

TC688HQ

High Performance Thermal Imaging Cores

TC688HQ are high level shutter thermal imaging camera cores which can be used for various applications such as defense & surveillance system integration, thermal night vision and so on.

Features

VOx Detector and DDE Enhance Technologies

NETD \leq 50mK

Auto focus

Pseudo color display

Customizable interface

Applications

Thermal imaging integration (telescope, thermal weapon sight, etc)

Infrared guided missile

Remote weapon station aiming system

Driver's Vision Enhancement system



ULIRVISION

Technical Specifications

Item	TC688HQ
Detector Data	
Material	Vox
IR resolution	640×512
Pixel pitch	17μm
Spectral range	8~14μm
NETD/Sensitivity	≤50mK
Lens Data	
Lens(optional)	25mm、35mm、50mm、75mm athermal lens, 100mm、150mm motorized lens, 25~100mm、30~150mm、25~225mm continuous zoom lens、 other lenses are optional
Image Performance	
Image enhancement	DDE
Frequency	50Hz
Amplification	1X~ 4X continuous
Polarity/LUT mode	Black hot/White hot
Pseudo color	Support
Startup time	10s
Image gain	Auto/Manual
Focusing	Auto-focus
Cross cursor	Movable
Image frozen	Yes
Interface	
Primary electrical	30pin
Control	RS232/RS422 optional
Analog video output	PAL
Digital video output	Cameralink/LVDS optional
Keypad	4 button keyboard
Power System	
Working voltage	DC: 12V ± 2V
Power consumption	≤2.6W (typical)
Reverse polarity protection	Yes
Over&Under voltage	Yes
Environment Parameters	
Operating temperature	-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 3axes, 8h
Physical data	
Size	48mm×45.6mm×33.5mm(without lens)
Weight	≤120g(without lens)
Mounting	4x M2×0.4, 1/4" -20
Packing	
Standard	Thermal imaging core, serial interface cable, manual CD, calibration certificate, warranty card