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M2590, 1" Monochrome, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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⊖ 1 ⊕ €1.060^{.00}

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Monochrome **Spectrum:**

General

Monochrome Camera **Type:**

G3-GM10-M2590 **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"	Sensor Format:
5.30	Resolution (Megapixels):
22.70	Frame Rate (fps):
51.00	Frame Rate - Burst Mode (fps):
2,592 x 2,048	Pixels (H x V):
4.8 x 4.8	Pixel Size, H x V (µm):
12.44 x 9.83	Sensing Area, H x V (mm):
ON Semi PYTHON 5000	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
8/10 bit	Pixel Depth:
Programmable or via external trigger	Exposure Time:
62.1	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):
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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:
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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™.