

TT-61LA10-TIM

ThermalTronix Uncooled HD Thermal Imaging Module resolution 640 x 512 pixel, pitch: 17 μ m. Continuous digital zoom, from 1 x -4 x (step of 0.1/1)



Product Features

TT-61LA10-TIM Series thermal imaging module is a universal module designed for OEM applications. TT-61LA10-TIM Series module is adaptable for various applications including automotive night vision system, forest fire prevention and security/surveillance, etc.

Basic Functions

- Resolution: 640 x 512, Pixel pitch: 17 μm
- High sensitivity: NETD ≤ 50mK
- Professional image processing: Digital denoise, Digital detail
- Various interfaces optional: RS232, RS422, UART (3.3V)
- Support various video outputs: PAL, LVCMOS, LVDS, Cameralink
- Weight: ≤ 100g
- Friendly electrical and mechanical interfaces



Thermal 640 x 512 Sample Images















Optional component

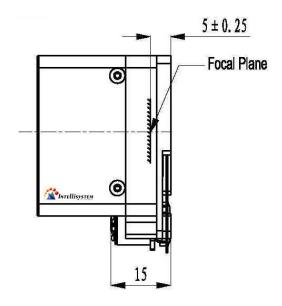
Expansion components and other accessories

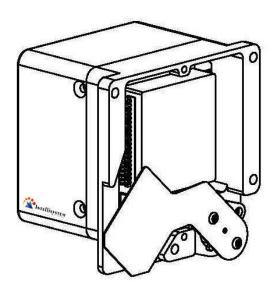
Different kinds of expansion components and accessories are available to meet customer's demands for different interfaces and functions.

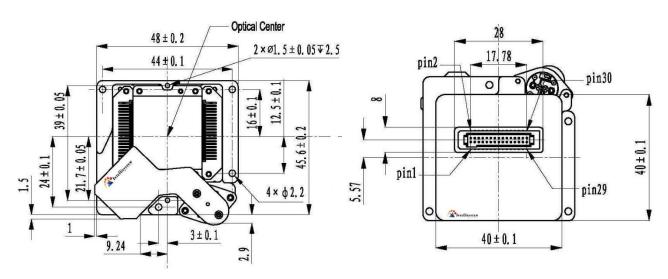
NO.	PN.	Model	Picture	Applied Model
1	Expansion Board	A00-16000	5° CO. 15.30 N to 200 SE	TT-61LA10-TIM
2	Expansion Board	A00-11000	SINCE SIM RAPASA	TT-61LA10-TIM
3	Housing	A0001		TT-61LA10-TIM module,with A00-16000 expansion board
4	Housing	A0002		TT-61LA10-TIM module, with A00-11000 expansion board

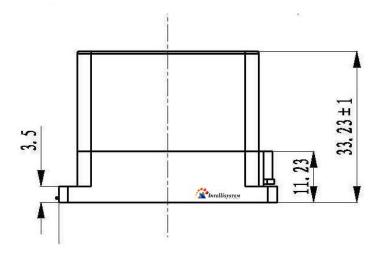


TT-61LA10-TIM without expansion modules



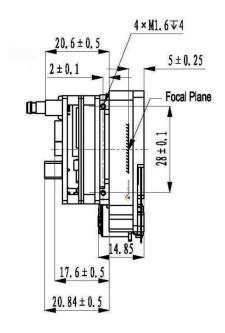


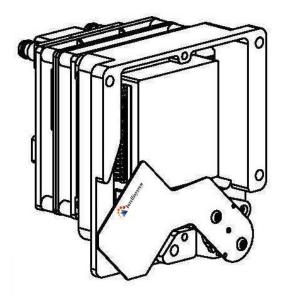


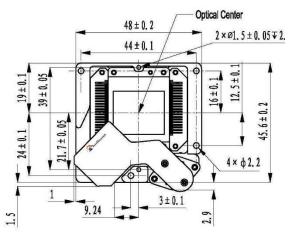


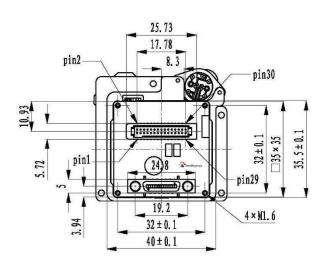


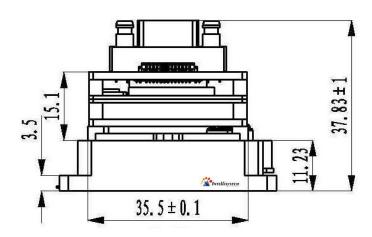
TT-61LA10-TIM with A00-16000 expansion





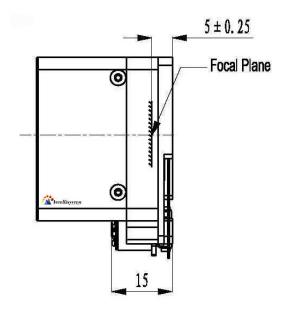


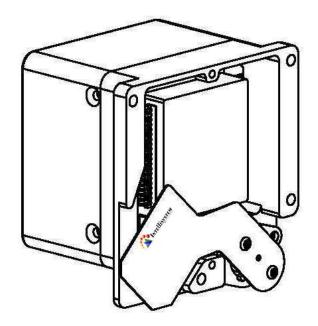


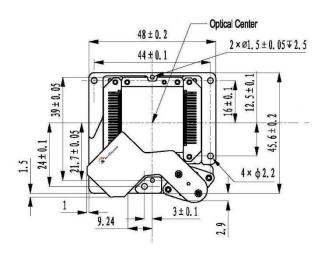


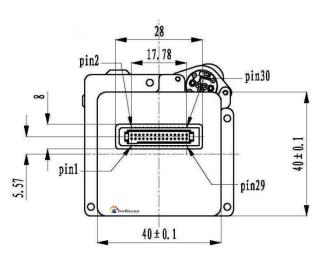


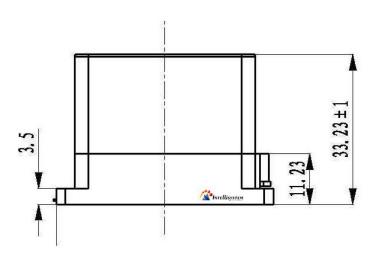
TT-61LA10-TIM with expansion borad A00-16000 & Housing A0001





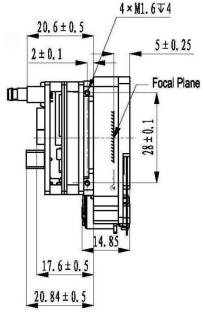


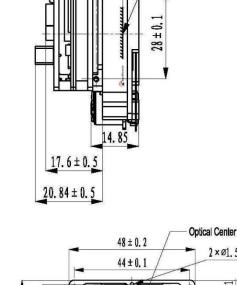


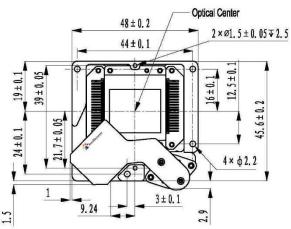


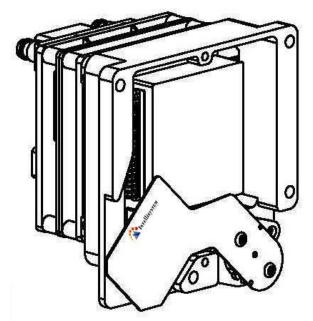


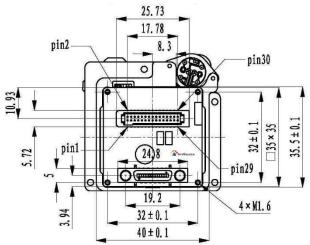
TT-61LA10-TIM with A00-11000 expansion board

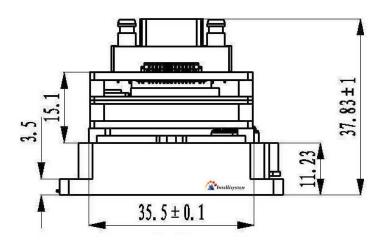






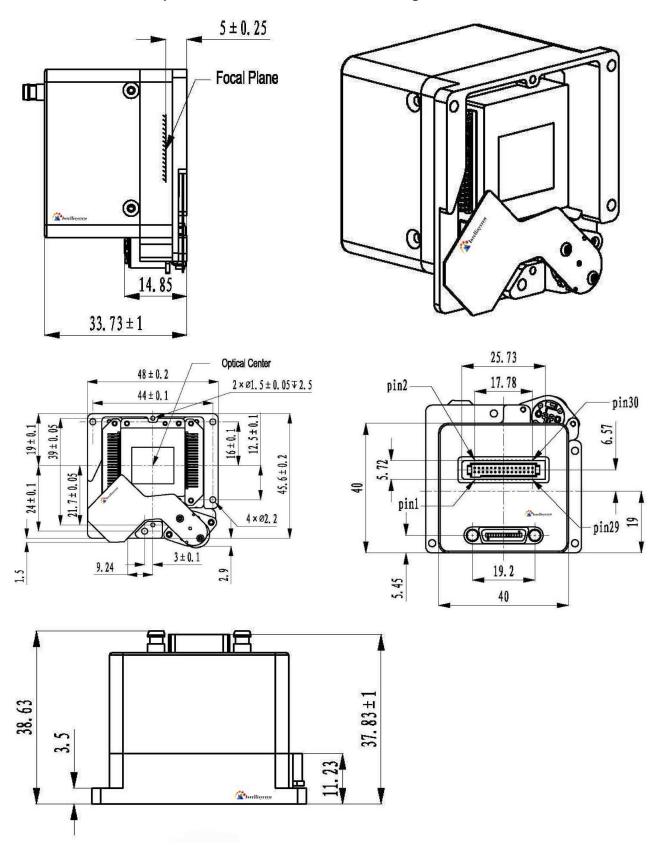








TT-61LA10-TIM with Expansion Board A00-11000 & Housing A0002





Specifications

Models	TT-61LA10-TIM			
System Type	Uncooled LWIR Thermal Imaging Module			
Performance				
Resolution	640 x 512			
Pixel Pitch	17 μm			
Spectral Band	8-14 µm			
Sensitivity (NETD)	≤60mK (50mK optional)			
TEC	Yes			
Video Format				
Frame Rate	50Hz			
Analog Video	1-CH PAL			
Digital Video	14-bit or 10-bit LVCMOS / LVDS / Cameralink			
Digital Zoom	Continuous digital zoom, from 1 × -4 × (step of 0.1/1)			
Power System				
Input Voltage	4 – 6 V Base configuration 5 – 24 V Base configuration with expansion Board			
Typical Input Voltage	4 V Base configuration 12V Base configuration with expansion Board			
Function				
Communication Interface	RS-232; UART (3.3V); RS-422			
Image Processing	Digital denoise Digital detail enhancement Non-Uniformity Correction			
Image Control	Polarity: White Hot/black Hot Orientation: Vertical/Horizontal/Diagonal Pseudo-color: support Cross cursor: Display/Hide/Move			
Physical Attributes				
Size	35mm x 35mm (circuit board)			
Weight	≤ 100g			
Environmental				
Operating Temp Range	-40°C to +60°C			
Storage Temp Range	-45°C to +85°C			