

New Generation x86 Smart Camera

Accelerating development time
for high-end machine vision
applications

- Best performance available with IP67 housing
- Optimal I/O and software integration
- Advanced image processing



ADLINK's newest evolution of x86 smart cameras provides FPGA coprocessors, GPU, and multi-core CPU, for superior power and development flexibility, improving on conventional smart cameras' all-in-one solutions, compact size, moderate computing power and resolution. Additionally, GenTL support for image acquisition and Open CV and Open CL programming support all significantly benefit developers.

Why ADLINK Smart Camera?



High Performance

- Equipped with 4 MP, 60fps, global shutter sensor for high-speed inspection
- Quad Core Intel® Atom™ Processor E3845 1.91 GHz improves dramatically on the performance of conventional smart cameras



Maximum Integration

- Supports GigE Vision 1 slave camera, reducing TCO for multi-camera inspection applications
- Built-in PWM lighting control, integrated to make communication with external devices more flexible
- 4 x Digital inputs, 4 x Digital outputs, USB 2.0 port, RS-232 ports



Easy Development

- Software support with MVTec HALCON, STEMMER IMAGING Common Vision Blox, Adaptive Vision, Open CV, Open CL and many others
- GeniCam and GenTL compatible for image acquisition



Food Packaging



Produce



Pharmaceutical



Robot Guidance



Coming Soon

		Neon-1020	Neon-1040
Processing & Memory			
Processor		Intel Atom E3845 Processor, Quad Core @ 1.91 GHz	
Display		VGA output, max. 2560 x1600 at 60 Hz	
RAM		2 GB DDR3L	
Storage		16 to 32 GB solid state drive	
Advanced Processing		ROI, LUT, Shading Correction	
Sensor			
Image Sensor		CMV2000	CMV4000
Resolution		2048 x 1088	2048 x 2048
Sensor Size		2/3"	1"
Pixel Size (µm)		5.5	
Frame Rate (fps)		120	60
Shutter		Global	
Trigger Mode		External trigger, software trigger, free run	
I/O Interface			
Trigger Input		1x Opto-isolated trigger input	
Digital Output		4x sink type output, max sink 100mA sink voltage max 30VDC	
Digital Input		4x TTL level input	
Lighting Control	Drive Method	Constant current 500 mA	
	Intensity	PWM control, Max. 125 KHz	
	Applicable Light Units	12 VDC to 24 VDC illuminators	
	20KHz	1000 steps	
Ethernet		1 x GbE	
Serial Communication		1 x RS-232	
USB		1 x USB 2.0	
Mechanical			
Dimensions		68.5mm W x 110mm D x 52.7 mm H / 2.70" W x 4.33" D x 2.08" H (68.5mm x 110mm x 42.7mm reduced size option)	
Lens mount		C mount	
Connectors		1xM12 8-pin (Female), 1xM12 17-pin (Male), 1x M12 12-pin (Male)	
Software Support			
Operation System		Windows 7, Windows Embedded Standard 7	
Environmental & Electrical			
Power Consumption		12 to 24 VDC +/-10%, 13W (typical)	
Operating Temperature		0° to 50 °C	
Vibration		Operating, 5 Grms, 5-500 Hz, 3 axes	
Certification		IP67, CE, FCC Class A	

Contact ADLINK sales for product availability.

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