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C2050-IR, 1/1.8" Color, Teledyne DALSA Genie Nano 5GigE PoE Camera

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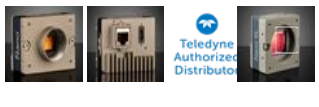
Teledyne DALSA Genie ™ Nano 5GigE Cameras (Front)



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Spectrum:
Color

General

Type:
Color Camera

Model Number:
G5-GC30-C2050IF

Manufacturer:

Teledyne DALSA

Camera Series:
Genie Nano-5GigE

Physical & Mechanical Properties

Dimensions (mm):
59 x 44 x 42.6 (includes connectors and lens mount)

Weight (g):
124

Housing:
Full

Sensor

Image Buffer:
450MB

Sensor Format:
1/1.8"

Resolution (Megapixels):
3.20

Frame Rate (fps):
187.00

Pixels (H x V):
2,064 x 1,544

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
7.12 x 5.33

Imaging Sensor:
Sony IMX252

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8 bit

Exposure Time:
Automatic, Programmable, or via External Trigger

Dynamic Range (dB):
76.46

Machine Vision Standard:
GigE Vision v2.0

Electrical

Power Consumption (W):
9.4 - 9.6

Hardware & Interface Connectivity

Interface:
5GigE (PoE)

Connector:
5GigE, RJ45 with Screw Locks

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

GPIOs:
2 digital input, 3 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 +65

Storage Temperature (°C):
-40 to +80

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- 5GBASE-T (5GigE) Ethernet Interface
- 3.2 to 12.4 Megapixel Sensors
- TurboDrive™ Technology for Data Transfer Speeds up to 985 MB/s
- Compact (32 x 44 x 59mm), Lightweight, and Robust Design

Teledyne Authorized Distributor

Teledyne DALSA Genie™ Nano 5GigE Cameras are available with a range of SONY Pregius sensors with resolutions from 3.2MP to 12.4MP. The 5GigE Ethernet interface provides data transfer speeds up to 5 times faster than the conventional GigE interface, which when combined with TurboDrive™ technology allows these cameras to achieve frame rates up to 187fps while retaining full image quality. The included Sapera CamExpert software provides a simple image acquisition interface with Sapera LT SDK libraries for OEM and system integration applications. Teledyne DALSA Genie™ Nano 5GigE Cameras are packaged in a compact, lightweight and robust all-metal housing, making them ideal for electronics inspection, industrial automation, and Intelligent Traffic Systems (ITS) applications. These cameras support the AIA GigE Vision Standard to facilitate easy integration into imaging systems.

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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