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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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| Monochrome        |  | Spectrum:     |
|-------------------|--|---------------|
|                   |  |               |
| General           |  |               |
| Monochrome Camera |  | Type:         |
|                   |  |               |
| G3-GM10-M1940     |  | Model Number: |

|                  |                |
|------------------|----------------|
| 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 Vision 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

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

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

Mounting Threads:

| Environmental & Durability Factors |                             |
|------------------------------------|-----------------------------|
| -20 to +60                         | Operating Temperature (°C): |
| -40 to +80                         | Storage Temperature (°C):   |

| Regulatory Compliance     |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | REACH 201:                  |
| <a href="#">View</a>      | Certificate of Conformance: |

## 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™.