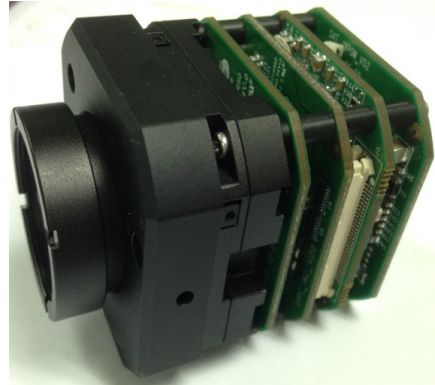


Overview

The TCC-LW640-25 Thermal Camera Core is a compact product designed for surveillance in total darkness or temperature measurement applications.

The TCC-LW640-25 Thermal Camera Core consists of a 640 x 480 uncooled Amorphous silicon (ASi) micro bolometer detector and imaging processing electronics which can be used as a core device for thermal cameras. It provides high quality infrared images by detecting the 8 to 14 μm LWIR wavelength.

Cantronic's expertise in this technology provides a complete night vision solution with a full spectrum of infrared wavelength.



Key Features

- Compact and light weight LWIR thermal camera core
- 640 x 480 uncooled ASi detector
- Surveillance/Temperature measurement switchable
- Control via RS-232C interface for contrast, brightness, polarity, digital zoom and FPN correction
- Thermal seeking, passive infrared
- Long operating life with no cooler required

Applications

This unique system of night vision power is Cantronic's solution to an increased need for security and homeland protection for broad range of facilities and infrastructure such as:

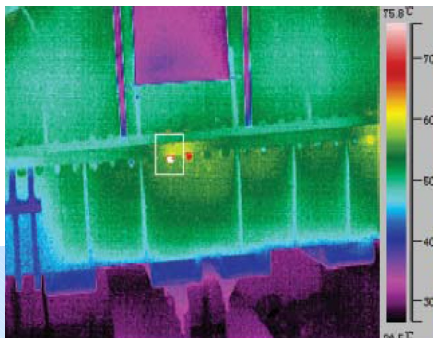
- Border/Perimeter Patrol
- Forest Fire/Temperature Measure
- Law Enforcement Agencies
- Day/Night Scouting
- Hunting and Theft



Specifications

Detector type	Uncooled Micro bolometer (TEC less)		
Wave Length	8 - 14 um		
Pixel Pitch	25um		
Resolution (Pixels)	160 x 120	384 x 288	640 x 480
Field of View / Min Focus Distance	12.1° x 9.0° / 0.3m	28.9° x 21.7° / 0.3m	48.2° x 36.2° / 0.3m
NETD	80mk@30°C, # F1.0	50mk@30°C, # F1.0	60mk@30°C, # F1.0
Standard Lens	19mm		
Detector type	Uncooled Micro bolometer (TEC Less)		
Measurement Range	-20°C ~ +250°C (Standard), Extendable to +600°C (Optional)		
Accuracy	±2°C or ±2%		
Temperature Measurement Mode	Highest Temperature Point / Central Point Temp. Area, Line Analysis		
Over Temperature Alarm	Yes		
Control Mode	RS232 / Keypad		
Parameter Correctable	Ambient temperature, Emissivity, Distance, Humidity		
Video Output	NTSC (60Hz) / PAL (50 Hz)		
Power Supply	8—12 VDC		
Operating Temperature Range	-15°C ~ +50°C		
Storage Temperature Range	-40°C to +70°C		
Humidity	95%, non-condensing		
Encapsulation	IP40, IP54 optional		
Weight	110g		
Size	43.5mm x 45.5mm x 52.3mm		

Other selectable lens available: 9, 10, 13, 25, 35mm,
More customized lens available for surveillance application



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