

NanoCore™ INFRARED



1024 x 768

Product Specifications

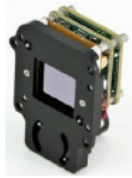
NanoCore™ 1024 Features

- Small size, light weight, and low power
- 17um pitch Focal Plane Array
- Two channels of digital video operating simultaneously
- Two serial interfaces for communication & control; RS-232 and USB
- Two discrete inputs, programmable
- Electronics Zoom, 1x – 8x
- 30Hz frame rate
- Auto-Close shutter when camera is off
- Field – Upgradeable Software
- Advanced Graphical User Interface (GUI) for camera control and setup

NanoCore™ User Interfaces

- Common electronics interface for NanoCore 320, 640, and 1024 – for direct compatibility or upgrade in the NanoCore™ series
- Common mechanical Interfaces for lens and mounting facilitates individual user integration
- Single 80 pin connector for ease of integration with individual users' system electronics
- Additionally, custom optical, mechanical, and system electronics can be provided by L-3 to users' specifications
- NanoCore "M" include electronics for video formats and input power range, and available with choice of optics

NanoCore™ 1024 x 768



(40° shown)

	NanoCore™1024		NanoCore™1024M	
	5000985-1	5000984-1	5000984-2	
Infrared				
FPA Type	Uncooled a-Si Microbolometer			
FPA Resolution	1024 x 768			
FPA pixel pitch	17um			
Spectral Band	LWIR			
Sensitivity	< 50 mK (with f/1.0 optic)			
Frame Rate	30Hz			
Optics				
Focal Length	None	25mm	11mm	
FOV (Horiz x Vert.)	N/A	40° x 30°	20° x 21°	
F/#	N/A	f/1.0	f/1.0	
Lens Type	N/A	Atherm Manual focus	Atherm Manual focus	
Waterproof (3 meters)	N/A	IP68	IP68	
Performance				
Size (WxHxL)	1.6" x 2.2" x 1.1"	2.5" x 2.5" x 3.6"	2.5" x 2.5" x 3.7"	
Weight	53 g	402 g	356 g	
Power	<1.3 Watt	< 1.6Watts		
Features				
Power input	3.3 Vdc	5 – 28 Vdc		
Digital Outputs	2 Channels Simultaneously		2 Channels Simultaneously	
Ch.1 Depth ; Format	8/16/24bit ; Parallel		8/16/24bit ; CameraLink	
Ch.2 Depth ; Format	8bit ; BT.656		8bit ; NTSC	
Turn on time	<4.5 sec			
Electronic Zoom	1x – 4x (0.25x step) and 4x - 8x (1x step)			
Image Processing	Histogram or AGC			
Polarity	Black Hot or White Hot			
Touch-up	Automatic (and Programmable) or Manual			
Serial Comm.	RS-232 or USB2.0 Full-Speed			
Discrete I/O	2 inputs (programmable)			
Environment				
Temperature, Operating	- 40° C to +60° C			
Temperature, Storage	-45° C to +105° C			
Mechanical Shock	20g (11ms) and 500g (o.4ms)			
Mechanical Vibration	4.3G (20Hz to 2000Hz)			
Humidity	5% - 95% RH (non-condense)			

Items described herein may require US Government authorization for export.

Specifications are subject to change without notice.

Camera Link™ is a registered trademark of AIA. NanoCore™ is a registered trademark of L-3 communications.
Please call for additional information.



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