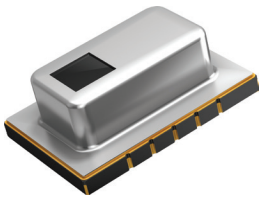
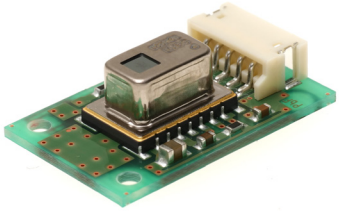
Panasonic

Sensor Solutions

Panasonic Sensor Solutions include a wide range of technologies which provide the flexibility to easily choose and implement a Sensor that is best suited for an application from a single, world class supplier. Panasonic built-in Sensors contribute to energy savings, safety and comfort. With high-functionality and high-performance, Panasonic has solutions for sensing and detecting rotational speed, rotational angle, position, flow, velocity, temperature, magnetism, currents and more. Panasonic Sensor products combine the latest technology with plug-and-play devices such as the Grid-EYE® Unit, the Grid-EYE® Evaluation Kit and more.

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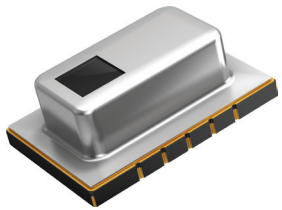
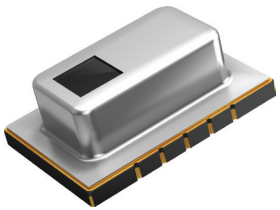
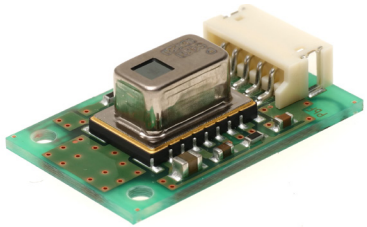
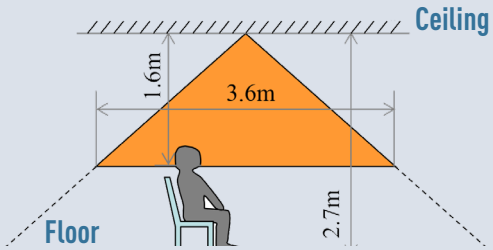
Grid-EYE® Thermopile Array Sensors

Series Name	 Grid-EYE High Gain Type	 Grid-EYE Low Gain Type	 Grid-EYE Narrow Angle Type
Output Type	Digital I²C		
Sensing Distrance	7 Meters	7 Meters	4 Meters
Field of View	60°	60°	35.6°
Number of Detection Elements	8X8 (64)		
Supply Voltage	3.3 VDC or 5 VDC		5 VDC
Frame Rate	10 Frames Per Second or 1 Frame Per Second		
Accuracy	+/- 2.5°C	+/- 3°C	
Detection Temperatures	0°C to 80°C	-20°C to 100°C	
Opertating Temperature	-20°C to 100°C		
Mounting Style	SMD		Module With 5 Pin Connector

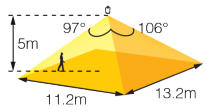
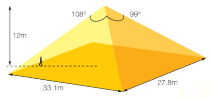
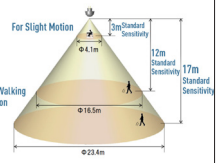
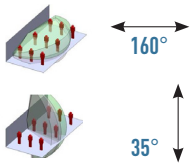
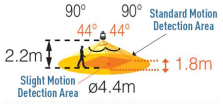
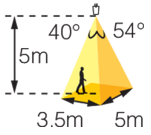
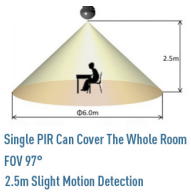
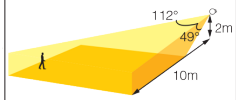
Grid-EYE® Thermopile Array Solution

Series Name	**Grid-EYE Unit** 
Detection Area	3.6 Meters² Detection Area At A Plane 1.6 Meters Away From The Sensor. 
Accuracy for Position	+/- 500 mm
Number of People	8
Operating Temperature	0°C to 50°C
Number of Detection Coordinates	4X4 (16)
Communcation	RS485 Serial
Protocal	MODBUS
Supply Voltage	24 VDC

Passive Infrared Sensor (PIRs) By Current Consumption

Series Name	EKMC		EKMB		
Current Consumption	170μA		1μA	2μA	6μA
Output Type	Digital	Analog	Digital		
	High, Standard, Low	User Controlled	Standard		
Number of Detection Elements	4				
Max Operating Temperature	60°C				
Lens Color	White, Black, Pearl White				

Passive Infrared Sensor (PIRs) By Lens

Lens Type	Standard	Long Distance	High Density, Long Distance	Wide Field of View	Saturn	Spot	Slight Motion	Wall Mount
Max Sensing Distance	5 Meters	12 Meters	17 Meters	5 Meters	3 Meters	7 Meters	3.5 Meters	12 Meters
Field of View								
Number of Detection Zones	64	92	128	88 Front Detection, 16 Side Detection	36 Slight Motion, 48 Standard Motion	24	112	68

All Lenses Are Available in the EKMC and EMBC Series

	Long Distance Detection	Not Requiring Micro Controller	Low Power	Motionless Object	Moving Direction	Temperature Measurement
PIR (Through Hole)	✓	✓	✓			
Grid-EYE (Surface Mount)				✓	✓	✓

Accelerate Prototyping and Testing by Utilizing Panasonic's Grid-EYE® Evaluation Kit

Panasonic provides an easy-to-use Grid-EYE® Evaluation Kit, complete with software and documentation to get up and running FAST. In addition to an accurate surface temperature and hotspot detection, the Grid-EYE Evaluation Kit offers the capability to detect and track people and objects, even when they are not moving. By combining this Sensor technology with the "nanopower" *Bluetooth*® Smart Module PAN1740 Series by Panasonic, firmware and software on an Arduino-Compatible board, Panasonic is able to achieve a very easy-to-use development product for rapid application prototyping. Discover today why Panasonic Sensors are the premier choice.

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