

# ML-01

Small Size, Fast Response, Outstanding Versatility



Left: ASI-16 All Sky Imager, Right: ASI-16 Basic All Sky Imager

## Overview

The compact, industrial-grade ML-01 silicon pyranometer is made for high-quality irradiance measurements. ISO 9060:2018 Class C, fast response, light but tough, the ML-01 feature a mono-silicon detector with a UV-resistant cone-shaped diffuser that helps to minimise soiling and water deposition, delivering an excellent cosine response, even at low solar elevation angles.

Made in Japan and manufactured to EKO's strict quality standards, the ML-01 is compliant with international standards, offering a cost-effective alternative to larger thermopile-based sensors that is easy to integrate into any project or application

## Features



**20mm**

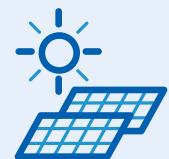
Only 20mm across,  
tough and easy to  
install



Fast response photodiode  
detector for always  
accurate measurements



<0.15%/°C Low-temperature  
dependency & spectral  
response equivalent to PV  
modules



Different mounting  
accessories, whatever  
your application

	<b>ML-01</b>
Measurement Range	0 ~ 2000 W/m <sup>2</sup>
Spectral range	400 ~ 1100 nm
Response time	<1 ms
Sensitivity (approx.)	50 $\mu$ V/W·m <sup>-2</sup>
Output (0 to 100mV Range)	0 ~ 100 mV
Internal Resistance (approx.)	48 $\Omega$
Operating Temperature	-30 ~ +70 °C
Temperature Dependency	< 0.15 %/°C
Directional Response (0 to 80°)	<± 5 %
Field of view	180°
Stability	<± 2 %/year
Dimension	∅ 22 x 28.5 mm
Weight	30 g
Output Cable	5m (Optional 10m, 30m, 50m)

### Applications

Designed for meteorological, agricultural and environmental monitoring applications, the ML-01 is versatile and cost-effective. Small, light, and accurate, with a range of mounting accessories, they've been fixed to drones, building exteriors, integrated into the bodywork of solar-powered vehicles, and more.



### Accessory ML-01 Base Plate

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