

Overview

- Compact Thermal Camera Module products adopted by shutter-less NUC (Nonuniformity Correction)
- Three products which cover from wide to telephoto field of view available.(LW10F90-E :this model uses wide type lens)
- Thanks to high performance lenses and original temperature computation format, able to measure temperature of the dedicated points. and output both temperature data and thermal image data at the same time

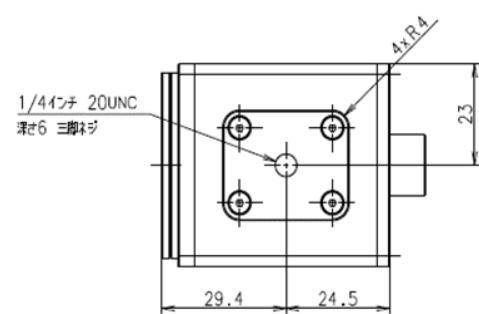
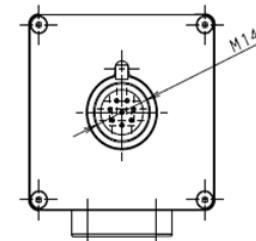
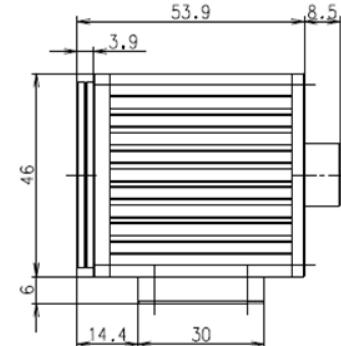
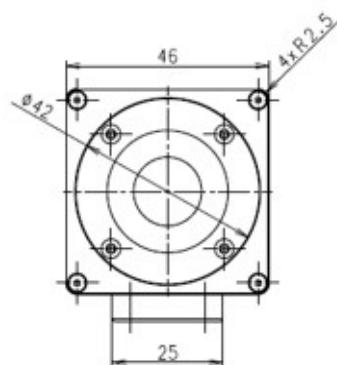
Specifications

■Detector			
Detector type	Uncooled microbolometer		
Wavelength	8~12 μm		
■Image/Optical			
Effective pixel	80 x 80 pixel		
NETD	80mK (typical)		
Lens Focal Length	f=1.9mm F/1.3		
Field of view (FOV)	90° (H) x 90° (V)		
Focus	Fixed		
Minimum object distance	80cm		
■Temperature measurement			
Temperature correction	Tamron's original temperature computation format		
Thermal image temperature range	-40°C~200°C		
Temperature Measurement range	10°C~100°C		
Temperature measurement accuracy	10°C~60°C: ±2°C ※Ambient Temperature : 10°C~40°C 10°C~100°C: ±5°C ※Ambient Temperature : 0°C~60°C ※Center area only (9 x 9 pixel) ※Not able to guarantee absolute temperature Variance may occur due to the difference in measurement conditions		
■Temperature analysis function			
Temperature analysis area	6400 pixel (always measures temperature each pixel)		
■Image processing			
Noise reduction (DNR)	OFF/2D/3D (at 8bit thermal image mode)		
GAMMA	Adjustable(at 8bit thermal image mode)		
Histogram average	Auto/Manual(at 8bit thermal image mode)		
■Interface			
Interface	10BASE-T/100BASE-TX PoE Ethernet		
Interface connector	M12 8-pin connector (The waterproof cable which converts from 8pin to RJ45 male is included)		
Output data	1)16bit temperature data (UDP protocol) 2) 8bit thermal image data (UDP protocol) 3)16bit temperature + 8bit thermal image data(UDP protocol) 1)2)3): selectable		
■General			
Power requirement	Tamron original protocol		
Power consumption	1/2/4/8 fps		
Performance temperature/humidity	Power over Ethernet(PoE) ,IEEE802.3 af		
Operating temperature/humidity	Max 1.5W		
Storage temperature	0°C ~ +60°C / 20 ~80% (no condensation)		
Dimensions (W x H x D)	-20°C ~ +70°C / 20 ~80% (no condensation)		
Weight	-20°C ~ +70°C		
Dust/Water proof	46 x 46 x 54mm Approx 171g equivalent to IP67 level		

※Specifications and design subject to change without notice

Dimensions

unit:mm



Model name	Tamron co.Ltd	Category	Issue	page
LW10F90-E		LW IR Thermal camera module	2020/8	1/1