

SUN SENSOR

SUMMARY:

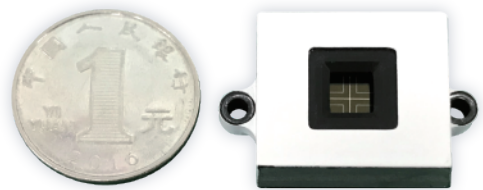
Everlight's sun sensor measures satellite attitude, and has already been batch produced and deployed to orbit. We manufacture three types of sun sensors, Analog Four Quadrants, Mock Pyramid, and Digital, with each offering high accuracy and sophisticated chipsets.

Applications: all types of small satellites, including remote sensing, communications/IoT, and satellite navigation, constellations of batch-produced satellites

Key Features: multiple types of different sizes for different applications, batch production already achieved on different types of satellites, sold internationally

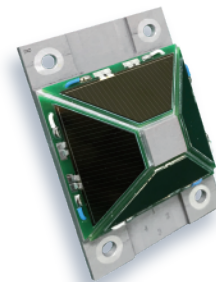
Everlight Space Analog Four Quadrant Sun Sensor

Field of View	$\pm 60^\circ \times \pm 60^\circ$
Measurement Accuracy	Better than 1°
Chip Class	Single-Junction GaAs
Operating Temperature	$-90^\circ\text{C} - +90^\circ\text{C}$
Size (mm)	40 x 23 x 14
Satellite Types	Small Satellite



Everlight Space Analog Pyramid Sun Sensor

Field of View	$\pm 85^\circ \times \pm 85^\circ$
Structural shell material	Aluminum alloy
Chip Class	Single-Junction GaAs
Operating Temperature	$-90^\circ\text{C} - +90^\circ\text{C}$
Size (mm)	55 x 36 x 19
Satellite Types	Small Satellite



Everlight Space Digital Sun Sensor

Field of View	$\pm 60^\circ$
Measurement Accuracy	Better than $0.5^\circ (3\sigma)$
Protocol	I2C
Operating Temperature	$-60^\circ\text{C} - +90^\circ\text{C}$
Size (mm)	43 x 14 x 8
Satellite Types	Cubesat/Micro Satellite

