



EKO INSTRUMENTS Europe B.V.

## SRF-02 ALL SKY CAMERA + FIND CLOUDS SOFTWARE.

### Cloud cover fraction and cloud analysis.

Clear full hemispheric pictures of the sky even under direct sun light conditions. Including cloud analysis and control software.

The All-Sky Camera is a fully automatic imaging system capturing pictures of the total, hemispheric sky. The image processing software automatically calculates the cloud cover fraction. The camera can also be used to monitor the solar position and to detect potential shading obstacles at a PV site.

Through its sophisticated cloud detection algorithm and horizon definition tools, the All-Sky camera can be used as a research tool for weather and cloud observations, to differentiate thin and thick clouds. Those features are included in the standard analysis software.



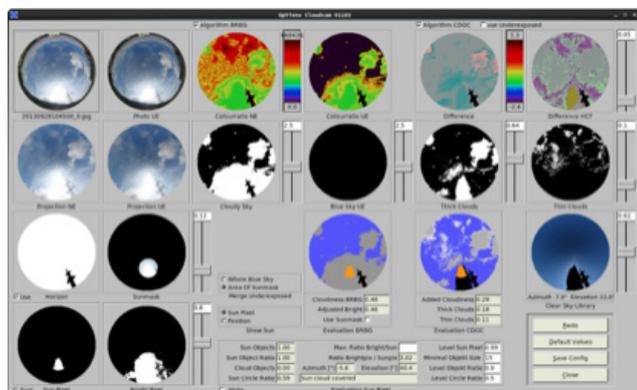
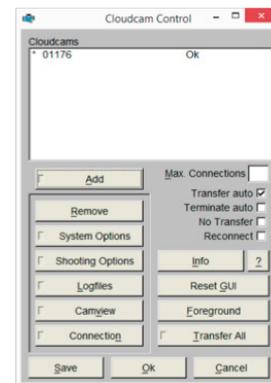
# SRF-02 ALL SKY CAMERA + FIND CLOUDS SOFTWARE

Cloud cover fraction and cloud analysis.

**Features:**

- Clear images under full sun-light
- Automatic exposure function
- Multiple image capturing
- Determine cloud cover fraction
- Advance cloud analysis software (Thin / Thick clouds analysis)

The All-Sky Camera consists of a digital colour camera with a 2 megapixel resolution. The high-quality lens system with a 2π / 180° field of view is protected by a glass dome and a weatherproof housing. Sky images are captured either with automated exposure times or manually defined settings. In auto-exposure operation, the pictures are combined into a HDR (high dynamic range) image. This unique method allows an analysis of the sky condition and the cloudiness under full sun illumination conditions without the need for a shading device. The SRF-02 can easily be connected to a computer network through its standard Ethernet interface.



## Items

- 12 VDC Power supply (20m cable)
- Ethernet cable (20m)
- Drying cartridge (Desiccant)
- Find clouds software
- Camera control software
- Optional sunscreen

## Specifications SRF-02

Camera	2M pixel / Fish eye
Field of View	180°
Operating Temperature	-30°C to 45°C
Power	12 VDC (3W – 6W)
All weather	IP65
Dimensions	200mm x 200mm x 200mm
Weight	3 kg
Software	Windows