

# TC390|TC690G

## Thermal Imaging Cores

**TC390|TC690G** are high level shutterless thermal imaging camera cores which can be used for various applications such as UAV&Robot integration, defense&surveillance system integration, thermal night vision and so on.

### Features

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Compact design, 38mmx38mm size, weight 55g

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Energy-saving design, lowest power consumption (less than 0.75W/1W )

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Shutterless and IVE(Intelligent View Enhancement) technologies

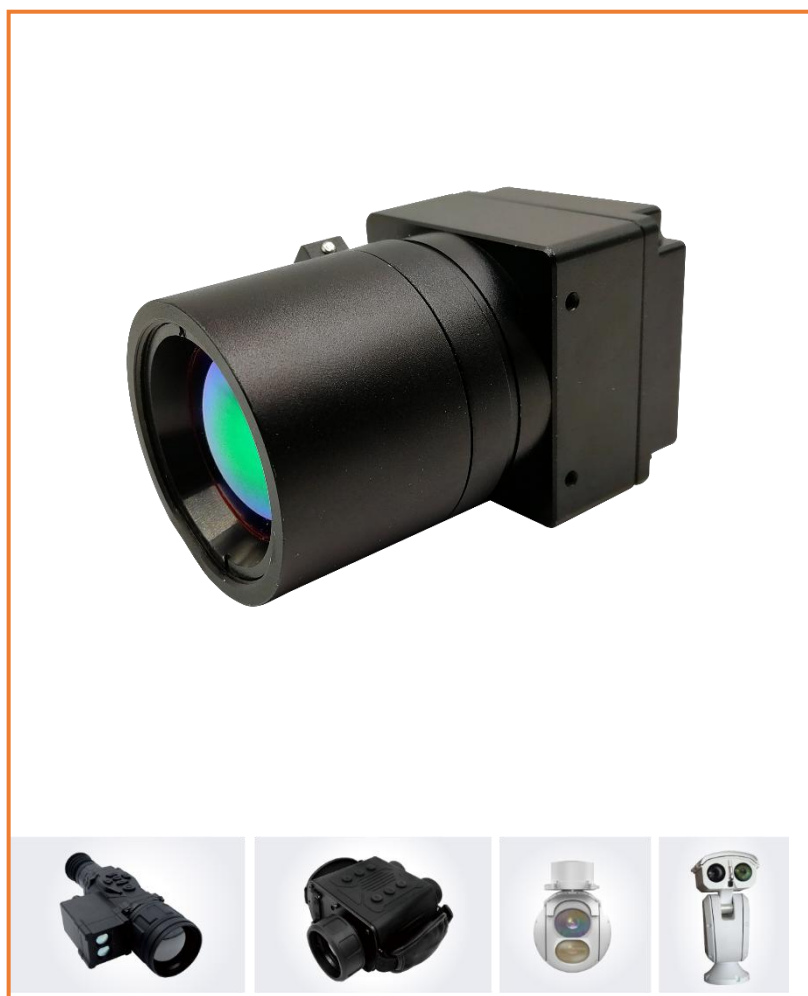
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Isolated metal frame for radiating

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Digital zoom up to 4X

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### Applications

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Thermal imaging integration (telescope, thermal weapon sight, etc.)

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Electro-optical system for UAV&aircraft

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Driver's Vision Enhancement system

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## Technical Specifications

Item	TC390	TC690G
<b>Detector Data</b>		
Material	aSi	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5 ~ 14μm	
NETD/Sensitivity	≤60mK	≤50mK
<b>Lens Data</b>		
Lens(optional)	35mm、50mm、75mm athermal lenses, 100mm、150mm motorized lens, 25~100mm、30~150mm、25~225mm continuous zoom lens、60/150mm dual FOV lens(optional)	
<b>Image Performance</b>		
NUC	Shutterless technology	
Image enhancement	IVE image enhancement algorithm	
Frequency	50Hz	
Amplification	2X, 4X	
Polarity/LUT mode	Black hot/White hot	
Startup time	3s	
Image gain	Auto/Manual	
Cross cursor	ON/OFF	
<b>Interface</b>		
Primary electrical connector	40pin	
Control	RS232	
Analog video output	PAL	
Digital video output	Cameralink、LVC MOS、8-Bit BT656 optional	
Keypad	5 button keyboard	
<b>Power System</b>		
Working voltage	DC: +2.5V~+5.5V(standard: 3.7V)	
Power consumption	0.75W	1W
Reverse polarity protection	Yes	
Over&Under voltage	Yes	
<b>Environment Parameters</b>		
Operating temperature range	-40℃~+60℃	
Storage temperature range	-50℃~+70℃	
Humidity	5%~95% (non-condense)	
Shock	GJB150-16 2.3.1, 100g; 6msec	
Vibration	GJB150-16 2.3.1, 4.3g 3 axes, 8h	
<b>Physical data</b>		
Size	38mm×38mm×21mm(From FPA to back)	
Weight	≤55g(without lens)	
Mounting	M2×0.4	
<b>Packing</b>		
Standard	Thermal imaging core, interface cable, USB flash drive, warranty card, calibration certificate	