

# TC300G|TC700G

## Thermal Imaging Cores

TC300G|TC700G are the thermal imaging camera cores with advanced reliable shutter, it can provide stable and high-quality thermal images and videos. It is suitable for lenses of various specifications and can be easily integrated into security and surveillance systems.

### Features

---

17  $\mu$  m pixel pitch, NETD $\leq$ 30mK

---

25Hz/50Hz imaging frequency, 5s for start-up

---

15 pseudo colors

---

IVE technology, clear image

---

Customizable interfaces

---

### Applications

---

Telescope

---

Thermal image pan&tilt

---

Shipborne, vehicle-mounted, airborne

---

Photoelectric turntable, pod

---



ULIRVISION

## Technical Specifications

Item	TC300G	TC700G
<b>Detector Data</b>		
Material	aSi	
IR resolution	384 x 288	640 x 512
Pixel pitch	17μm	
Spectral range	8~14μm	
NETD/Sensitivity	<30mK	
<b>Lens Data</b>		
Lens(optional)	35mm, 50mm, 75mm Athermal lens, motorized lens, zoom lens, duel FOV lens(customizable)	
<b>Image Performance</b>		
Image enhancement	IVE image enhancement algorithm	
Frequency	25Hz/50Hz	
Amplification	2X, 4X	
Polarity/LUT mode	Black hot/White hot	
Startup time	5s	
Image gain	Auto/Manual	
Focusing	Manual/Motor (Need lens support)	
Cross cursor	Switchable	
<b>Interface</b>		
Primary electrical connector	30pin, 4pin(Focusing), 4pin(Zoom)	
Control	RS232	
Digital video output	BT.656, YUV+14BIT RAW	
<b>Power System</b>		
Working voltage	DC: +10V ~ +14V	
Power consumption	1.2W	1.6W
Reverse polarity protection	Yes	
Over&Under voltage protection	Yes	
<b>Environment Parameters</b>		
Operating temperature range	-40°C ~+70°C	
Storage temperature range	-45°C ~+85°C	
Impact resistance	700g; 1msec	
<b>Physical data</b>		
Size	40mm x 41mm x 48mm	
Weight	<86g (without lens)	
Mounting	Four M2x0.4, 1/4"-20	
Lens interface	M25 x 0.5mm, M34 x 0.75mm	
<b>Packing</b>		
Standard	Thermal imaging core, interface cable, user manual of CD, warranty card, calibration certificate	