

# TC320MW|TC640MW

## Mid-wave Cooled Thermal Imaging Cores

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

### Features

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Cooled HgCdTe detector

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

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Formidable image processing ability

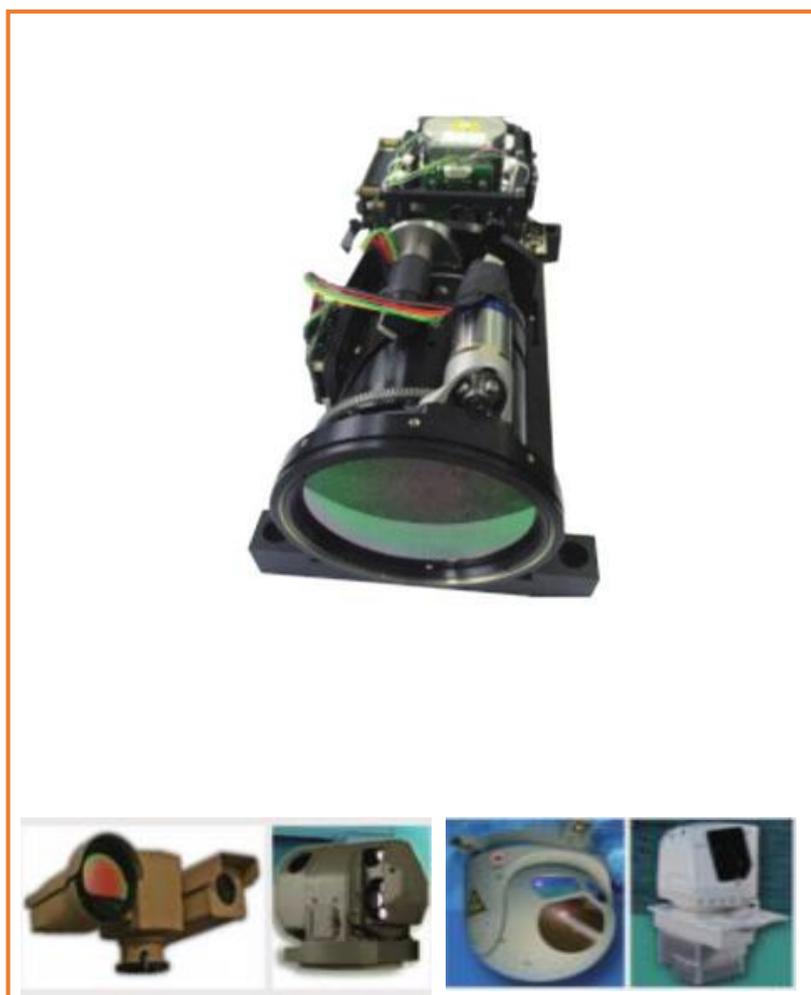
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Multiple interfaces, easy integration

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Compact design, high level of integration

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### Applications

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Border and coastal surveillance

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Airborne infrared warning system

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Airborne electro-optical pod

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Shipborne electro-optical pod

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ULIRVISION

## Technical Specifications

Item	TC320MW	TC640MW
Cooler	Stirling	
<b>Detector Data</b>		
Type	MCT	
IR resolution	320×256	640×512
Pixel pitch	30μm	15μm
Spectral range	3~5μm	
F.no	4	
NETD/Sensitivity	≤20mK	
<b>Lens Data</b>		
Focal distance	15mm~330mm continuous zoom lens(typical)	
FOV	35°×28°~1.7°×1.4°	
F/#	4	
Lens(optional)	60/240mm duel FOV lens、 21mm~420mm continuous zoom lens、 30mm~500mm continuous zoom lens、 30mm~660mm continuous zoom lens and various other lenses are optional	
<b>Image Performance</b>		
Correction	Manual correction, background correction	
Image enhancement	Auto image Filtering, DDE	
Imaging mirroring	Vertical, horizontal	
Frequency	Max200Hz	Max100Hz
Amplification	2X	2X, 4X
Polarity/LUT mode	Black hot/White hot	
Cross cursor	Yes	
<b>Interface</b>		
Control	RS232/RS422	
Analog video output	PAL	
Digital video output	LVDS/CameraLink	
<b>Power System</b>		
Working voltage	20V~28VDC (power protection)	
Power consumption	<12W@25℃ (standard)	
	<24W@25℃ (max)	
Cooling time	≤6min(Normal temperature)	
<b>Environment Parameters</b>		
Operating	-40℃~+60℃	
Storage temperature	-40℃~+70℃	
Humidity	5%~95% (non-condense)	
Shock	1/2 Sine, 30g, 11ms, 3 shocks per axis	
Vibration	3 axes, 30min/axis, 2.1g rms, 10-500Hz	
<b>Physical data</b>		
Size	143.5mm×94mm×87.5mm	
Weight	≤880g	