



A safer world

Thermal-Eye™ systems are designed and manufactured for applications in public safety, fire and rescue, industrial, security and transportation. Having pioneered infrared technology decades ago, our products continue to increase the safety of our neighborhoods, help rescue victims of accidents, monitor business facilities and assets and improve the safety of nighttime driving. In fact, with so many positive applications, in so many areas of life, Thermal-Eye products keep us all just a little bit safer. And when you stop to think about it, can any of us afford anything less?

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The Thermal-Eye X100_{XP} is a revolutionary thermal imaging camera designed for public safety departments, law enforcement professionals, security professionals and military use. Setting the standard for durability and compactness in thermal imaging cameras, the X100_{XP} has been battle-tested in Operation Iraqi Freedom.

The affordable Thermal-Eye X100_{XP} gives users the ability to see in complete darkness whether on a routine patrol, locating a lost child or tracking a fugitive or intruder. Developed with an advanced amorphous silicon microbolometer detector, the X100_{XP} delivers the ultimate in true infrared technology, as no lighting is required.



- Asset protection
- Search and rescue
- Crime scene investigation



- Fugitive search and pursuit
- Routine patrols
- Hidden compartment detection

Weighing in at only 13 ounces with its unique design, the X100_{XP} operates simply with one-button on/off operation. Designed for the rigors of outdoor use, it features a rubberized slip-resistant casing and can withstand shock and vibration. This handheld, pocket-sized innovation also exceeds waterproof standards and conveniently operates on standard AA batteries. Other features include a protective lens cap, tripod mount for stationary use and camera strap for the officer or security professional on the go.

Benefits

- Provide users the ultimate safety and security solution
- Afford users the ability to track fugitives or intruders without exposing themselves to unnecessary danger
- Monitor suspects without their knowledge, day or night
- Provide an incredibly clear picture of the surrounding scene, up to 1000 feet, through the use of superior imaging software
- Easily spot a fugitive hiding in thick foliage or under a vehicle

Without Thermal-Eye



With Thermal-Eye



X100xp-LE/SEC-1104

See the Unseen™



Thermal-Eye™ X100_{XP}		
Focal Plane Array	Material & Structure	Amorphous Silicon Microbolometer
	Pixel Count	160 x 120
	Spectral Response	7-14 μm (filter bandwidth)
	Thermal Sensitivity	≤ 100 mK
Thermal Imaging Performance	Start-up Time	~ 5 sec
	Brightness/Contrast	Fully automatic
	Range to Detect Human Activity	Up to 1000 Feet (305 meters)
	Susceptibility to blinding visible light	None
	Infrared Polarity	White Hot-Black Cold
Optics	FOV (H x V)	17° x 12°
	Focal Length, mm	25 mm
	Minimum Focus Distance	~ 3ft. (1 meter)
Video	Output Format	Analog: SMPTE-170 (cf. NTSC monochrome) on rear outlet jack
	Viewfinder Display	Monochrome LCD (320x240 pixels)
	Viewfinder Dimming	Integral to power on/off switch
Power	Power Source	2 AA batteries
	Operating Time	~ 3 Hours with alkaline ~7 Hours with lithium [77°F (25°C), night-time 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 Resistance	Waterproof to 9ft (3m) submersion, buoyant in fresh water
	EMC Compliance	FCC Part 15 & CE Mark
Physical Characteristics	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
Ordering Information	Camera Part Number	6302-1
Camera Features	<ul style="list-style-type: none"> • 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 night-time operation • Sealed cover for enclosing external video and power jacks • Long eye-relief viewfinder for use with glasses, face shield, masks, etc. • 1/4-20 tripod mount 	
Standard Equipment	<ul style="list-style-type: none"> • Soft protective case • 2 AA alkaline batteries • Neck strap & Wrist strap • Lens Cover • Lens cleaning cloth 	
All specifications are subject to change without notice		
X100 _{XP} Rev E Jan 04		