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TUOPUONE

Long-Wave IR

Thermal Imaging

Camera Module

80×62 Pixels

\$253.99

Colour Name: 40PIN female Header

\$253.99

\$117.99

\$117.99

\$94.99

\$253.99

Brand

TUOPUONE

Compatible devices

Personal Computer

Platform

Android

Memory slots available

1

Total HDMI ports

1

About this item

- 🔦 This is a long-wave IR thermal imaging camera that adopts the hybrid technology of microbolometer and

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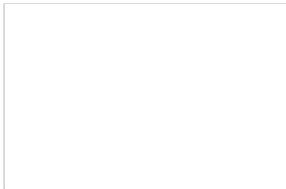
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- thermopile pixel, features 80x62 array pixels.
- ✦ It will detect the IR distribution of objects in the field of view, turn the data into surface temperature of the objects by calculation, and then generate thermal images, for easy integration into miscellaneous industrial or intelligent control applications.
 - ✦ Provides two version options: Thermal Camera HAT with RPi 40PIN GPIO header and Thermal USB Camera with Type-C port.
 - ✦ Continuous operation and thermal imaging video stream due to shutterless design
 - ✦ High precision long-term non-contact temperature online monitoring
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Product Information

Technical Details

Brand	TUOPUONE
Manufacturer	TUOPUONE
Part Number	TPO26983
Memory Slots Available	1
Compatible Devices	Personal Computer
Does it contain liquid?	No
Manufacturer	TUOPUONE
ASIN	B0CZJMS4YY
Country/Region of origin	China
Manufacturer reference	TPO26983
Date First Available	1 April 2024

Additional Information

Product description

Introduction

Thermal Camera HAT and Thermal USB Camera are long-wave IR thermal imaging camera modules with the 40PIN GPIO header and a USB connector respectively. Support RPi, PC, and Android phones. They adopt the hybrid technology of microbolometer and thermopile pixels and can detect the IR distribution of objects in the field of view, turn the data into the surface temperature of the objects by calculation, and then generate thermal images, for easy integration into miscellaneous industrial or intelligent control applications.

Features

Adopts the hybrid technology of microbolometer and thermopile, 80x62 array pixels.

Continuous operation and thermal imaging video stream due to shutterless design.

Noise Equivalent Temperature Difference (NETD) 150mK RMS@1Hz refresh rate.

Up to 25FPS (Max) thermal imaging video stream output.

Comes with online resources and manuals (Python demo for Raspberry Pi, Android/Windows host computer and user manual, etc.)

Specification

Power Supply: 5V

Operating Current: 61mA@5V

Wavelength Range: 8~14μm

Operation Temperature: -20~85°C

Target Temperature: -20~400°C

Refresh Rate: 25 FPS (Max)

FOV: 45°(H) × 45°(V) [Horizontal Angle x Vertical Angle]

Noise Equivalent Temperature Difference: 150mK

Measure Accuracy: ±2°C (ambient temp. 10~70°C)

Dimensions:

Thermal Camera HAT: 65.0 × 30.5mm

Thermal USB Camera: 62.0 × 13.0mm

PACKAGE CONTENT

Thermal-90 USB Camera

Thermal-90 USB Camera x1

Dual Type-C cable ~1m x1

Thermal-90 Camera HAT

Thermal-90 Camera HAT x1

40PIN female header x1

FPC 15 PIN cable 0.3mm pitch ~100mm x1

Screws pack x1

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5 star 0%

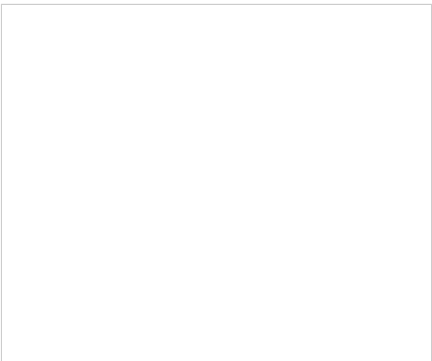
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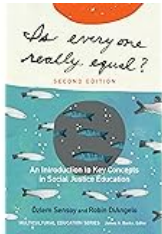


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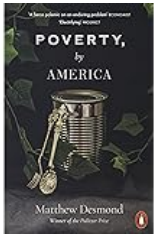
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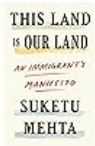
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