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# M145, 1/2.9" Monochrome, DALSA Genie Nano GigE PoE Camera

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Teledyne DALSA Genie™ Nano GigE Cameras



Stock **#91-777** NEW **1 In Stock**

-

1

+

€509<sup>.00</sup>

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Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

G3-GM10-M1450

Model Number:

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

## Physical & Mechanical Properties

|                                                         |                  |
|---------------------------------------------------------|------------------|
| 40.6 x 29.0 x 44.0 (includes connectors and lens mount) | Dimensions (mm): |
| 47                                                      | Weight (g):      |
| Full                                                    | Housing:         |

## Sensor

|                                      |                                |
|--------------------------------------|--------------------------------|
| 90MB                                 | Image Buffer:                  |
| 1/2.9"                               | Sensor Format:                 |
| 1.50                                 | Resolution (Megapixels):       |
| 76.00                                | Frame Rate (fps):              |
| 150.00                               | Frame Rate - Burst Mode (fps): |
| 1,456 x 1,088                        | Pixels (H x V):                |
| 3.45 x 3.45                          | Pixel Size, H x V (µm):        |
| 5.02 x 3.76                          | Sensing Area, H x V (mm):      |
| Sony IMX273                          | Imaging Sensor:                |
| Progressive Scan CMOS                | Type of Sensor:                |
| Global                               | Shutter Type:                  |
| 8/12 bit                             | Pixel Depth:                   |
| Programmable or via external trigger | Exposure Time:                 |
| 76                                   | Dynamic Range (dB):            |

|                  |                          |
|------------------|--------------------------|
| GigE Vision v1.2 | Machine Vision Standard: |
|------------------|--------------------------|

## Electrical

|                                                            |                        |
|------------------------------------------------------------|------------------------|
| 3.6 - 4.6 (12VDC External Power Supply)<br>4.0 - 4.9 (PoE) | Power Consumption (W): |
|------------------------------------------------------------|------------------------|

## 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:        |
| 2 opto-isolated inputs, 2 opto-insolated outputs                        | Ports:                      |

## Threading & Mounting

|         |        |
|---------|--------|
| C-Mount | Mount: |
|---------|--------|

1/4-20 with Tripod Mount Adapter

Mounting Threads:  
#34-966

| Environmental & Durability Factors |                             |
|------------------------------------|-----------------------------|
| -20 to +65                         | Operating Temperature (°C): |
| -40 to +80                         | Storage Temperature (°C):   |

| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
| Exempt                | RoHS 2015:                  |
| View                  | Certificate of Conformance: |

## Product Details

- TurboDrive™ TechnologyAchieve 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™.