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# C4020-IR, 1.1" Color, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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Color **Spectrum:**

**General**

Color Camera **Type:**

G3-GC11-C4020IF **Model Number:**

Teledyne DALSA

**Manufacturer:**

Genie Nano-1GigE

**Camera Series:**

## 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:**  
200MB

**Sensor Format:**  
1.1"

**Resolution (Megapixels):**  
12.00

**Frame Rate (fps):**  
9.70

**Frame Rate - Burst Mode (fps):**  
20.00

**Pixels (H x V):**  
4,112 x 3,012

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
14.19 x 10.39

**Imaging Sensor:**  
Sony IMX304

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
8/12 bit

**Exposure Time:**  
Programmable or via external trigger

**Dynamic Range (dB):**  
76.4

**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

## 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

[Compliant](#)

REACH 201:

[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™.