

High Road™ Compact GigE 5 MP – 5 Megapixel GigE Machine Vision Camera

Features

- **2/3-inch Progressive scan CCD image sensor**
- **High resolution (2448 x 2048 pixels)**
- **Maximum frame rate of 15 fps**
- **Fully compliant with GenICam specification**
- **Variety of Cameras from up to 86 FPS at VGA and up to 3 FPS at 16M pixel**
- **Hardware supported YUV conversion**
- **Auto White Balance**
- **External Trigger support Mode 0, 1, 2, 3, 4, 5, 12, 13, 14, 15**
- **Multi Camera Auto Sync support**
- **One shot and Multishot**
- **SIO Pass through and Strobe support**
- **True Fast Partial Scan support**
- **Horizontal and Vertical Binning Mode**
- **Firmware upgradable via LAN**
- **Available in Color or Monochrome**

Applications

- **Machine Vision and Metrology**
- **Medical and Scientific Imaging**
- **Microscopy**
- **Remote sensing**
- **Traffic systems**

High Resolution 5 Megapixel CCD Color or Black and White Camera with a Gigabit Ethernet Camera Interface and an External Trigger. For Machine Vision, Industrial, Traffic Systems, Remote Sensing, and Medical/ Science Applications.



Overview

Available in color or black and white, the High Road™ Compact GigE 5 MP is a compact progressive scan CCD high-resolution industrial camera with a Gigabit Ethernet interface. The camera offers full frame resolution of 2448 (H) x 2048 (V).

Our High Road Compact family of cameras is compliant with both Gigabit Ethernet and with the GigE Vision standard. Fairly new in the image processing industry, GigE is gaining more interest thanks to users who are familiar with the Ethernet interface and technology. This new interface is expected to lift the barriers of bandwidth limitation found in other interfaces such as FireWire® and USB 2.0. It also resolves the limitation of cable length by supporting 100 meter distance with conventional CAT-5 cable. The new GigE vision camera not only supports the traditional machine vision applications; but it also supports intelligent traffic systems, medical imaging, high-tech security and more.

As GigE is a relatively new standard, we expect more and more customers to demand new and additional feature support. We also expect a growing desire for software interoperability due to GigE's excellent network interface capability.

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Specifications

Image Sensor	2/3" ICX 625AL/AQ
Picture Size	2488 (H) × 2048 (V), 5 megapixels
Data Depth	8 bit or 12 bit
Pixel Size	3.45 x 3.45 μm
Max. FPS/ Max Res.	15 fps
Scanning System	Progressive Scan
Binning	2x2 (only mono)
Format 7	Partial Scan (Unit: 4x4)
Trigger	Edge: Rising Edge or Falling Edge Source: External Trigger or Software Trigger
Strobe Output	Support Normal Mode or Trigger Mode.
Memory Save/Load	9 Channels (0:factory, 1~4: feature, 5~8: mode/feature)
SIO (RS-232)	Pass through or Command
Digital Interface	GigE Vision Interface compliant to GenICam
Gain Control	0 ~ 18 dB (Manual or Auto)
Shutter Speed	1 μsec ~ 3600 sec
S/N Ratio	56 dB or better
Control Functions	Brightness, Sharpness, Gamma, Auto-Exposure, Auto-Shutter For Color Camera Only: U/B, V/R, Hue/G (digital gain), Auto White Balance
Lens Mount	C/CS Mount
Dimensions	50 (W) x 50 (H) x 47 (D) mm
Weight	Approximately 290 grams

Ordering Information

VCIMB-7050G: High Road Compact GigE 5 Megapixel Monochrome Camera

VCIMC-7050G: High Road Compact GigE 5 Megapixel Color Camera

Optional Accessories:

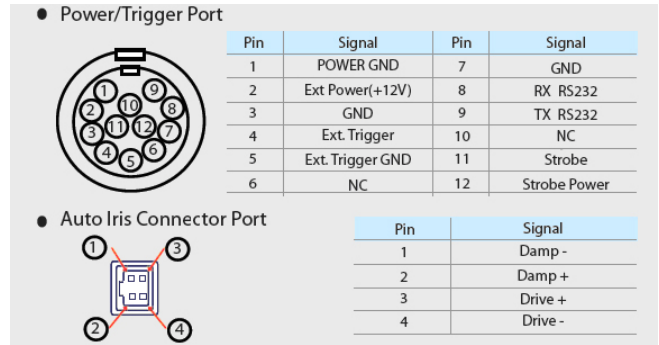
Power, Trigger cable

Tripod Adaptor

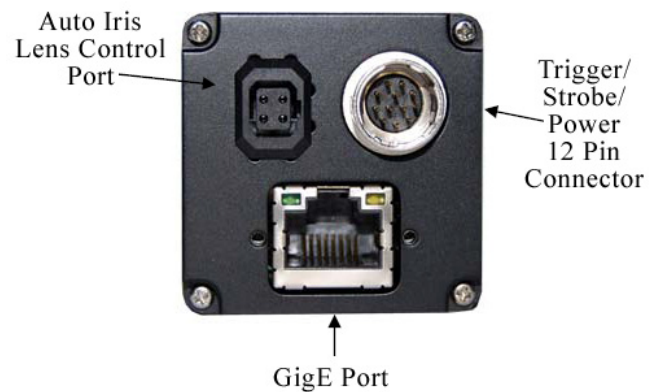


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12 Pin Hirose Connector Pin Out:



Rear View



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