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# IDS GV-7090WP-M-GL, 10GigE, 1" Monochrome Camera

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IDS Imaging uEye Warp10 10GigE Cameras

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Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

GV-7090WP-M-GL **Model Number:**

IDS Imaging Development Systems **Manufacturer:**

**Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
60 x 75 x 94.5 (excludes connectors and lens mount)

**Weight (g):**  
550

**Housing:**  
Full

## Sensor

**Image Buffer:**  
2032

**Sensor Format:**  
1"

**Resolution (Megapixels):**  
8.80

**Frame Rate (fps):**  
61.00

**Pixels (H x V):**  
4,104 x 2,174

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
14.158 x 7.50

**Imaging Sensor:**  
Sony IMX255

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
0.032ms - 2000ms

**Dynamic Range (dB):**  
70.00

**Machine Vision Standard:**  
GigE Vision

## Electrical

**Power Consumption (W):**  
10 - 14

## Hardware & Interface Connectivity

**Interface:**  
10GigE (PoE)

**Connector:**  
GigE RJ45, screwable

**Power Supply:**  
Power over Ethernet (PoE) or via GPIO

**GPIOs:**  
1 Trigger Input, 1 Flash Output, 2 Fast Output

**Synchronization:**  
Hardware Trigger (GPIO); Software Trigger

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
12-pin M12 connector (Attend 216A-12MSR)

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
1/4-20 with Tripod Mount Adapter [#16-017](#)

## Environmental & Durability Factors

**Operating Temperature (°C):**  
0 to +55

**Storage Temperature (°C):**  
-20 to +60

## Regulatory Compliance

**RoHS 2015:**  
[Exempt](#)

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## Product Details

- 10GBASE-T (10GigE) Ethernet Interface, 10X Faster than GigE
- Up to 12.3MP Resolution with Framerrates up to 98fps
- Compatible with 1GigE, 2.5GigE and 5GigE Interfaces

IDS Imaging uEye Warp10 10GigE Cameras are capable of providing high quality, reliable image transfers at cable lengths of up to 100m on CAT6A or 40m on CAT5e. These global shutter cameras offer up to 12.3MP resolution. The 10GigE Ethernet interface provides up to 10X faster speeds than GigE for framerates up to 98fps for applications requiring high bandwidth. IDS Imaging uEye Warp10 10GigE Cameras are backwards compatible with existing 1GigE, 2.5GigE or 5GigE interfaces and will adjust their speed automatically. These cameras are ideal for machine vision, metrology, electronics inspection, and sports/motion analysis applications. These GeniCam compliant cameras are designed for the [IDS Peak software](#) but are compatible with most other GeniCam software protocols.

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