

V1.2

## Infrared thermal imager

Specification

# A1T

## General Introduction

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A1T series were infrared thermal imaging camera that developed for industrial use by Link-Card Tech, include HDMI, SDI and AHD/CVBS/TVI/CVI three modules. They use ASIC solution, equipped with a 384x288 or 640x512 resolution LWIR uncooled VOx infrared detector, image processing unit uses ARM+DSP Soc solution and no FPGA and has built-in an 2Gb DDR. These products 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 series have high integration, small size, low consumption and support fast root. They 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

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- ◆ 384x288/640x512 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, AHD, SDI Output
- ◆ USB (UVC driver-free) Output
- ◆ Fastboot

## Applications

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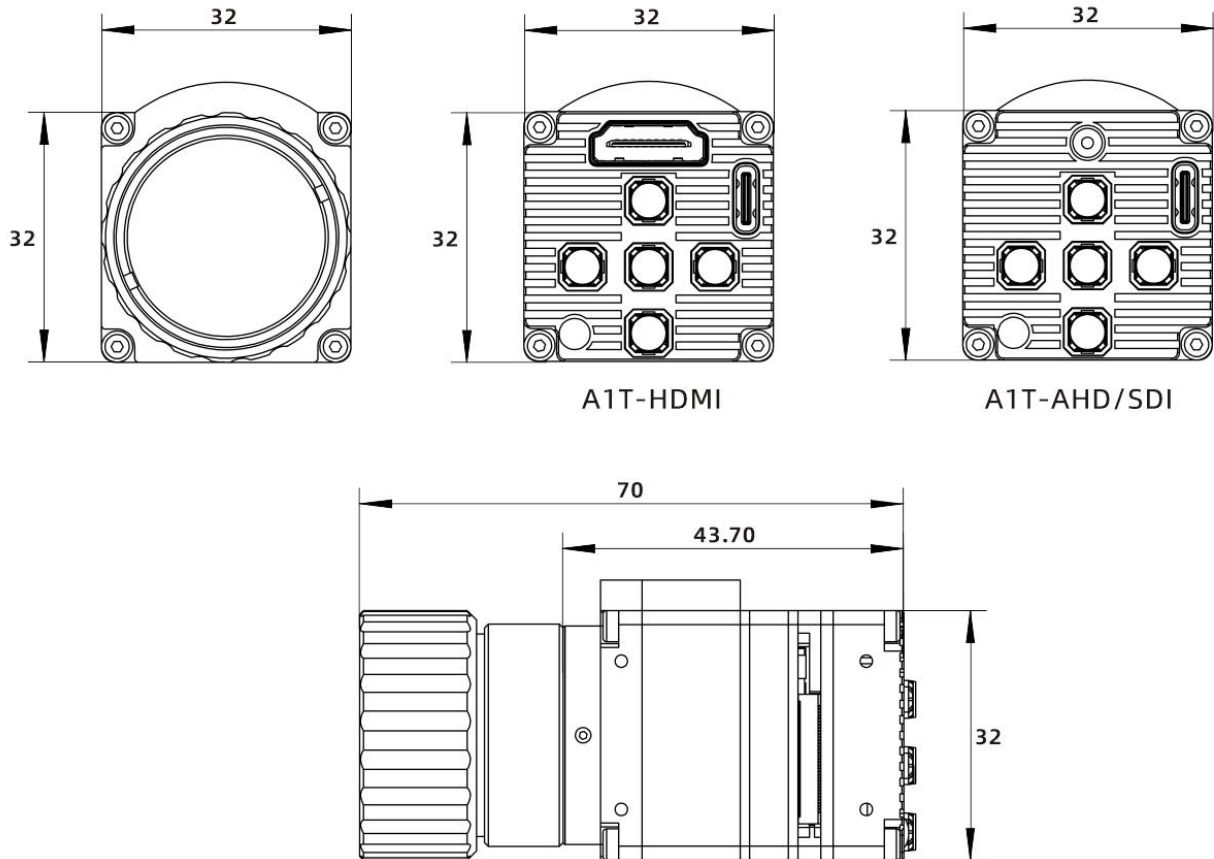
Industrial monitoring, outdoor, inspection robot

## Parameters

|                       |          |   |                   |
|-----------------------|----------|---|-------------------|
| Model                 |          | A1T   |                   |
| Infrared Detector     |          |   |                   |
| Detector Type         |          | Uncooled VOx Infrared Detector                                      |                   |
| Resolution            |          | 384x288   | 640x512           |
| Frame Rate            |          | 25Hz/30Hz/50Hz  | 25Hz/30Hz         |
| NETD                  |          | ≤40mK @25°C,F#1.0   | ≤35mK @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 Zoom          |          | 1.0~4.0x  |                   |
| Button                |          | Up, Down, Left, Right, Menu button                                  |                   |
| Output                |          |   |                   |
| Output Port           | A1T-HDMI | HDMI, Type-C  |                   |
|                       | A1T-AHD  | MCX, Type-C   |                   |
|                       | A1T-SDI  | MCX, Type-C   |                   |
| Resolution            | A1T-HDMI | 1024x768@50Hz   |                   |
|                       | A1T-AHD  | 720P/PAL  |                   |
|                       | A1T-SDI  | 720P/PAL  |                   |
| USB (UVC) Resolution  |          | 384x288   | 640x512           |
| Electrical Parameters |          |   |                   |
| Power Port            |          | USB Type-C  |                   |
| Power Supply          |          | 5V DC   |                   |
| Power Consumption     |          | 1.2W  | 1.5W              |
| Other                 |          |   |                   |
| Lens                  |          | Default 25mm, M25 x 0.5, Multiple Focal Lengths Available           |                   |
| Dimension(No lens)    |          | 32x32x43.70mm   |                   |
| Weight(No lens)       |          | 59g   |                   |
| Operating Temperature |          | -20°C~60°C  |                   |
| Storage Temperature   |          | /   |                   |
| Humidity              |          | /   |                   |

## Dimension

Unit: mm



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