TC388|TC688

Thermal Imaging Core

TC388|TC688 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.

Features

- 50Hz imaging frequency, 3s for start-up
- Ultra-low power consumption(less than 1.2W)
- IVE technology
- Customizable interfaces
- PAL&NTSC switchable analog video output

Applications

- Surveillance systems
- Weapon targeting systems
- Vehicle and shipborne monitoring systems

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Technical Specifications

Item	TC388	TC688
Detector Data		
Material	aSi	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	65mK	
Lens Data		
Lens(Optional)	9mm/13mm/19mm/25mm/35mm/50mm/75mm athermal lens, 100mm/150mm motorized lens, dual FOV lens, continuous zoom lens(optional)	
Image Performance		
Image enhancement	IVE image enhancement algorithm	
Frequency	50Hz	
Zoom	2x、4x	
Polarity/LUT mode	Black hot/White hot	
Startup time	3s	
Image gain	Auto/Manual	
Focus	Motor	
Cross cursor	ON/OFF	
Image frozen	Yes	
Interface		
Primary Electrical Connector	40pin	
Control port	RS232	
Analog video output	BNC(75Ω); CCIR/PAL	
Digital video output	16-Bit original data, 8-Bit BT656(customizable)	
Keypad	4 button keyboard	
Power System		
Working voltage	DC: +4V～+5.5V(Standard: 5V)	
Power consumption	1.5W	
Reverse polarity protection	Yes	
Over voltage protection	Yes	
Environmental Parameters		
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 3axises, 8h	
Physical Data		
Size	44.5mm×44.5mm×39.5mm	
Weight	≤77g(without lens)	
Mounting	M2×0.4, 1/4”-20	
Packing		
Standard	Thermal imaging core, integrated cable, user manual of CD, warranty card, calibration certificate	