

# 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 Licensing<sup>1</sup>

## 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 $\mu\text{m}$
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

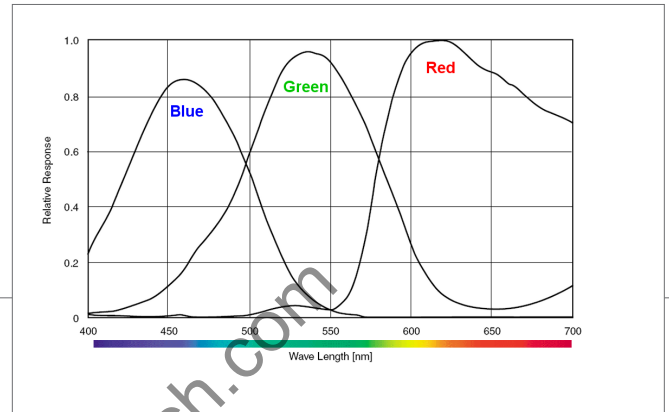
The Sopera Essential standard processing tool run-time license is offered at no additional charge. This software run-time license<sup>1</sup> includes access to over 400 image processing functions, area-based (normalized correlation based) template matching tool, blob analysis and lens correction tool.

<sup>1</sup> Some conditions and limitations apply, contact Teledyne DALSA sales for details.

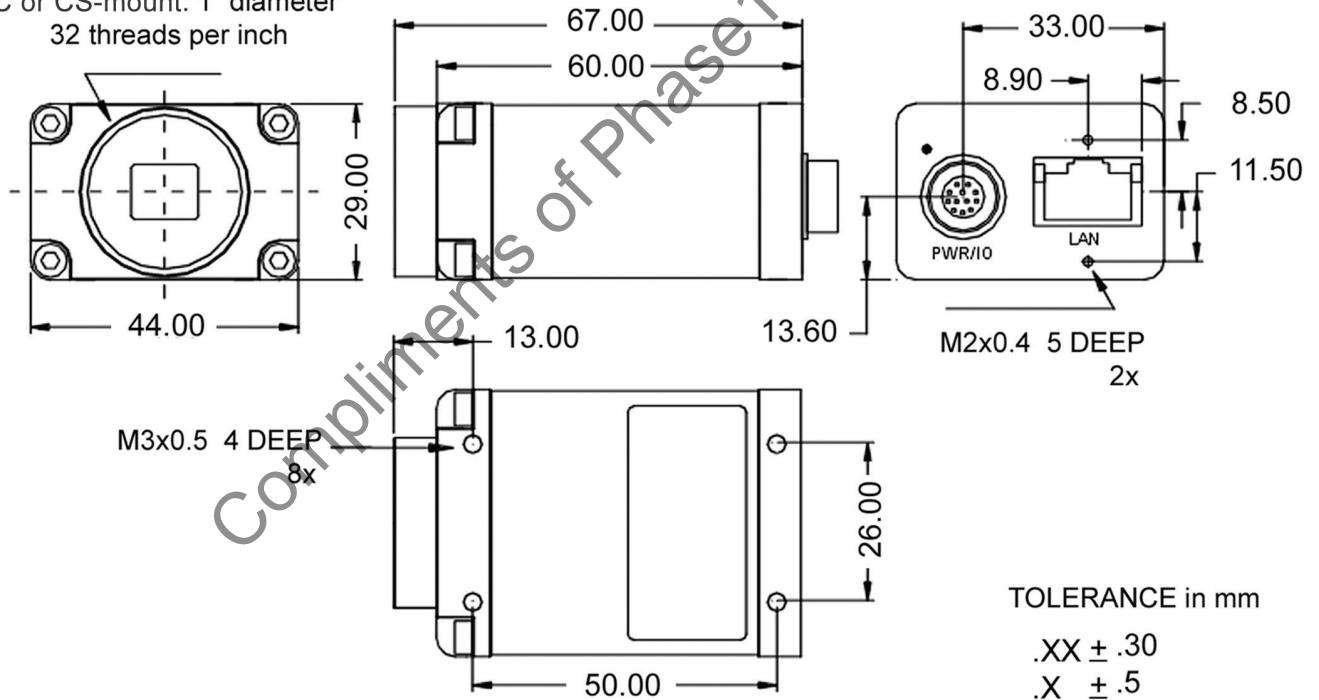
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All Genie cameras feature value-added functionality designed specifically for imaging and machine vision applications. All features are easily accessible with Teledyne DALSA's advanced software tools. These tools deliver superior image capture, performance,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