ISG LW-WVGA-G-1394 Intelligent Camera

- Wide-VGA array (752 x 480)
- Full Electronic Global Shutter with 72 fps performance
- Extended Dynamic Range to 110db for low light performance
- On-Board FPGA & Processor for Easy Customization
- Compact Size & Low Cost. Designed for OEM Applications
- Field Upgradeable



The new LightWise smart cameras combine CMOS technology and the FireWireTM standard to give a low-cost, high performance solution to machine vision applications. These compact cameras shorten the typical integration time associated with vision systems and offer flexibility for OEM solutions. Fully compliant with the IEEE-1394 IIDC DCAM Specification Version 1.3, these cameras can be used with compatible programs such as NI LabVIEWTM, Norpix StreamPixTM, Matrox MilTM, MVTec, and other 3rd Party Software packages. All cameras are compatible with National Instruments IMAQ IEEE-1394 driver, Vision Assistant, Vision Builder for Automated Inspection, and the Compact Vision System (CVS).

All camera controls are done through software, which includes a fully programmable dynamic range/gamma control LUT for any desired response curve. An on-board image buffer is also featured in these cameras. All cameras offer opto-isolated programmable I/O for triggering and strobe control capabilities. User-programmable controls include integration time, gain adjustments, offset, bit depth and data rate. These cameras come packaged with 1394 drivers, GUI Control software and a user's manual. Support for Windows 2000 & XP & LINUX. These area cameras feature Digital Pan & Zoom hardware or Motion-JPEG as an option.

Applications include:

High Speed High Resolution Scanning
Automated Inspection Systems
Machine Vision Systems
Sorting
Bar Code Reading
Web Inspection
Edge Detection
Encoding & Positioning
Metrology
Spectroscopy
Internet Monitoring
Security & Surveillance

	LW-WVGA-G-1394
Imaging Device:	Wide-VGA 752 x 480 CMOS
Sensor Used:	Micron MT9V022
Sensing Area:	4.55mm x 2.97mm (1/3"format)
Pixel Size:	6.0 micron square
Pixels (H x V):	752 x 480
Pixel Depth:	10 / 30 bit (mono / color)
On-Board Image Buffer	16MB for mono & 32MB for color
Camera Control:	Via Software
Frame Rate:	72 fps (752 x 480)
Exposure Control:	Fully programmable
Shutter:	Global TrueSnap™ Shutter
Synchronization:	External or via software
Dynamic Range:	75 db to 110 db
Video Output:	IEEE-1394a
Lens Mount:	C or CS-Mount
Mounting:	Via 1/4-20 mounting adapter
Power Requirement:	Via FireWire TM 1394 Cable
Vibration (10-2K Hz):	7G
Shock:	70G
Dimensions (HxWxL):	38mm x 51mm x 72mm
Weight:	176g
Operating Temp.:	-10 ⁰ C to 85 ⁰ C
Monochrome:	Yes
Color:	Yes
Pricing:	Call ISG

