

ThermalTronix

TT-1160CLD-DS

Thermal Imaging Camera



FEATURES

160×120 resolution (25um).

Frame rate 30~100Hz.

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.

DESCRIPTION

The Uncooled Micro-bolometer infrared FPA detector researched and developed by Intellisystem Technologies 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-1160CLD-DS</i> |
| Material | Amorphous silicon |
| Array size | 160×120 |
| Pixel pitch | 25µm |
| Fill factor | ≥60% |
| Spectral range | 8-14µm |
| Temperature control | TEC |
| Frame rate | 30-100Hz |
| NETD | ≤60mK (f/1,300K,30-100Hz) |
| Thermal time constant | ≤5ms |
| Responsively | ≥8mV/K |
| Operability | ≥99% |
| Power supply | 5V |
| Power consumption | ≤100mW (excluding TEC) |
| Output | single analog output |
| Dimensions | 20.8mm×14.6mm×6.5mm (pin is not included) |
| Weight | ≤6g |
| Operating temperature | -40°C ~ +60°C |
| Storage temperature | -40°C ~ +85°C |
| Standards | MIL-STD-810 and -883 |