

Thermal Module

UNIT-640



Sensor specifications	
Detector	Uncooled VOx
Resolution	640x512
Pixel pitch	12 μm
Frame rate	25 fps
Spectral range	8~14 μm
Lens example	9.1 mm
Field of View	45.9°*36.9
Color palette	white hot/black hot/fusion/rainbow/golden autumn/midday/iron red/amber/jade/sunset/icefire/painting/pomegranate/emerald/spring/summer/autumn/winter
HUD	show / hide / offset
Digital zoom	up to x8
Image processing	non-uniformity correction (NUC), digital noise reduction, digital detail enhancement
Image mirroring	горизонтальное / вертикальное / диагональное
Power supply	via USB: 4.5–5.5 VDC via CVBS: 4.5–20 VDC
Power consumption	<0.75 W
Power protection	Protection from overvoltage, undervoltage and reversed polarity
Interface	USB (2.0) / CVBS / UART serial interface

Lens options						
Matrix type	wafer				ceramic	
Lens, mm	4	9	13	25	35	50
Dimensions, mm (with lens)	44 x	32.7 x	36.6 x	40.6 x	62.7 x	75.4 x
	26.6	20 x	20 x	26.1 x	41.1 x	26 x
	26.6	20	20	26.1	41.1	26
Weight, g (with lens)	36	20.1	22	28.5	87	157

Operating conditions	
Operating temperature	from -40 °C to +70 °C
Storage temperature	from -40 °C to +80 °C
Humidity	0–95%, no condensations
Vibrations	6.06 g, random vibration, all axial directions



Thermal Module

UNIT-1280



Sensor specifications	
Detector	Uncooled VOx
Resolution	1280×1024
Pixel pitch	12 μm
Frame rate	25 fps
Spectral range	8~14 μm
Aperture	F1.0
Color palette	white hot/black hot/fusion/rainbow/golden autumn/midday/iron red/amber/jade/sunset/icefire/painting/pomegranate/emerald/spring/summer/autumn/winter
HUD	show / hide / offset
Digital zoom	up to x8
Image processing	non-uniformity correction (NUC), digital noise reduction, digital detail enhancement
Image mirroring	horizontal / vertical / diagonal
Power supply	5 V
Power consumption	<1.45 W
Power protection	Protection from overvoltage, undervoltage and reversed polarity
Interface	USB (3.0) / HDMI

Lens options		
Lens, mm	35	50
Dimensions, mm (with lens)	35.4 x	35.4 x
	35.4 x	35.4 x
	72.5	84.5
Weight, g (with lens)	166	219
Field of View	24.4°×19.7°	17.6°×14.08°

Operating conditions	
Operating temperature	from -40 °C to +70 °C
Storage temperature	from -40 °C to +80 °C
Humidity	0-95%, no condensations
Vibrations	6.06 g, random vibration, all axial directions

