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M145, 1/2.9" 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-GM10-M1450 **Model Number:**

Manufacturer:

Teledyne DALSA

Camera Series:

Genie Nano-1GigE

Software:

Windows, Linux, or 3rd party GenICam compliant SDK

Physical & Mechanical Properties

Dimensions (mm):

40.6 x 29.0 x 44.0 (includes connectors and lens mount)

Weight (g):

47

Housing:

Full

Sensor

Image Buffer:

90MB

Sensor Format:

1/2.9"

Resolution (Megapixels):

1.50

Frame Rate (fps):

76.00

Frame Rate - Burst Mode (fps):

150.00

Pixels (H x V):

1,456 x 1,088

Pixel Size, H x V (µm):

3.45 x 3.45

Sensing Area, H x V (mm):

5.02 x 3.76

Imaging Sensor:

Sony IMX273

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

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

Ports:

2 opto-isolated inputs, 2 opto-insolated outputs

Threading & Mounting

Mount:

C-Mount

Mounting Threads:

Environmental & Durability Factors

-20 to +65 **Operating Temperature (°C):**

-40 to +80 **Storage Temperature (°C):**

Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[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™.