

UVS6 Series

Uncooled Thermal Imaging Module



Features

- High-sensitivity ceramic VOx uncooled infrared detector with 640×512 resolution
- Excellent image quality provides greater detail
- Provides multiple digital video output interfaces, some of which are customizable
- Supports motorized focus and zoom lens control
- Supports external synchronization triggering and RAW16 output (optional)
- Low power consumption and lightweight design
- Multiple communication control interfaces and protocols are available

Applications

- Industrial Inspection
- Security and Surveillance
- Automotive Night Vision Assistance
- Handheld Thermal Imager and System

• Specifications

Thermal Imaging	
Detector	VOx uncooled microbolometer
Resolution	640 × 512
Pitch Size	12μm
Spectral Range	8~14 μm
NETD	≤ 40 mK (@25 °C, F#1.0)
Lens	Fixed, motorized and zooming lens
Frame Rate	50Hz (60Hz optional)
Image Display	
Brightness/Contrast Adjustment	Auto/Manual
Image Palette	White hot, black hot & pseudo-colors
NUC Correction	Manual/Auto
Image Mirroring	Vertical/horizontal/Diagonal
Image Processing	DDE, Denoising, Filtering, etc.
Digital Zoom	1~8×
Crosshair	OFF/Display/Movable
External Synchronization	Optional
RAW16 Output	Optional
Picture-in-picture	Optional
Hot Tracking	Optional
Interfaces	
Digital Video Output	UVC, MIPI, LVDS, SDI, Cameralink, DVP, BT601, BT656, BT1120, CML, Ethernet, etc.
Analog Video Output	PAL/NTSC
Communication	UART (TTL 3.3V) (RS485/422/232 optional)
Online Firmware Upgrade	Supported
System Parameters	
Power Supply	DC 5V~ 24V
Consumption	≤ 0.8 W
Start-up Time	< 8s
Size	28mm×28mm×35 mm (standard) 26mm×26mm×35mm (optional)
Weight	≤ 45g (without lens)
Working Temperature	-40 °C~ +60 °C
Storage Temperature	-50 °C ~ + 70 °C
Humidity	5%~95% RH, non condensing
Vibration	6.06g random vibration, all axes
Shock	50g, 11ms half-sine shock, 3 axes, 6 directions