

4500AS

- Our newest high-resolution infrared camera core
- Uses proven Amorphous Silicon Microbolometer detector technology (30µm 320 x 240 pixel array)
- The 4500AS is utilized in fire, security, military, public safety and other applications
- Fully compliant with the European Union's Restriction of Hazardous Substances (RoHS)



FEATURE	BENEFIT
HIGH RESOLUTION	Better target resolution and longer stand-off range
30 MICRON DETECTOR	Provides real-time 30Hz frame rate, plus state-of-the-art thermal sensitivity and dynamic range
ADVANCED IMAGE PROCESSING	Sophisticated histogram-based image processing and video output pixel interpolation resolution for best-in-class image quality at all times
CUSTOMIZABLE ABSOLUTE COLOR	Patent pending non-linear colorization allows OEMs to define multiple-color set points for quick, intuitive temperature recognition
WORLDWIDE VIDEO COMPATIBILITY	Selectable real-time NTSC or full-format PAL video output
FLEXIBLE	Sophisticated, integrated GUIs for OEM customization of settings, logos and symbols
OPEN ARCHITECTURE	Expansion port provides access to data along video processing chain for advanced OEMs*
INTEGRATION SUPPORT	Efficient and knowledgeable integration support available



Security scene



Fire scene

*Contact L-3 at 800-990-3275 and ask for Technical Support to see if you qualify as an advanced OEM

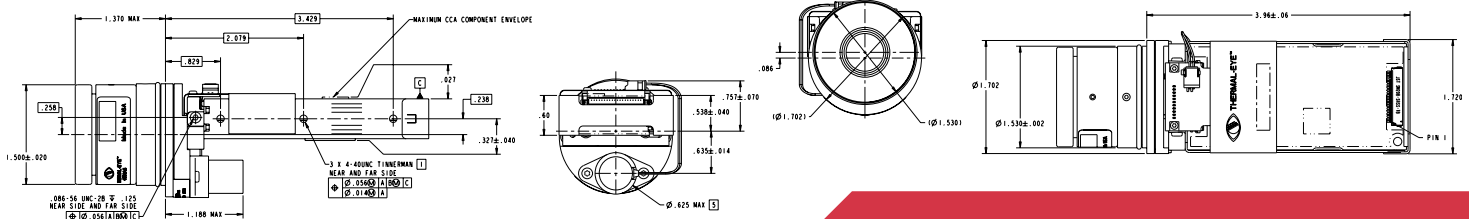
See the Unseen™

4500AS TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE 4550AS	THERMAL-EYE 4525AS	THERMAL-EYE 4512AS	THERMAL-EYE 4506AS (PRELIMINARY)
Focal Plane Array	Material, Structure & Format	Amorphous Silicon Microbolometer (320 x 240 pixel array)			
	Spectral Response	7-14µm (filter bandwidth)			
	Thermal Sensitivity	<50mK			
	Refresh Rate	Real-time 30Hz			
Thermal Imaging System Performance	Start-up Time	~ 4 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 3330ft (1015m)	Up to 6130ft (1860m)
Optics	FOV Alternatives	50° x 37.5°	25° x 19°	12° x 9°	6° x 4.5°
	Focus Method	Manual adjustment only, Temperature stabilized		Manual & Motorized, Athermalized	
	f/#	1.0	1.2	1.0 Non-athermalized/ 1.2 Athermalized	1.2
Video	Analog Output	NTSC (color); Real-time 30Hz Frame Rate — PAL (color); Real-time 25Hz Frame Rate			
	Digital Output (optional)	Full-resolution, 16-bits (corrected or uncorrected) or 24-bits (RGB color), plus control signals; 30Hz Frame Rate (NTSC) or 25Hz 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	5.3oz. (150g) 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)			
Ordering Information	FOV Alternatives	Wide FOV 50° x 37.5° Athermalized	Medium FOV 25° x 19° Athermalized	Narrow FOV 12° x 9° Non-athermalized/ Athermalized	Extremely Narrow FOV 6° x 4.5° Athermalized
	Part Number	7070345-0002	7070345-0004	7070345-0003/ 7070345-0005	TBD
Optional Accessories	OEM Developer Kit	4000024-0001			
	3-Card Cardcage Kit (includes cardcage and retainer bracket — recommended when using a daughtercard)	4000036-0001			
	RS-232 Serial Interface CCA Kit	3000033-0001			
	RS-232 with Electric Focus Kit	N/A		TBD	
Additional Camera Functions	<ul style="list-style-type: none"> OEM software integration & customization GUIs (user parameters, symbology overlay, absolute color) 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) OEM expansion circuit card assembly mounting Selectable temperature indication of scene at central crosshair 				

Specifications subject to change without notice

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This material is L-3 Infrared Products general capabilities information and does not contain any controlled technical data as defined within the International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR).

