Genie HM1400 / XDR

Key Features

- Uses standard PC and server Ethernet ports & hardware
- Facilitates 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
- XDR (extended dynamic range) option available (CR-GM01-H140x)
- DALSA Platform Development Advantage – Free Run-time Licensing[1]

Programmability

- Achieve 75 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
- 1000x antiblooming

Typical Applications

- Electronics manufacturing inspection
- Industrial metrology
- Intelligent traffic systems

Overview

Extreme high speed acquisition with uncompromised image quality.

The Genie HM1400 / HM1400-XDR offers unprecedented high speed image acquisition with uncompromised signal-to-noise ratio, significantly optimizing the opportunity for increased yield. DALSA's proprietary sensor technology allows for image capture rates of 75 fps in 1400 x 1024 resolution while maintaining exceptional image quality. The Genie HM1400's gigabit Ethernet interface takes full advantage of this Genie's high frame rate by transmitting data over standard CAT-5e and CAT-6 cables to distances of up to 100 m. Like all Genies, the HM1400 is based on the AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.

GiGE VISION

Specifications

Active Resolution	1400 x 1024
Frame Rate	75 fps
Pixel Size	7.4 μm
Data Format	8 & 10 bits
Exposure Control	Programmable, or via External Trigger
Dynamic Range	48 dB (XDR 55 dB)
Nominal Gain Range	0 dB to +12 dB
Output	Gigabit Ethernet, also supports 100 Mbps
I/O Ports	2 opto-isolated input, 2 opto-isolated output,
Lens Mount	CS-mount / Right-Angle option is also available
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 to 24V
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-GM00-H140x / CR-GM01-H140x

DALSA Platform Development Advantage - Free Run-Time Licensing
The Sapera Essential standard processing tool run-time license is offered at no additional charge when combined with the DALSA frame grabbers. This software run-time license' includes access to over 400 image processing functions, area-based (normalized correlation based) template matching tool, blob analysis and lens correction tool.
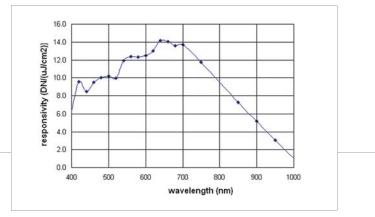
[1]Some conditions and limitations apply, contact DALSA sales for details.
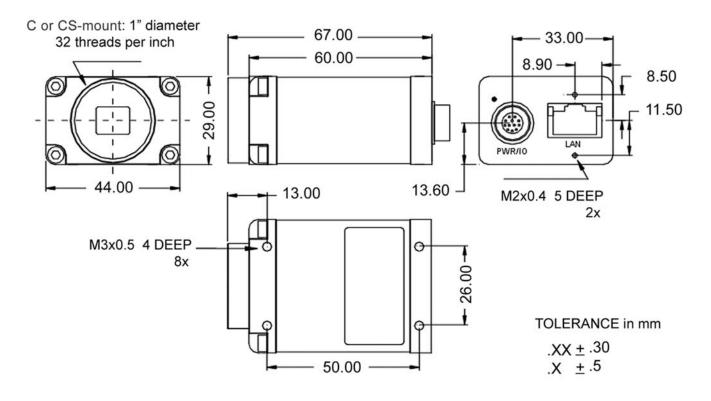
DALSA

Genie HM1400 / XDR
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.

www.dalsa.com

Americas
Boston, USA
Tel: +1 978-670-2000
sales.americas@dalsa.com

Europe
Munich, Germany
Tel: +49 8142-46770
sales.europe@dalsa.com

Asia Pacific
Tokyo, Japan
+81 3-5960-6353
sales.asia@dalsa.com

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