Overview

Small compact GigE Vision camera with uncompromised image quality.

The Genie C1024 uses a Sony CCD, color bayer sensor with a resolution of 1024 x 768. Operating at 20 frames per second at full resolution, the Genie C1024 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 C1024 is based on 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
• 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
• Teledyne DALSA Platform Development Advantage – Free Run-time Licensing

Programmability

• Achieve 20 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
• On-board Color conversion

Typical Applications

• Electronics manufacturing inspection
• Food inspection
• Intelligent traffic systems

Specifications

Active Resolution 1024 x 768
Frame Rate 20 fps
Pixel Size 4.65 μm
Data Format 32-bits, YUV or Raw Bayer
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
Power and I/O Ports Standard or Screw mount RJ-45
Software Platform Teledyne DALSA Sapera LT
GigE Vision Compliant Yes
Regulatory Compliance FCC Class A, CE , RoHs 2002/95/EC
Part Number CR-GEN0-C102x

Teledyne DALSA Platform Development Advantage - Free Run-Time Licensing

The Sapera Essential standard processing tool run-time license is offered at no additional charge when combined with the Teledyne DALSA frame grabbers. This software run-time license includes access to over 400 image processing functions, area-based (normalized correlation based) template matching tool, blob analysis and lens correction tool.

1 Some conditions and limitations apply, contact Teledyne DALSA sales for details.
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.