

Thermal Imaging Core

General information about ADTC-7024TC Thermal Imaging Core

ADTC-7024TC are mid-wave cooled thermal imaging cores with SOFRADIR detectors which can be easily integrated into infrared systems that require extremely long distance detection and adaption to any harsh environment.

Main Features:

- ✓ Cooled HgCdTe detector
- ✓ Continuous optical zooming, triple view, multiple lenses are optional
- ✓ Formidable image processing ability
- ✓ Multiple interfaces, easy integration
- ✓ Compact design, high level of integration



Technical specification of the device:

Detector Data

- Type:MCT
- IR resolution:640×512
- Pixel pitch:15μm
- Spectral range:3~5μm
- NETD/Sensitivity:20mK

Lens Data

- FOV:1.7°×1.4°~36.5°×29.2°
- Focal distance:15mm~330mm continuous zoom lens
- F#:2/4
- Lens(Optional):50/250mm dual FOV lens, 15mm~250mm continuous zoom
- lens, 21mm~420mm continuous zoom lens, 30mm~660mm continuous zoom lens

Image Performance

- Correcting Manual correction, background correction
- Image enhancement:Auto image filtering, DDE
- Image mirroring:Vertical, horizontal
- Frequency:Max100Hz
- Zoom:2x、4x
- Polarity/LUT mode:Black hot/White ho
- Cross display:Yes

Interface

- Control port:RS232/RS422
- Analog video output:PAL
- Digital video output:CameraLink

Power System

- Working voltage:DC: +24V~+32V
- Power consumption:<12W@25°C(standard)
- <24W@25°C(max)
- Cooling time:≤8min



Environmental Parameters

- Operating temperature range:-40 °C~+60°C
- Storage temperature range:-40 °C~+70°C
- Humidity:5%~95% (non-condense)
- Shock:1/2 sine, 40g/18ms, 3 shocks per axis
- Vibration:5Hz-10Hz, peak 5mm, 10Hz-100Hz, 2.5g

Physical Data

- Size:140mm×72.2mm×89.6mm(without lens)
- Weight:≤880g

