

UNI-T®



UTi165K THERMAL IMAGER

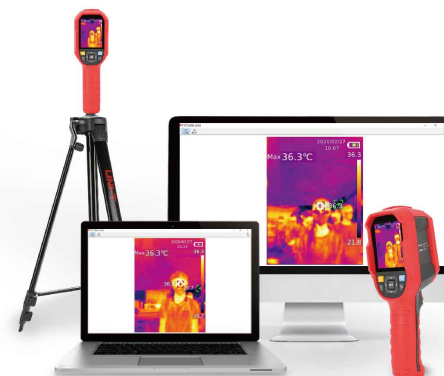
- 2.8" TFT screen
- Infrared resolution: 160×120
- Frame rate: 9Hz
- Temperature measurement range: 30°C~45°C
- Accuracy: $\pm 0.5^{\circ}\text{C}$
- Photograph function with SD card storage
- PC software analysis
- Real-time image transmission
- Visual camera (640×480)
- Type-C USB interface
- 1/4" tripod mounting hole



*High-temperature alarm

The customized high temperature limit can be set to 37.3°C. For the temperature $\geq 37.3^{\circ}\text{C}$, indicator light and screen will indicate high temperature alarm, which can effectively and quickly screen individuals with abnormal temperature.

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Real-time image transmission

Set the USB mode to USB camera, connect the USB cable to the computer to mirror the computer software by real-time image transmission.

SPECIFICATION	UTi165K
Sensor	Uncooled focal plane array
Temperature range	30°C~45°C
Resolution	0.1°C
Accuracy	$\pm 0.5^{\circ}\text{C}$ (@ 25°C ambient temperature)
Optimal measuring distance	1m
Temperature measurement response time	$\leq 500\text{ms}$ (95% of reading)
Thermal resolution	19200 (160×120)
Pixel dimensions	12 μm
Palettes	Iron red, rainbow, glowing white, glowing black, glowing red, lava, high-contrast rainbow
Bandwidth of infrared spectroscopy	8~14 μm
Field of view (FOV)	56°(H) × 42°(V)
Instantaneous field of view (IFOV)	6mrad
Thermal imaging sensitivity	<50mk
Frame rate	<9Hz
Temperature display	Center temperature measurement and high temperature tracking (default)
Image format	BMP
Image modes	Thermal camera, visible camera, image blending
Temperature measuring point	Besides central point, 3 temperature measuring points can be added
Visual camera	√
Resolution of visible camera	640×480
Display resolution	320×240
Image blending	0% (total visual camera), 25%, 50%, 75%, 100% (total thermal camera)
PC analysis software (PC)	√
Real-time image transmission	PC software image projection
Data communication	Type-C USB
Auto power off	Selectable (5min, 10min, 30min), 30min auto power off (default)
Battery life	≥ 6 hours
Charging time	≤ 5 hours
Charging voltage/current	5V/2A
Image storage	Micro SD card
GENERAL CHARACTERISTICS	
Power	A single Li-ion 3.7V/5000mAh 26650 battery
Display	2.8" TFT LCD
Product color	Red + grey
Product size	236mm x 75.5mm x 86mm
Standard accessories	Manual, Type-C USB cable, 16GB TF card
Standard carton gross weight	2.2kg