# 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.

## Features

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


## Applications

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

**Technical Specifications**

ULIRVISION

| Item | TC388G | TC688G |
|---|---|---|
| **Detector Data** | | |
| Material | aSi | |
| IR resolution | 384×288 | 640×480 |
| 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, 25~100mm、30~150mm、25~225mm continuous zoom lens、60/150mm 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 | |
| Focusing | Motor | |
| Cross cursor | ON/OFF | |
| Image frozen | Yes | |
| **Interface** | | |
| Primary electrical | 40pin | |
| Control | RS232 | |
| Analog video output | PAL | |
| Digital video output | Cameralink、LVCMOS optional | |
| Keypad | 4 button keyboard | |
| **Power System** | | |
| Working voltage | DC: +4V～+5.5V(Standard: 5V) | |
| Power consumption | 1.5W | 1.25W |
| Reverse polarity | Yes | |
| Over&Under voltage | Yes | |
| **Environment Parameters** | | |
| Operating | -40℃～+60℃ | |
| Storage temperature | -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 | |
| **Physical data** | | |
| Size | 44.5mm×44.5mm×39.5mm | |
| Weight | ≤103g(without lens) | ≤100g(without lens) |
| Mounting | 4 x M2×0.4, 1/4” -20 | |
| **Packing** | | |
| Standard | Thermal imaging core, interface cable, user manual of CD, warranty card, calibration certificate | |