



IRonEye GigE 6 Datasheet

640x480 Pixel, 50° HFOV

Art. Nr. 702273



Thermal Camera Specifications:

Microbolometer Resolution:	640x480 Pixel (VGA)
Sensor:	uncooled Vanadium Oxide
Thermal Sensitivity (NETD):	≤ 35 mK
Pixel Pitch:	12 µm
Spectral Range:	8 µm – 14 µm
Frame Rate:	60 Hz
Optic:	f=8,7 mm, F/1,0, fixed focus
Field of View:	50,0° HFOV, 40,0° VFOV
Non-Uniformity Correction:	mechanical shutter-based NUC
Output:	14-Bit Monochrome GigE Vision compliant video feed

Physical Specifications:

Length:	106 mm
Width:	49 mm
Height:	49 mm
Weight:	< 100 g
Mounting Options:	1/4"-20 UNC thread on top and bottom
Operating Temperature:	-35° to 75°C
Protection Rating:	IP67
Housing Material:	Aluminum EN AW-6061
Housing Finish:	hard anodized and scratch-resistant ceramic-coated
Protective Window:	ZnS with DLC and HEAR coating

Connectivity & Software:

Connector:	M12 8-pin X-Coded screw lock (PoE & video feed) & M8 5-pin screw lock (UART & alternative power supply)
Control Interface	UART-RS232 & GigE Vision
Power Consumption:	≤ 7W
Operating Voltage:	36-57 V DC (PoE, IEEE 802.3af), 4,8-16 V DC (alternative 5 pin)
Synchronization:	IEEE 1588 Precision Time Protocol with up to 1 µs precision
Software Features:	Digital Zoom, Thermal Filters, Outline Mode (with provided SDK)
Operating System:	Windows, Linux
Processor Architecture:	ARM64 or x86_64