



FLIR **ORYX**[®]

10 GIGE VISION

P/N: ORX-10G-123S6

GIG
VISION



**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

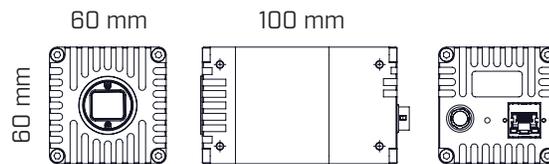
Capture global shutter 4K images at 60FPS (12-bit), and minimize cycle times with low latency image transfer

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



GIG
VISION

GEN<i>CAM

IEEE 1588

Pregius

Specifications

	ORX-10G-123S6M	ORX-10G-123S6C
Resolution	4096 x 3000	
Frame Rate	68 FPS	
Megapixels	12.3 MP	
Chroma	Mono	Color
Sensor	Sony IMX253, CMOS, 1.1"	
Readout Method	Global shutter	
Pixel Size	3.45 µm	
Lens Mount	C-mount	
ADC	8-bit / 10-bit / 12-bit	
Minimum Frame Rate*	1 FPS	
Gain Range*	0 to 47 dB	
Exposure Range*	5 µs to 30 s	
Acquisition Modes	Continuous, Single Frame, Multi Frame	
Partial Image Modes	Pixel binning, decimation, ROI	
Image Processing	Shading correction, gamma, lookup table, and sharpness	Shading correction, color correction matrix, gamma, lookup table, hue, saturation, and sharpness
Sequencer	Up to 8 sets using 2 features, exposure and gain	
Image Buffer	240 MB	
PTP1588	Supported	
User Sets	2 user configuration sets for custom camera settings	
Flash Memory	4 MB non-volatile memory	
Opto-isolated I/O	2 input, 2 output	
Non-isolated I/O	1 bi-directional / 1 input	
Serial Port	1 (over non-isolated I/O)	
Auxiliary Output	3.3 V, 150 mA maximum	
Interface	10GigE	
Power Requirements	Externally powered over GPIO (12 - 24 V)	
Power Consumption	11 W nominal, 15 W maximum	
Dimensions/Mass	60 mm x 60 mm x 100 mm / 500 g	
Machine Vision Standard	GigE Vision	
Compliance	CE, FCC, KCC, RoHS, REACH	
Temperature	Operating: 0°C to 50°C Storage: -30°C to 60°C	
Humidity	Operating: 20% to 80% (no condensation) Storage: 20% to 95% (no condensation)	
Warranty	3 years	

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

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