



## ASI-16 Basic All Sky Imager

### Technical Specifications

5MP fish eye camera

Real-time picture stream, up to 2-10 f/sec

Cloud coverage and cloud type analysis

Cloud Base Height function

Cloud motion function

The ASI-16/10 Basic All Sky Imager is an automatic full sky camera system with All-sky fisheye lens with anti-reflective coated quartz dome for a 180° field of view. It provides high-resolution images, both as pre-scheduled network stored JPGs and as a video livestream. The ASI-16 can take clear full hemispheric pictures of the sky during daylight, even under full sunlight conditions. The Basic model of the ASI-16 does not include an integrated ventilator and heater system.

The 5MP camera developed by Schreder CMS is provided by EKO world-wide.

The camera is connected to a data server, which can be a local hard drive, NAS, FTP or Cloud server. The standard ASI-16 control software is based on a Web-browser user-interface. The camera settings, acquisition of images and updates of the camera software can be made through the secured CMS server. In case of any network communication

interruption data can be stored to the 2GB internal storage.

With the optional new Trinity software different aspects of the clouds can be acquired. As a standard function of Trinity, 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).

	<b>ASI-16 Basic</b>
<b>Camera</b>	5MP CMOS
<b>Operating</b>	Daytime
<b>Field of View FOV</b>	180 °
<b>Images</b>	HDR JPG
<b>Operating temperature range</b>	-25 - 50 °C
<b>Power supply</b>	PoE 48V
<b>Power consumption</b>	15 W
<b>Cable length</b>	10 m
<b>Dimensions mm</b>	ø200 x 210

<b>Options</b>	<b>ASI-16 Basic</b>
<b>Find Clouds software</b>	Cloud classification & Analysis
<b>Cloud Base Height software</b>	Cloud base height (2 x ASI-16 required)

Specifications are subject to change without further notice.