

TC640SMW

Small Mid-wave Cooled Thermal Imaging Core

TC640SMW is a small sized mid-wave cooled thermal imaging core with high-resolution detector which can be easily integrated into infrared systems that require extremely long distance detection and adaption to any harsh environment.

Features

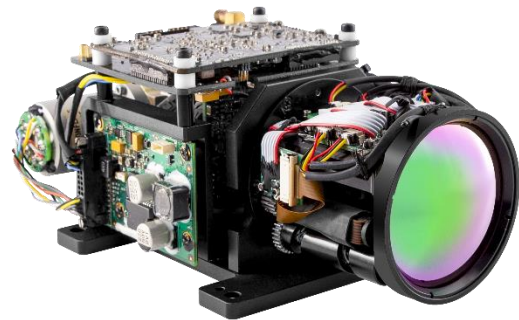
HgCdTe detector

Continuous zoom, triple views, dual views lenses and no lens are optional

Formidable image processing ability

Multiple interfaces, easy integration

Compact design, low power consumption



Applications

Border and coastal surveillance

Airborne infrared warning system

Airborne electro-optical pod

Shipborne electro-optical pod



ULIRVISION

Technical Specifications

Item	TC640SMW
Cooler	Stirling
Detector Data	
Type	HgCdTe
IR resolution	640×512
Pixel pitch	15μm
Spectral range	3.7~4.8 μ m
NETD/Sensitivity	≤25mK
Lens Data	
Focal distance	20mm~275mm continuous zoom lens(±5%)
FOV	28° ×22° ~2.1° ×1.6° (±5%)
F/#	5.5
Lens(optional)	15mm~330mm f4 continuous zoom, 18mm~430mm f5.5 continuous zoom, 30mm~600mm f5.5 continuous zoom and other continuous zoom or triple views, duel views lenses are optional
Image Performance	
Correction	Manual correction, background correction
Image enhancement	Yes, DDE
Imaging mirroring	Vertical, horizontal
Frequency	50Hz
Amplification	2X, 4X
Polarity/LUT mode	Black hot/White hot
Cross cursor	Yes
Detection distance	
Detect people(1.8m X 0.5m)	≥6km, under limited conditions
Detect vehicles(2.3m X 2.3m)	≥12km, under limited conditions
Interface	
Control	RS422
Analog video output	PAL
Digital video output	CameraLink
Power System	
Working voltage	20V~32VDC (power protection)
Power consumption	<15W@25℃ (standard)
	<25W@25℃ (max)
Cooling time	≤6min(normal temperature)
Environment Parameters	
Operating temperature range	-40℃~+60℃
Storage temperature range	-40℃~+70℃
Humidity	5%~95% (non-condense)
Shock	1/2 Sine, 30g, 11ms, 3 shocks per axis
Vibration	3 axes, 10min/axis, 8.1g rms, 20-2000Hz
Physical data	
Size	125mm×106.6mm×71.6mm(without lens)
Weight	≤1350g