Genie M1600-1/1.8

Overview

Small compact GigE Vision camera with uncompromised image quality.

The Genie M1600 uses a Sony monochrome CCD image sensor with a resolution of 1600 x 1200. Operating at 15 frames per second at full resolution, the Genie M1600 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 M1600 is based on AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.
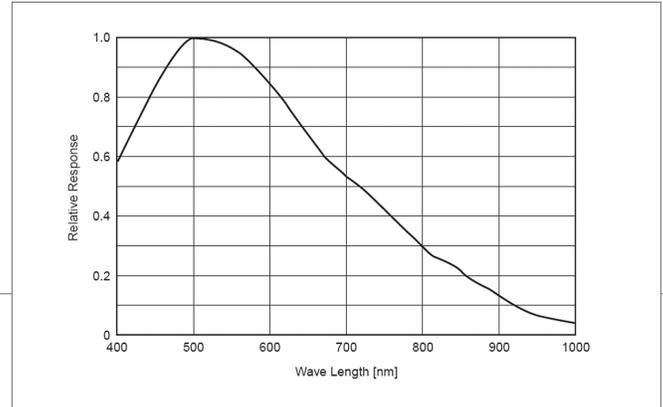
Key Features

- 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 Sapera Essential software featuring CamExpert
- Engineered to accommodate industrial environement with a ruggedize screw mount, RJ-45 connector
- Small compact form factor

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
- 2x2 Binning

Typical Applications

- Electronics manufacturing inspection
- Industrial metrology
- Intelligent traffic systems

Specifications

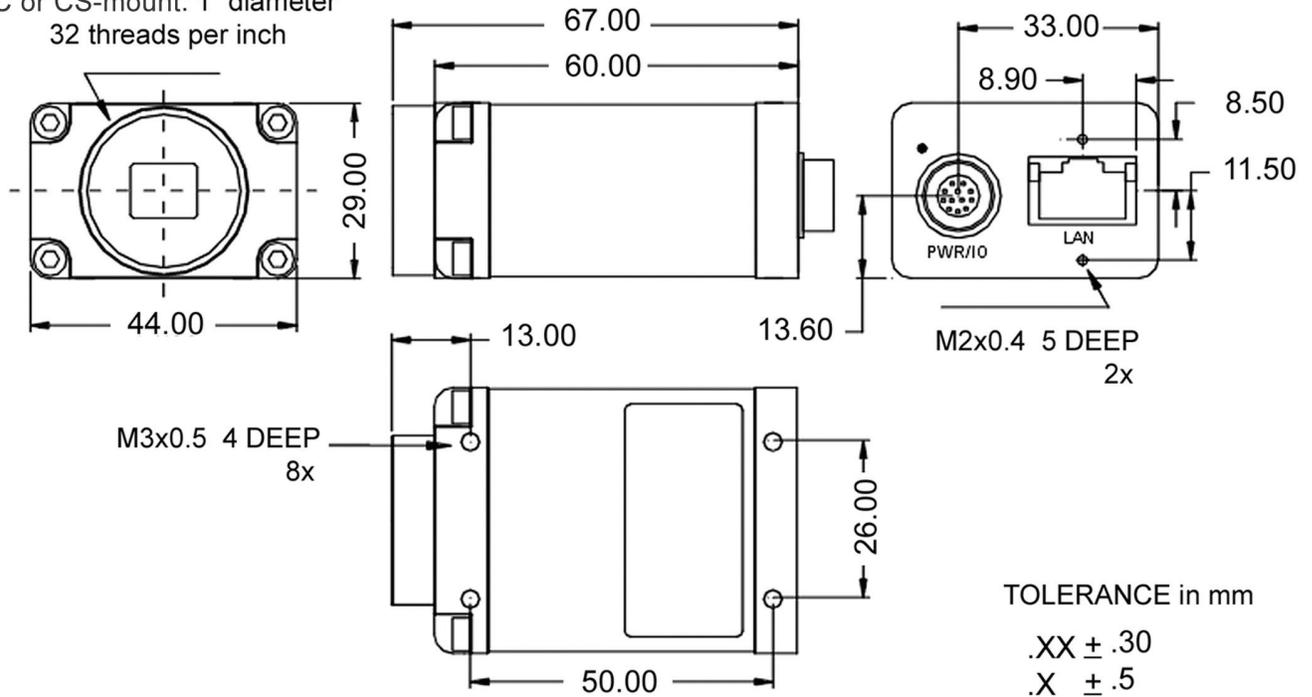|	
Active Resolution	1600 x 1200
Frame Rate	15 fps
Pixel Size	4.40 μm
Data Format	8 and 10-bits
Exposure Control	Programmable, or via External Trigger
Dynamic Range	57 dB
Nominal Gain Range	-6 dB to +12 dB
Output	Gigabit Ethernet, also supports 100 Mbps
I/O Ports	2 opto-isolated input, 2 opto-isolated 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	DALSA Sapera LT
GigE Vision Compliant	Yes
Regulatory Compliance	FCC Class A, CE, RoHs 2002/95/EC
Part Number	CR-GEN0-M160x

DALSA

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Area Scan Monochrome Cameras

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

Relative Response vs Wave Length [nm]

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

67.00
60.00
29.00
44.00

33.00
8.90
8.50
11.50
PWR/IO
LAN
13.60
M2x0.4 5 DEEP
2x

13.00
M3x0.5 4 DEEP
8x
26.00
50.00

TOLERANCE in mm
.XX ± .30
.X ± .5