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This Infrared Thermometer module is equipped with a single-point medical-grade infrared temperature sensor (MLX90614), which can detect the temperature of objects with an accuracy of $\pm 0.2^{\circ}\text{C}$ in the body temperature range. At room temperature, the surface temperature of the measured object can reach an accuracy of $\pm 0.5^{\circ}\text{C}$ in a wide range. The module can use the I2C protocol to obtain data from the camera. The field of view (FOV) of this sensor is 5° , the temperature measurement range is $-70^{\circ}\text{C} \sim 380^{\circ}\text{C}$, and the working temperature is that the sensor's Ta value is between $-40^{\circ} \sim 85^{\circ}$.

Specifications

Specification	Details
FOV	5°
Measurement accuracy	$\pm 0.2^{\circ}\text{C}$
Measuring range	$-70^{\circ}\text{C} \sim 380^{\circ}\text{C}$ (object temperature)
Senser operating temperature	Ta is between $-40^{\circ} \sim 85^{\circ}$
Refresh Rate	0.5Hz ~ 64Hz
Interface	I2C
Voltage	3.3V-5V
Current	$\sim 18\text{mA}$

Part List

1 x Grove - Thermal Imaging Camera - MLX90614 DCI IR Array with 5° FOV

ECCN/HTS

HSCODE 9031900090

UPC