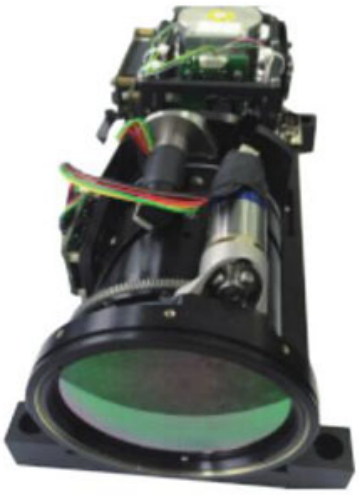
TC320MW|TC640MW

Mid-wave Cooled Thermal Imaging Cores

TC320MW|TC640MWare mid-wave cooled thermal imaging cores withhigh-quality 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 zoom, triple view, duelviewlenses and no lens 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	
F.no	4	
NETD/Sensitivity	≤20mK	
Lens Data		
Focal distance	15mm～330mm continuous zoom lens(typical)	
FOV	1.7°×1.4°~36.5°×29.2°	
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	
Image Performance		
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	
Interface		
Control	RS232/RS422	
Analog video output	PAL	
Digital video output	LVDS/CameraLink	
Power System		
Working voltage	+24V～+32V(power protection)	
Power consumption	<12W@25℃(standard)	
	<24W@25℃(max)	
Cooling time	≤6min(Normal temperature)	
Environment Parameters		
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	
Physical data		
Size	140mm×72.2mm×89.6mm(without lens)	
Weight	≤880g	