

## HikMicro HM-TP31-3AUF-E1L - Thermal Camera E Series



### Product Description

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The E1L Thermographic Handheld Camera is a camera with thermal imaging capabilities. It can do thermometry, and snapshot capturing. The built-in high-sensitivity IR detector and high-performance sensor detects the temperature change and measure the real-time temperature. The temperature measurement range is -20°C to 550 °C (-4 °F to 1022 °F) with thermometry accuracy  $\pm 2$  °C. It helps the users to find the risky part and lower their property loss. The device supports live viewing, and capturing, etc. The handheld Thermography camera, adopting ergonomic design, is easy to use.

### Features

- Thermal resolution: 160 × 120 (19,200 pixels)
- NETD : < 40mK (@ 25 °C,F#=1.0)
- Temperature measurement range : -20 °C - 550 °C (-4°F ~ 1022°F)
- Accuracy: Max ( $\pm 2$  °C or  $\pm 2\%$ )
- Measurement Presets: Center spot, Hot spot, Cold spot, Off
- Lightweight 350g (.77 lb)
- 25 Hz image frequency
- Up to 8 hours continuous runtime

### Specifications

- Thermal Module
  - Image Sensor Vanadium Oxide Uncooled Focal Plane Arrays
  - IR Resolution 160 × 120 (19 200 pixels)
  - Pixel Pitch 17  $\mu$ m
  - Spectral Range 8 - 14  $\mu$ m
  - NETD < 40mK (@ 25 °C,F#=1.0)
  - Focal Length 3.1 mm
  - FOV (Field of View) 37.2° × 50°
  - Image Frequency 25 Hz
  - Focus Fixed
  - Aperture F 1.1
  - Minimum Focus Distance 0.15 m (0.49 ft)
- Image Display
  - Display 320 × 240 Resolution, 2.4" LCD Screen
  - Color Palettes White Hot, Black Hot, Rainbow, Ironbow
- Measurement and Analysis
  - Object Temperature Range -20 °C to 550 °C (-4 °F to 1022 °F)
  - Accuracy Max ( $\pm 2$  °C,  $\pm 2\%$ )
  - Measurement Presets Center Spot, Hot Spot, Cold Spot, Off
- Storage
  - Storage Media Removable Micro SD Card (8 GB)
  - Image Storage Capacity 150,000 images
  - Image File Format JPEG with Measurement Data Included
- Functions

- Laser Pointer Yes
  - Laser Type Class II
  - Level / Span Auto
- Power System
  - Power Supply 3.7 V DC/0.4 A
  - Power Consumption 1.2 W
  - Battery Type Rechargeable Li-ion Battery
  - Battery Operating Time 8 Hours Continuous Running
- General
  - Menu Language 17 Languages - English, German, French, Russian, Korean, Spanish, Portuguese, Italian, Japanese, Hungarian, Czech, Slovak, Polish, Romanian, Danish, Turkish, Traditional Chinese
  - Working Temperature Range -20 °C to 50 °C (-4 °F to 122 °F)
  - Storage Temperature Range -20 °C to 60 °C (-4 °F to 140 °F)
  - Protection Level IP54
  - Drop Test Height 2 m (6.56 ft)
  - Interface Micro USB
  - Weight Approx. 350 g (.77 lb)
  - Dimension 196 mm × 117 mm × 59 mm (7.7" × 4.6" × 2.3")
  - Tripod Mounting UNC 1/4"-20

#### **Includes**

- (1) HIKMICRO E1L Handheld Thermal Imaging Camera
- (1) Battery
- (1) USB Cable
- (1) Power Adapter
- (1) 8GB Micro SD Card
- (1) Wrist Strap
- (1) Quick Start Guide