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# M1940, 1/1.2" Monochrome, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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Spectrum:

Monochrome

General

Type:

Monochrome Camera

Model Number:

G3-GM10-M1940

Teledyne DALSA **Manufacturer:**

Genie Nano-1GigE **Camera Series:**

Windows, Linux, or 3rd party GenICam compliant SDK **Software:**

## Physical & Mechanical Properties

40.6 x 29.0 x 44.0 (includes connectors and lens mount) **Dimensions (mm):**

46 **Weight (g):**

Full **Housing:**

## Sensor

90MB **Image Buffer:**

1/1.2" **Sensor Format:**

2.30 **Resolution (Megapixels):**

51.00 **Frame Rate (fps):**

84.00 **Frame Rate - Burst Mode (fps):**

1,920 x 1,200 **Pixels (H x V):**

5.86 x 5.86 **Pixel Size, H x V ( $\mu\text{m}$ ):**

11.25 x 7.03 **Sensing Area, H x V (mm):**

Sony IMX174 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/10 bit **Pixel Depth:**

Programmable or via external trigger **Exposure Time:**

68.3 **Dynamic Range (dB):**

GigE Vision v1.2 **Machine Vision Standard:**

## Electrical

3.6 - 4.6 (12VDC External Power Supply)  
4.0 - 4.9 (PoE) **Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

GigE, RJ45 with Screw Locks **Connector:**

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

2 digital input, 2 digital output **GPIOs:**

Hardware Trigger (GPIO), Software Trigger, Free-Run, or PTP (IEEE 1588) **Synchronization:**

Back Panel **Interface Port Orientation:**

10-pin Samtec **GPIO Connector Type:**

2 opto-isolated inputs, 2 opto-insolated outputs **Ports:**

## Threading & Mounting

C-Mount **Mount:**

Mounting Threads:  
1/4-20 with Tripod Mount Adapter [#34-966](#)

## Environmental & Durability Factors

Operating Temperature (°C):  
-20 to +60

Storage Temperature (°C):  
-40 to +80

## Regulatory Compliance

REACH 201:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

## Product Details

- TurboDrive™ Technology Achieve Frame Rate up to 800 fps
- Compact, Lightweight, Robust All Metal Body
- Global Electronic Shutter with Exposure Control and Advanced Feature Set



Teledyne  
Authorized  
Distributor

Teledyne DALSA Genie™ Nano GigE Cameras are available in a range of Sony Pregius and On Semiconductor CMOS sensors. These GigE PoE cameras provide high speed, low noise, and global electronic shutters. The proprietary TurboDrive™ technology allows the Genie™ Nano to exceed standard frame rates, delivering up to 800 fps while retaining full image quality. These cameras come with a host of advanced feature set such as multi ROI windows and Burst Acquisition, which utilizes onboard memory buffer to achieve even faster frame rates.\* Teledyne DALSA Genie™ Nano GigE Cameras are packaged in compact and robust all metal housing, making them ideal for electronics inspection, industrial metrology, and Intelligent Traffic Systems (ITS) applications.

**Note:** Frame rates achievable through TurboDrive™ or Burst Acquisition could vary with factors such as image quality and resolution.

**Sapera LT** is a free image acquisition and control software development toolkit (SDK) for Teledyne DALSA'S 1D cameras / 2D cameras / 3D Laser Profiler cameras and frame grabbers. Hardware independent in nature, Sapera LT offers a rich development ecosystem for machine vision OEMs and system integrators. Sapera LT supports image acquisition from cameras and frame grabbers based on machine vision standards including GigE Vision™, CameraLink®, CameraLink HS™, CoaXpress®, and USB3 Vision™.