



M5STACK

# T-Lite

SKU:K126



# Description

**T-Lite** is an integrated **thermal imaging acquisition** temperature measurement device with online detection function, the product is mainly composed of **M5StickC-PLUS** and **UNIT THERMAL**, using **MLX90640-BAA** infrared imaging sensor, the main control uses **ESP32-PICO-D4** chip, with WIFI function, **135\*240** resolution TFT screen, built-in **160mAh** battery, its "T-Lite" The T in the name stands for Temperture, and Lite stands for small, highly integrated. Users can set the **high temperature warning function**, and view temperature images and data in real time through the **cloud** and **LAN**. M5 also provides an online data API interface, which can obtain remote images and corresponding data through **EZData**, which is convenient for engineering project applications.

# Features

- ESP32-PICO based,WIFI
- Buttons, LCD(1.14 inch)
- Built-in Lithium Polymer Battery
- Built-in Passive Buzzer
- Field of View: 110°×75°
- Measurement Range: -40°C ~ 300°C

# Includes

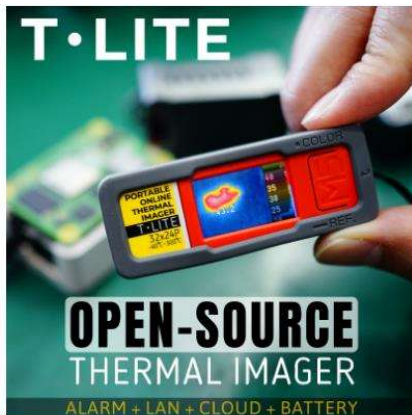
- 1 × T-Lite
- 1 × Hanging wire
- 1x Type-C USB(20cm)
- 1 × User manual
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# Applications

- Temperature detection warning
- Circuit temperature anomaly monitoring
- High precision non-contact temperature measurements
- Intrusion / Movement detection
- Visual IR thermometers

# Specification

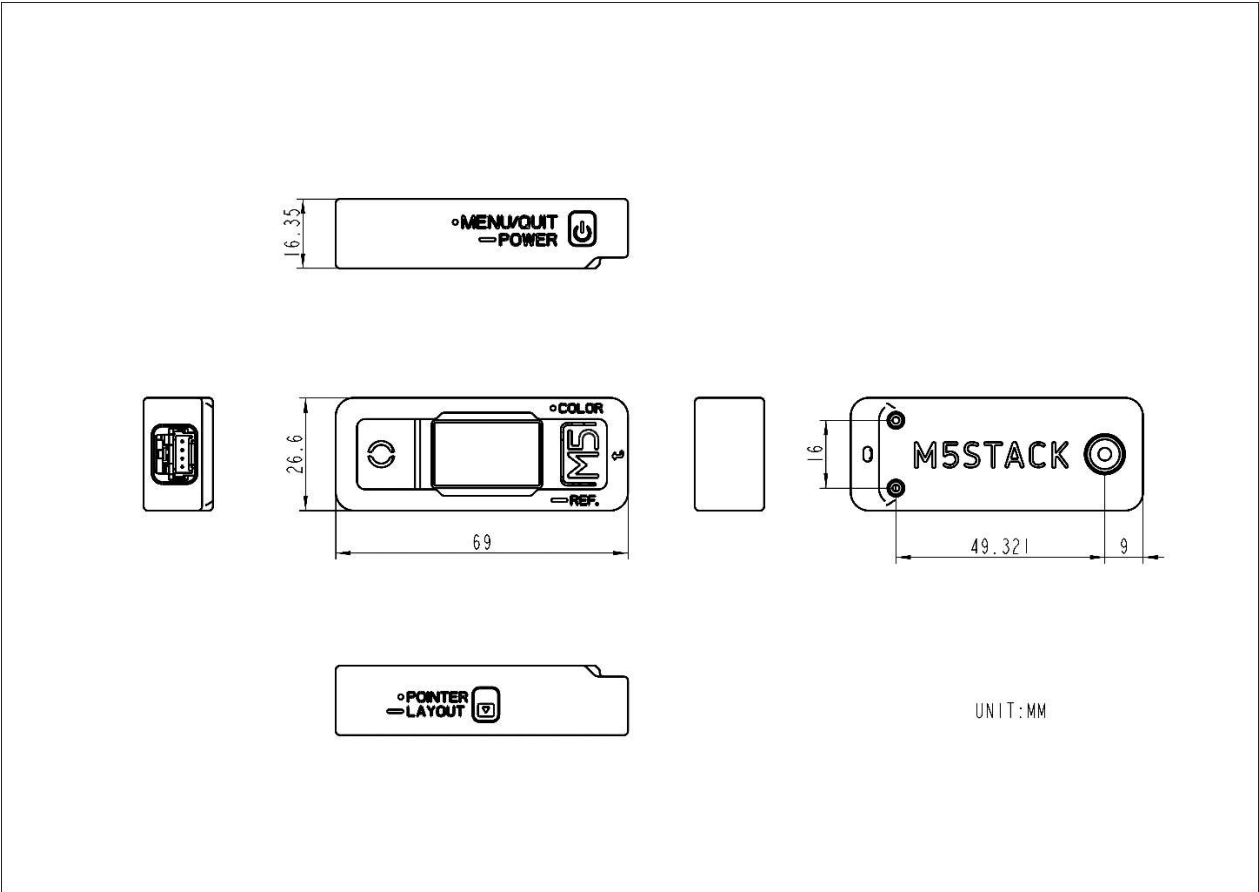
Resources	Parameters
MCU	ESP32-PICO,240MHz dual core, 600 DMIPS, 520KB SRAM
Sensor	MLX90640
Field of View	110°×75°
Resolution	32×24
Flash Memory	4MB Flash
Power Input	5V @ 500mA
Port	TypeC
LCD screen	1.14 inch, 135*240 Colorful TFT LCD, ST7789v2
MIC	SPM1423
Buzzer	Passive buzzer
PMU	AXP192
Battery	160 mAh @ 3.7V
Product Size	69mm × 26.6mm × 6.35mm
Package Size	110mm × 87mm × 25mm
Product Weight	30.1g
Package Weight	62.9g



## Related Link

- [UNIT THERMAL](#)
- [M5StickC PLUS](#)
- [T-Lite Firmware Easyloader Download](#)

# Module Size



<https://docs.m5stack.com/en/app/T-Lite> 1-19-23