

Product Datasheet

T-10

Smart Thermal Camera 206×156 Pixels

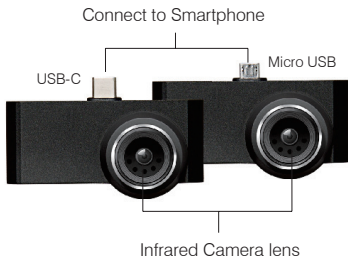


Introduction

The Smart Thermal Camera can be used to connect the android smartphone with USB-C or Micro-USB. It doesn't need additional battery, it can work only need to insert the USB interface of the smartphone. It is so compact and portable, can be used to detect at anytime, anywhere.

Display the thermal image on the better screen of the smartphone will bring better visual experience. With the Smart Thermview APP it can provide a big storage of the thermal image and video, provide more powerful point/ line/area analysis function and provide powerful PDF report export function. Real-time preview the results of 9 color palettes.

Structure Description



Specifications

Imaging & Optical	
Thermal Resolution	206 × 156
Wavelength	8 ~ 14 μ m
Frame Rate	9 Hz
Field of View, Horizontal	35.4°
Field of View, Vertical	26.8°
Shutter	Automatic
Focus Mode	Manual
Minimum Focus Distance	Typical 0.5m, Max 1m
Detection Range	330m
Recognition Range	83m
Identification Range	48m

Measurement	
Measurement Range	-10°C ~ 330°C (14°F ~ 626°F)
Accuracy (-10 ~ 100°C)	± 5°C (± 9°F)
Accuracy (100 ~ 330°C)	± 5%
Repeatability (-10 ~ 100°C)(14 ~ 212°F)	± 2°C (± 3.6°F)
Repeatability (100 ~ 330°C)(212 ~ 626°F)	± 2%
Thermal Sensitivity/NEDT	@f/1.0 Typical 50mk Max 70mk @f/1.2 Typical 70mk Max 100mk

Environment	
Operating Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Storage Temperature (non-condensing)	-40°C ~ 100°C (-40°F ~ 212°F)
Mechanical shock	Drop from 2 m
Common Features	
Weight	54g
Dimensions(W × H × D)	68 × 33 × 28 mm
Phone	Android
Connections	USB-C(Android) Micro USB(Android)

APP Features	
Color Palette	9 Options
Capture modes	Photo, Video
File formats	HIR, Mp4
Spot	Center Spot
Automatic Hot/Cold Detection	Auto hot or cold markers
Temperature Analysis	Customize Point/Line/Area Temperature
PDF Report	Export & Share PDF Report

Adjust Focus

To adjust focus, clockwise or Anti-clockwise rotates the Infrared Camera lens. When target comes into focus, it shows a sharper image. When the target moves out of focus, the thermal image becomes blurry.

Note

Correct focus is important in all imaging applications.

Correct focus makes sure that the infrared energy is correctly directed onto the pixels of the detector. Without the correct focus, the thermal image can be blurry and the radiometric data will be inaccurate. out-of-focus infrared images are frequently unusable or of little value.

Install Smart Thermview APP

Scan the QR code or search "Smart Thermview" on Google Play to download and Install it.



Notice: System Android 5.0 above required and USB OTG support.