



# X640

## Compact Thermal Imager

Visimid X640- Ruggedized Ultra Compact Thermal Imager with 640 x 480 resolution and advanced features!



### BENEFITS

- Simple one-button operation
- Greater scene detail with VGA 640 x 480 resolution
- Video port for simultaneous recording
- Covert operation with fully dimmable microdisplay
- Stows easily into pocket for quick extraction and agile operation in the field and on the run
- Customize camera features with provided user interface software

### FEATURES

- 30 Hz frame rate
- Detect human activity up to 800 yards away (25mm) or up to 1100 yds. away (35mm)
- 2x - 10x programmable e-zoom
- White hot, black hot and 3 color modes
- Temperature measurement & cross hair enabled via supplied software CD
- Survives accidental drops and submersion
- Pocket-sized, weighing only 13 ounces (369 grams)
- Up to 5 hours runtime with two user-replacement AA lithium batteries\*
- Rugged design with integral rubber eye cup- 3- Year Warranty
- Tripod mount (1/4 – 20 thread)



### Camera Kit Includes

- USB Cable
- User Interface Software
- Lens Cloth
- Neck/Wrist Straps
- User Manual
- AA Batteries\*



COVERT SURVEILLANCE  
CRIME SCENE INVESTIGATION  
SEARCH & RESCUE  
MECHANICAL INSPECTION



ELECTRICAL INSPECTION  
FUGITIVE PURSUIT  
OUTDOOR RECREATION  
FARMING/RANCHING



HUNTING  
GAME RECOVERY  
PRE-SEASON SCOUTING  
ANTI-POACHING

\*Compatible with AA alkaline batteries, but improved performance can be obtained with lithium-style batteries



### X640 TECHNICAL SPECIFICATIONS

FEATURES		X640
FOCAL PLANE ARRAY	MATERIAL & STRUCTURE	Amorphous Silicon Microbolometer
	PIXEL COUNT (RESOLUTION)	640 x 480 pixels
	SPECTRAL RESPONSE	7 to 14 $\mu$ m (filter bandwidth)
	THERMAL SENSITIVITY	$\leq$ 50 mK
THERMAL IMAGING PERFORMANCE	START-UP TIME	5 seconds (includes 2-second display of start-up logo)
	BRIGHTNESS/CONTRAST	Fully automatic
	RANGE TO DETECT HUMAN ACTIVITY	Up to 800 yards (25mm), Up to 1100 yards (35mm)
	E-ZOOM	2X- 10X programmable e-zoom
	INFRARED POLARITY	White hot, black hot, detection palettes and custom color modes
OPTICS	FOV (H x V)	24° x 18° (25mm) and 18° x 13.5° (35mm)
	FOCAL LENGTH (MM)	25 and 35 mm options
	MINIMUM FOCUS DISTANCE	3 ft. (1 m)
VIDEO	OUTPUT FORMAT	Simultaneous NTSC output available on rear outlet jack
	VIEWFINDER DISPLAY	Color LCD (640 x 480 pixels)
	VIEWFINDER DIMMING	Integral to power on/off switch
POWER	POWER SOURCE	2 AA batteries (lithium recommended)
	OPERATING TIME	5 hours with lithium at room temperature
	AUXILIARY POWER	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	Water-resistance to 3 ft. (1 m) submersion (IP67), buoyant. Shock-resistance (MIL-STD-810G, Method 516.6). *
	EMC COMPLIANCE	FCC Part 15 & CE Mark
PHYSICAL CHARACTERISTICS	SIZE	5 ½" L x 4 ½" W x 2" H (14 x 11.4 x 5.1 cm) (Both Models)
	WEIGHT	13 oz (369g) for 25mm lens; 14 oz (397g) for 35mm lens, batteries installed
	EYE CUP	Integral to camera body
ORDERING INFORMATION	CAMERA PART NUMBERS	30 Hz - 24° Camera – 5002330-1 30 Hz - 18° Camera – 5002331-1
CAMERA FEATURES	<ul style="list-style-type: none"> <li>- White hot, black hot, detection palette and custom color modes</li> <li>- On – screen battery level indicator</li> <li>- Left- or right-hand operation with rugged slip-resistant grip</li> <li>- ¼ - 20 tripod mount</li> </ul>	<ul style="list-style-type: none"> <li>- Tactile battery loading feature for stealth nighttime operation</li> <li>- External power input and video output jacks</li> <li>- Long eye-relief viewfinder for use with glasses, face shields, masks, etc.</li> <li>- Push-button control to activate feature set</li> </ul>
STANDARD EQUIPMENT	<ul style="list-style-type: none"> <li>- 2 AA lithium batteries</li> <li>- Neck strap &amp; wrist</li> </ul>	<ul style="list-style-type: none"> <li>- Lens cover</li> <li>- Lens cleaning cloth</li> <li>- USB cable</li> <li>- Interface software</li> </ul>
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> <li>- MOLLE- Compatible soft pouch - 5002070</li> <li>- DVR Cable – 5002024</li> </ul>	<ul style="list-style-type: none"> <li>- BNC video cable – 5002068</li> <li>- A/C power adapter - 5002067</li> </ul>
Specifications subject to change without notice		X640 Rev. D July 2017

\*Design qualified, Production units not tested unless by request.