



## INDUSTRIAL/MACHINE VISION APPLICATIONS

# FLIR ORYX®

P/N: ORX-10GS-123S6

## ULTRA-HIGH RESOLUTION

The award winning Oryx 10GigE camera family allows systems designers to take advantage of the latest sensors by supporting transfer speeds up to 10Gbit/s enabling the capture of 4K resolution, 12-bit images at over 60FPS. Oryx's 10GBASE-T interface is a proven and widely deployed standard that provides reliable image transfer at cable lengths over 50 meters on inexpensive CAT6A, or greater than 30 m on CAT5e. On-camera features including IEEE1588 clock synchronization and full compatibility with popular third-party software supporting GigE Vision, gives system designers the tools to quickly develop innovative solutions.

[www.flir.com/products/oryx-10gige](http://www.flir.com/products/oryx-10gige)

### FEATURES

#### HIGH RESOLUTION SENSOR ON HIGH SPEED INTERFACE

Increase throughput by capturing 12.3 MP Global Shutter images at 68 FPS

#### RELIABILITY AND SIMPLICITY

10GBASE-T interface supports cables over 60m and makes multi-camera system set-up easy

#### FLEXIBILITY FOR INTEGRATORS

Develop innovative solutions quickly with GigE Vision compatibility and advanced on-camera features

### APPLICATIONS

SPORTS ANALYTICS AND MOTION TRACKING

AUTOMATED OPTICAL INSPECTION

RESEARCH

LARGE VOLUME 3D SCANNING

BROADCAST + VR



## SPECIFICATIONS

| SPECS                         | ORX-10GS-123S6M-C  | ORX-10GS-123S6C-C   |
|-------------------------------|--|---|
| 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, and 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              | Gamma, lookup table, and sharpness   | Color correction matrix, gamma, lookup table, saturation, and sharpness |
| Sequencer                     | Up to 8 sets using 2 features  |   |
| Image Buffer                  | 240 MB   |   |
| 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              | 2 bi-directional   |   |
| Serial Port                   | 1 (over non-isolated I/O)  |   |
| Auxiliary Output              | 3.3 V, 120 mA maximum  |   |
| Interface                     | 10GigE   |   |
| Power Requirements            | Externally powered over GPIO (12 - 24 V)   |   |
| Power Consumption             | 13 W maximum (12.8 W nominal)  |   |
| Dimensions/Mass               | 60 mm x 60 mm x 64 mm / 386 g  |   |
| Machine Vision Standard       | GigE Vision  |   |
| Time Synchronization Protocol | IEEE 1588 Precision Time Protocol  |   |
| Compliance                    | CE, FCC, RoHS, REACH. The ECCN for this product is: EAR099.                      |   |
| Temperature                   | Operating: 0°C to 70°C (case)<br>Storage: -30°C to 60°C (ambient)                |   |
| Humidity                      | Operating: 20% to 80% (no condensation)<br>Storage: 30% to 95% (no condensation) |   |
| Warranty                      | 3 years  |   |

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

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YOUR NEEDS



The World's Sixth Sense®