

TC640SMW

Small Mid-wave Cooled Thermal Imaging Core

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

Features

HgCdTe detector

Continuous optical zooming, triple views, multiple lenses are optional

Formidable image processing ability

Multiple interfaces, easy integration

Compact design, low power consumption



Applications

Border and coastal surveillance

Fire control system of armed vehicles

Airborne infrared warning system

Airborne electro-optical pod

Shipborne electro-optical pod

ULIRVISION

Technical Specifications

Item	TC640SMW
Cooler	Stirling
Detector Data	
Type	MCT
IR resolution	640×512
Pixel pitch	15μm
Spectral range	3~5μm
NETD/Sensitivity	20mK
Lens Data	
FOV	2.2°×1.8°~36.5°×29.2°
Focal distance	15mm~250mm continuous zoom lens
F/#	F4/F5.5
Lens(Optional)	50/250mm duel FOV lens, 25/80/320 triple FOV lens, 18mm~275mm continuous zoom lens, 18mm~435mm continuous zoom lens(optional: 960mm continuous zoom lens)
Image Performance	
Correcting	Manual correction, background correction
Image enhancement	Auto Image Filtering, DDE
Image mirroring	Vertical, horizontal
Frequency	50Hz
Zoom	2x、4x
Polarity/LUTmode	Black hot/White hot
Cross display	Yes
Interface	
Control port	RS232/RS422
Analog video output	PAL
Digital video output	SLVDS/CameraLink
Power System	
Working voltage	DC: +24V~+32V
Power consumption	<10W@25℃(standard)
	<20W@25℃(max)
Cooling time	≤8min
Environmental Parameters	
Operating temperature range	-40℃~+60℃
Storage temperature range	-40℃~+70℃
Humidity	5%~95%(non-condense)
Shock	20g shock pulse with 6ms half sine
Vibration	1.5g 5-200Hz sine
Physical Data	
Size	125mm×115mm×98mm
Weight	800g