

## NanoCore™ INFRARED



### 320 x 240

## Product Specifications

### NanoCore™ 320 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" includes electronics for video formats and input power range, and available with choice of optics

## NanoCore™ 320 x 240



(57° shown)

### NanoCore™ 320

### NanoCore™ 320M

5000971-3

5000970-3

5000970-2

5000970-1

#### Infrared

FPA Type	Uncooled a-Si Microbolometer			
FPA Resolution	320 x 240			
FPA pixel pitch	17um			
Spectral Band	LWIR			
Sensitivity	< 40 mK (with f/1.0 optic)			
Frame Rate	30Hz (60Hz option)			

#### Optics

Focal Length	None	25mm	11mm	5mm
FOV (Horiz x Vert.)	N/A	12° x 9°	28° x 21°	57° x 43°
F/#	N/A	f/1.0	f/1.0	f/1.0
Lens Type	N/A	Manual focus	Manual focus	Manual focus
Waterproof (3meter)	N/A	IP68	IP68	IP68

#### Performance

Size (WxHxL)	1.4" x 1.4" x 1.3"	1.5" x 1.5" x 3.3"	1.4" x 1.4" x 2.7"	1.4" x 1.4" x 2.7"
Weight	43 g	70 g	63 g	63 g
Power	<1 Watt	< 1.3 Watts	< 1.3 Watts	< 1.3 Watts

#### 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	<3 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 +85° C
Temperature, Storage	-45° C to +105° C
Mechanical Shock	20g (11ms) and 500g (0.4ms)
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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