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# C1280-IR, 1/2" Color, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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## Product Downloads

Color **Spectrum:**

## General

Color Camera **Type:**

G3-GC10-C1280IF **Model Number:**

Teledyne DALSA	<b>Manufacturer:</b>
Genie Nano-1GigE	<b>Camera Series:</b>
Windows, Linux, or 3rd party GenICam compliant SDK	<b>Software:</b>

## Physical & Mechanical Properties

40.6 x 29.0 x 44.0 (includes connectors and lens mount)	<b>Dimensions (mm):</b>
46	<b>Weight (g):</b>
Full	<b>Housing:</b>

## Sensor

90MB	<b>Image Buffer:</b>
1/2"	<b>Sensor Format:</b>
1.30	<b>Resolution (Megapixels):</b>
92.00	<b>Frame Rate (fps):</b>
213.00	<b>Frame Rate - Burst Mode (fps):</b>
1,280 x 1,024	<b>Pixels (H x V):</b>
4.8 x 4.8	<b>Pixel Size, H x V (µm):</b>
6.14 x 4.92	<b>Sensing Area, H x V (mm):</b>
ON Semi PYTHON 1300	<b>Imaging Sensor:</b>
Progressive Scan CMOS	<b>Type of Sensor:</b>
Global	<b>Shutter Type:</b>
8/10 bit	<b>Pixel Depth:</b>
Programmable or via external trigger	<b>Exposure Time:</b>
62.1	<b>Dynamic Range (dB):</b>
GigE Vision v1.2	<b>Machine Vision Standard:</b>

## Electrical

3.6 - 4.6 (12VDC External Power Supply) 4.0 - 4.9 (PoE)	<b>Power Consumption (W):</b>
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## Hardware & Interface Connectivity

GigE (PoE)	<b>Interface:</b>
GigE, RJ45 with Screw Locks	<b>Connector:</b>
Power over Ethernet (PoE) or via GPIO	<b>Power Supply:</b>
2 digital input, 2 digital output	<b>GPIOs:</b>
Hardware Trigger (GPIO), Software Trigger, Free-Run, or PTP (IEEE 1588)	<b>Synchronization:</b>
Back Panel	<b>Interface Port Orientation:</b>
10-pin Samtec	<b>GPIO Connector Type:</b>
2 opto-isolated inputs, 2 opto-isolated outputs	<b>Ports:</b>

## Threading & Mounting

	<b>Mount:</b>
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C-Mount

**Mounting Threads:**

1/4-20 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™.