seeed studio

INDUSTRIAL PRODUCT DATASHEET

Grove - Thermal Imaging Camera - MLX90641 BCB 16x12 IR Array with 55° FOV

This IR thermal camera carries a 16x12 array of thermal sensors (MLX90641) and it can detect the temperature of objects from far away with a centre area accuracy of ±1℃ and average accuracy of ±1.5℃.

SKU	UPDATED	PRICE
101020992	2026-11-11 08:46:55	$49.00(Excl. VAT)



Overview



This IR thermal camera carries a 16x12 array of thermal sensors (MLX90641) and it can detect the temperature of objects from far away with a centre area accuracy of ±1℃ and average accuracy of ±1.5℃. In order to obtain the thermal images easily, the I2C protocol is used to get the low-resolution images from the camera. The FOV (Field of View) of this camera is 55°x35°, and the temperature measurement range is -40℃ to 300℃.

Key Features

01 Compact size 16x12 pixel IR thermal sensor array (MLX90641)

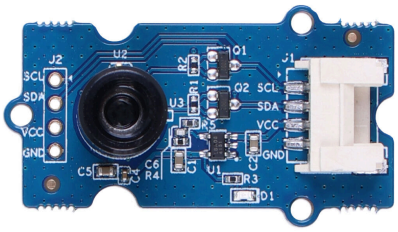
02 High FOV (field-of-view) of 55°x35° to capture more area

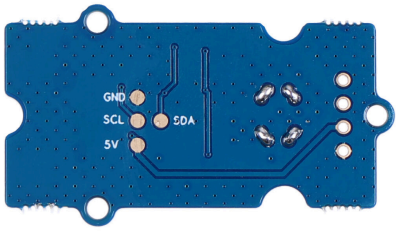
03 Wide temperature measurement range (-40℃~300℃)

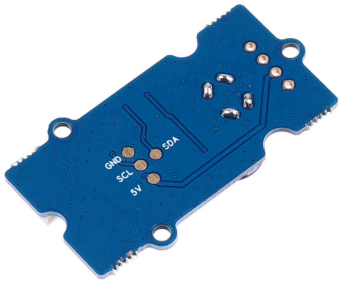
04 I2C Grove interface for easy communication with an MCU

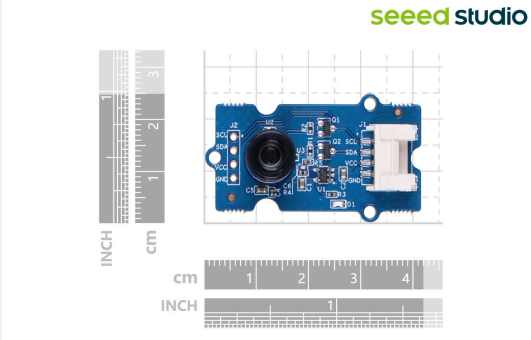
05 Fully calibrated IR array for convenient setup

Product Gallery









Applications

- High-precision non-contact temperature measurements
- Microwave ovens
- Intrusion / Movement detection systems
- Temperature sensing element for residential, commercial and industrial building air conditioning
- Industrial temperature control of moving parts
- Visual IR thermometers

Resource Links

- https://www.seeedstudio.com/Grove-Thermal-Imaging-Camera-MLX90641-BCB-16x12-IR-Array-with-55-FOV-p-5265.html
- MLX90641 Datasheet
- MLX90641 Visualization
- PCN-101020992 - Grove - Thermal Imaging Camera - MLX90641 BCB 16x12 IR Array with 55° FOV

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com