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Find the *Allied Vision GT6600* at our website: *Click HERE*

Allied Vision

Prosilica GT

6600



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

28.8 megapixel industrial camera with GigE Vision interface

Prosilica GT6600 is a 28.8 megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates the high quality ON Semi KAI-29050 TRUESENSE Gen 2 CCD sensor providing excellent monochrome and color image quality. At full resolution, this camera runs 4 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 standard F-Mount lens mount.
By default, monochrome models ship with no optical filter and color models ship with a Type IRC30 IR cut filter.

Benefits and features

- Monochrome (GT6600) and color (GT6600C) 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-6 recommended)
- Trigger over Ethernet Action Commands allow for a single cable solution to reduce system costs
- Comprehensive I/O functionality for simplified system integration
- Planarity adjusted (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 Suite 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.

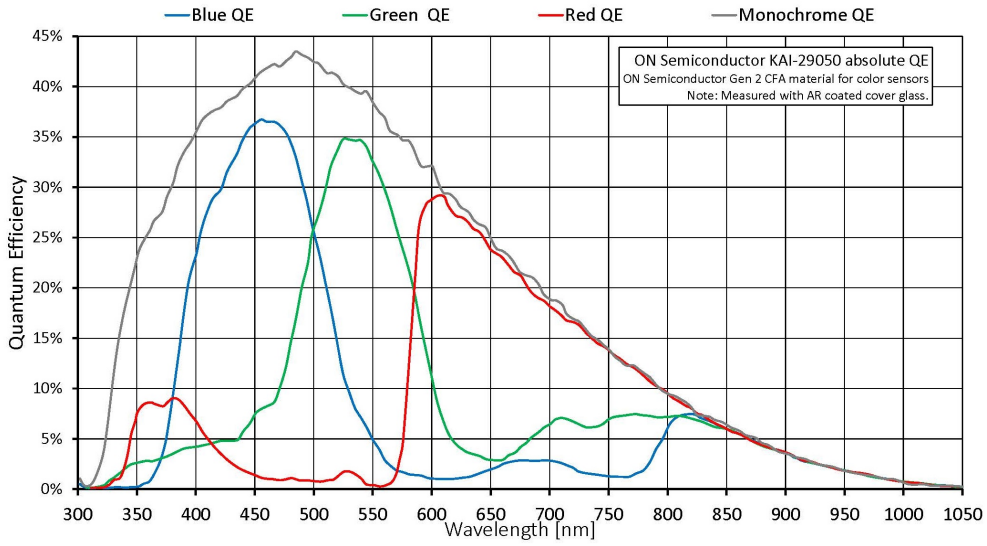
Allied Vision

Specifications

Prosilica GT	**6600**
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	6576 (H) × 4384 (V)
Sensor	ON Semi KAI-29050
Sensor type	CCD Progressive
Shutter mode	Global shutter
Sensor size	Type 35 mm
Pixel size	5.5 µm × 5.5 µm
Lens mounts (available)	F-Mount, F-Mount PA, M58-Mount, M58-Mount PA, EF-Mount PA, M42-Mount, M42-Mount PA
Max. frame rate at full resolution	4 fps
ADC	14 Bit
Image buffer (RAM)	128 MByte
Imaging performance Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured at full resolution without optical filter.	
Quantum efficiency at 529 nm	40 %
Temporal dark noise	14.7 e^-
Saturation capacity	18400 e^-
Dynamic range	60.0 dB
Absolute sensitivity threshold	18.3 e^-
Output	
Bit depth	12/14 Bit
Monochrome pixel formats	Mono8, Mono12, Mono12Packed, Mono14
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB color pixel formats	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw pixel formats	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 IEEE 802.3at Type 1 PoE

Prosilica GT	6600
Power consumption	External power: 6.6 W at 12 VDC | Power over Ethernet: 8.1 W
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

Quantum efficiency



Features

Image optimization features:

- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 30 µs to 33.5 s)
- Auto white balance (GT6600C model only)
- Binning (horizontal and vertical)
- Color correction, hue, saturation (GT6600C only)
- Defect pixel masking (user defined with Defect Mask Loader tool)
- Decimation X/Y
- Gamma correction
- Three look-up tables

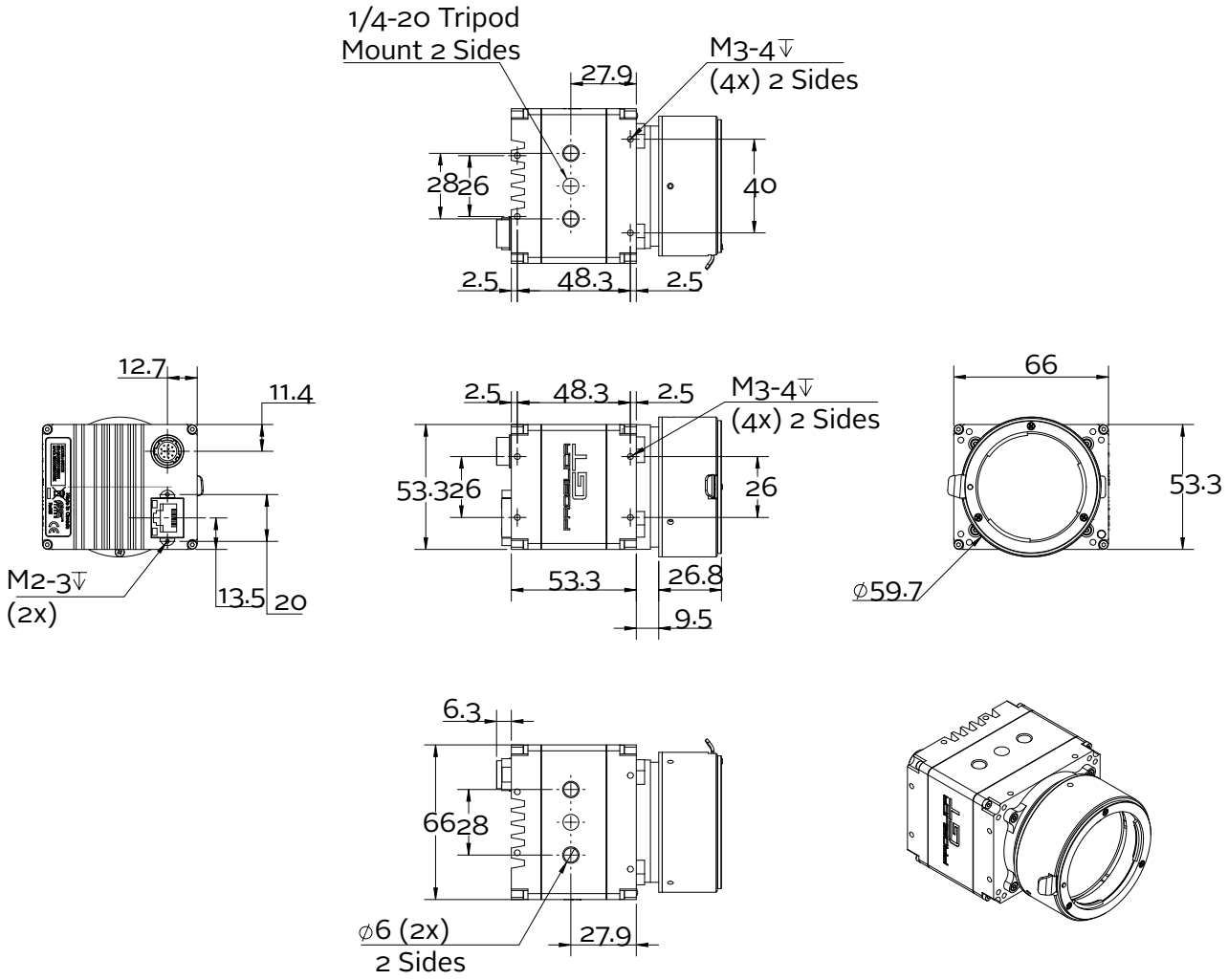
- Region of interest, separate region for auto features
- Reverse X/Y

Camera control features:

- EF lens control (order option -18)
- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol
- 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 Action Commands

Allied Vision

Technical drawing



Applications

Prosilica GT6600 is ideal for a wide range of applications including:

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

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