

Thermal Imaging Core

General information about ADTC-7025TC Thermal Imaging Core:

ADTC-7025TC are high level shutter less thermal imaging camera cores which can be used for various applications such as UAV& Robot integration, defense& surveillance system integration, thermal night vision and so on.

Main Features:

- ✓ Compact design, 38mmx38mm size, weight 55g
- ✓ Energy-saving design, lowest power consumption (less than 0.65W)
- ✓ Shutterless and IVE(Intelligent View Enhancement) technologies
- ✓ Isolated metal frame for radiating
- ✓ Digital zoom up to 4X



Technical specification of the device:

Detector Data:

- Material:aSi
- IR resolution:384×288
- Pixel pitch:17μm
- Spectral range:7.5~14μm
- NETD/Sensitivity:60mK

Lens Data:

- Lens(Optional):9mm/13mm/19mm/25mm/35mm/50mm/75mm athermal lenses, various motorized lenses

Image Performance:

- NUC:Shutterless technology
- Image enhancement:IVE image enhancement algorithm
- Frequency:50Hz
- Zoom:2x、 4x
- Polarity/LUT mode:Black hot/White hot
- Startup time:3s
- Image gain:Auto/Manual
- Cross cursor:ON/OFF

Interface:

- Primary electrical connector:40pin
- Control port:RS232
- Analog video output:BNC(75Ω); CCIR/PAL
- Digital video output:14-Bit original data, 8-Bit BT656(customizable)
- Keypad:5 button keyboard

Power System:

- Working voltage:DC: +2.5V~+5.5V(standard: 3.7V)
- Power consumption:0.65W (BT656<1.0W)
- Reverse polarity protection:Yes
- Over voltage protection:Yes



Environmental Parameters:

- Operating temperature range:-40 °C~+60°C
- Storage temperature range:-50 °C~+70°C
- Humidity:5%~95% (non-condense)
- Shock:GJB150-16 2.3.1, 100g: 6msec
- Vibration:GJB150-16 2.3.1, 4.3g 3 axes, 8h

Physical Data:

- Size:38mm×38mm×21mm(From FPA to back)
- Weight:≤55g(without lens)
- Mounting:M2×0.4

Packing:

- Standard:Thermal imaging core, integrated cable, user manual of CD,
- warranty card, calibration certificate

