

AC Series

Multifunctional Thermal Imaging Core Module

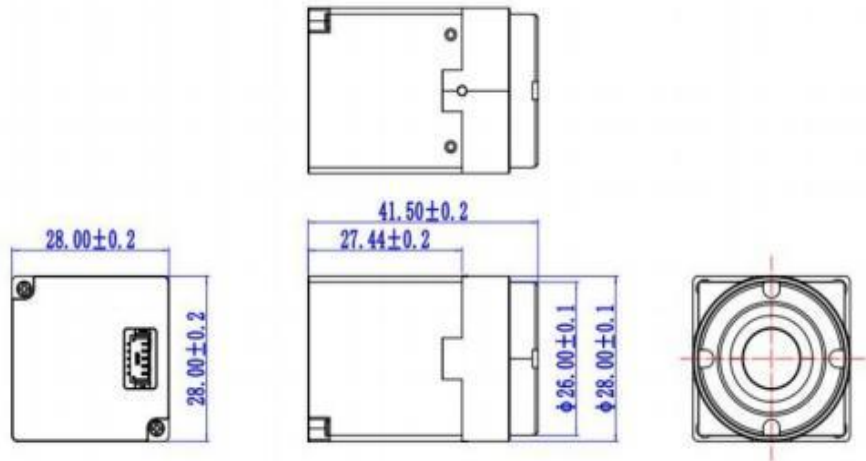
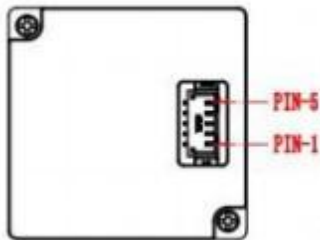
Specification V1.0



Product Model: AC Series

Technical Features

Model	AC640
Detector Type	Uncooled Focal Plane Array detector (VOx - Vanadium Oxide)
Spectral Response	8~14um
Pixel Pitch	12um
Array Format	640*512
NETD	<35mK(f/1.0 50Hz 300K)
Detector Frame Rate	60Hz
Image Interface	CVBS(PAL format)
Control Interface	UART
Key Functions	Digital zoom, Pseudo-color switching
Pseudo-color Modes	White Hot, Black Hot, Red Hot, Iron Red
Scene Modes	User, Plain, Forest
Brightness	Adjustable
Contrast	Adjustable
Digital Zoom	Continuous digital zoom from 1× to 8× (0.5× step)
Shutter Mode	With shutter, Automatic shutter activation
Lid Calibration	Lid Calibration via UART Serial Port Using Host Computer
Non-Uniformity Correction (NUC)	Calibration via UART Serial Port Using Host Computer
Power Input	CVBS(4.6~18v)
Operating Temperature	-30℃~+60℃
Shock Resistance	1000g
Lens Options	9mm, various lenses optional
Secondary Development	/

Dimensions (vary by version)	 Technical drawings of the device showing dimensions: - Top view: 28.00 ± 0.2 (width), 28.00 ± 0.2 (height) - Side view: 41.50 ± 0.2 (total height), 27.44 ± 0.2 (height to top of connector), 26.00 ± 0.1 (height to bottom of connector), 28.00 ± 0.1 (height to bottom of mounting holes) - Front view: Circular connector with 5 pins								
Interface Definition	 Diagram of the 5-pin connector with labels: - PIN-5 - PIN-1	<table><tr><td>5pin/1.25 Terminal</td></tr><tr><td>1: RX</td></tr><tr><td>2: TX</td></tr><tr><td>3: CVBS</td></tr><tr><td>4: GND</td></tr><tr><td>5: 4.6-18V</td></tr></table>		5pin/1.25 Terminal	1: RX	2: TX	3: CVBS	4: GND	5: 4.6-18V
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