

TC388G|TC688G

Thermal Imaging Cores

TC388G|TC688G are the thermal imaging camera cores with advanced reliable shutter, it can provide stable and high quality thermal images and videos. It can be easily integrated into defense, security and surveillance systems.



PRODUCT FEATURE

- **17 μ m** pixel pitch, NETD \leq **60mK**
- **50Hz** imaging frequency, **3s** for start-up
- **IVE** technology
- Ultra-low power consumption (less than **1.5W**)
- Customizable interfaces

APPLICATION CASE

- Surveillance systems
- Thermal image pan&tilt
- Weapon targeting systems
- Vehicle and shipborne monitoring systems



TECHNICAL SPECIFICATIONS

Item	TC388G	TC688G
Detector Data		
Material	aSi	
IR resolution	384x288	640x480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	≤70mK	≤60mK
Lens Data		
Lens (Optional)	35mm, 50mm, 75mm athermal lens, 100mm, 150mm motorized lens, 25mm~100mm, 30mm~150mm, 25mm~250mm continuous zoom lens, 60mm/150mm dual FOV lens (other lens are optional)	
Image Performance		
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	
Focus	Motor	
Cross	ON/OFF	
Image frozen	Yes	
Interface		
Primary electrical connector	40pin	
Control port	RS232	
Analog video output	PAL	
Digital video output	Cameralink, LVCMOS optional	
Keypad	4button keyboard	
Power System		
Working voltage	DC: +4.7V~+5.5V (standard: 5V)	
Power consumption	1.5W	1.25W
Reverse polarity protection	Yes	
Over&Under voltage	Yes	
Environmental Parameters		
Operating temperature range	-40 °C ~+60 °C	
Storage temperature range	-50 °C ~+70 °C	
Humidity	5%~95% (non-condense)	
Shock	GJB150-16 2.3.1, 100g; 6msec	
Vibration	GJB150-16 2.3.1, 4.3g 3 axes, 8h	
Physical Data		
Size	44.5mm×44.5mm×39.5mm	
Weight	≤103g (without lens)	≤100g (without lens)
Mounting	4xM2×0.4, 1/4"-20	
Packing		
Standard	Thermal imaging core, interface cable, USB flash drive, warranty card, calibration certificate	

*This manual is for reference only. Due to product updates and improvements, contents and parameters are subject to change without notice.

