

C1920, 1/1.2" Color, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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SPECIFICATIONS

General

Type:

Color Camera	
Nano-C1920	Model Number:
Teledyne DALSA	Manufacturer:
Genie Nano-1GigE	Camera Series:
Windows, Linux, or 3rd party GenICam complaint SDK	Software:
Color	Spectrum:

Physical & Mechanical Properties

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

Sensor

90MB	Image Buffer:
1/1.2"	Sensor Format:
2.30	Resolution (Megapixels):
38.80	Frame Rate (fps):
39.00	Frame Rate - Burst Mode (fps):
1,920 x 1,200	Pixels (H x V):
5.86 x 5.86	Pixel Size, H x V (µm):
11.25 x 7.03	Sensing Area, H x V (mm):
Sony IMX249	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
8/12 bit	Pixel Depth:
Programmable or via external trigger	Exposure Time:
75.5	Dynamic Range (dB):
GigE Vision v1.2	Machine Vision Standard:

Electrical

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

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

Ports:	
2 opto-isolated inputs, 2 opto-insolated outputs	
Threading & Mounting	
Mount:	
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 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™.