Extreme high speed acquisition with uncompromised image quality.

The Genie HM640 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 HM640’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 HM640 is based on the 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
- 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 environment with a Ruggedize, screw mount, RJ-45 connector
- Small compact form factor

Programmability
- Achieve 300 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

Specifications
- Active Resolution: 640 x 480
- Frame Rate: 300 fps
- Pixel Size: 7.4 µm
- Data Format: 8-bits
- 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
- 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-H640x
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.