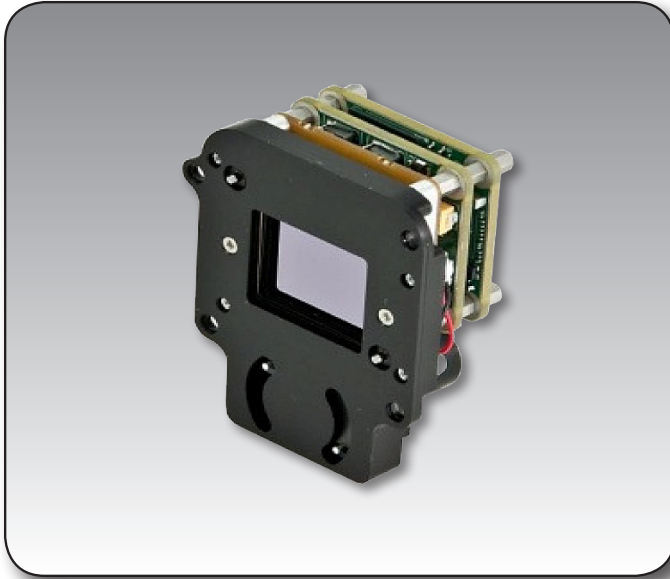




NanoCore® 640 Infrared Core 1024x768 Focal Plane Array



NANOCORE® 1024 FEATURES:

- Small size, light weight, and low power
- 17µm 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

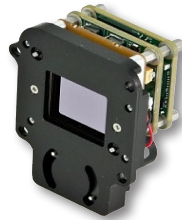
NANOCORE® USER INTERFACE:

- 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



Warrior Systems

NANOCORE® 1024 INFRARED CORE



		NanoCore 1024		NanoCore 1024M (40° shown)	
		5000985-1	5000984-1	5000984-2	
INFRARED	FPA Type	Uncooled a-Si Microbolometer			
	FPA Resolution	1024 x 768			
	FPA pixel pitch	17µm			
	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	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	< 1.6 Watts		
FEATURES	Power input	3.3 Vdc	5 – 28 Vdc		
	Digital Outputs	2 Channels Simultaneously			
	Ch.1 Depth; Format	8/16/24bit; Parallel	8/16/24bit; CameraLink™		
	Ch.1 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 (Programmable) or Manual			
	Serial Comm.	RS-232 or USB 2.0 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 (0.4ms)			
	Mechanical Vibration	4.3G (20Hz to 2000Hz)			
	Humidity	5% - 95% RH (non-condense)			

Specifications are approximate and subject to change without notice.

NanoCore 1024 June 2012



Warrior Systems

InfraRed Products (IRP)

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Approved for public release DoD Ref: TBD.

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