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# M4020, 1.1" 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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S\$3,409<sup>.00</sup>

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## SPECIFICATIONS

Spectrum:  
Monochrome

### General

Type:  
Monochrome Camera

|                                                                         |                                |
|-------------------------------------------------------------------------|--------------------------------|
| G3-GM1 1-M4020                                                          | Model Number:                  |
| Teledyne DALSA                                                          | Manufacturer:                  |
| Genie Nano-1GigE                                                        | Camera Series:                 |
| Physical & Mechanical Properties                                        |                                |
| 40.6 x 29.0 x 44.0 (includes connectors and lens mount)                 | Dimensions (mm):               |
| 46                                                                      | Weight (g):                    |
| Full                                                                    | Housing:                       |
| Sensor                                                                  |                                |
| 200MB                                                                   | Image Buffer:                  |
| 1.1"                                                                    | Sensor Format:                 |
| 12.00                                                                   | Resolution (Megapixels):       |
| 9.70                                                                    | Frame Rate (fps):              |
| 20.00                                                                   | Frame Rate - Burst Mode (fps): |
| 4,112 x 3,012                                                           | Pixels (H x V):                |
| 3.45 x 3.45                                                             | Pixel Size, H x V (µm):        |
| 14.19 x 10.39                                                           | Sensing Area, H x V (mm):      |
| Sony IMX304                                                             | Imaging Sensor:                |
| Progressive Scan CMOS                                                   | Type of Sensor:                |
| Global                                                                  | Shutter Type:                  |
| 8/12 bit                                                                | Pixel Depth:                   |
| Programmable or via external trigger                                    | Exposure Time:                 |
| 76.4                                                                    | 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:           |
| Threading & Mounting                                                    |                                |
| C-Mount                                                                 | Mount:                         |
| 1/4-20 with Tripod Mount Adapter <a href="#">#34-966</a>                | Mounting Threads:              |

Environmental & Durability Factors

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

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | REACH 201:                  |
| View      | 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™.