



## XCGSX97E

### 2/3-type Progressive Scan IT CCD GigE Camera

Pricing available upon request

## Overview

Sony continues to be on the cutting edge of camera technology with the latest addition to its industrial camera line up - The XCG GigE Series. The XCG-SX97E incorporates the GigE Vision interface which is specifically standardized for machine vision applications based on Gigabit Ethernet Technology. The GigE interface enables the camera to transfer a large amount of data over long distances. The use of an Ethernet cable and availability of a wide variety of peripheral devices contribute to significant cost-cutting benefits when designing a complete vision system. Moreover, by incorporating a packet re-send mechanism, the XCG-SX97E can securely transmit data to the host computer. The C-mounted camera measures 44 x 33 c 67.5mm, delivers a resolution depth of up to 12 bits per pixel with a shutter speed of 2 to 1/100,000 and enables 0-18dB of gain control with 0-6dB of digital gain.

## Highlights

- \* Sony 2/3 Progressive Scan IT CCD
- \* GigE Vision Compliant (Ver 1.0)
- \* Up to 16 fps
- \* Variety of Trigger Modes
- \* Power on LED settings
- \* XML File (GenICam Compatible)
- \* Two connectors: RJ-45 (locking -20mm pitch) EIAJ -12 pin (power, trigger-in, strobe-out, isolated digital I/O)
- \* Compact and Lightweight
- \* High Shock and Vibration Resistance

## Features

Features	Benefits
GigE Vision Compliance	The XCG-SX97E camera is GigE Vision Compliant, which enables the camera to transfer a large amount of data over long distances. The use of an Ethernet cable and availability of a wide variety of peripheral devices contribute to significant cost-cutting benefits when designing a complete vision system.
Variety of Trigger Modes	The XCG-SX97E camera offers a wide variety of trigger modes, including Pulse-edge detection mode, Pulse-width detection mode, and Special Trigger Mode. In addition, advanced Bulk Trigger Mode allows the XCG-SX97E to capture up to 16 images in rapid succession using a single software or hardware trigger. Sequential trigger mode periodically sends a software or hardware trigger to the XCG-SX97E to capture the successive images.
Excellent Picture Quality/High Frame Rates	The XCG-SX97E is ideal for applications that require the capture of ultra-high image detail (up to 16 fps)
Progressive Scan Monochrome CCD	The XCG-SX97E incorporates a 2/3-type High Speed Progressive Scan IT CCD, providing resolution of 1360 x 1024 SXGA.
High Shock and Vibration Resistance	The new XCG-SX97E is a robust camera with high shock and vibration resistance which allows for delivery of outstanding performance in the most challenging environmental conditions.
Image Buffer	The new XCG-SX97E is equipped with an image buffer, which serves as temporary storage for captured images for later transmission or retransmission. This function allows users to maximize bandwidth in multiple-camera operations or reconfirm specific images as required.
Vertical and Horizontal Partial Scanning	By selecting a particular area of image to be scanned, users of the XCG-SX97E can reduce data size and increase frame rate to minimize processing time.

Sony Image Filter Dedicated Driver	The XCG-SX97E features a Sony-provided, dedicated image filter driver, which enable jumbo-packet data transfer across all industry standard hardware. It is also capable of non-GigE Vision data transfer in GigE Vision environments.
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Vertical and Horizontal Partial Scanning	By selecting a particular area of image to be scanned, users of the XCG-SX97E can reduce data size and increase frame rate to minimize processing time.
Other Features	<ol style="list-style-type: none"> <li>Two connectors: RJ-45 (locking -20mm pitch); EAIJ-12 pin (power, trigger-in, strobe-out, isolated digital I/O)</li> <li>Power on LED</li> <li>Low Power Consumption (3.1 W)</li> <li>Compact and Lightweight (44 x 33 x 67.5 mm / 145 g)</li> <li>Shutter Speed: 2 to 1/100,000 s</li> </ol>

## Specifications

Camera Specifications	Detail
Cell Size	6.45 x 6.45 μm
Frame Rate	16 fps
Frame Rate Value	16 fps
Gain	Manual 0 to +18 dB Auto gain Digital Gain (1x to 2x)
Image Device	2/3 type progressive scan IT CCD
Image Size	1360 x 1024
Lens Mount	C-mount
Memory Channel	16 channels
Readout Features	Binnarization Gamma correction (LUT) Built-in Test Pattern
Resolution	1360 x 1024
Resolution Depth	8/10/12 bits/pixel
General Specifications	Detail
Dimensions (W x H x D)	1 3/4 x 1 5/16 x 2 3/8 inches (44 x 33 x 57.5 mm)
Operating Humidity	20 to 80% (non condensing)
Operating Temperature	-5 to +45 °C (23 to 113 °F)
Power Consumption	3.1 W
Power Requirements	DC +10.5 - 15.0 V
Shock Resistance	70 G
Storage Humidity	20 to 95% (non condensing)
Storage Temperature	-30 to +60 °C (-22 to +140 °F)
Vibration Resistance	10 G (20 Hz to 200 Hz)
Weight	145 g (less than 5 3/4 oz)

## Accessories

Supplied Accessories		
Model:	Description:	U.S.List Price
	Lens Mount Cap (1)	Pricing available upon request

## Resources

### Installation Guide

Description:	Release Date	Type/Size	
GigE-New-w-99E.pdf		pdf / 533K	<a href="#">Download now</a>

### Product Brochure

Description:	Release Date	Type/Size	
Intelligent Traffic Systems Product Brochure		pdf / 1,123K	<a href="#">Download now</a>
prodbroch_xcggige.pdf		pdf / 1,649K	<a href="#">Download now</a>