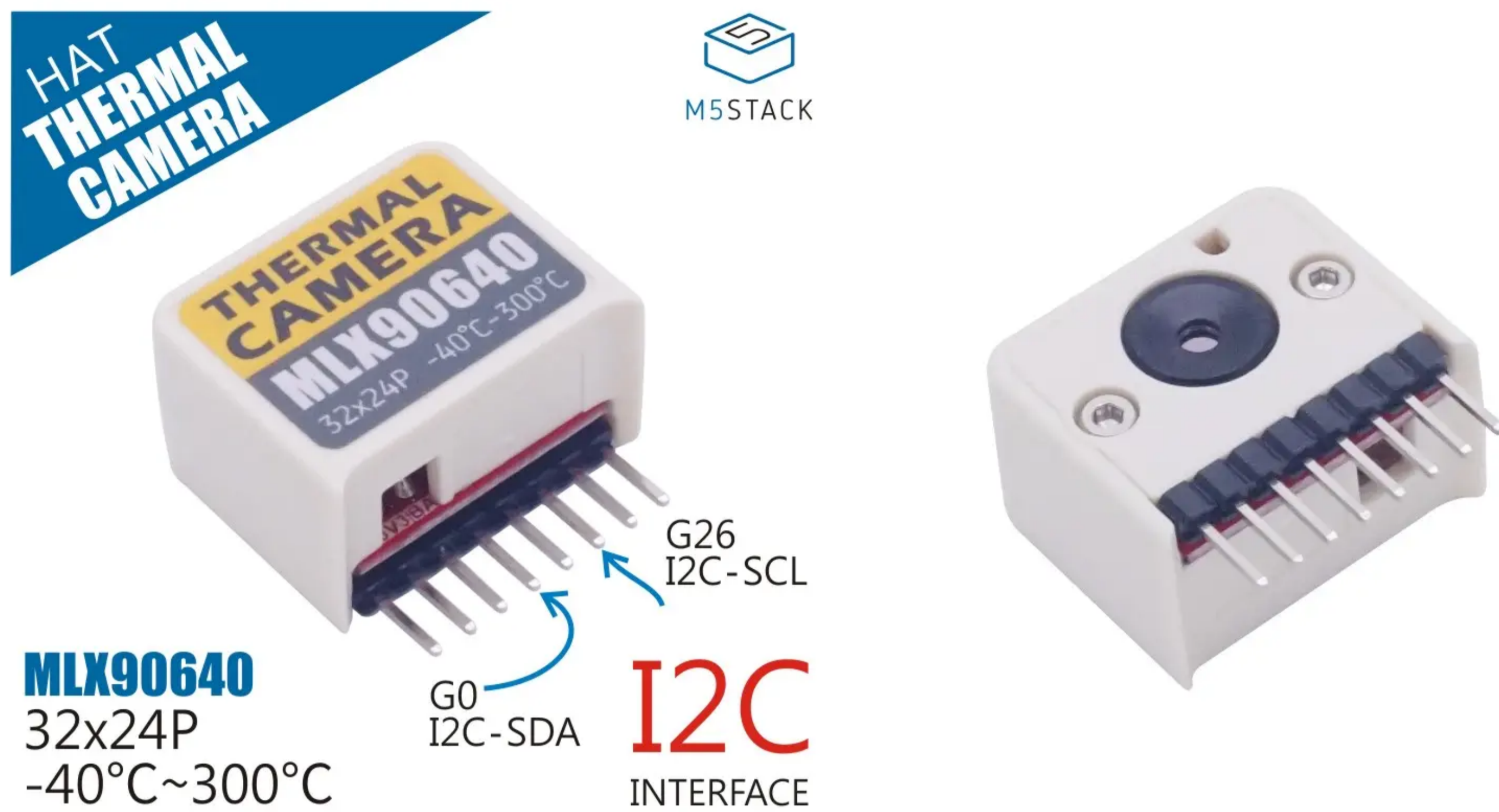


THERMAL HAT

SKU:U062



Description

THERMAL HAT is an M5StickC-compatible human infrared thermal imaging. Built-in **MLX90640** thermopile sensor that measures the surface temperature of an object and generates a thermal image through a temperature gradient formed by the surface temperature. Resolution is **32 x 24**)

MLX90640 Infrared (IR) sensor arrays offer high resolution and the ability to work reliably in harsh environments. Compared to expensive high-end thermal imaging cameras, Hat-Thermal is a cost-effective alternative. Relatively general Micro-bolometer, the advantage of this sensor is that it does not require frequent re-calibration, thus ensuring continuity of detection and reducing system maintenance costs. The field of view provides a wide-angle version (110 ° × 75 °).

The I2C address is **0x33**. (GOIO 0/26)



Product Features

- Operating Voltage: 3V ~ 3.6V
- Current Consumption: 23mA
- Field of View: 110°x75°
- Measurement Range: -40°C ~ 300°C
- Resolution: ±1.5°C
- Refresh Rate: 0.5Hz-64Hz



[download EasyLoader](#)

1. EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed.

- After downloading the software, double-click to run the application, connect the M5 device to the computer through the data cable, select the port parameters, click "**Burn**" to start burning. (For M5StickC burning, please Set the baud rate to 750000 or 115200)

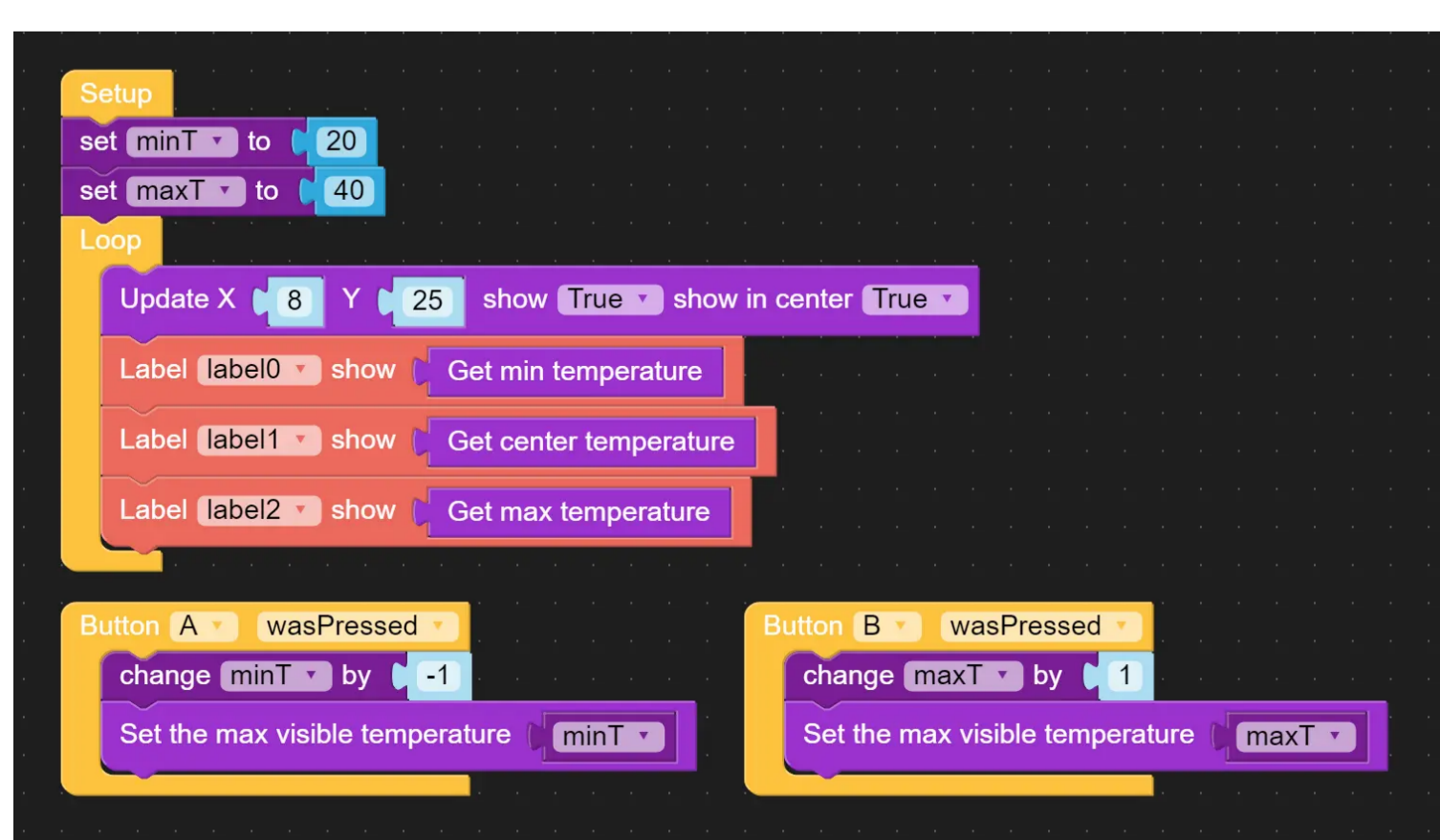
Example

1. Arduino

[Click here to download Arduino code](#)

2. UIFlow

- [Click here to download the UIFlow example](#)



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