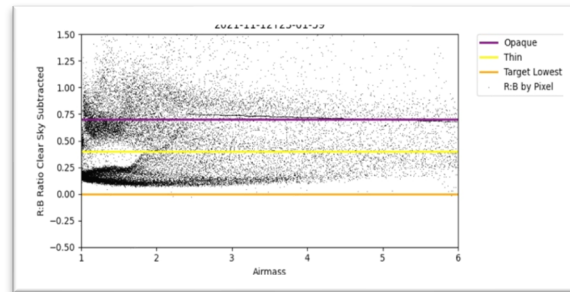
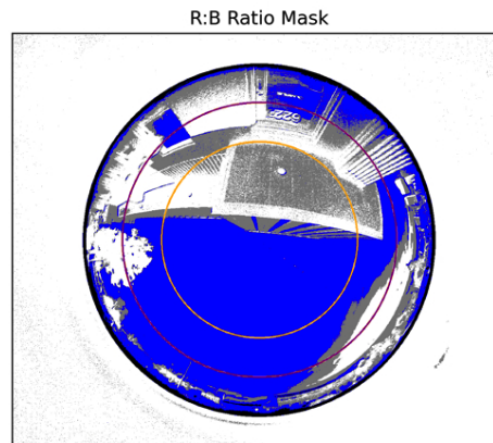
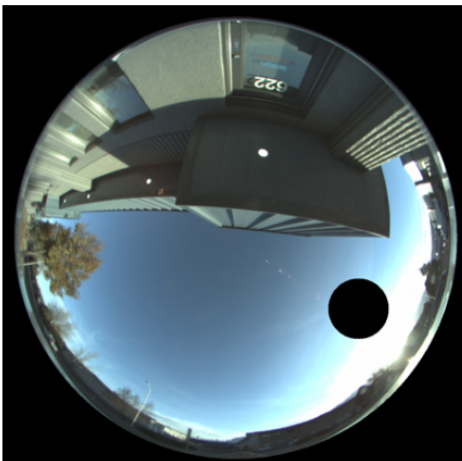


The Solmirus All Sky Imaging System M1 (ASIS-M1v) is a dedicated purpose visible sky imaging and analysis instrument designed to operate autonomously or as a component in an instrument cluster. The ASIS is a ground based cloud detection and sky analysis system with applications ranging from astronomy, defense, solar forecasting and a variety of meteorological applications.



- ▶ White Powder-coated Weatherproof Enclosure
- ▶ Visible-spectrum CMOS camera: 5.0 MP 12-bit
- ▶ 2/3" 1.8mm F/1.4 Fish-Eye Lens
- ▶ Stainless steel and aluminum construction
- ▶ Enclosure Thermal Management System and internal temperature sensors
- ▶ On board data analysis and image processing
- ▶ Instrument transport case
- ▶ Customizable measurements & operation
- ▶ Embedded control computer
- ▶ Web based user interface



Specifications

Connectivity / Cabling

Cable	Media	From	To	Length
Power	Copper	Main Enclosure	VAC	Customer Specified
Remote Comms	Fiber OR Ethernet	Main Enclosure	Network	Variable

Power

Parameter	Value
Primary Input	9A / 125VAC 4.5A / 250VAC
Main Enclosure Connection	Configurable

Physical Construction

Component	Details
Instrument Enclosure	NEMA 4 Stainless Steel — 12"W × 24"D × 39"H (with base)
Weight (with case)	~45 kg
Weight (without case)	~23 kg
Instrument Base	Stainless Steel — 12" × 24" mounting holes with extension

Operating Temperatures

Component	Operating Range
Instrument Enclosure (Aggregate)	-20 / +55°C (external)
Peltier (Internal)	-10 / +60°C
Peltier (External)	-40 / +70°C
Visible Camera	0 / +50°C

Instrument Control

Parameter	Value
System Computer	Onboard ruggedized control system
Interface	Web UI
Access	Complete instrument control, data acquisition & analysis

Measurement & Analysis

Parameter	Value
Primary Measurements	Sky Cover Percentage
Measurement Cadence	≤ 30 seconds