Genie HC640 Area Scan Color Cameras



Genie HC640

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 factorDALSA Platform Development
 - Advantage Free Run-time Licensing¹

Programmability

- Achieve 300 fps in full resolution
- Higher frame rates achievable in partial scan mode
- Global electronic shutter with exposure control
- On-board flat-field correction
- 1000x antiblooming

Typical Applications

- Electronics manufacturing inspection
- Industrial metrology
- · Intelligent traffic systems
- Food Inspection

Overview

Extreme high speed acquisition with uncompromised image quality.

The Genie HC640 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 300 fps in VGA resolution while maintaining exceptional image quality. The Genie HC640'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 HC640 is based on the AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.



Specifications

Data Format 8-bits Raw Bayer

Exposure Control Programmable, or via External Trigger

Dynamic Range 48 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 C or 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-GC00-H640x

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.

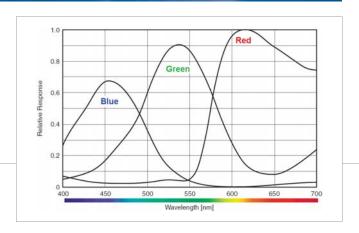


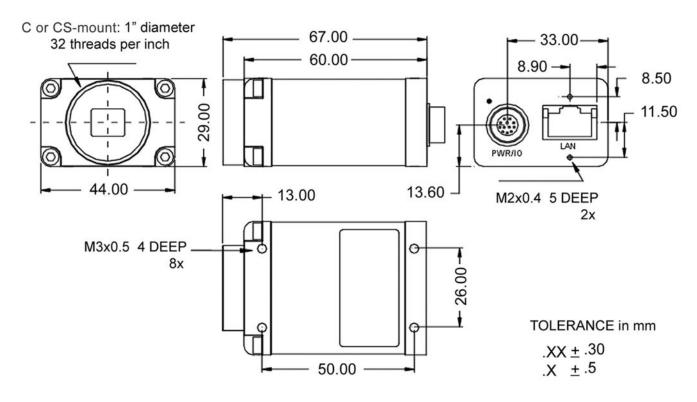
Some conditions and limitations apply, contact DALSA sales for details.

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performance, and control.

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,





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