TC300|TC700

Thermal Imaging Cores

TC300ITC700 are the thermal imaging camera cores with advanced reliable shutter, it can provide stable and high-quality thermal images and videos. Small structure design, which is suitable for fixed focus lens within 50mm. It can be easily integrated into security and surveillance systems with low requirements for space and distance changes.

Features

12μm pixel pitch, NETD≤35mK
25Hz/50Hz imaging frequency, start-up ＜6S
IVE technology, clear image
Multiple correction methods (auto/manual/background)
Customizable interfaces

Applications

Secondary development of small thermal imaging camera
Telescope and sight
Helmet
Infrared camera

ULIRVISION

Technical Specifications

Item	TC300	TC700
Detector Data		
Material	Vox	
IR resolution	384 x 288	640 x 512
Pixel pitch	12μm	
Spectral range	8~14μm	
NETD/Sensitivity	<35mK	
Lens Data		
Lens(optional)	Fixed focus lens below 50mm (customizable)	
Image Performance		
Image enhancement	IVE image enhancement algorithm	
Frequency	25Hz/50Hz	
Amplification	1X, 2X, 4X, 8X	
Polarity/LUT mode	Black hot/White hot/Red hot	
Startup time	<6s	
Image gain	Auto/Manual	
Focusing	Manual focusing	
Cross cursor	Switchable	
Interface		
Primary electrical connector	33pin+4pin	
Control	UART	
Digital video output	8-bit BT.656, YUN+RAW	
Power System		
Working voltage	DC：+2.5V ~ +5V	
Power consumption	0.8W	1.2W
Reverse polarity protection	Yes	
Over&Under voltage protection	Yes	
Environment Parameters		
Operating temperature range	-40℃ ~ +70℃, <90%RH	
Storage temperature range	-45℃ ~ +85℃, <90%RH	
Impact resistance	800g/1ms	
Vibration	5~200Hz, 1.5g, 30 minutes in each of the three direction	
Physical data		
Size	24mm x 24mm x 35mm	
Weight	<25g（without lens）	
Lens interface	M25 x 0.5mm, M34 x 0.75mm	
Packing		
Standard	Thermal imaging core, interface cable, user manual of CD, warranty card, calibration certificate	