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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

Dimensions (mm):
40.6 x 29.0 x 44.0 (includes connectors and lens mount)

Weight (g):
46

Housing:
Full

Sensor

Image Buffer:
200MB

Sensor Format:
1.1"

Resolution (Megapixels):
12.00

Frame Rate (fps):
9.70

Frame Rate - Burst Mode (fps):
20.00

Pixels (H x V):
4,112 x 3,012

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
14.19 x 10.39

Imaging Sensor:
Sony IMX304

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/12 bit

Exposure Time:
Programmable or via external trigger

Dynamic Range (dB):
76.4

Machine Vision Standard:
GigE Vision v1.2

Electrical

Power Consumption (W):
3.6 - 4.6 (12VDC External Power Supply)
4.0 - 4.9 (PoE)

Hardware & Interface Connectivity

Interface:
GigE (PoE)

Connector:
GigE, RJ45 with Screw Locks

Power Supply:
Power over Ethernet (PoE) or via GPIO

GPIOs:
2 digital input, 2 digital output

Synchronization:
Hardware Trigger (GPIO), Software Trigger, Free-Run, or PTP (IEEE 1588)

Interface Port Orientation:
Back Panel

GPIO Connector Type:
10-pin Samtec

Threading & Mounting

Mount:
C-Mount

Mounting Threads:
¼-20 with Tripod Mount Adapter [#34-966](#)

Environmental & Durability Factors

Operating Temperature (°C):

-20 to +60

Storage Temperature (°C):

-40 to +80

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
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™.