



INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR ORYX®

P/N: ORX-10GS-32S4

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 allowing for ultra high resolution images on some models or lighting fast frame rate on others. 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.

FEATURES

HIGH RESOLUTION SENSOR ON HIGH SPEED INTERFACE

Increase throughput by capturing 5 MP Global Shutter images at 163 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



| SPECS | ORX-10GS-32S4M-C | ORX-10GS-32S4C-C |
|-------------------------------|--|---|
| Resolution | 2048 x 1536 | |
| Frame Rate | 216 FPS | |
| Megapixels | 3.2 MP | |
| Chroma | Mono | Color |
| Sensor | Sony IMX252, CMOS, 1/1.8" | |
| Readout Method | Global shutter | |
| Pixel Size | 3.45 μ m | |
| 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* | 17 μ s 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, maximum 1 image | |
| 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 | 11.8 W maximum (11.3 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) Storage: -30°C to 60°C (ambient) | |
| Humidity | Operating: 20% to 80% (no condensation) Storage: 30% to 95% (no condensation) | |
| Warranty | 3 years | |

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

