

# C1280, 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-C1280                                         | 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:                  |
| 1/2"                                 | Sensor Format:                 |
| 1.30                                 | Resolution (Megapixels):       |
| 92.00                                | Frame Rate (fps):              |
| 213.00                               | Frame Rate - Burst Mode (fps): |
| 1,280 x 1,024                        | Pixels (H x V):                |
| 4.8 x 4.8                            | Pixel Size, H x V (µm):        |
| 6.14 x 4.92                          | Sensing Area, H x V (mm):      |
| ON Semi PYTHON 1300                  | Imaging Sensor:                |
| Progressive Scan CMOS                | Type of Sensor:                |
| Global                               | Shutter Type:                  |
| 8/10 bit                             | Pixel Depth:                   |
| Programmable or via external trigger | Exposure Time:                 |
| 62.1                                 | 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:        |

|                                                          |  |
|----------------------------------------------------------|--|
| Ports:                                                   |  |
| 2 opto-isolated inputs, 2 opto-insolated outputs         |  |
| Threading & Mounting                                     |  |
| Mount:                                                   |  |
| C-Mount                                                  |  |
| Mounting Threads:                                        |  |
| 1/4-20 with Tripod Mount Adapter <a href="#">#34-966</a> |  |
| Environmental & Durability Factors                       |  |
| Operating Temperature (°C):                              |  |
| -20 to +60                                               |  |
| Storage Temperature (°C):                                |  |
| -40 to +80                                               |  |
| Regulatory Compliance                                    |  |
| REACH 201:                                               |  |
| <a href="#">Compliant</a>                                |  |
| Certificate of Conformance:                              |  |
| <a href="#">View</a>                                     |  |

## 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™.