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## Product Downloads

**Spectrum:**

| General |  |
|---------|--|
|---------|--|

**Type:**

Model Number:

|                                                                         |                                |
|-------------------------------------------------------------------------|--------------------------------|
| Teledyne DALSA                                                          | Manufacturer:                  |
| Genie Nano-1GigE                                                        | Camera Series:                 |
| 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:           |
| Threading & Mounting                                                    |                                |
| C-Mount                                                                 | Mount:                         |
| 1/4-20 with Tripod Mount Adapter <a href="#">#34-966</a>                | Mounting Threads:              |
| Environmental & Durability Factors                                      |                                |
|                                                                         | Operating Temperature (°C):    |

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

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | 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™.