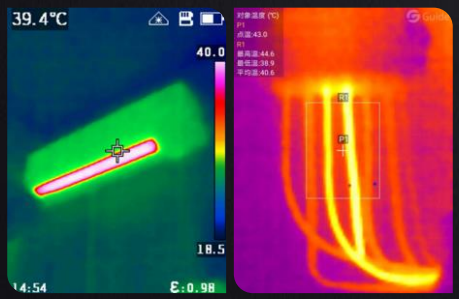
# LC130 Mini infrared temperature measurement module

**Full-frame radiometric info, built for industrial integration**

## Introduction

LC130 is an infrared temperature module for industrial terminal equipment, which gives devices the ability to easily capture temperature. It utilizes a wafer-level infrared detector independently developed by Guide which provides excellent thermal imaging performance in small, lightweight, lower power, and turnkey package. LC130 comes in two versions, standard or professional configurations with multiple selective temperature ranges and an SDK that supports development for all platforms, satisfying clients with different integration requirements.




## Features and Benefits

- IR resolution 120×90
  Full-frame radiometric info, output temperature value for all 10800 pixels
- Industrial-grade product, high performance
  ±2℃ temperature measurement accuracy, -20℃~400℃ temperature range
- Supermini, ultra-light, low power consumption
  Adopt wafer level packaging, weigh only 20g, power consumption≤150mW
- USB Type-C interface
  Adopt USB Type-C male connector for external connection, strong versatility and easy integration
- Provide SDK for all platforms
  Support Android / Linux / Windows platforms, wide applicability

## Application

- As an integrated component of industrial terminal equipment, LC130 measures temperature in the full image and is meant for use in systems across a variety of applications including electronic device detection, mechanical and electrical maintenance, building HVAC detection, and motor fault detection etc.

## Specifications

| Model | LC130 |
|---|---|
| **Imaging and optics** | |
| Detector type | WLP VOx |
| Infrared resolution | 120 × 90 |
| Pixel Pitch | 17 μm |
| Wavelength range | 8 to 14 μm |
| Field angle | 50°±1° |
| NETD | ≤60 mK |
| Infrared frame rate | 25 Hz |
| Focusing mode | Focus-free |
| **Measurement and analysis** | |
| Measurement range | -20°C to 150°C, 100°C to 400°C (automatic switching) |
| Measurement accuracy | ±2°C or ±2%, whichever is greater |
| **Data format and interface** | |
| External interface | USB type-C male |
| Data format | USB 2.0 |
| **Power supply and power consumption** | |
| Voltage | USB power supply (voltage range: 4.5 to 5.5V) |
| Typical power consumption | ≤150 mW |
| **Software kit** | |
| SDK | Android/ Linux/ Windows |
| DEMO software | PC/Android |
| **Environmental parameters** | |
| Working temperature | 0℃ to 40℃ |
| Storage temperature | -20℃ to 70℃ |
| Certification | CE, FCC and RoHS |
| **Physical parameters** | |
| Weight | ≤20 g |
| Size (L × W × H) | 51mm × 18mm × 15.6mm (No USB interface) |

Guide sensmart | Sensing Beyond Visible

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*Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com