

# EMX Semi-Auto Handgun Thermal Imager

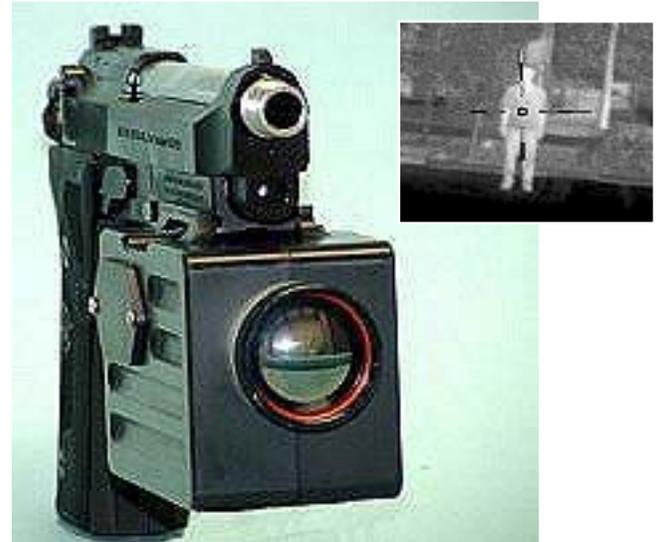


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## VENDOR DESCRIPTION

The EMX Semi-Auto Handgun Thermal Imager is an advanced infrared weapon sight developed for use on small arms and is versatile enough to be used for many other applications. The handgun-mounted thermal imager contains a video transmitter that transmits thermal video to a belt-worn receiver. Video from the receiver is then routed, via cable, to a monocular (not supplied) worn by the user. Can be used with any standard monocular available that supports RS-170 video (NTSC). The imager mounts to the Picatinny rail adapter found on most newer semi-automatic handguns.

The EMX Semi-Auto Handgun Thermal Imager can be used to see in total darkness and is an excellent system for clearing dark buildings, caves, tunnels, etc. Boresight is accomplished via an electronic reticle that can be moved up/down and left/right in one-pixel-row increments.



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Business Category: Small Business

EOIR

Physical	Detector
Thermal Imager Size: 2.5" H x 2" W x 4.75" D Weight: 30 oz	Material: Amorphous Silicon Microbolometer (160 x 120 pixel array)
Optics Size: 17°	Thermal Time Constant: <21 msec
Processor/Reformatter PWB Size: 4.1cm x 8.4 cm (1.6" x 3.3")	Pitch: 46.8µm
Optics/FPA Weight (WFOV): 100 g (3.5 oz) with micro shutter	Spectral Response: 7-14µm filter bandwidth
Total PWB Weight: 60 g (2.1 oz)	Fill Factor: >75%
Belt-worn Receiver Size: 6.5" H x 2.75" W x 2.2" D Weight: 36 oz	
Operating Temperature: 0°C to +60°C	
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: 17°
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	