

UA6 Series Uncooled IR Imaging Module

- Onboard image enhancement ensures crisp and vibrant thermal images
- High Frame Rate 12um Vox infrared Detector and High Performance infrared ISP chips
- Lightweight design, low power consumption and cost effectiveness



SPECIFICATION	
Model	UA6 SERIES
Imaging & Optical	
Detector Type	Vox Uncooled Microbolometer
Resolution	640×512@12μm
Spectral Range	8 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤40mK@F1.0 25°C
Lens Focal Length	4mm/9mm/13mm/19mm/25mm/35mm
Thermal Time Constant	<12ms
NUC Correction	Shutter algorithm correction
Digital Zoom	1x-8x continuous zoom(step size: 1.0)
Image Mirroring	Vertical/Horizontal/Diagonal
Digital Video	USB2.0
Power Supply	5V DC
Palette	White Hot/Black Hot/Various palettes supported
Power Consumption	<1.0W
Communication Interface	USB2.0
Size	20mm*20mm*33mm(WxHxL) Without lens(for 9mm, 13mm only) 28*28*36.3mm(WxHxL) Without lens(for 4mm, 19mm, 25mm, 35mm only)
Weight	≤50g (Without lens)
Humidity	5%RH ~ 95%RH, non-condensing
Working Temperature	-40°C~+80°C
Storage Temperature	-50°C~+85°C
Vibration	6.06g, random vibration, all axes
Shock	80g, 4ms, final peak sawtooth wave, three axes and six directions
Features	14bits RAW/ YUV / auto NUC(can be switched off)/auto or manual gain /USB to UART/ API (UART control)
Extensible Features(Optional)	PIP, Crosshair, Hotspot Tracking, Lens Driving (Focusing, Zooming, Auto Focus)

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IR IMAGING MODULE

DRI		Human(1.7m x 0.5m)			Vehicle(4.6m x 2.3m)		
LENS	FOV	Detection	Recognition	Identification	Detection	Recognition	Identification
f4.6mm F1	79.7°×67.5°	256m	128m	64m	588m	294m	147m
f9mm F1	45.7°×37.3°	506m	253m	126m	1163m	581m	291m
f13mm F1	32.9°×26.5°	722m	361m	181m	1161m	831m	415m
f19mm F1	22.8°×18.3°	1056m	528m	264m	2428m	1214m	607m
f25mm F1	17.4°×14°	1389m	694m	347m	3194m	1597m	799m
f35mm F1	12.5°×10°	1944m	972m	486m	4472m	2236m	1118m

