



FLIR **ORYX**<sup>®</sup>

10 GIGE VISION

P/N: ORX-10G-89S6

**GIG**  
VISION

**10**  
GIGE

**4K60 and  
beyond**

#### KEY FEATURES

- The latest high performance Sony Pregius sensors
- 4K60 at 12 bit HDR
- IEEE1588 clock synchronization
- GigE Vision backward compatibility
- Long cable length over inexpensive CAT6A copper cables

#### APPLICATIONS

- Sports analytics and motion tracking
- Automated optical inspection
- Research
- Large volume 3D scanning
- Broadcast + VR

### High Speed Interface

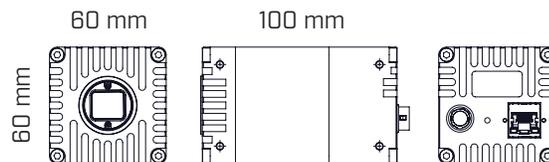
Capture global shutter 4K images at 60FPS (12-bit), and minimize cycle times with low latency image transfer

### Reliability and Simplicity

Proven and reliable 10GBASE-T interface supports cable lengths over 50 m using widely available hardware

### Flexibility for Integrators

GigE Vision compatibility and advanced on-camera features give integrators the tools to quickly develop innovative solutions



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VISION

GEN*i*CAM

IEEE 1588

Pregius

## Specifications

	ORX-10G-89S6M	ORX-10G-89S6C
<b>Resolution</b>	4096 x 2160	
<b>Frame Rate</b>	93 FPS	
<b>Megapixels</b>	8.9 MP	
<b>Chroma</b>	Mono	Color
<b>Sensor</b>	Sony IMX255, CMOS, 1"	
<b>Readout Method</b>	Global shutter	
<b>Pixel Size</b>	3.45 µm	
<b>Lens Mount</b>	C-mount	
<b>ADC</b>	8-bit / 10-bit / 12-bit	
<b>Minimum Frame Rate*</b>	1 FPS	
<b>Gain Range*</b>	0 to 47 dB	
<b>Exposure Range*</b>	5 µs to 30 s	
<b>Acquisition Modes</b>	Continuous, Single Frame, Multi Frame	
<b>Partial Image Modes</b>	Pixel binning, decimation, ROI	
<b>Image Processing</b>	Shading correction, gamma, lookup table, and sharpness	Shading correction, color correction matrix, gamma, lookup table, saturation, and sharpness
<b>Sequencer</b>	Up to 8 sets using 2 features, exposure and gain	
<b>Image Buffer</b>	240 MB	
<b>PTP1588</b>	Supported	
<b>User Sets</b>	2 user configuration sets for custom camera settings	
<b>Flash Memory</b>	4 MB non-volatile memory	
<b>Opto-isolated I/O</b>	2 input, 2 output	
<b>Non-isolated I/O</b>	1 bi-directional / 1 input	
<b>Serial Port</b>	1 (over non-isolated I/O)	
<b>Auxiliary Output</b>	3.3 V, 150 mA maximum	
<b>Interface</b>	10GigE	
<b>Power Requirements</b>	Externally powered over GPIO (12 - 24 V)	
<b>Power Consumption</b>	11 W nominal, 15 W maximum	
<b>Dimensions/Mass</b>	60 mm x 60 mm x 100 mm / 500 g	
<b>Machine Vision Standard</b>	GigE Vision	
<b>Compliance</b>	CE, FCC, KCC, RoHS, REACH	
<b>Temperature</b>	Operating: 0°C to 50°C Storage: -30°C to 60°C	
<b>Humidity</b>	Operating: 20% to 80% (no condensation) Storage: 20% to 95% (no condensation)	
<b>Warranty</b>	3 years	

\*Ranges are the same in binning and no binning modes.

### FLIR Integrated Imaging Solutions

#### CANADA

12051 Riverside Way  
Richmond, BC, Canada  
V6W 1K7  
T: +1 866.765.0827 (toll free)  
T: +1 604.242.9937  
F: +1 604.242.9938  
E: mv-sales@flir.com  
www.flir.com/mv

#### USA

T: +1 866.765.0827 (toll free)  
E: mv-na-sales@flir.com

#### EUROPE

T: +49 7141 488817-0  
F: +49 7141 488817-99  
E: mv-eusales@flir.com

#### CHINA

T: +86 10 8215 9938  
F: +86 10 8215 9936  
E: mv-chinasales@flir.com

#### ASIA

E: mv-asiasales@flir.com

### DISTRIBUTORS

www.flir.com/contact-us

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