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# M2020, 1/1.8" Monochrome, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

G3-GM11-M2020 **Model Number:**

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:**

1/1.8" **Sensor Format:**

3.10 **Resolution (Megapixels):**

38.00 **Frame Rate (fps):**

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

2,048 x 1,536 **Pixels (H x V):**

3.45 x 3.45 **Pixel Size, H x V ( $\mu\text{m}$ ):**

7.07 x 5.3 **Sensing Area, H x V (mm):**

Sony IMX265 **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:**

2 opto-isolated inputs, 2 opto-isolated 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:**

[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™.