

Prosilica GT 4907



- Versatile temperature range for extreme environments
- IEEE 1588 PTP
- Power over Ethernet
- 7.6 fps at full resolution

Description

15.7 Megapixel machine vision camera for extreme environments

Prosilica GT4907 is a 15.7 Megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. Prosilica GT4907 is offered in both monochrome and color models. This camera incorporates the high quality ON Semiconductor KAI-16070 TRUESENSE Gen 2 CCD sensor providing excellent monochrome and color image quality. At full resolution, this camera runs 7.6 frames per second. With a smaller region of interest, higher frame rates are possible. It is a rugged camera designed to operate in extreme environments. It is a large format housing camera with a F-Mount lens mount by default. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Benefits and features:

- Monochrome (GT4907) and color (GT4907C) models
- GigE Vision interface with Power over Ethernet
- Screw mount RJ45 Ethernet connector for secure operation in industrial environments
- Supports cable lengths up to 100 meters (CAT-5e or CAT-6)
- The ON Semiconductor KAI-16070 TRUESENSE Gen 2 is a high sensitivity CCD sensor
- Trigger over Ethernet (ToE) Action Commands allow for a single cable solution to reduce system costs
- Comprehensive I/O functionality for simplified system integration
- Planarity adjustable (PA) EF Lens Mount (option -18) for electronic control of aperture and autofocus
- Easy camera mounting via standard M3 threads at all sides and 1/4-20 tripod mounting hole
- Easy software integration with Allied Vision's [Vimba SDK](#) and compatibility to the most popular [third party image-processing libraries](#).



- Defect pixel masking feature with the Defect Mask Loader tool that allows you to manage a user defined defective pixel list to match your application and optimize the life cycle of the camera.

Options:

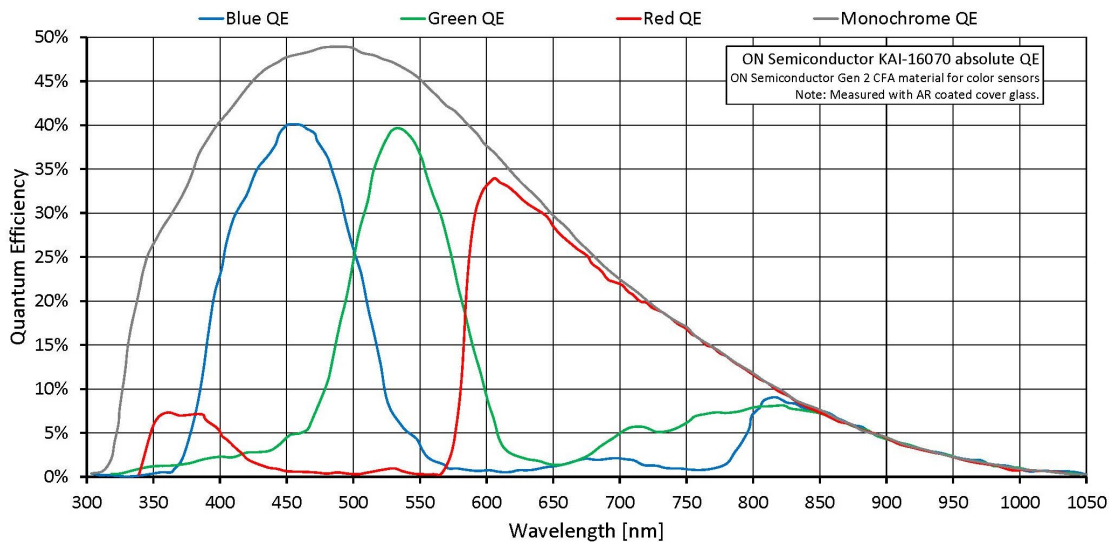
- Available with F-Mount PA, M58-Mount, M58-Mount PA, EF-Mount PA, M42-Mount, M42-Mount PA
- Available with IRC30 IR cut filter, IRC Filter Schneider 486, or Protection Glass B 270 (ASG)
- Class 1 sensor option

See the [Modular Concept](#) for lens mount and optical filters options. See the [Customization and OEM Solutions](#) webpage for additional options.

Specifications

Prosilica GT	4907
インターフェイス	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
解像度	4864 (H) × 3232 (V)
センサー	ON Semi KAI-16070
Sensor type	CCD Progressive
センサーサイズ	Type 35 mm
ピクセルサイズ	7.4 μm × 7.4 μm
レンズマウント (標準搭載)	F-Mount
フレームレート (フル解像度)	7.6 fps
ADC	14 bit
Image buffer (RAM)	128 MByte
Output	
Bit depth	12/14 bit
ビデオフォーマット(Mono)	Mono8, Mono12, Mono12Packed, Mono14
ビデオフォーマット(YUV)	YUV411Packed, YUV422Packed, YUV444Packed
ビデオフォーマット(RGB)	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
ビデオフォーマット(Raw)	BayerGR8, BayerGR12, BayerRG12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 2 outputs
Opto-isolated I/Os	1 input, 2 outputs
RS232	1
Operating conditions/dimensions	
Operating temperature	-20 °C to +50 °C ambient (without condensation)
Power requirements (DC)	7 to 25 VDC AUX or 802.3at Type 1 PoE
消費電力	7.7 W at 12 VDC; 9.5 W PoE

Prosilica GT	4907
Mass	372 g
Body dimensions (L × W × H in mm)	96 × 66 × 53.3 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003 Issue 4/5



Features

Image optimization features:

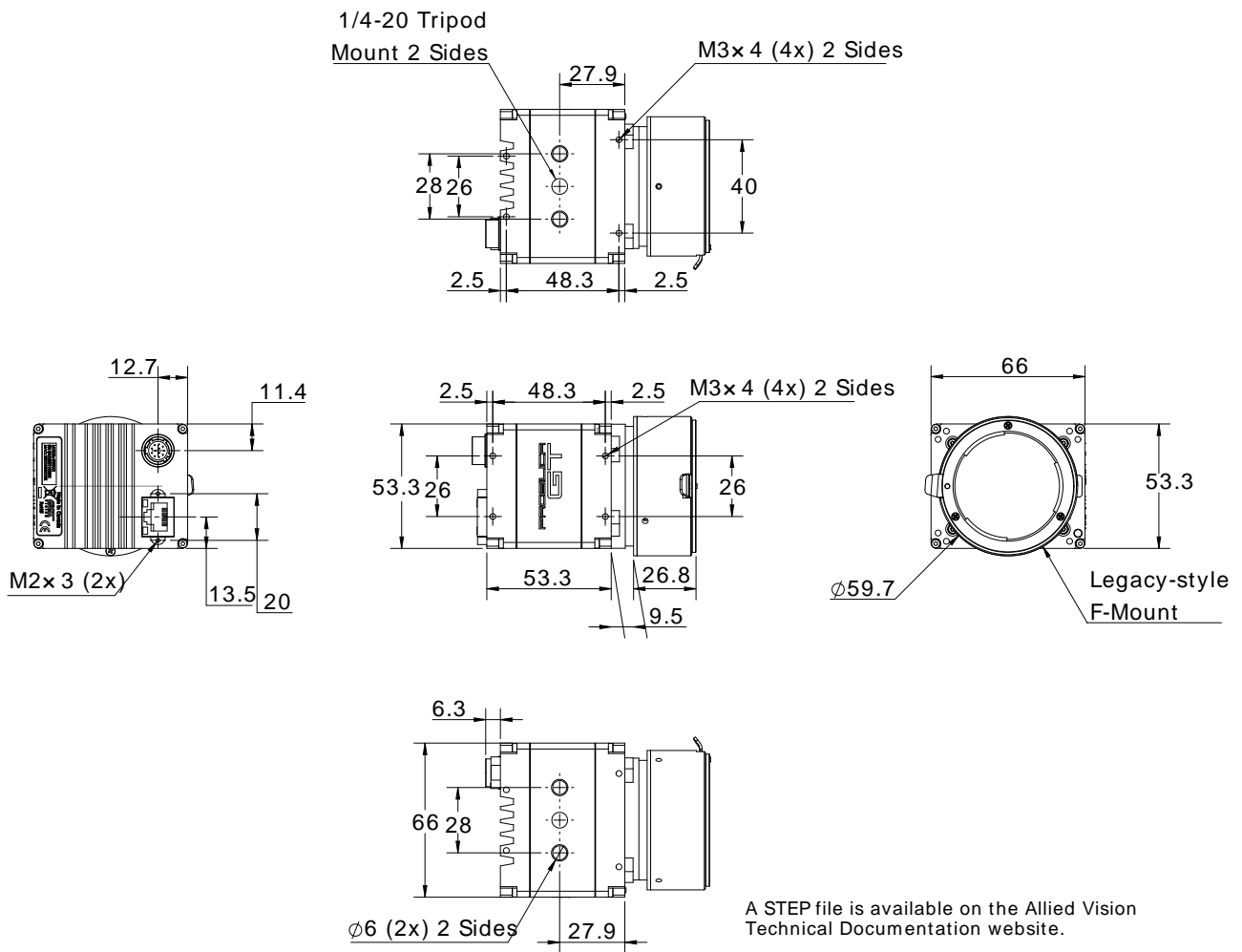
- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 35 μ s to 26.8 s)
- Auto white balance (GT4907C only)
- Binning (horizontal and vertical)
- Color correction, hue, saturation (GT4907C only)
- Defect pixel masking (user defined with Defect Mask Loader tool)
- Decimation X/Y
- Gamma correction
- Three look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features
- Reverse X/Y



Camera control features:

- EF lens control (order option -18)
- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol (PTP)
- RS232
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Tap mode switchable in Vimba Viewer 2.0 or later (four-tap, one-tap)
- Temperature monitoring (main board and sensor board)
- Trigger over Ethernet (ToE) Action Commands

Technical drawing





Applications

Prosilica GT4907 is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging and Intelligent Traffic Systems (ITS)
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications