Guide

APEX VISION

Thermal

Easy, Efficient, Extraordinary
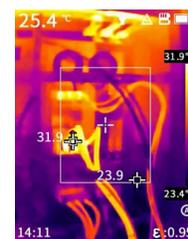
EasIR Series Tool-like Thermal camera

Introduction

EasIR Series tool-like thermal camera provides two configuration options of 120x90 and 256x192 IR detectors. It adopts the new real-time IR-Perfclear technology to enhance the details and reduce noise of the image and present a clearer image in real time. Equipped with a series of professional functions such as 2MP visible light camera, video streaming and recording, WIFI, and OTA upgrade, etc., EasIR Series brings a clearer, more powerful and smoother work experience for users.

Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity & precision
- High-sensitive infrared detector, resolution 120x90/256x192
- Real-time IR-Perfclear technology, 4 times better image quality
- -20°C~550°C wide temperature measurement range, automatic switch
- Photo and video recording, convenient sharing via mobile APP
- Video streaming, real-time data transmission with PC analysis software
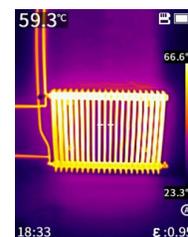- OTA firmware upgrade to keep the device up-to-date
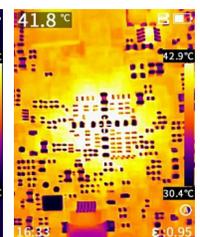
Applications

Electrical Application   Facilities maintenance

HVAC Inspection   PCBA detection

Specifications

Product model	E1S	E1+S	E2S
Imaging and optics			
Core Technology Item	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm SharpIR 2.0		
Detector type	VOx, 7.5 to 14μm		
Infrared resolution	120×90@12μm		256×192@12μm
Super resolution	Support real-time super-resolution reconstruction, Upgrade to 240×180		Support real-time super-resolution reconstruction, Upgrade to 512×384
NETD	15mK		
Frame rate	25Hz/9Hz		
Focal length	1.6mm		3.2mm
Field of view	50°×38°		56°×42°
IFOV	7.27mrad		3.82mrad
Min. object distance	0.1m		
D:S	138:1		262:1
Focusing mode	Focus-free		
Measurement and analysis			
Measurement range	Support auto-switching: -20°C to 150°C, 0°C to 550°C		
Measurement accuracy	±2°C or ±2%, whichever is greater		
Analyzed target	Center spot; Three Fixed Areas: Small, Medium, Large (Alternative)		
Alarm	Full screen temperature threshold alarm (Image and Flash)		
Image display			
Display screen	2.4" LCD		
Image mode	IR, VIS, MIF, PIP		
Color palettes	6: Iron Red, White Hot, Arctic, Rainbow 2, Hot Iron, Rainbow 1		
Image adjustment	Level span mode: Automatic, Semi-automatic, Manual		
Digital camera	2MP		
Functions			
Laser	Laser Indication		
Recording function	Photo and Video		
Storage and transmission			
Storage media	Built-in (16 GB)		
Image storage	JPG with temp info		
Video storage	Video storage format in Irgd (with temp info)	Supports real-time video streaming, video storage format in Irgd (with temp info)	
External interface	USB-C, Tripod socket		
Wi-Fi	/	Yes, it can be connected to the mobile terminal for image and real-time video transmission	
Power system			
Battery type	Rechargeable lithium-ion battery, non-removable		
Operating time	8 hours		11 hours
Environmental parameters			
Working temperature	-15°C to 50°C		
IP rating	IP54		
Drop	2m drop test		
Physical parameters			
Hardware	Illuminator		Wi-Fi, Illuminator
Weight	355g		375g
Size	194×61.5×76mm		
Software kit	PC: ThermoTools	PC: ThermoTools; Mobile: FocusIR (iOS/Android)	
Standard	A device, Wrist strap, Power adapter, Adapter plug, USB-A to USB-C cable, Quick Start Guide, Warranty card		
Options	Tripod		