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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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Spectrum:
Monochrome

General

Type:
Monochrome Camera

Model Number:
G3-GM10-M2590

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):
46

Housing:
Full

Sensor

Image Buffer:
90MB

Sensor Format:
1"

Resolution (Megapixels):
5.30

Frame Rate (fps):
22.70

Frame Rate - Burst Mode (fps):
51.00

Pixels (H x V):
2,592 x 2,048

Pixel Size, H x V (µm):
4.8 x 4.8

Sensing Area, H x V (mm):
12.44 x 9.83

Imaging Sensor:
ON Semi PYTHON 5000

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/10 bit

Exposure Time:
Programmable or via external trigger

Dynamic Range (dB):
62.1

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:
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

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™.

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