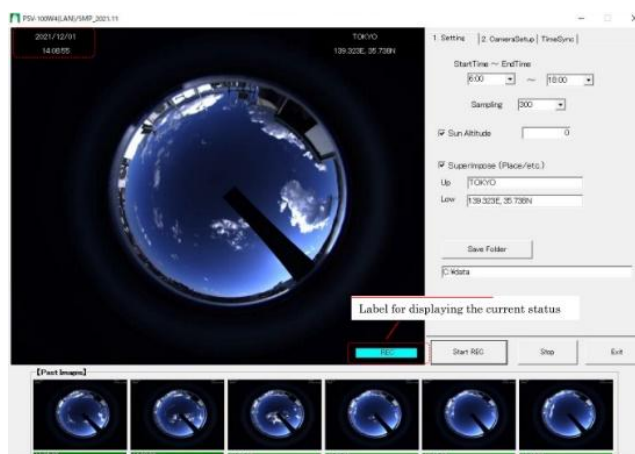# Sky View Camera

PSV-50

PREDE

PSV-50

Dedicated software image

[Overview]

This device consists of an all-sky camera unit and sun shading device.

The all-sky camera unit and shading device are housed in a housing, and glass dome is attached to the top of the housing, allowing images of the sky to be taken.

The shading device automatically obtains the date, time, and latitude and longitude of the installation location using the built-in GPS, and moves automatically according to the date and time to block sunlight.

This device is connected to a computer via a LAN cable (powered by PoE), and using dedicated software, it takes pictures of the sky at regular intervals and saves them in JPEG format.

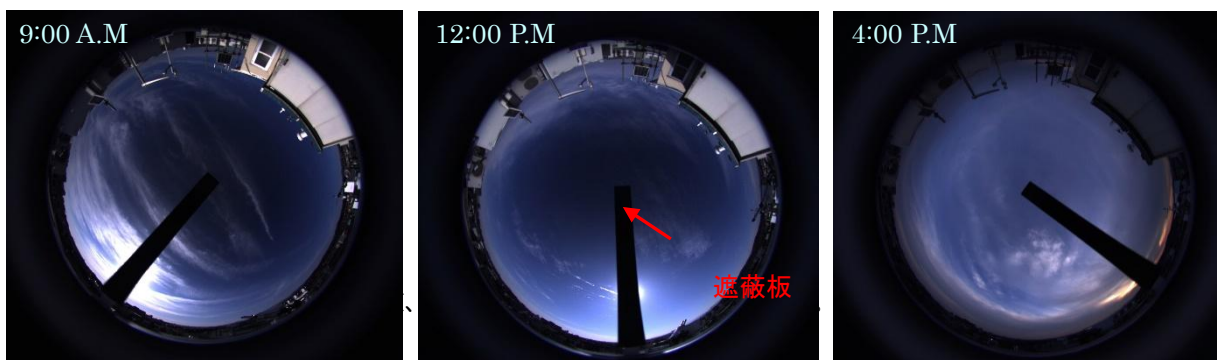The image below is a sky image taken with this device (reference image).

9:00 A.M

12:00 P.M

遮蔽板

4:00 P.M

Image: Top → North, Bottom → South, Right → West (File size: approx. 1.8MB)

Prede Co., Ltd.

Design of Precision = PREDE!!

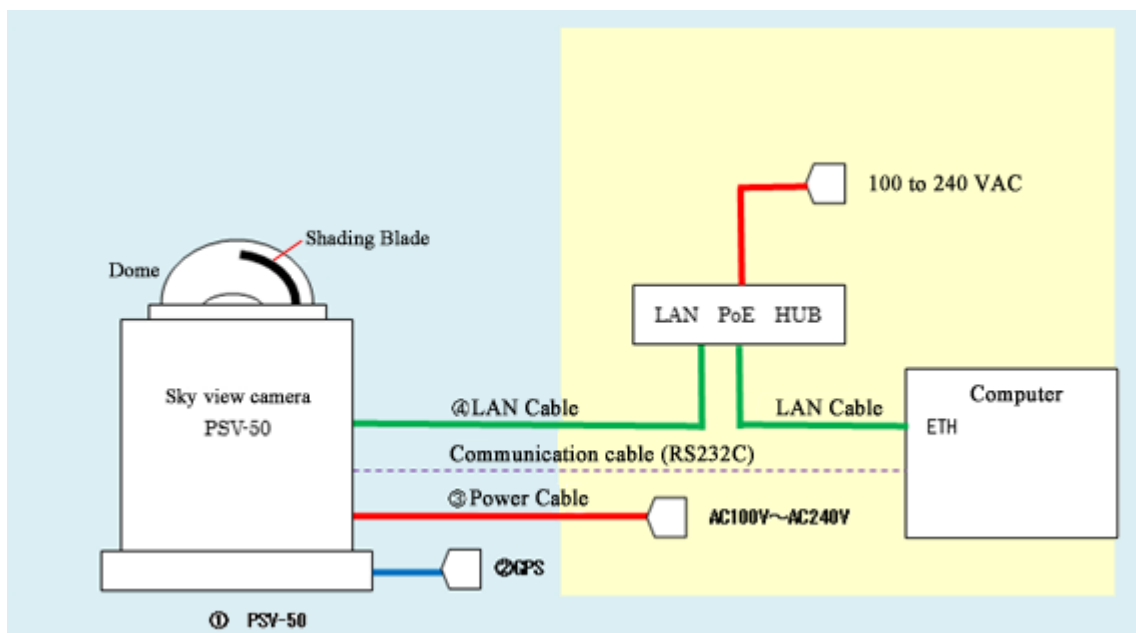|	
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Institute of Technology	**: Sasamoto Bldg. 1-26-8 Kamidaira, Fussashi, 197-0802, Japan**

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[Specification]

Shading Unit		Camera Unit	
Shading method	Built-in microcomputer Automatically calculates the Position of the sun	Lens focal length	F1.4
Drive system	5-phase stepping motor	Lens aperture	Open
Azimuth angle	±180 degrees (south = 0 degrees.)	Lens angle of view	Approx. 180 degrees
Controller	Control board (H8 microcomputer)	Lens mount	C
Shading blade tracking accuracy	Approx. ±0.36 degrees	Image sensor	CMOS (e2v)
Interface	LAN (image), serial (GPS), power supply	Effective pixels (h x v)	2,456 x 2,054
Operating Temperature Range	-10 to +40° C	Size of sensor	1/2"
		Resolution/Pixels	5 megapixels
		Interface	LAN
		power supply	PoE power supply
		Weight	Approx. 1.5kg
Whole system			
Power	100 to 240VAC		
Power consumption	Less than 200W		
Weight	Approx. 6.5kg (Not including the cable))		
Cable			
Power cable	20m (3-core 2.0mm2) Extension available as an option		
LAN cable	20m Optional extension available		
Serial Cable	3m for maintenance (not normally used)		
Specification of the PC, for the measurement *PC is not included with the device.			
P C	PC (Windows OS)		
O S	Windows 10, 64bit		
Memory	More than 4.0GB (8.0GB or more recommended)		
HDD free space	More than 100GB		
Monitor resolution	1024 x 768 dots (XGA) or higher, 16-bit color or higher		
Notes	Do not use a PC screen saver. Do not run other applications at the same time.		

[System Configuration]

[Software function]

・Recording start time, end time, recording interval (minutes), save folder, brightness of acquired image, gamma correction settings

・Display of the latest image data, thumbnail display of previously recorded image data (last 6 images)

・Image file names are automatically created from the date and time (hours and minutes).