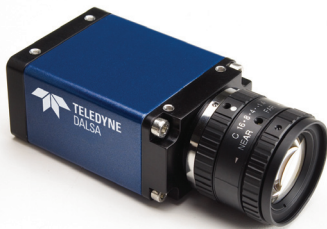


Genie C1600-1/1.8

Area Scan Color Cameras



Genie C1600-1/1.8

Key Features

- Uses standard PC and server Ethernet ports & hardware
- Supports cable lengths up to 100 m (CAT-5e or CAT-6)
- Simplified set-up with field proven Sopera Essential software featuring CamExpert
- Engineered to accommodate industrial environment with a ruggedized screw mount, RJ-45 connector
- Small compact form factor
- Teledyne DALSA Platform Development Advantage – Free Run-time Licensing¹

Programmability

- Achieves 15 fps in full resolution
- Higher frame rates achievable in partial scan mode
- Global electronic shutter with exposure control
- Programmable LUT
- On-board flat-field correction
- On-board Color conversion

Typical Applications

- Electronics manufacturing inspection
- Food inspection
- Intelligent traffic systems

Overview

Small compact GigE Vision camera with uncompromised image quality.

The Genie C1600 uses a Sony Bayer-color filter CCD image sensor with a resolution of 1600 x 1200. Operating at 15 frames per second at full resolution, the Genie C1600 takes advantage of Gigabit Ethernet technology, transmitting data over standard CAT-5e and CAT-6 cables to distances of up to 100 m. Like all Genie cameras, the C1600 is based on AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.



Specifications

| | |
|-----------------------|--|
| Active Resolution | 1600 x 1200 |
| Frame Rate | 15 fps |
| Pixel Size | 4.40 μm |
| Data Format | 32-bits, YUV or Raw Bayer |
| Exposure Control | Programmable, or via External Trigger |
| Dynamic Range | 57 dB |
| Nominal Gain Range | -6 dB to +12 dB |
| Output | Gigabit Ethernet, also supports 100 Mbps |
| I/O Ports | 2 opto-isolated input, 2 opto-isolated output, |
| Lens Mount | C or CS-mount |
| Size | 44 mm x 29 mm x 67 mm (including lens adapter) |
| Mass | ~115 g (without lens) |
| Operating Temp | 0°–45°C |
| Power Supply | 12 V |
| Power Dissipation | 4W |
| Data Connector | Standard or Screw mount RJ-45 |
| Power and I/O | Hirose 12-Pin |
| Software Platform | Teledyne DALSA Sopera LT |
| GigE Vision Compliant | Yes |
| Regulatory Compliance | FCC Class A, CE, RoHs 2002/95/EC |
| Part Number | CR-GEN0-C160x |

Teledyne DALSA Platform Development Advantage - Free Run-Time Licensing

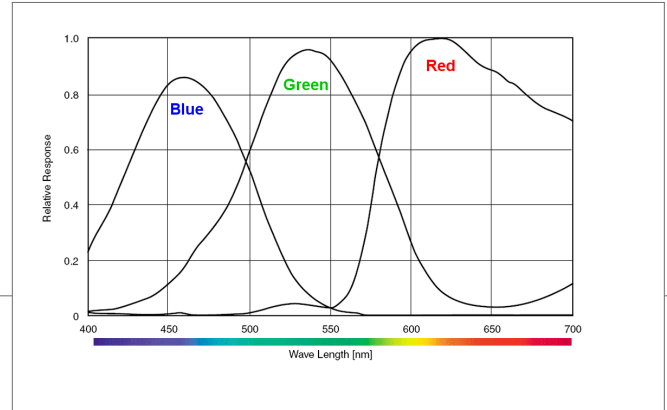
The Sopera Essential standard processing tool run-time license is offered at no additional charge. This software run-time license¹ includes access to over 400 image processing functions, area-based (normalized correlation based) template matching tool, blob analysis and lens correction tool.

¹ Some conditions and limitations apply, contact Teledyne DALSA sales for details.

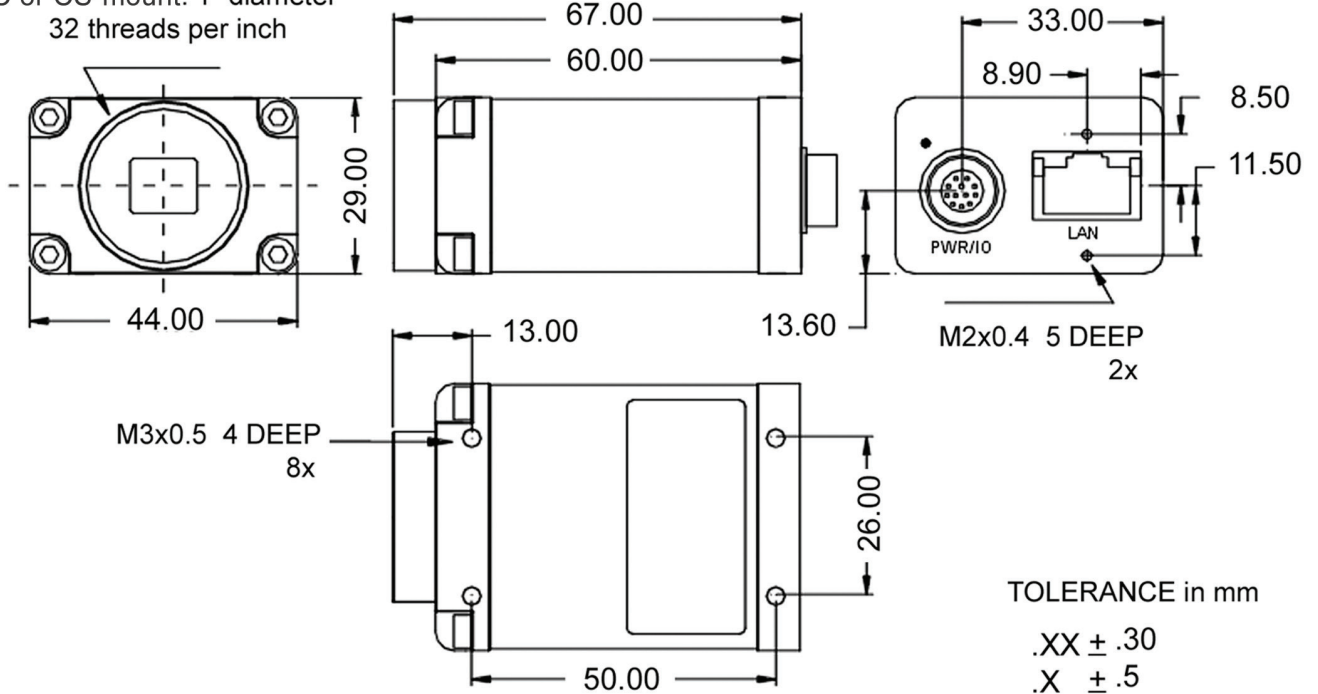
Genie C1600-1/1.8

Area Scan Color Cameras

All Genie cameras feature value-added functionality designed specifically for imaging and machine vision applications. All features are easily accessible with Teledyne DALSA's advanced software tools. These tools deliver superior image capture, performance, and control.



C or CS-mount: 1" diameter
32 threads per inch



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Teledyne DALSA is an international leader in digital imaging and semiconductors and has its corporate offices in Waterloo, Ontario, Canada.

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