



Thermal Imaging Surveillance Systems

Aquila Micro 320 Thermal Imager

The Aquila Micro is a miniature short-range Thermal Imager designed for applications where an extremely small and lightweight footprint is required.

The Aquila Micro 320 utilises a VOx uncooled $17\mu\text{m}$ pitch 320×240 microbolometer resistant to solar damage, and is available in 4 different lens variants.

The housing is constructed of injection moulded parts keeping the size and weight down to a minimum with connection via a cable gland with short cable to terminate easily into any platform. The unit conforms to IP65 integrity, giving ample protection against the elements.

The Aquila Micro 320 is low power, extremely small in size, and can be deployed in a number of different ways, on and UAV, UGV, robotic system the list goes on.

This Thermal Imager provides the ability to SEE day and night and can give you the edge that is needed.





Aquila Micro 320

Thermal Imager

Imaging Performance				
Sensor	Uncooled VOx microbolometer			
Spectral Response	8 to 14μm			
Array Format	320 x 240 17μm			
Thermal Sensitivity	NETD < 50mK @ F/1.0			
Image Processing	AGC with 2 Image Contrast Enhancement algorithms			
Focus	Fixed focus & athermalized			
Image Frequency / Video Output	60Hz detector, NTSC 30Hz, PAL 25Hz			
Systems Specifications				
Power	<1 Watt (steady state)			
Input Voltage	6 to 30 Volts DC			
Control	Via RS 232			
I/O	Via Cable gland with short cable or Via 16 way miniature multi-pin connector			
Mounting	One Position ¼ - 20			
Weight	94g (41.8° HFOV version)			
Environmental	Operating temperature range -40°C to +65°C			
	IP65 rated			
Lens Options				
	1-MICRO-320-90#	1-MICRO-320-40#	1-MICRO-320-24#	1-MICRO-320-16#
FoV	41.8° (H) x 30° (V)	41.8° (H) x 30° (V)	24° (H) x 18° (V)	16° (H) x 12° (V)
Focal Length	3.8mm F/1.4	7.5mm F/1.4	13mm F/1.2	19mm F/1.2
Range				
Man Detection	Typically ≤ 185m	Typically ≤ 335m	Typically ≤ 560m	Typically ≤ 845m
Additional Options				
Connector version				

- P = PAL Video Format, N = NTSC video Format

Dimensions in mm and inches