NEWTON
RESEARCH LABS
www.newtonlabs.com

Model 9150

Digital Machine Vision System

The Model 9150 is Newton Labs' most powerful digital single imager standard vision system, operating with high performance in both color and gray scale applications. The Model 9150 is designed to be easily integrated with an appropriate digital imager and illumination source for virtually any machine vision requirement. The Model 9150 is extremely powerful, operating at up to 8.8 billion pixel operations per second, making it capable of operating at extremely high speeds while performing very complex machine vision algorithms.

The Model 9150 is a completely digital system, imputing digital images in Ethernet format and outputting digital video in VGA format. The Model 9150 additionally outputs RS170 video (NTSC) for legacy purposes where RS170 video is used by older display systems. Unlike many competing systems, the Model 9150 accepts digital video in a number of formats, including compressed video in many of the standard compression formats. It also accepts digital video in uncompressed mode, RS170 Video (NTSC or PAL) that has been digitized and compressed and RS170 Video (NTSC or PAL) that has been digitized but not compressed.

Newton Research Labs, Inc.
441 SW 41st Street
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Digital Machine Vision System

Technical Specifications	
Construction	
Size:	9.5" x 5" x 9.25"
Weight:	10 lbs.
Enclosure:	NEMA rated extruded aluminum, completely enclosed
Processor:	Embedded Multi-core MMX
Mounting:	Via 4 x 3/16" holes on back panel or rack mount
Connections	
Serial:	Standard DB9 for RS232/RS422
USB	USB2 Master
Ethernet:	GigE/100/10 Ethernet
Input Voltage:	85-240 VAC, 47-63 Hz, IEC 320 Connector - IEC 950 Compliant
Input Current:	5 A @ 115 VAC, 2.5 A @ 230 VAC
I/O:	DB 37 connector to assure plenty of I/O options
Inputs:	8 digital, Gig Ethernet, USB and RS422 Serial
Outputs:	16 digital, Gig Ethernet, USB and RS422 Serial
Imager:	Gig Ethernet connector
Imager Output:	VGA or BNC
Video Output:	VGA
Illumination:	DB 25 connector for illumination control and power
Operations	
Speed:	Extremely high speed systems, up to 8.8 billion pixel operations per second
Set up:	Use with Newton Labs preprogrammed software algorithms for easy set up
Operating Temperature:	40 - 110 degrees F (optional high and low temperature systems) 4 - 44 degrees C
Storage Temperature	0 - 140 degrees F -20 - 60 degrees C

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