

165H and 165K Professional thermal Imager datasheet

Function

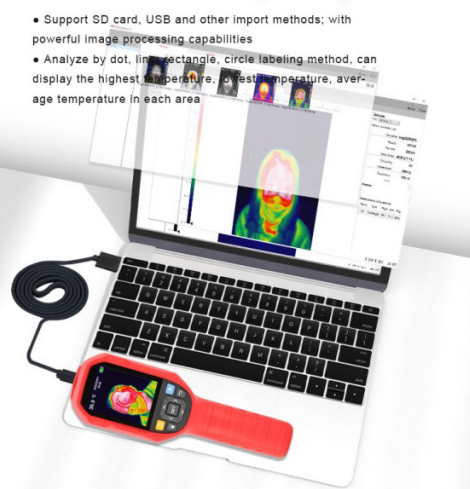
Parameters

1. 2.8" TFT screen
2. Infrared resolution: 160×120
3. Frame frequency: 9Hz
4. Range of temperature measurement: 30°C~45°C
5. Accuracy: ±0.5°C
6. Photographed function and SD card storage
7. PC software analysis
8. Point temperature measurement
9. Type-C USB interface for lithium battery charging
10. 1/4" tripod mounting hole



PC software for image analysis

- Support SD card, USB and other import methods; with powerful image processing capabilities
- Analyze by dot, line, rectangle, circle labeling method, can display the highest temperature, lowest temperature, average temperature in each area



***UTi165H & UTi165K model can do fast temperature detect. Many factories and schools are using this product for temperature screening.**

***High-temperature limit exceeding 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.

***Real-time image transmission(UTi165K)**

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

Features: Real-time image transmission, mirror the computer on larger screen for monitoring.

Specifications	UTi165H(can not connect to display)	UTi165K(can connect to display)
Sensor	Uncooled focal plane	
Temperature range	30°C - 45°C	
Resolution	0.1°C	
Accuracy	$\pm 0.5^\circ\text{C}$ @1M	
Minimum measuring distance	15cm	
Temperature measurement response time	$\leq 500\text{ms}$ (95% of reading)	
Thermal imaging pixel	19200 (160 x 120)	
Pixel size	12 μm	
Swatch	Black white, Red white, Blue white, Iron red, Rainbow	Iron red, Rainbow, White fever, Black fever, Red fever, Lava, High contrast rainbow
Bandwidth of infraed spectroscopy	8 - 14 μm	
Field of view (FOV)	56°(H) x 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 Imaging, Digital camera (visible light), Fusion
Visible light		Yes
Visible light resolution		640*480
Hybrid settings		0%(Full visible light), 25% 50% 75% 100%(Full thermal imaging)

Real-time image		PC real-time image projection screen
PC analysis software (PC)	√	√
Button	10 buttons(Power key, camera key, return key, navigation key, SET key, picture browsing key, LED lighting key)	
Data communication	Type-C USB	
Display resolution	320 x 240	
Auto power off	Selectable (5min, 10min, 30min), 30min auto power off (default)	
Service time	≥6 hours	
Charging time	≤4 hours	
Image storage	Micro SD card	
Power	A single Li-ion 3.7V/5000mAh 26650 battery	
Display	2.8" TFT LCD	
Product color	Red & grey	
Storage temperature	-20-60°C (-4-140°F)	
Operating temperature	15-30°C (59-86°F)	
Working humidity	<90%RH (Non-condensing)	
Product size	236mm x 75.5mm x 86mm	
Standard accessories	Manual, Type-C USB cable, 16GB TF card	
Standard carton gross weight	2.2kg	