



ASI-16 All Sky Imager

Technical Specifications

5MP fish eye camera

Real time images

Ventilator / heater and data acquisition unit

External TRH sensor

Optional Find Clouds software for cloud analysis

The ASI-16 All Sky Imager is an automatic full sky camera system with a 180° field of view. It provides high-resolution images, both as pre-scheduled network stored JPGs and as a video live stream. The ASI-16 can take clear full hemispheric pictures of the sky, even under full sunlight conditions.

The 5MP camera developed by Schreder CMS is provided by EKO world-wide. The standard camera features an integrated ventilator and heater system to operate under most severe weather circumstances.

With the optional Find Clouds software, cloud coverage and cloud classification can be analyzed for photovoltaic evaluation applications. Cloud base height can be measured with two ASI-16 cameras and the optional Cloud Base Height (CBH) software. The CBH software allows for the evaluation of cloud height in real time. A stereoscopic method is applied to process time synchronized images of two sky imagers and the local data (latitude, longitude, and elevation).

	ASI-16
Camera	5MP CMOS
Operating	Daytime
Field of View FOV	180 °
Images	HDR JPG
Operating temperature range	-40 - 50 °C
Power supply	PoE 48V
Cable length	15 m
Power consumption	6 - 70 W
Dimensions mm	ø200 x 210
Functions	Integrated ventilator and heater
Functions	External TRH sensor

Options	ASI-16
Find Clouds software	Cloud classification & Analysis
Cloud Base Height software	Cloud base height (2 x ASI-16 required)
Interface ASI-16 GHI	Interface for pyranometer modbus version
Pyranometer (GHI)	MS-80M
Radiation shield for External TRH sensor	MT-052

Specifications are subject to change without further notice.