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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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1

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£804<sup>.00</sup>

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Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

Model Number:

|                                                    |                |
|----------------------------------------------------|----------------|
| G3-GM10-M1940                                      |                |
| Teledyne DALSA                                     | Manufacturer:  |
| Genie Nano-1GigE                                   | Camera Series: |
| Windows, Linux, or 3rd party GenICam complaint 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 (µm):        |
| 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 Vsion v1.2 | Machine Vision Standard: |
|-----------------|--------------------------|

Electrical

|                                                            |                        |
|------------------------------------------------------------|------------------------|
| 3.6 - 4.6 (12VDC External Power Supply)<br>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

|  |        |
|--|--------|
|  | Mount: |
|--|--------|

C-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:  
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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 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™.