



Smart Longwave Infrared Camera Thermal Imaging System

Safety Detection, Accurate and Efficient

Infrared thermal imaging cameras use infrared thermal radiation emitted by objects to form a clear image and temperature distribution analysis image through the software to provide fast and non-contact temperature detection. For machine and manufacturing, thermal imaging cameras can be used to ensure electrical safety, and predictive maintenance of production machine and troubleshooting of after-sales services.



Early Warning



Contact-Less



Accuracy

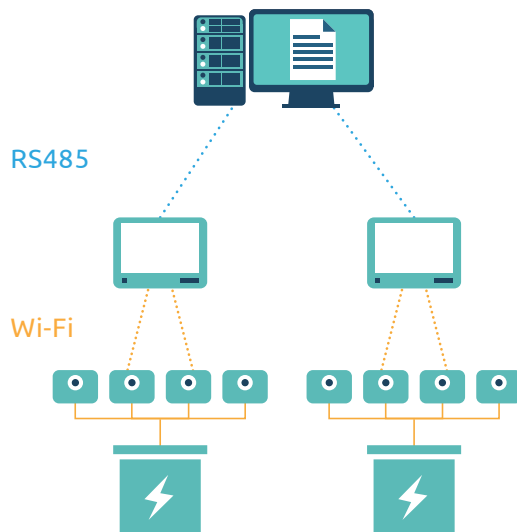


SCADA

HMI Control

Longwave Infrared Camera

Distribution box



| | |
|----------------------|--|
| Spectral Range | Longwave infrared 8 μ m to 14 μ m |
| Array Format | 80*60 |
| Pixel | 17 μ m |
| Effective Frame Rate | 8.6 Hz |
| Scene Dynamic Range | 0°C to 120°C |
| Radiometric Accuracy | \pm 5°C |
| FOV - Horizontal | 51° |
| FOV - Diagonal | 63.5° |
| Operating Temp. | -10°C to 65°C |
| Storage Temp. | -40°C to 80°C |

TIM-048

Temperature Inspection Monitor



Features

- Turnkey solution for temperature monitoring and measurement
- Long range infrared radiation of 8µm to 14 µm
- Intuitive user interface with touchscreen and physical buttons
- Easy to use monitoring & setup utility
- Ethernet/Wi-Fi for analysis and alarm results transmission
- Compact size for easy installation
- Ideal for condition monitoring and process monitoring

Lonewave Infrared Camera

| Wireless | |
|------------------------|--|
| Wi-Fi | IEEE 802.11 a/b/g/n |
| Antenna | Built-in dual band (2.4G/5G) chip antenna |
| Sensor | |
| Spectral Range | Longwave infrared, 8µm to 14 µm |
| Array Format | 80 x 60 |
| Pixel | 17µm |
| Effective Frame Rate | 8.6Hz |
| Scene Dynamic Range | 0°C to 120°C |
| Radiometric Accuracy | ±5°C |
| Field of View | 51° (H), 63.5° (D) |
| I/O Interface & Button | |
| USB Port | micro USB connector for debug (internal) |
| Power Jack | 1 x 3-pin M8 power jack (IP67) |
| Button | Power button |
| LED | 3-color LED; Pair, Link, Activity |
| Battery | |
| Capacity | 1650 mAh nominal |
| Power | |
| Power Input | 5V/2A |
| Mechanical | |
| Net Weight | 150 g (with battery) |
| Dimensions (H x W x D) | 89.9 x 64.24 x 27.27 mm 105.9 x 99.3 x 44.2 mm w/ stand |
| Environment | |
| Operating Temp. | -10°C ~ 55°C (14°F ~ 131°F) |
| Storage Temp. | -20°C ~ 60°C (-4°F ~ 149°F) |

Control HMI

| System | |
|---------------------------|---|
| CPU | ARM Quad-core Cortex-A35 |
| Operating System | Android 8.1 (BTO service for Buildroot) |
| Memory | 2GB DDR4 memory soldered on board |
| Storage | 16GB eMMC flash soldered on board |
| Communication with Camera | |
| Supported Cameras | Up to 4 cameras |
| Connection | IEEE 802.11 a/b/g/n/ac |
| LCD Display | |
| Size/Type | 8" TFT LCD |
| Resolution | 1024 x 600 |
| Brightness | 500 cd/m ² |
| Touch Screen | 5-point Projected Capacitive multi-touch |
| I/O Interface & Button | |
| SD Card | 1 x microSDHC/microSDXC/ microSD (Max. 128GB) card socket |
| USB | 2 x USB 2.0 Type-A port 1 x micro USB 2.0 |
| Speaker | 1 x 8Ω/1W |
| DB9 Interface | 1 x RS-232/422/485 COM port; 1 x RS-232 COM port |
| LAN | 1 x RJ-45 Ethernet, 10/100Mbps |
| Power | Tact switch |
| CAN | OBD-II |
| DIO | 3 x DI, 3x DO (dry contract) |
| Power | |
| Power Input | 3-pin terminal block 9V~36V auto-detection |
| Mechanical & Environment | |
| Operating Temp. | -20°C ~ 70°C (-4°F~158°F) |
| Storage Temp. | -20°C ~ 70°C (-4°F~158°F) |
| Dimensions | 218.16 x 162.67 x 46.5mm (W x H x D) |
| Weight | 940g (2.07lb) |
| Regulatory | CE, FCC, E-Mark |

