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# Oryx® ORX-10G-71S7M-C Mono 10GigE

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ORYX-10G-310S9C



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

ORX-10G-71S7M-C **Model Number:**

FLIR **Manufacturer:**

Oryx® **Camera Series:**

## Physical & Mechanical Properties

60 x 60 x 100 **Dimensions (mm):**

500 **Weight (g):**

Full **Housing:**

## Sensor

240MB **Image Buffer:**

1.1" **Sensor Format:**

7.10 **Resolution (Megapixels):**

112.00 **Frame Rate (fps):**

3,208 x 2,200 **Pixels (H x V):**

4.50 x 4.50 **Pixel Size, H x V (µm):**

14.44 x 9.90 **Sensing Area, H x V (mm):**

Sony IMX420 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/10/12 Bit **Pixel Depth:**

10µs - 30s **Exposure Time:**

71.74 **Dynamic Range (dB):**

GigE Vision **Machine Vision Standard:**

## Electrical

13.6 **Power Consumption (W):**

## Hardware & Interface Connectivity

10GigE **Interface:**

GigE interface with Screw Locks **Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#19-803](#)  
Europe: [#19-803](#)  
Japan: [#19-803](#)  
Korea: Not Available  
China: [#19-803](#)

**GPIOs:**  
2 opto-isolated inputs, 2 opto-isolated outputs, 2 non-isolated bi-directional

**Synchronization:**

Hardware Trigger (GPIO) or Software Trigger

Back Panel **Interface Port Orientation:**

12-pin Hirose (HR10) **GPIO Connector Type:**

## Threading & Mounting

C-Mount **Mount:**

Built-in 1/4-20 Tripod Mount Adapter **Mounting Threads:**

## Environmental & Durability Factors

0 to +50 **Operating Temperature (°C):**

-30 to +60 **Storage Temperature (°C):**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- 10GBASE-T (10GigE) Ethernet Interface
- 3.2 to 31 Megapixel Sony 4th Gen Pregius S Sensors
- Supports 4K60, 12-bit System Integration
- Tripod Adapter Built into Larger Oryx® Models



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### Teledyne FLIR IIS Oryx 10GgE: High throughput, Award-winning camera designs

Reliably capture images at high speed

The **Oryx 10GgE** camera family supports transfer speeds of up to 10 Gbit/s enabling capture of 4K resolution, 12-bit images at speeds exceeding 60 FPS. Reliable image transfer at high bandwidth is further improved with Myricom bundles and packet resend feature. A range of sensor options offer resolutions from 3.2 Megapixel up to 31 Megapixel. Oryx features include IEEE1588 clock synchronization and full compatibility with several popular third-party software supporting GigE Vision. 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, and up to 30 meters on CAT5e.

**Note:** The ORX-10G-310S9 and ORX-10G-245S8 cameras require an F-Mount lens adapter (sold separately).

#### Features

- Color or monochrome sensors
- Various frame triggering options including up to 8 sets of 2-feature sequencer
- Pixel binning, decimation, ROI
- On camera image processing includes Gamma, LUT, and sharpness

#### Applications

- Stadium venues
- Site security
- Factory automation
- Traffic monitoring
- Inspection systems