

4500-E9Hz



The Thermal-Eye 4500-E9Hz (Enhanced) has striking image quality and greater sensitivity.

Using L-3's improved Advanced Histogram Processing, the difference is crystal clear. The 4500-E9Hz core uses Amorphous Silicon Microbolometer technology which provides 320 x 240 picture resolution.



MILITARY

FORCE PROTECTION

SECURITY

FIRE AND RESCUE

PUBLIC SAFETY

THERMAL-EYE 4500-E9Hz WITH ADVANCED IMAGE PROCESSING:

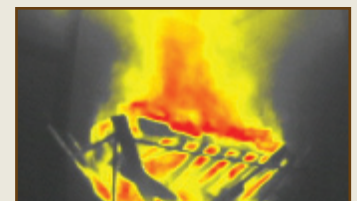
- Enhanced image quality provides better target recognition and contrast for discerning objects of interest
- Improved thermal sensitivity extends target range and reduces noise

FEATURES & BENEFITS:

- Advanced Image Processing utilizing user selectable Histogram Equalization or AGC modes
- Multiple Field of View options utilizing athermalized lenses
- O.E.M. friendly GUI provides extensive flexibility
- Customizable temperature based colorization
- Communication via RS-232
- Selectable NTSC or PAL video format
- Expansion port provides access to digital data along video processing path
- Efficient and knowledgeable integration support available



Perimeter security



Fire scene with customizable absolute color



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Summit Night Vision Group is a U.S. Service-Disabled, Veteran-Owned Small Business.
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THERMAL-EYE 4500-E9Hz TECHNICAL SPECIFICATIONS:

FEATURES		4550-E9Hz	4525-E9Hz	4512-E9Hz	4505-E9Hz
FOCAL PLANE ARRAY	MATERIAL, STRUCTURE & FORMAT	Amorphous Silicon Microbolometer (320 x 240 pixel array)			
	SPECTRAL RESPONSE	7-14µm (filter bandwidth)			
	THERMAL SENSITIVITY	≤ 40mK			
	REFRESH RATE	Real-time 9Hz			
THERMAL IMAGING SYSTEM PERFORMANCE	START-UP TIME	≤ 3 seconds			
	CONTRAST/BRIGHTNESS	Advanced Image Processing			
	SATURATION TEMPERATURE	1100°F +/-10% with automatic electronic iris			
	RANGE TO DETECT HUMAN ACTIVITY	Up to 775ft (235m)	Up to 1465ft (445m)	Up to 3000ft (914m)	Up to 6670ft (2032m)
OPTICS	FOV ALTERNATIVES	Wide FOV 50° x 37.5° Athermalized	Medium FOV 25° x 19° Athermalized	Narrow FOV 12° x 9° Non-Athermalized or Athermalized	5.5° x 4.1° Athermalized
	FOCUS METHOD	Manual adjustment only			
	F/#	1.0	1.2	1.0 Non-athermalized/ 1.2 Athermalized	1.0
VIDEO	ANALOG OUTPUT	NTSC (color): Real-time 9Hz Frame Rate — PAL (color): Real-time 9Hz Frame Rate			
	DIGITAL OUTPUT (OPTIONAL)	Full-resolution, 16-bits (corrected or uncorrected) or 24-bits (RGB color), plus control signals; 9Hz Frame Rate (NTSC) or 9Hz Frame Rate (PAL)			
	OUTPUT RESOLUTION	NTSC: 640 x 480 pixels for higher-clarity thermal images & symbology overlay PAL: 768 x 574 pixels for higher-clarity thermal images & symbology overlay			
	CUSTOMIZABLE ABSOLUTE COLOR	3 OEM selectable color points are mapped to selectable absolute temperatures			
POWER	INPUT VOLTAGE	8 to 32VDC			
	INPUT POWER	~ 2.0W @ 25°C ambient, 12VDC			
INTERFACE & CONTROLS	CAMERA SETUP	USB (compatible with the USB 2.0 specifications)			
PHYSICAL CHARACTERISTICS	SIZE	See diagram below			
	WEIGHT	3.8oz (108g) without optics			
ENVIRONMENTAL CHARACTERISTICS	OPERATING TEMPERATURE	-4°F to 185°F (-20°C to 85°C)			
	STORAGE TEMPERATURE	-40°F to 221°F (-40°C to 105°C)			
AVAILABLE ACCESSORIES	<ul style="list-style-type: none"> OEM Developer Kit 		<ul style="list-style-type: none"> 3-Card Cardcage Kit (includes cardcage & retainer bracket; recommended when using a daughtercard) 		<ul style="list-style-type: none"> RS-232 Serial Interface CCA Kit
ADDITIONAL CAMERA FUNCTIONS	<ul style="list-style-type: none"> OEM software integration & customization GUIs (user parameters, symbology overlay, absolute color) OEM expansion circuit card assembly mounting 		<ul style="list-style-type: none"> OEM expansion port with real-time digital video (optional) and USB 2.0 compatible controls interface (works with USB and high-speed USB systems, peripherals and cables) Selectable temperature indication of scene at central crosshair 		

Specifications subject to change without notice

4500-E9Hz March 2010

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

