

TC320MW|TC640MW

Mid-wave Cooled Thermal Imaging Cores

TC320MW|TC640MW are mid-wave cooled thermal imaging cores with SOFRADIR detectors which can be easily integrated into infrared systems that require extremely long distance detection and adaption to any harsh environment.

Features

Cooled HgCdTe detector

Continuous optical zooming, triple view, multiple lenses are optional

Formidable image processing ability

Multiple interfaces, easy integration

Compact design, high level of integration

Applications

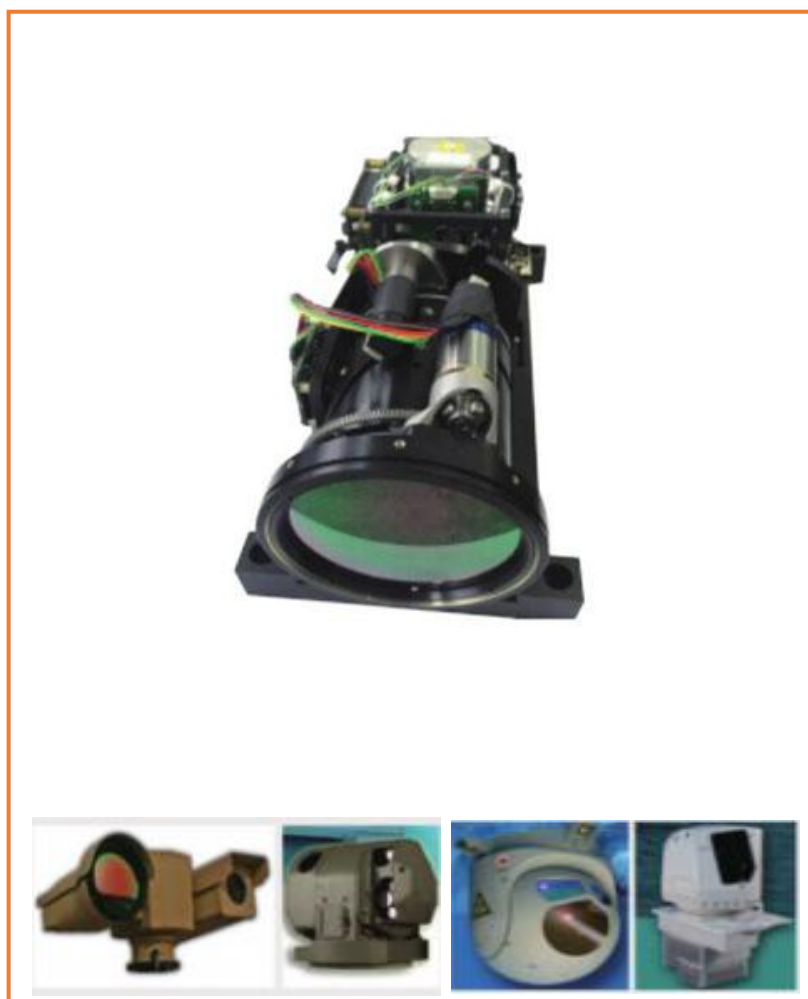
Border and coastal surveillance

Fire control system of armed vehicles

Airborne infrared warning system

Airborne electro-optical pod

Shipborne electro-optical pod



ULIRVISION

Technical Specifications

Item	TC320MW	TC640MW
Cooler	Stirling	
Detector Data		
Type	MCT	
IR resolution	320×256	640×512
Pixel pitch	30μm	15μm
Spectral range	3~5μm	
NETD/Sensitivity	18mK	
Lens Data		
FOV	1.7°×1.4°~36.5°×29.2°	
Focal distance	15mm~330mm continuous zoom lens	
F/#	F2/F4	
Lens(Optional)	50/250mm duel FOV lens, 25/80/320 triple FOV lens, 15mm~250mm continuous zoom lens, 21mm~420mm continuous zoom lens, 30mm~660mm continuous zoom lens	
Image Performance		
Correcting	Manual correction, background correction	
Image enhancement	Auto image Filtering, DDE	
Image mirroring	Vertical, horizontal	
Frequency	200Hz	100Hz
Zoom	2x	2x、4x
Polarity/LUT mode	Black hot/White hot	
Cross display	Yes	
Interface		
Control port	RS232/RS422	
Analog video output	PAL	
Digital video output	CameraLink	
Power System		
Working voltage	DC: +24V~+32V	
Power consumption	<12W@25℃ (standard)	
	<24W@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	160mm×92mm×86mm(without lens)	
Weight	≤2.47kg(with 330mm lens)	