

M1920, 1/1.2" Monochrome, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



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€567⁰⁰

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SPECIFICATIONS

General

Type:

Monochrome Camera	
	Model Number:
Nano-M1920	
	Manufacturer:
Teledyne DALSA	
	Camera Series:
Genie Nano-1GigE	
	Software:
Windows, Linux, or 3rd party GenICam complaint SDK	
	Spectrum:
Monochrome	

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

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™.