

Firewire cameras by ISG

ISG (Integrated Solution Group Inc.) supplies a series of area & line scan cameras with global and synchronous/rolling shutter options. The cameras provide an on-board image buffer and a FPGA & processor for easy customization. Due to this they are very suitable for OEM applications and can be upgraded also in the field.

All camera controls are done through software. They provide a fully programmable dynamic range / gamma control LUT for any desired response curve. An opto-isolated I/O port can be used for triggering and strobe controls. User-programmable camera features include integration time, gain adjustments, offset, bit depth and data rate.



- IEEE-1394 IIDC DCAM spec. Ver. 1.3.1 fully compliant
- Very high frame rates in reduced regions of interest (Windows)
- All cameras are compatible with National Instruments IMAQ IEEE-1394 driver, Vision Builder for Automated Inspection, & the Compact Vision System (CVS).
- Applications include: Security & Surveillance, Internet Monitoring, High Speed High Resolution Scanning, Sorting, Automated Inspection Systems, Bar Code reading, Machine Vision Systems, Encoding and Positioning, Web Inspection, Spectroscopy, Edge Detection, Metrology

Type	Format	Pixel size [µm]	Pixels (H x V)	Pixel depth	Frame rate [fps]	Dynamic range [dB]	Remarks
Area cameras							
LW-WVGA-G-1394	1/3	6.0 x 6.0	752 x 480	10	60	> 60	Global shutter
LW-1.3-S-1394	1/2	5.2 x 5.2	1280 x 1024	10	30	> 62	Rolling shutter
LW-1.3-G-1394	2/3	6.7 x 6.7	1280 x 1024	10	27	> 64	Global Snapshot
LW-3-S-1394	1/2	3.2 x 3.2	2048 x 1536	10	12	> 61	Rolling shutter
LW-1.3-S-1394-Ethernet	1/2	5.2 x 5.2	1280 x 1024	10	30	> 62	Rolling shutter
LW-5-S-1394	1/ 2.5	2.2 x 2.2	2592 x 1944	10	12	> 66	Rolling shutter
LW-6.6-S-1394	1	3.5 x 3.5	3002 x 2210	10	5	> 61	Rolling shutter
LW-8-S-1394	1/ 2.5	1.75 x 1.75	3264 x 2448	10	12	> 66	Rolling shutter
Line scan cameras							
LW-ELIS-1024a-1394		7.8 x 125	1024 x 1	14	10k	> 86	Global Snapshot
LW-SLIS-2048a-1394		7.0 x 7.0	2048 x 1	12	27k	> 72	Global Snapshot
LW-PE-2048-1394		14 x 14	2048 x 1	12	18k	> 72	Global Snapshot

All area cameras feature Digital Pan & Zoom hardware or Motion-JPEG as an option. All cameras weigh 210 g, have a dimension of (HxWxL) 38mm x 51mm x 72mm and are powered via the 6-pin IEEE-1394 cable. Available are accessories as connection and trigger cables, IR cut filters and different software packages for capturing and recording images (e.g. ImageWarp and ActiveDCAM from A&B Software LCC).

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