Genie TS-M4096

Area Scan Monochrome Cameras



Key Features

- Uses standard PC Ethernet port & 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
- Auto-Iris (Video, DC or Motorized)

Programmability

- Higher frame rates achievable in partial scan mode
- Global electronic shutter with exposure Control
- Auto-Brightness Feature
- Extended Dynamic Range Function
- · On-board flat-field correction
- Multi-Exposure Feature
- Programmable LUTs
- On-board Image compression
- Transfer On-Demand Function
- IEEE1588 Precise time Protocol

Typical Applications

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

Overview

Small compact GigE Vision camera with uncompromised image quality.

The Genie TS-M4096 uses a Teledyne DALSA CMOS, monochrome sensor with a resolution of 4096 x 3072. Teledyne DALSA's proprietary sensor technology allows for image capture rates of 12 fps in 12M resolution while maintaining exceptional image quality. the Genie TS-M4096 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 TS-M4096 is based on AIA (Automated Imaging Association) GigE Vision Standard to directly link the camera to a PC.



Specifications

Active Resolution 4096 x 3072
Acquisition Frame Rate 12 fps

Data Output Transfer Gigabit Ethernet, also supports 100 Mbps

Pixel Size $6.0 \mu m$ Data Format 8 and 10-bits

Exposure Control Automatic, Programmable, or via External Trigger

Dynamic Range 60 dB

Gain Control

Automatic, Manual and One-Push Gain modes
I/O Ports

4 opto-isolated input, 4 opto-isolated output,

3 motorized Control, RS-485 Port, and RS-232 Port

Image Buffer 512MB of On-board memory

Lens Mount M42 x1mm

Size 49 mm x 49 mm x 54 mm

 $\begin{array}{ll} \text{Mass} & \sim \! 196 \text{ g} \\ \text{Operating Temp} & -20^{\circ} \text{ to } +60^{\circ} \text{C} \end{array}$

Power Supply 12 to 24V or Power Over Ethernet (POE)

Power Dissipation ~4.5 to 5.5W

Data Connector Standard or Screw mount RJ-45
Power and I/O Micro-D 25-pin and 4-pin auto-Iris
Regulatory Compliance FCC Class A, CE, RoHs 2004/105/EC

Camera Specification GigE Vision v1.2 Compliant

Software Platform Teledyne DALSA Sapera LT or 3rd Party Genicam Compliant SDK

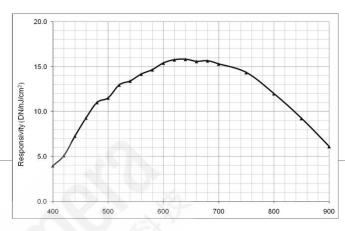
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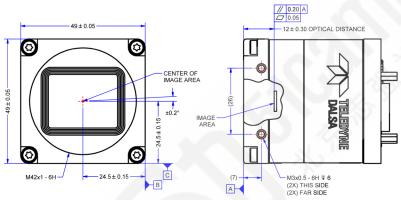


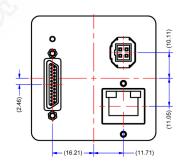
Genie TS-M4096

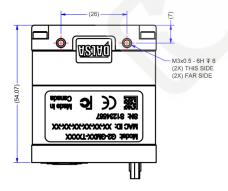
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All Genie cameras feature value added functionality designed specifically for imaging and machine vision applications.
All features are easily accessible with Teledyne DALSA's advanced software tools. These tools deliver superior image capture, performance, and control.











NOTES:
1. UNITS: MILLIMETERS.
2. IMAGE AREA IS ALIGNED TO DATUMS A.B. & C.

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