

MORO VISION NIGHT VISION

LIGHT THE NIGHT™

THERMAL-EYE™ RENEGADE 320

• MULTI-PURPOSE THERMAL IMAGER/WEAPON SIGHT •

The Multi-Purpose Thermal-Eye™ Renegade-320 combines the ergonomic features of a handheld and the convenience of weapon mounting. Based on the proven 320 x 240 Thermal-Eye™ 4500 Amorphous Silicon microbolometer core, the Renegade-320 is an ideal product for force protection, border patrol officers, police SWAT and special operations forces.



Features and Benefits:

- Rapid start-up in 4 seconds
- 5 selectable reticles
- Digital boresight capability
- Image capture feature stores 200 pictures with USB download interface
- More than 6 hours operation with four CR123 lithium batteries.
- Amorphous Silicon detector with 320 x 240 resolution
- Includes protective shield to reduce eyepiece exposure from sand and dust
- Optional equipment: Laser Pointer (835nm infrared and visible), 5/8" Picatinny Rail
- Riser, 1 1/2" See-Through Picatinny Rail Riser, and AC power adaptor
- Handstrap, MIL-STD-1913 (Picatinny Rail) mount and 1/4-20 thread mount for handheld weapon-mount or tripod operation
- Lightweight, rugged design — unit withstands 4ft drop, 2ft on-weapon drop and 9ft
- submersion - live fire tested on M4 and suitable for M16
- Field-of-view options support close-, mid- and long-range operations (50°, 25°, 12°)
- Tested on M4 and suitable for M16 (5,000 rounds in full automatic-mode).
- Adaptation to other weapons possible.

50° FOV: PART #: RCP-4000225-5001
25° FOV: PART #: RCP-4000225-2501
12° FOV: PART #: RCP-4000225-1201

Standard Equipment Includes:

Protective Carrying Case • Four 123 Lithium Batteries
• Neck Lanyard & Hand Strap • Lens Cover • Lens Cleaning Cloth • Tripod Mount • User Manual • Quick Reference Card • Soft Carrying Case • Camera Interface Cable (three heads) • Standard Picatinny Rail Mount • Open and Shuttered Eyecup • Protective Demist Shield



Morovision Night Vision

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<http://www.morovision.com/>



THERMAL-EYE™
AUTHORIZED DISTRIBUTOR

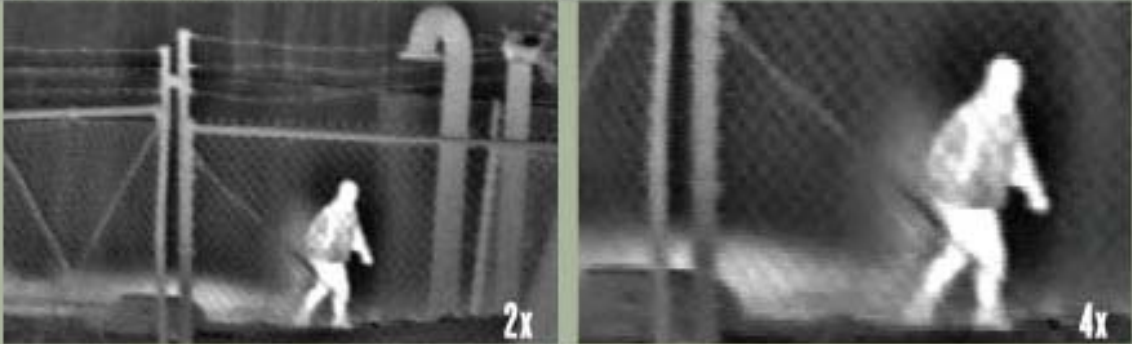
Thermal-Eye™ Renegade Specifications

Infrared Focal Plane Array	Type & Material	Amorphous Silicon Microbolometer
	Pixel Count (Resolution)	320 x 240
	Spectral Response	7-14 μm (filter bandwidth)
	Thermal Sensitivity	≤ 50 mK
Thermal Imaging Performance	Startup Time	~ 4 sec
	Contrast / Brightness	Fully Automatic, advanced image processing
	Susceptibility to Blinding Visible Light	None
	Infrared Polarity	User Selectable: White = Hot, Black = Cold
Optics	Lens Focal Length:	Range to Detect Human Activity:
	50mm	750ft / 230m
	25mm	1500ft / 460m
	12mm	3000ft / 915m
Video	Output Format	Analog NTSC on rear outlet jack
	Display Brightness	User Adjustable
	Digital Zoom	-2X, 4X
	Captures 200 images	USB downloadable
	Switchable Polarity	(White Hot / Black Hot)
	Eyepiece	Adjustable Diopter and focusing
	Automatic and manual shutter touch up	
Power	Power Source	4 CR123 Lithium batteries
	Operating Time	6 hours (77°F / 25°C Night Operation)
	Auxiliary Power	9 to 12 VDC input on rear outlet jack
Environmental Characteristics	Operating Temperature	-4°F to 140°F (-20°C to 60°C)
	Storage Temperature	-4°F to 176°F (-20°C to 80°C)
	Water & Shock Resistance	Waterproof to 9 feet (3m) submersion, buoyant in fresh water Shockproof to 4 feet (1.2m) drop
	EMC Compliance	FCC Part 15
Physical Characteristics	Size:	
	50mm	10" L x 2.75"W x 3" H (25.4 x 6.9 x 7.6cm)
	25mm	10.75" L x 2.75"W x 3" H (27.3 x 6.9 x 7.6cm)
	12mm	11" L x 2.75"W x 3" H (28.0 x 6.9 x 7.6cm)
	Weight:	13 oz (381g), batteries installed
	50mm	31 oz.
	25mm	31 oz.
12mm	34 oz.	

Thermal-Eye™ Renegade Specifications (cont.)

Qualified Weapons	M4, Suitable for M16 – Operational and unaffected after 5,000 rounds in full automatic mode. M240 – Fully functional after 1,000 rounds. Adaptation to toerh weapons possible.
Boresight Retention	M4 – Retains boresight through 1,000 rounds
Mounting	Picatinny gun rail mount: 1/4 -20 tripod mount

2x & 4x DIGITAL ZOOM



The Renegade is equipped with 2X and 4X digital zoom. While its default setting is 1X, to increase the range performance, simply initiate the following steps:

1. Locate the Zoom button, marked with a magnifying glass icon, on the top of the camera.
2. Press the Zoom button to increase the magnification to 2X and press again for 4X magnification.
3. An additional press will return the camera to 1X magnification.

MOROVISION NIGHT VISION, INC.

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EXPORT NOTICE:

Export of this product is regulated by the U.S. Department of State in accordance with guidelines of "International Traffic in Arms Regulations (ITAR)" per Title 22, Code of Federal Regulations, Parts 120-130

This data sheet is approved for unlimited release.

Specifications subject to change without notice.