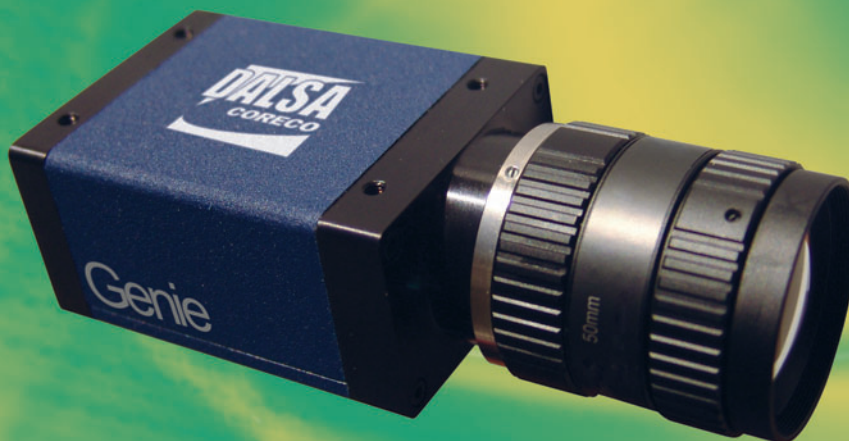


PRELIMINARY

# Genie-M640™

## Gigabit Ethernet Camera



### KEY FEATURES

- Uses standard PC and server Ethernet ports & hardware
- Facilitates cable lengths up to 100m (CAT-5e or CAT-6)
- Simplified set-up with field proven Sopera LT software featuring CamExpert
- Engineered with DALSA Coreco's Trigger-to-Image Reliability framework

### OVERVIEW

## Compact, Digital Camera for Industrial Imaging

DALSA Coreco's Genie gigabit Ethernet cameras are affordable, easy to use digital cameras specifically engineered for industrial imaging applications. The Genie series combines standard gigabit Ethernet technology with DALSA Coreco's Trigger-to-Image Reliability framework to dependably capture and transfer images from the camera to the host PC.

Trigger-to-Image Reliability (T2IR) is a proprietary engineering design framework that ensures the reliability of the image acquisition system by supplying the key design elements needed to: 1) secure the image acquisition process, 2) permit error identification, and 3) provide a recovery mechanism when errors do occur.

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## The DALSA Coreco Advantage

### Digital Vision

All analog signals must be digitized before image processing and analysis can be performed. With analog cameras this digitization is performed externally (i.e. frame grabber), while in a digital cameras the digitization takes place in the camera. The benefits of in-camera digitization include better signal to noise ratios as well as superior image accuracy.

### Gigabit Ethernet

Gigabit Ethernet (GigE) vision delivers advantages such as the ability to transmit images over standard, low-cost CAT-5e or CAT-6 cables. These cables can be up to 100 meters long or longer when combined with network switchers and routers. Additionally, set up is greatly simplified by using industry standard networking components.

### Software

All Genie cameras are supported by DALSA Coreco's Sopera™ LT software libraries. Sopera™ LT has been field proven in ten's of thousands industrial applications. As soon as the Genie is connected to the system, auto discovery automatically identifies the camera and communicates all of the supported features to the Sopera environment greatly facilitating system set-up and configuration.

## Specifications \*

<b>Sensor</b>	1/2 inch Sony ICX414AL 640 x 480 pixels 9.9 µm x 9.9 µm 60 Frames per second
<b>Lens Mount</b>	C-mount
<b>Pixel Format</b>	8-bit or 10-bit mono
<b>Image Enhancement</b>	Look-up Table Real time shading correction Image flip Binning
<b>Ethernet</b>	10/100/1000 Mbps, image data and camera control over UDP (based on GigE Vision specifications) 100m reach over CAT-5e
<b>Exposure Modes</b>	Free-running Asynchronous reset Internal timer Edge Pre-Select Pulse Width Control Software trigger (through Ethernet) Partial scan
<b>I/O</b>	2 opto-isolated inputs 2 solid state relay outputs 1 input can be dedicated as a trigger input 1 output can be dedicated as the Strobe output
<b>Trigger Input</b>	Opto-isolated Debounced from 1 µs up to 255 µs
<b>Strobe Output</b>	Solid state relay Aligned to the trigger with a programmable delay, duration and polarity
<b>Mechanical Dimensions</b>	29 x 44 x 67 mm (H x W x L)
<b>Connectors</b>	Ethernet: one RJ-45 Power and I/O: Hirose-12 male
<b>Indicators</b>	1 Status LED 2 with RJ-45 (Link and Activity)
<b>Power</b>	12V supply voltage, 6W max
<b>Weight</b>	<125 grams
<b>Environmental</b>	Operating Temperature 0° – 45°C Internal temperature monitoring Operating Humidity 10% to 80%, non-condensing
<b>Certifications</b>	FCC Class A, CE (Pending)
<b>Options</b>	Removable IR Cut off filter

\* Last updated October 2005

Specifications subject to change without notice



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