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## M2050, 1/1.8" Monochrome, Teledyne DALSA Genie Nano 5GigE PoE Camera

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Teledyne DALSA Genie™ Nano 5GigE Cameras (Front)



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### Product Downloads

Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

G5-GM30-M2050 **Model Number:**

Teledyne DALSA

**Manufacturer:**

Genie Nano-5GigE

**Camera Series:**

## 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:**  
1/4-20 with Tripod Mount Adapter [#34-966](#)

## Environmental & Durability Factors

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

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

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 Sopera CamExpert software provides a simple image acquisition interface with Sopera 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.

**Sopera 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, Sopera LT offers a rich development ecosystem for machine vision OEMs and system integrators. Sopera LT supports image acquisition from cameras and frame grabbers based on machine vision standards including GigE Vision™, CameraLink®, CameraLink HS™, CoaXpress®, and USB3 Vision™.