

Prosilica GX. Shift up to double speed.



Prosilica GX

- High resolution with very fast frame rates
- LAG (Link Aggregation Group) technology
- 3-axis motorized lens control and auto-iris controls
- Latest Truesense and Sony CCD sensors

Prosilica GX L x W x H (C-Mount) = 107-108 x 53.3 x 33 mm incl. connectors, w/o tripod and lens. Mass = 269-365 g

| Model | Interface | Resolution | MPixels | Frame rate | Sensortype | Sensor | Cell size | A/D | Memory |
|----------|-----------|-------------|---------|------------|------------|---------------------|-----------|---------|--------|
| GX1050 | GigE* | 1024 x 1024 | 1 | 112 fps | 1/2 CCD | Truesense KAI-01050 | 5.5 µm | 14 bits | 128 MB |
| GX1660 | GigE* | 1600 x 1200 | 2 | 66 fps | 2/3 CCD | Truesense KAI-02050 | 5.5 µm | 14 bits | 128 MB |
| GX1910 | GigE* | 1920 x 1080 | 2 | 63 fps | 2/3 CCD | Truesense KAI-02150 | 5.5 µm | 14 bits | 128 MB |
| GX1920 | GigE* | 1936 x 1456 | 2.8 | 40 fps | 2/3 CCD | Sony ICX674 | 4.54 µm | 14 bits | 128 MB |
| GX2300 | GigE* | 2336 x 1752 | 4 | 32 fps | 1/1 CCD | Truesense KAI-04050 | 5.5 µm | 14 bits | 128 MB |
| GX2750 | GigE* | 2750 x 2200 | 6 | 20 fps | 1/1 CCD | Sony ICX694 | 4.54 µm | 14 bits | 128 MB |
| GX3300 | GigE* | 3296 x 2472 | 8 | 17 fps | 4/3 CCD | Truesense KAI-08050 | 5.5 µm | 14 bits | 128 MB |
| GX6600** | GigE* | 6576 x 4384 | 29 | 4 fps | 35 mm CCD | Truesense KAI-29050 | 5.5 µm | 14 bits | 128 MB |

*Double-speed GigE Vision interface (240 MB/s)

**Housing with F-Mount, note: larger dimensions, including the mount (diameter = 60 mm, L = 136 mm)

Prosilica GX Cameras

The Prosilica GX, with its double-speed GigE interface, is the first GigE Vision camera to feature LAG technology. Additional features include 3-axis motorized lens control as well as video-type auto-iris control.

Smart Features

- LAG Technology - 240 MByte/s
- 3-axis motorized lens control (zoom, focus, and iris)
- Video-type auto-iris
- Region of Interest Readout
- Gain, exposure
- White balance
- DSP subregion (selectable ROI for auto features)
- Binning
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- Event channel
- Chunk data
- Recorder mode (pre/post trigger recording)
- Storable user sets

Options

- CS-Mount (only GX1050)
- F-Mount (only GX1050, GX1660, GX1910, GX1920, GX2300)
- EF-Mount adapter
- Taped cover glass w/o or with microlenses (not for GX1050 and GX1920)
- IR cut filter on monochrome cameras

LAG Technology

LAG = Link Aggregation Group (IEEE 802.3ad)

The LAG technology has been used in IT networking for years and is supported by a wide range of standard Ethernet hardware (switches, interface cards, etc.). When the camera is connected by two cables to the host computer, it sees the camera as one connection at twice the normal speed (240 MB/s). The Prosilica GX can also operate using a single standard CAT-5e Ethernet cable at 120 MB/s.

Operating Conditions

| | |
|-----------------------|------------------------------------|
| Power requirements | DC 5 V - 24 V via 12-pin HIROSE |
| Power consumption | ≤ 7.6 W (@ 12 V DC) |
| Operating temperature | +0 ... +50 °C ambient temperature |
| Storage temperature | -10 ... +70 °C ambient temperature |
| Regulations | CE, FCC Class A, RoHS (2011/65/EU) |