

C4020, 1.1" Color, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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€2.455⁰⁰

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SPECIFICATIONS

General

Type:

Color Camera	
Model Number:	Nano-C4020
Manufacturer:	Teledyne DALSA
Camera Series:	Genie Nano-1GigE

Spectrum:	Color
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Physical & Mechanical Properties

Dimensions (mm):	40.6 x 29.0 x 44.0 (includes connectors and lens mount)
Weight (g):	46

Housing:	Full
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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
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Electrical

Power Consumption (W):	3.6 - 4.6 (12VDC External Power Supply) 4.0 - 4.9 (PoE)
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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
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Threading & Mounting

Mount:	C-Mbunt
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Mounting Threads:
1/4-20 with Tripod Mount Adapter [#34-966](#)

Environmental & Durability Factors

-20 to +60	Operating Temperature (°C):
-40 to +80	Storage Temperature (°C):

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 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™.