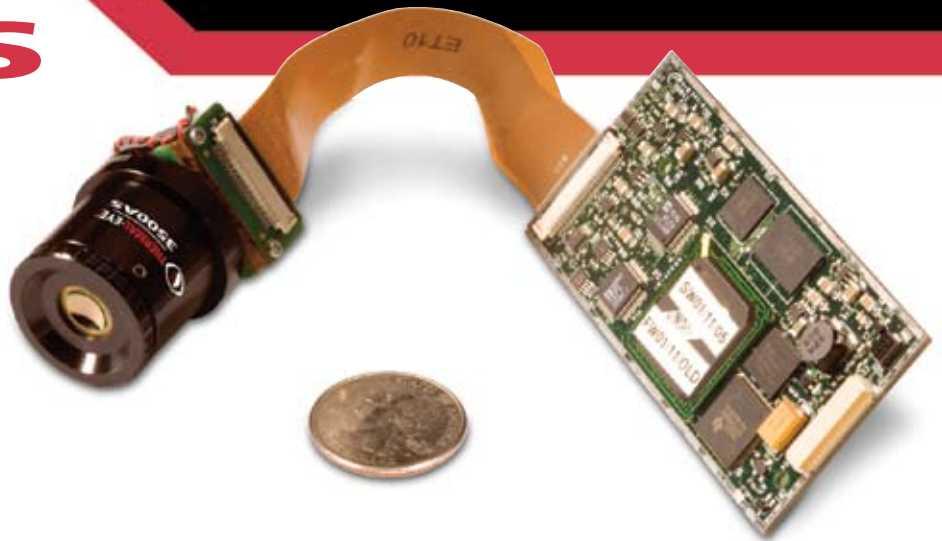


3500AS

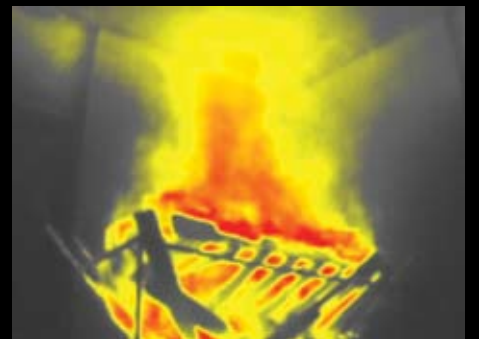
- Lightweight, long wavelength, passive infrared camera core
- Uses proven Amorphous Silicon Microbolometer detector technology (30µm 160 x 120 pixel array)
- Deployed in fire and rescue, security, industrial and public safety applications



FEATURE	BENEFIT
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 640 x 480 video output 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 GUIs for OEM customization
TECHNICAL SUPPORT	Efficient and knowledgeable technical support available
OPEN ARCHITECTURE	Expansion port provides access to data along video processing chain for advanced OEMs*



Perimeter Security



Fire Scene with Absolute Customizable Color

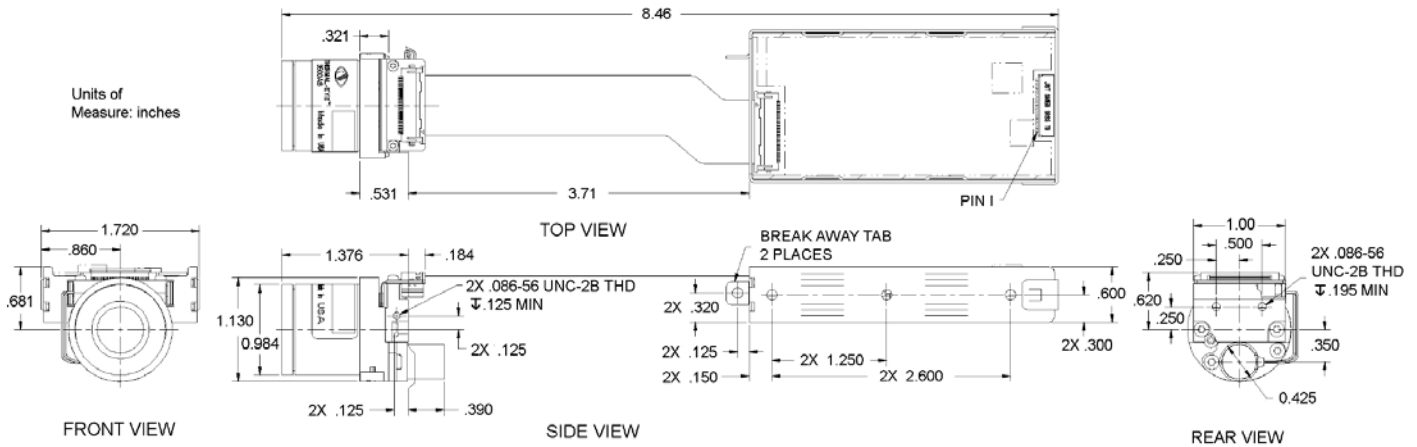
*Contact L-3 at 800-990-3275 and ask for Technical Support to see if you qualify as an advanced OEM

3500 TECHNICAL SPECIFICATIONS:

FEATURES		THERMAL-EYE™ 3500AS		THERMAL-EYE™ 3540AS	
Focal Plane Array	Material, Structure & Format	Amorphous Silicon Microbolometer (160 x 120 pixel array)			
	Spectral Response	7-14 μm (filter bandwidth)			
	Thermal Sensitivity	<50mK			
	Refresh Rate	Real-time 30Hz			
Thermal Imaging System Performance	Start-up Time	~2.4 sec ±10% (@25°C)			
	Contrast / Brightness	Automatic/Advanced Image Processing			
	Saturation Temperature	1100°F (600°C) +/-10% with automatic electronic iris			
	Range to Detect Human Activity	Up to 330 feet (100 meters)	Up to 700 feet (215 meters)		
Optics	FOV Alternatives	5.8mm Focal Length / Wide FOV (~50° x 37°)	11mm Focal Length / Medium FOV (~25° x 18°)		
	Focus Method	Manual/Temperature stabilized	Manual adjustment only		
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 absolute temperatures			
Power	Input Voltage	8 to 32 VDC			
	Input Power	~1.7 W @ 25°C ambient, 12 VDC			
Interface & Controls	Camera Setup	USB (compatible with the USB 2.0 specifications)			
Physical Characteristics	Size	See diagram below			
	Weight	2.38 oz (67.5 g) weight w/o support bracket			
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°)		Medium FOV (25° x 18.75°)	
	Part Number	OEM Kit	Developer Kit	OEM Kit	Developer Kit
	Part Number	7070276-0001	7070276-0004	7070276-0002	7070276-0005
Additional Camera Functions	<ul style="list-style-type: none"> Expansion port with real-time digital video and USB 2.0 compatible control interface (works with USB and hi-speed USB systems, peripherals and cables) Customizable absolute temperature colorization White-hot or black-hot polarity selectable Electronic zoom for 2X to 5X and electronic iris 		<ul style="list-style-type: none"> Selectable temperature indication of scene at central crosshair Optional GUIs for customization and control (user parameters, symbology overlay, color, real-time control) 		

Specifications subject to change without notice

Thermal-Eye 3500AS 3000019 Rev E Nov 2005



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).

