



THERMAL-EYE™

Thermal-Eye X-Series Presentation

January 2008



X-50



X-150



X-200



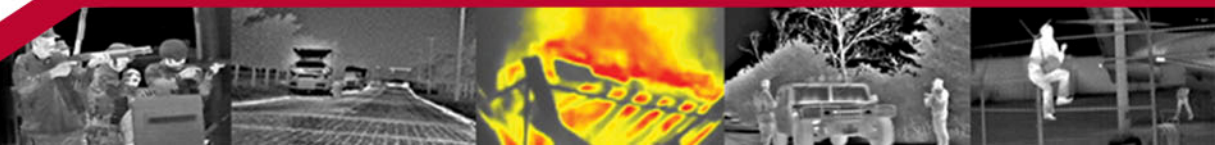
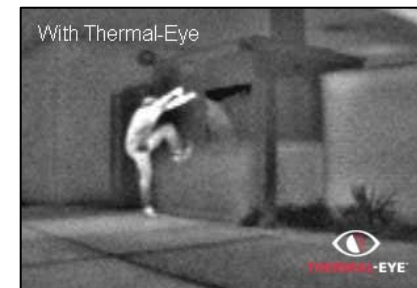
communications

Infrared Products

L-3 Proprietary Information

See the Unseen™

- X-Series Portfolio Introduction
- Product Description & Target Market
- Physical & Technical Detail
- Product Applications
- Handheld Portfolio Comparison
- Competitive Comparison

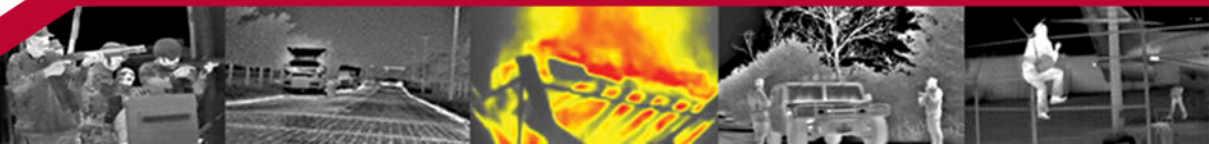


The Thermal-Eye X-Series offers advanced amorphous silicon microbolometer technology in a rugged and compact design.

Each thermal imaging camera was developed for challenging field conditions to see through dust, smoke, and complete darkness.




The ambidextrous shape and simplified design make it easy to use, and ideal for search and rescue missions, general surveillance, and stealth operations.

With tripod mounting and a six hour operational life on standard batteries, the X-series handhelds can support extended covert surveillance operations.

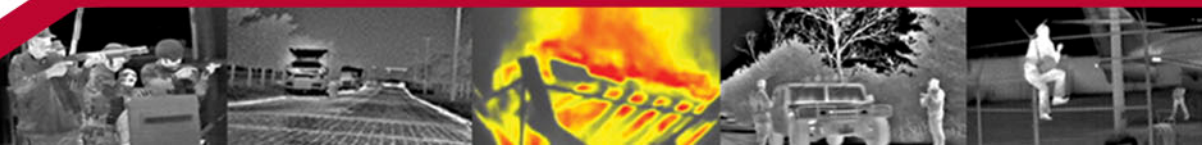


Product Descriptions



Product	Description	Market Segment	Price
 <p>X-200</p>	<p>Allows you to detect human activity up to 1500ft (450m) and offers impressive scene detail, and image clarity.</p>	<p>Military</p>	<p>\$9116</p>
 <p>X-150</p>	<p>Detects human activity up to 1000ft (305m), and provides sufficient image detail at 160x120 resolution.</p>	<p>Federal Agents FBI, CIA, U.S. Marshalls Coast Guard Secret Service</p>	<p>\$6980</p>
 <p>X-50</p>	<p>Specially designed for the law enforcement market, the X-50 is our most affordable handheld. The range to detect is 1000ft (305) and the resolution is 100x80.</p>	<p>Law Enforcement, Public Safety, Border Patrol</p>	<p>\$4995</p>

L-3 Proprietary Information

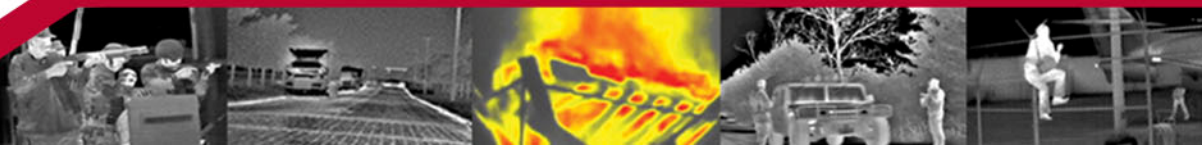


Product Description - Physical



	X-200	X-150	X-50
Size	5.25 L x 4.5 W x 2.0 H inches (13.4 L x 11/4 W x 5.1 H cm)		
Weight	13 ounces (381 grams) with AA batteries installed		
Mounting	1/4 - 20 Tripod Mount		
Color	Green	Black	Blue
Environmental			
Operational Temperature	-4°F to 140°F (-20°C to +60°C)		+14°F to 122°F (-10°C to +50°C)
Storage Temperature	-4°F to 176°F (-20°C to +80°C)		
Waterproof	9ft (3m) submersion; Buoyant in fresh water		
Shockproof	6ft (2m) drop		
EMC/EMI	FCC Part 15 and CE Mark		

L-3 Proprietary Information
5

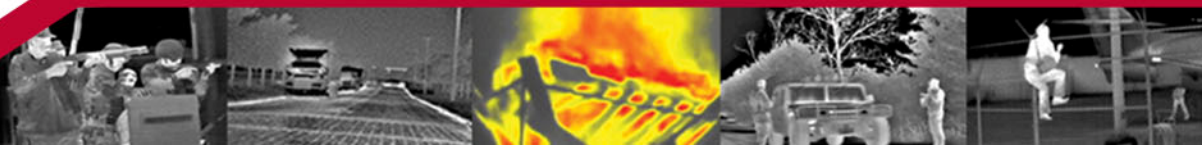


Product Description - Technical



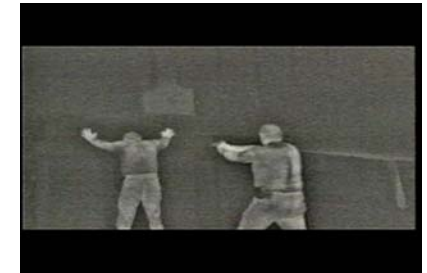
	X-200	X-150	X-50
Focal Plane Array			
Material	Amorphous Silicon Microbolometer		
Pixel Count	160x120		100x80
Spectral Reponse	7-14µm		
Detector Sensitivity	<=50mk	<=100mk	<=150mk
Optics			
Field of View	11°H x 8°V	17°H x 13°V	11°H x 8°V
Minimal Focal Distance	3ft (1m)		
Video	6ft (2m) drop		
Output Format	Analog NTSC or PAL on rear outlet jack		
Viewfinder Display	Monochrome LCD (320x240)		
Viewfinder Brightness	Integral to Power/Off Switch		
Power	2 AA batteries; 9 to 12 VDC input on rear outlet jack		
Operating Time	2 hours with alkaline, 6 hours with lithium		

L-3 Proprietary Information
6



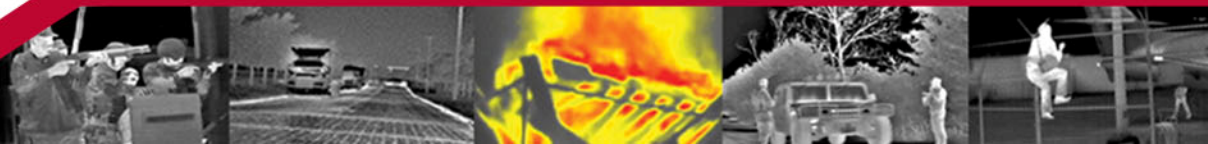
The X-Series Remote Stand Alone Scenarios:

- Locating Objects Without Visible Light
- Hot Spot and Disturbed Surface Detection
- Routine Security Patrols and Surveillance
- Land & Water Search and Rescue
- Fugitive Pursuit and Apprehension
- Officer Safety and Protection
- Crime Scene Investigations
- Night Vehicle Theft Prevention



L-3 Proprietary Information

7

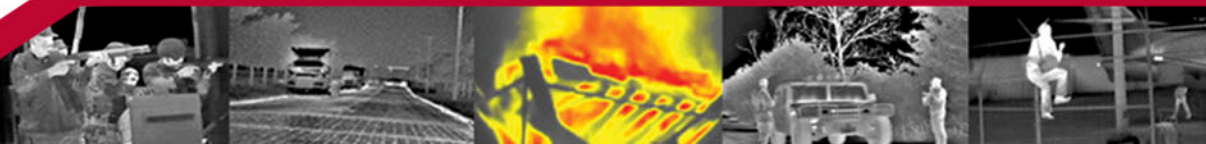


Standard Kit

2 AA alkaline batteries
Neck & Wrist Strap
Tethered Lens Cover
Lens Cleaning Cloth

Optional Accessories

Hard Protective Case
12VDC Auxiliary Power Cable
AC/DC Power Adapter
External Analog Output Video Cable



X-50 Competitive Comparison



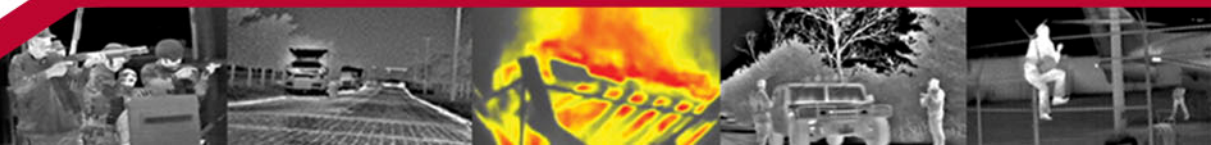
Features	L-3 IRP x50	L-3 IRP x150	L-3 IRP x200	FLIR Flashsight	Bullard TAC Sight	FLIR Scout
----------	----------------	-----------------	-----------------	--------------------	----------------------	---------------

Thermal Imager:						
Technology	Amorphous Silicon	Amorphous Silicon	Amorphous Silicon	VOx	Amorphous Silicon	VOx
Resolution	100 x 80	160 x 120	160 x 120	160 x 120	160 x 120	160 x 120
FOV	11°	17°	11°	13°x10°	8° x 11°	12° x 9°
Detection Range	305 meters	305 meters	450 meters	609 meters	150 meters	400 meters
Weight	.37 kg	0.37 kg	0.37 kg	0.86 kg	1.59 kg	0.68 kg
Size	13.4 x 1.25 x 5.1 cm	13.4 x 1.25 x 5.1 cm	13.4 x 1.25 x 5.1 cm	25.4 x 7.16 x 9.68 cm	12 x 10.1 x 17.8 cm	26.5 x 8 x 10.5 cm
Battery Type	2 AA Lithium	2 AA Lithium	2 AA Lithium	4 AA Lithium	Rechargeable	Rechargeable
Battery Life	5 hours	6 hours	6 hours	7 hours	1.5 hours	1.5 hours

Rugged/Environment:						
Performance Level	Very Rugged - Combat Proven	Very Rugged - Combat Proven	Very Rugged - Combat Proven	Moderate	Moderate	Low
Drop Rating	1.8m drop to concrete	1.8m drop to concrete	1.8m drop to concrete	No Drop Rating	No Drop Rating	No Drop Rating
Waterproof	3m - 30 min water immersion	3m - 30 min water immersion	3m - 30 min water immersion	Low pressure jets of water with limited ingress	Low pressure jets of water with limited ingress	Water spray with limited ingress
IP Rating	IP-67	IP-67	IP-67	IP-66	IP-66	IP-54

Pricing:						
MSRP (Estimated \$)	\$4,995	\$6,890	\$9,116	\$9,995	10,000	\$8,000

The X-Series is smaller, lighter, and priced lower than competitors. L-3 Proprietary Information 9



- The X-Series line is designed for law enforcement, government, military, and security professionals who need to see in the dark or through dust, smoke, and other obscurants.
- The size and toughness of the X-Series combined with good image performance and range make this product line ideal for tactical and surveillance situations.
- Simple ambidextrous design allows untrained users to quickly master its operation even under stressful and adverse conditions.
- Standard commercial batteries ensure six hours of operational life.
- Tripod mounting supports extended covert surveillance operations.
- Offering a product portfolio with different ranges and fields of view gives end-users the ability to choose the product that best meets their needs.

