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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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Monochrome **Spectrum:**

General

Monochrome Camera **Type:**

G3-GM11-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)
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 [#34-966](#) **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™.