

EMX ZEBRA MK 1 Thermal Imager



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VENDOR DESCRIPTION

The ZEBRA MK 1 Thermal Imager fits an M2 STANAG Adapter for the M2 Machine Gun, MK 19 Grenade Launcher, and the M60 Machine Gun. The thermal imaging camera has an adjustable co-located electronic reticle. During operation, the electronic reticle is superimposed onto the thermal video and the resultant RS-170 video signal is coupled to a VIDEO OUT BNC jack for output to a viewing device. A monocular or other viewing device (customer supplied) is connected to the VIDEO OUT port to present the image to the operator. Boresight adjustments are done electro-mechanically using the rear-mounted controls. For boat applications, an optional separate "Smart" HIDE battery charger/supply allows switching between boat 12 VDC power or an internal battery backup for use in Hide operations for over 8 hours. Two additional auxiliary VIDEO OUT connections are available.



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Business Category: Small Business

EOIR

Physical	Detector
Optics Size: 7.5°	Material: Amorphous Silicon Microbolometer (160 x 120 pixel array)
Processor/Reformatter PWB Size: 4.1cm x 8.4 cm (1.6 in x 3.3 in)	Thermal Time Constant: <21 msec
Optics/FPA Weight (WFOV): 100 g (3.5 oz) with micro shutter	Pitch: 46.8µm
Total PWB Weight: 60 g (2.1 oz)	Spectral Response: 7-14µm filter bandwidth
Operating Temperature: 0°C to +60°C	Fill Factor: >75%
Storage Temperature: -40°C to +80°C	
Input Voltage: 6-32 VDC or 2.5-4 VDC (thru low voltage input)	
Input Power: <1.2 W, thru 6-32 VDC input @ 25°C ambient <0.8 W, thru 2.5-4 VDC input @ 25°C ambient	

Performance	
NETD: Up to 0.10°C @ 25°C ambient (typical)	Field of View: Customer selectable
Ambient Operating Range: 0°C to +60°C	Adjustable electronic reticle
Startup Time: <10 sec	Optional monocular unit available
Contrast/Brightness: Automatic	Fits Picatinny rail mount
Run Time: >2.0 hr (typical) on 2AA NiCad >3.0 hr (typical) on 2AA standard alkaline @ 25°C ambient	
Moving Parts: Micro Shutter (FPA touch up)	
Video Sample Rate: 20 Hz snapshot mode, 60 Hz output field rate	