



Thermal Imaging Cores **TC388 / TC688**

Thermal imaging cores for system integration:

The **TC388** and **TC688** thermal imaging camera cores are equipped with an advanced, reliable internal shutter to provide stable and high quality thermal images and videos. Both camera cores can be easily integrated in machine vision, border control and military monitoring and surveillance systems.

Features:

- Compact design, 44.5 x 44.5 x 39.5mm, 100grams
- Low power consumption: <1.25W / 1.5W
- Internal shutter
- IVE(Intelligent View Enhancement)
- PAL / NTSC selectable
- Digital zoom up to 4X



Specifications:

	TC388	TC688
Detector material	a-Si	a-Si
Detector resolution	384 x 288 pixels	640 x 480 pixels
Pixel pitch	17µm	
Spectral range	7.5 - 14µm (LWIR)	
Non-Uniformity Correction	Shutterless technology	
Image enhancement	IVE image enhancement algorithm	
Image gain	Auto / Manual	
Frame rate	50Hz	
Digital zoom	2X, 4X	
Focus	Motorized focus	
Polarity	White hot / Black hot	
Thermal sensitivity (NETD)	≤ 65mK	
Start up time:	3 seconds	
Available lenses	Athermalized 9, 13, 19, 25, 35, 75, 100mm Motorized lens: 150mm Zoom lenses upon request Dual FoV lens upon request	
Spot measurement	On / Off	



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Specifications (cont'd):

	TC388	TC688G
Power connector		40pins
Control		RS232
Analog video output		BNC (75Ω), CCIR / PAL
Digital video output		14-Bit original data, 8-Bit BT656(customizable)
Keypad		4 button keypad
Power		DC +4V~+5.5V (standard 5V)
Power consumption	1.5W	1.25W
Reverse polarity protection		Yes
Over-/Under voltage protection		Yes
Operating temperature		-40°C~+60°C
Storage temperature		-50°C~+70°C
Humidity		5%~95% RH (non condensing)
Shock resistance		GJB150-16-2.3.1, 100g, 6msec
Vibration resistance		GJB150-16 2.3.1, 4.3g 3 axes, 8h
Physical data:		
Dimensions		44.5 x 44.5 x 39.5mm
Weight	≤ 103g (without lens)	≤ 100g (without lens)
Mount		M2 x 0.4
Standard accessories		Thermal imaging core, interface cable, Software CD, warranty card, standard calibration certificate

