

FF256 LWIR Thermal Camera

Features :

- High frame rate
- High quality image display
- Higher cost performance
- Rich Interfaces
- Standard shutter-less algorithm
- Multiple Versions



Product Imaging



Product Specification

Sensor	
Type	Uncooled VOx Microbolometer
Detector	12μm
Spectral range	8 ~ 14μm
NETD	≤40mK@25°C, F#1.0, 25Hz
Video	
Resolution	256 x 192 pixels
Detector Frame rate	25Hz / 50Hz
Digital Video	DVP /BT656/ USB2.0/MIPI
Analog Video	PAL/NTSC
Communication interface	UART/ I2C/ USB2.0
Lens	
Optional LENS	Athermalization fixed focus lens 9/13/15/19/25/35/55/75/100mm
Image Adjustment	
Non-uniformity correction	Shutter correction/shutter-less algorithm correction
Brightness/Contrast adjustment	0-100, optional
Polarity/Palette	White-hot/Black-hot/various palettes supported
Digital zoom	1.0~8.0xcontinuous zoom (step size: 0.1)
Mirroring	Vertical/Horizontal/Diagonal
Physical	
Weight (without lens)	<9g
Package Dimensions (without lens)	21 × 21 × 10.3mm
Power Supply	
Consumption	<0.35W
Voltage	5V
Environmental Adaptability	
Working temperature	-40°C~+80°C
Storage temperature	-50°C~+85°C
Humidity	5%-95%, non-condensing
Vibration	6.06g, random vibration, all axes
Impact	80g, 4ms, final peak sawtooth wave, three axes and six directions

Application Scenarios



Automotive night vision



Rescue and surveillance



Early fire detection

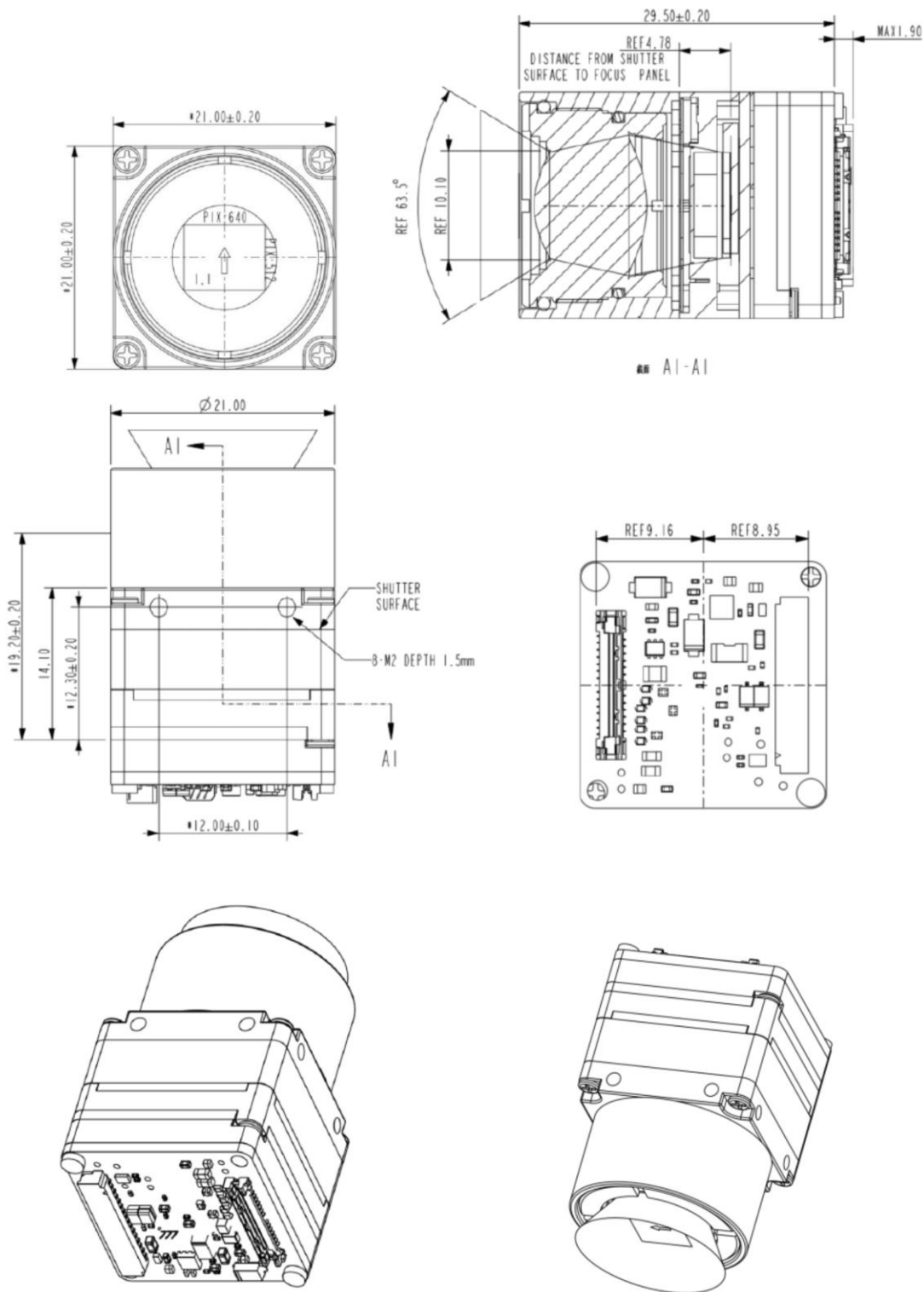


Outdoor night vision

LWIR Thermal Camera

Structure and Dimensions

NOTE: The drawings below include TIF 9.1mm lens module.



FF256

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Interface Introduction

No.	Name	Signal description	Color	Docking port
1	PAL	Analog output signal	Orange	BNC Cable Pin 1 Male BNC video cable (center cable)
2	AGND	Analog output ground	Gray	BNC Cable 2 pins BNC video cable Male (edge package cable)
3	RS232_RX	RS232 reception	Brown	DB9 Female head 3 pins, white cable
4	RS232_TX	RS232 transmission	Yellow	DB9 Female head 2 pins, with red cable
5	GND	GND	Blue	DB9 Female head 5 pins, shielded cable
6	USB2.0 DP	USB positive	Green	Type-A 3 pins with green lines
7	USB2.0 DM	USB positive	White	Type-A pins, white line
8	GND			
9	KEY1			
10	KEY2			
11	KEY3			
12	KEY4			
13	KEY5			
14	GND			
15	GND	Mains negative	Black	Type-A 4pins,Black line
16	POWER	Mains positive	Red	Type-A pin, red wire