

Genie M640-1/2

Area Scan Monochrome Cameras



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 environment with a Ruggedize, screw mount, RJ-45 connector
- Small compact form factor

Programmability

- Achieve 64 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

Overview

Small compact GigE Vision camera with uncompromised image quality.

The Genie M640 uses a Sony CCD, monochrome sensor with a resolution of 640 x 480. Operating at 64 frames per second at full resolution, the Genie M640 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 M640 is based on AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.



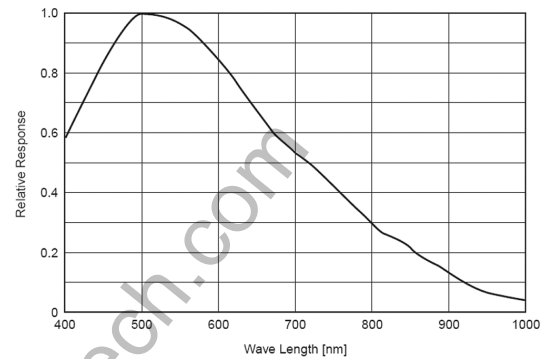
Specifications

| | |
|-----------------------|--|
| Active Resolution | 640 x 480 |
| Frame Rate | 64 fps |
| Pixel Size | 9.9 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-M640x |

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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 DALSA's advanced software tools. These tools deliver superior image capture, performance, and control.



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

