

# Genie HM1400

## Area Scan Monochrome Cameras



### 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 Spera Essential software featuring CamExpert
- Engineered to accommodate industrial environment with a Ruggedize, screw mount, RJ-45 connector
- Small compact form factor

### Programmability

- Achieve 60 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 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 60 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 100m. Like all Genies, the HM1400 is based on the AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.

### Specifications

Resolution	1400 x 1024
Frame Rate	60 fps
Pixel Size	7.4 $\mu$ m
Data Format	8-bits
Exposure Control	Programmable, or via External Trigger
Dynamic Range	57 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-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 Spera LT or GenICam compliant software
GigE Vision Compliant	Yes
Regulatory Compliance	FCC Class A, CE , RoHs 2002/95/EC
Part Number	CR-GEN0-H1400



