

X-50



The Thermal-Eye X-50 sets the standard for affordable, small, lightweight thermal imaging cameras. It is pocket-sized, rugged and durable. Based on the X200xp, the X-50 is perfect for public safety, first responder and security operations.



TARGET LOCATION

FORCE PROTECTION

ROUTINE PATROLS

SEARCH & RESCUE

DISTURBED SURFACES

COVERT SURVEILLANCE

FUGITIVE PURSUIT

OFFICER SAFETY

BENEFITS:

- Advanced technology made more affordable
- Stows easily in pocket for quick extraction in the field and on the run
- Unaffected by bright lights, glare or shadows, unlike traditional night vision technology
- Simple to use and operate, with covert eye cup and variable display brightness
- Designed to withstand 6ft (2m) drop to concrete

FEATURES:

- Developed with advanced amorphous silicon microbolometer technology
- Rugged design with integral rubber eye cup can survive accidental drops and underwater submersion to 9ft (3m)
- Pocket-sized, weighing only 13 ounces (0.38kg)
- Detects human activity from more than 1000ft (300m) away
- Two commercial AA batteries provide operating life of 5 hours (lithium) or 2 hours (alkaline)



Routine patrol in alley



Fugitive in pursuit



Covert surveillance

X-50 TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE X-50			
FOCAL PLANE ARRAY	MATERIAL & STRUCTURE	Amorphous Silicon Microbolometer			
	PIXEL COUNT (RESOLUTION)	100 x 80			
	SPECTRAL RESPONSE	7-14µm (filter bandwidth)			
	THERMAL SENSITIVITY	≤150 mK			
THERMAL IMAGING PERFORMANCE	START-UP TIME	~ 5 seconds			
	BRIGHTNESS/CONTRAST	Fully automatic			
	RANGE TO DETECT HUMAN ACTIVITY	Up to 1000ft (305m)			
	SUSCEPTIBILITY TO BLINDING VISIBLE LIGHT	None			
	INFRARED POLARITY	White Hot			
OPTICS	FOV (H x V)	11° x 8°			
	FOCUS METHOD	Manual			
	MINIMUM FOCUS DISTANCE	~ 3ft (1m)			
VIDEO	OUTPUT FORMAT	Analog: NTSC or PAL monochrome on rear outlet jack			
	VIEWFINDER DISPLAY	Monochrome LCD (320 x 240 pixels)			
	VIEWFINDER DIMMING	Integral to power on/off switch			
POWER	POWER SOURCE	2 AA batteries			
	OPERATING TIME	~ 2 hours with alkaline ~5 hours with lithium [77°F (25°C), nighttime operation]			
	AUXILIARY POWER	9 to 12 VDC input on rear outlet jack			
ENVIRONMENTAL CHARACTERISTICS	OPERATING TEMPERATURE	+14°F to 122°F (-10°C to 50°C)			
	STORAGE TEMPERATURE	-4°F to 176°F (-20°C to 80°C)			
	WATER & SHOCK RESISTANCE	Waterproof to 9ft (3m) submersion, buoyant in water. Shockproof to 6ft (2m) drop.			
	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 5.1cm)			
	WEIGHT	13oz (381g), batteries installed			
	EYE CUP	Integral to camera body with 2" eye relief			
ORDERING INFORMATION	CAMERA PART NUMBERS	NTSC: 1000380-0001			
		PAL: 1000380-0002			
CAMERA FEATURES		<ul style="list-style-type: none"> - On-screen battery level indicator - Left- or right-hand operation with rugged slip-resistant grip - 1/4-20 tripod mount - Tactile battery loading feature for stealth nighttime operation - External video and power jacks - Long eye-relief viewfinder for use with glasses, face shield, masks, etc. 			
STANDARD EQUIPMENT		<ul style="list-style-type: none"> - 2 AA alkaline batteries - Neck strap & wrist strap - Lens cover - Lens cleaning cloth 			
OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT	Hard protective case	Power cable (12VDC)	Video cable	AC power adapter
	PART NUMBER	CD11388	6458-1	7070409-0001	6453-1

Specifications subject to change without notice

X-50 January 2008

This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.