

# MORO VISION NIGHT VISION

LIGHT THE NIGHT™

## THERMAL-EYE™ X150 – Thermal Imaging Camera

**Thermal-Eye™ X150 Camera.** The Thermal-Eye™ X150 is the smallest and lightest handheld thermal imaging camera available on the market today. It is designed for a variety of applications including public safety, security and military. The state-of-the art amorphous silicon micro-bolometer technology found inside the Thermal-Eye™ X150 is what permits the camera to be so small and light. Measuring about five inches long and weighing only thirteen ounces, the X150 easily fits into the palm of a hand or pocket making it perfect for covert operations and easy portability. The camera presents a huge advantage for the operator, providing the ability to see the unseen, even in the dark of night, whether conducting a routine patrol, fugitive search or covert military mission.



### Features and Benefits:

- Developed with advanced amorphous silicon microbolometer technology.
- Rugged design with integral rubber eye cup can survive accidental drops and underwater submersion to 9 feet.
- Pocket-sized, weighing only 13 ounces.
- Detects human activity from over 300 meters away.
- Sealed cover for enclosing video and power jacks
- Operates for 3 hours on 2 commercial AA alkaline batteries.
- Enhanced DSP image processing
- On-screen battery level indicator
- Left or right hand operation with rugged slip-resistant grip
- Tactile battery loading feature for stealth nighttime operation
- Sealed cover for enclosing external video and power jacks
- Long eye-relief viewfinder for use with glasses, face shield, masks, etc.
- ¼-20 tripod mount

### Standard Equipment Includes:

- Thermal-Eye™ X150 Thermal Imaging Camera
- Hard Protective Case
- 2 AA Alkaline Batteries
- Neck Strap & Wrist Strap
- Lens Cover
- Lens Cleaning Cloth
- Operator's Manual



**Morovision Night Vision**

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**THERMAL-EYE™**  
AUTHORIZED DISTRIBUTOR

## Thermal-Eye™ X150 Product Specifications

<b>Infrared Focal Plane Array</b>	Type & Material	Amorphous Silicon Microbolometer
	Pixel Count (Resolution)	160 x 120
	Spectral Response	7-14 $\mu\text{m}$ (filter bandwidth)
	Thermal Sensitivity	$\leq 100$ mK
<b>Thermal Imaging Performance</b>	Startup Time	~ 5 sec
	Detection Range for Human Activity	Up to 1000 Feet (305 meters)
	Contrast / Brightness	Fully Automatic
	Susceptibility to Blinding Visible Light	None
	Infrared Polarity	White = Hot, Black = Cold
<b>Optics</b>	Lens Focal Length	25mm
	Field of View	17°H x 13°V (increased FOV over X100xp predecessor)
	Minimum Focus Distance	~ 3 ft. (1 meter)
<b>Video</b>	Output Format	Analog: SMPTE-170 (cf. NTSC monochrome) on rear outlet jack
	Viewfinder Display	Monochrome LCD (320 x 240)
	Viewfinder Dimming	Integral to power on/off switch
<b>Power</b>	Power Source	Two (2) AA batteries
	Operating Time	~ 2 Hours with alkaline ~6 Hours with lithium [77°F (25°C), night-time operation]
	Auxiliary Power	9 to 12 VDC input on rear outlet jack
<b>Environmental Characteristics</b>	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 6 feet (2m) drop
	EMC Compliance	FCC Part 15 & CE Mark
<b>Physical Characteristics</b>	Size	5-1/4" L x 4-1/2" W x 2" H (13.4 x 11.4 x 5.1 cm)
	Weight	13 oz (381g), batteries installed
	Eye Cup	Integral to camera body with 2" eye relief

### 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.