

ThermalTronix

TT-1640CLD-DS

Thermal Imaging Camera



FEATURES

384×288 resolution (25um).

Frame rate 25~50Hz.

High uniformity, low thermal noise.

Short integral time, high sensitive.

Extended operating temperature range -40°C to 60°C.

Military standard qualification.

Fully self-intellectual property.

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DESCRIPTION

The Uncooled Micro-bolometer infrared FPA detector researched and developed by Intellisystem has already been applied in industrial production. It has the advantages of high resolution, high sensitivity, low thermal noise and fast response. The detector are much suitable for thermography, security surveillance, vehicle night vision and various other applications.

SPECIFICATIONS

Item	<i>ThermalTronix TT-1640CLD-DS</i>
Material	Amorphous silicon
Array size	640×480
Pixel pitch	25μm
Fill factor	≥60%
Spectral range	8-14μm
Temperature control	TEC
Frame rate	25HZ (single), 50Hz (double)
NETD	≤60mK (f/1,300K,30-60Hz)
Thermal time constant	≤5ms
Responsively	≥8mV/K
Operability	≥99%
Power supply	5V
Power consumption	≤300mW (excluding TEC)
Output	single analog output
Dimensions	32mm×23.5mm×7.6mm (pin is not included)
Weight	≤20g
Operating temperature	-40°C ~ 60°C
Storage temperature	-40°C ~ 85°C
Standards	MIL-STD-810 and -883