



V1.1

HD Infrared thermal imager

Specification

A1T-1280

General Introduction

A1T-1280 is a HD infrared thermal imaging camera that developed by Link-Card Tech and supports HDMI and USB output. It uses ASIC solution, equipped with a 1280x1024 resolution LWIR uncooled VOx infrared detector, image processing unit uses ARM+DSP Soc solution and no FPGA . The product supports specific algorithms for infrared image processing, including but not limited to NUC, defective pixels removal, AGC, 3D denoise, 2D denoise, pseudo color etc.

A1T-1280 has high integration, small size, low consumption and support fastboot. It built-in key buttons for adjust user-friendly UI and USB (UVC) output RAW14 bits raw data for user to analyse. It can be use on Industrial monitoring, outdoor, inspection robot etc.

Features

- ◆ 1280x1024 Uncooled VOx Infrared Detector
- ◆ Supports Auto/Manual Calibration
- ◆ Integrated Compass and Motion Sensor
- ◆ Supports Reticle, Digital Zoom
- ◆ Integrated GPIO Button for adjustment
- ◆ Power Supply 5V DC, Type-C Port
- ◆ HDMI+USB (UVC driver-free) Output
- ◆ Fastboot



Applications

Industrial monitoring, outdoor, inspection robot

Parameters

Model	A1T-1280
Infrared Detector	
Detector Type	Uncooled VOx
Resolution	1280x1024
Frame Rate	25Hz/30Hz/50Hz
NETD	≤40mK @25°C,F#1.0
Pixel Size	12μm
Spectral Band	8 ~ 14μm
Main Function	
Calibration	Auto/Manual
Image Mode	Black hot/White hot/Red hot/Blue-green Flames/Iron Rainbow/Spectrum
Compass	Supported
Motion Sensor	Supported
Reticle	On/Off/Adjust
Digital Continue Zoom	1.0~4.0x
Button	Up, Down, Left, Right, Menu button
Output	
Output Port	HDMI, Type-C
Output Resolution	1280x1024@50Hz
USB (UVC) Resolution	1280x1024
Electrical Parameters	
Power Port	USB Type-C
Power Supply	5V DC
Power Consumption	≤2W
Other	
Lens	50mm lens, M45 x 1.0
Dimension(No lens)	45 x 45 x 43.70mm
Weight(No lens)	/
Operating Temperature	-20°C~60°C
Storage Temperature	/
Humidity	/

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