



PIXELINK® PL-E CCD CAMERA MODELS (SONY SENSORS)

Camera Model	Color / Mono.	Sony Sensor	Resolution	Sensor Size	Frame Rate	Pixel Size	Exposure Time
PL-E95VAXG	C / M	ICX 618 (NIR)	0.3 MP (640 x 480)	1/4"	150	5.60	65 μ s -2 s
PL-E95VBXG	C / M	ICX 424	0.3 MP (640 x 480)	1/3"	124	7.40	3 μ s -2 s
PL-E95VCXG	C / M	ICX 414	0.3 MP (640 x 480)	1/2"	124	9.90	21 μ s -2 s
PL-E95WXG	C / M	ICX 415	0.4 MP (780 x 580)	1/2"	86	8.30	22 μ s -2 s
PL-E95XXG	C / M	ICX 204	0.8 MP (1024 x 768)	1/3"	47	4.65	17 μ s -2 s
PL-E95UXG	C / M	ICX 445	1.2 MP (1280 x 960)	1/3"	30	3.75	15 μ s -2 s
PL-E95SAXG**	C / M	ICX 285	1.4 MP (1360 x 1024)	2/3"	34	6.45	20 μ s -2 s
PL-E95SBXG	C / M	ICX 267	1.4 MP (1360 x 1024)	1/2"	25	4.65	40 μ s -2 s
PL-E952XG	C / M	ICX 274	1.9 MP (1600 x 1200)	1/1.8"	26	4.40	26 μ s -2 s
PL-E955XG	C / M	ICX 655	5.0 MP (2448 x 2050)	2/3"	10	3.45	40 μ s -2 s

XG - (X) = color or mono. (G) = Gigabit Ethernet interface **PL-E95SAXG Offered with C-Mount Only

GENERAL DESCRIPTION

The **PL-E950** ultra-compact cameras provide high resolution, low noise images for outstanding value in a broad range of industrial applications. These cameras feature a large range of sensor models with high frame rates.

The PL-E950 cameras are based on Sony ICX CCD progressive scan sensors with cs-mount or c-mount adapter. The extensive built-in image processing possibilities (image pre-processing) result in outstanding image quality, less load on the system and higher performance. These cameras provide the user 14-bit ADC (8 or 12 bit transferred) digitization and a selectable Area of Interest (AOI) for increased frame rates. The external hardware trigger and general-purpose outputs ensure users have the flexibility to synchronize the camera with their processes and illumination.

PixelINK's industry leading SDK uses a common API for all cameras regardless of the chosen interface. Software code developed for one camera is easily transferred to other PixelINK models without the need to recompile, overall system costs are reduced and camera integration is simplified.

Typical Applications

- Aerospace
- Automotive
- Beverage / Food
- Mechanical engineering
- Medical technology
- Optical metrology
- Pharmaceutical
- Plastics
- Printing
- Semiconductor
- Timber
- Traffic monitoring and Transportation systems

FEATURES

- Sony CCD Sensor
- Monochrome and Color
- Area of Interest (AOI)
- Gigabit Ethernet
- 64MB of internal memory
- General Purpose Input/Outputs
- 12 pin Hirose connector with power
- External trigger with internal exposure control
- External trigger with pulse width exposure control
- Ultra-compact size
- POE and IP67 Options are available
- CS-Mount with C-Mount adapter
- One common API for all cameras
- Free professional technical assistance
- up to 100 metre range
- GigE-Vision and GenICam standard compliant
- 8/12 Bit video data stream (14 Bit ADC)

Camera control options:

- Internal LUT operations
- Internal flat-field correction
- Adjustable gain
- Auto- exposure and auto-gain
- Low offset
- Various binning modes
- Area of Interest (AOI)
- Gigabit Ethernet interface with max. 120 MB/s datarate

SENSOR

Sensor	Sony ICX Sensors
Type	CCD Progressive Scan

PERFORMANCE SPECIFICATIONS *

Bit Depth	8 & 12-bit (14 bit ADC)
Color Data Formats	Bayer 8, Bayer 16 and YUV422
Mono Data Formats	Raw, Mono 8 and Mono 16
Gain	Variable

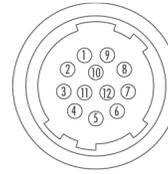
MECHANICALS

Dimensions	38 x 33 x 38 mm (POE Model 38 x 45 x 38 mm)
Weight	91 g
Lens Mount	CS-Mount with C-Mount adapter

INTERFACES

Interface / Data rate	Gigabit Ethernet 100/1000 MBit
Trigger Connector	12-pin Hirose
Trigger Modes	Free running, software, hardware

PIN OUTPUT DESCRIPTION



1	VIN- (GND)	7	OUT1 (TTL Level)
2	VIN+ (10V to 25V DC)	8	OUT2 (TTL Level)
3	RXD (RS232 Level)	9	IN3+ (RS422 Level)
4	TXD (RS232 Level)	10	IN3- (RS422 Level)
5	IN1 (TTL Level)	11	OUT3+ (RS422 Level)
6	IN2 (TTL Level)	12	OUT3- (RS422 Level)

POWER REQUIREMENTS

Voltage Req.	10-25 V DC
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SOFTWARE

PixeLINK Capture OEM	Free Download (www.pixelink.com)
SDK	API, detailed sample code

ENVIRONMENTAL & REGULATORY

Compliance	FCC Class B, CE & RoHS
Shock & Vibration	300 G & 20 G (10Hz - 2KHz)
Operating Temp.	-10°C to 45°C (non-condensing)

COMPUTER & OPERATING SYSTEM

Processor	2.0 GHz or better
Memory	512 MB min. 1 GB recommended
Operating System	XP, Vista (supported) Windows 7 & Linux
Hard Drive Space	75 MB

