

Prosilica GC 2450



- Sony ICX625 CCD sensor
- 15 fps @ full resolution
- Rugged housing
- Video-type auto iris

基本描述

GigE Vision, Sony ICX625 CCD sensor, auto-iris, 15 fps

Prosilica GC2450 is a 5.0 Megapixel camera with a GigE Vision compliant Gigabit Ethernet interface and Hirose port. Prosilica GC2450 is offered in both monochrome and color models. This camera incorporates the high quality Type 2/3 (11.016 mm diagonal) Sony ICX625 CCD sensor with Super HAD CCD technology that provides superior image quality, excellent sensitivity, and low noise. At full resolution, this camera has a frame rate of 15 frames per second. With a smaller region of interest higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Benefits and features:

- Monochrome (GC2450) and color (GC2450C) models
- Screw mount RJ45 Ethernet connector for industrial environments
- Supports cable lengths up to 100 meters (CAT-5e or CAT-6)
- Popular C-Mount lens mount
- Standard M3 mounting holes and optional tripod adapter
- Support for popular third party image-processing libraries including Cognex VisionPro, MathWorks MATLAB, and National Instruments LabVIEW

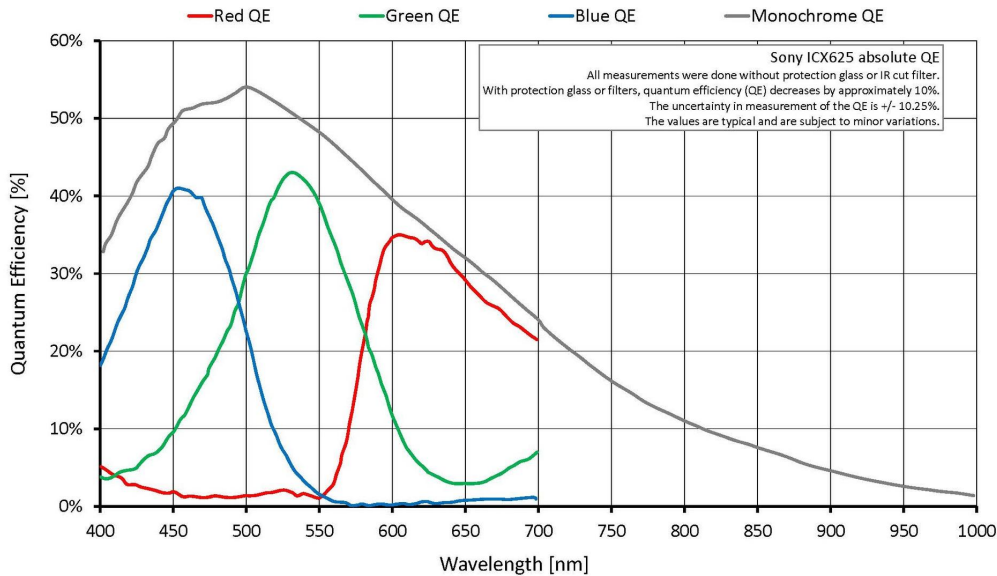
Options:

- CS-Mount
- Optical filters (IR cut filter/Protection glass)

See the [Modular Concept](#) for lens mount and optical filter options.

性能参数

Prosilica GC	2450
接口	IEEE 802.3 1000baseT
分辨率	2448 (H) × 2050 (V)
传感器	Sony ICX625
传感器类型	CCD Progressive
传感器尺寸	Type 2/3
像元尺寸	3.45 μm × 3.45 μm
标准镜头接口	C-Mount
最大满帧帧率	15 fps
ADC	12 bit
缓存 (RAM)	64 MByte
非易失性内存 (Flash)	1024 KByte (for selected models only)
输出	
Bit位数	8/12 bit
黑白像素格式	Mono8, Mono12, Mono12Packed
RGB彩色像素格式	RGB8Packed, BGR8Packed
原始像素格式	BayerRG8, BayerRG12, BayerGR12Packed
通用输入输出(GPIOs)	
TTL I/Os	1 input, 1 output
光耦 I/Os	1 input, 1 output
RS232	1
工作条件/尺寸	
工作温度	0 °C to +40 °C ambient (without condensation)
电源要求 (DC)	5 to 25 VDC
功耗	3.8 W at 12 VDC
重量	106 g
尺寸(L × W × H in mm)	59 × 46 × 33 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003



特性

Image optimization features:

- Auto gain (manual gain control: 0 to 24 dB, 1 dB increments)
- Auto exposure (manual exposure control: 10 μ s to 48.0 s; 1 μ s increments)
- Auto white balance (GC2450C only)
- Binning (horizontal and vertical) (sum)
- Black level (Offset)
- Gamma correction
- Hue, saturation, color transformation (GC2450C only)
- Three look-up tables (LUTs)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)

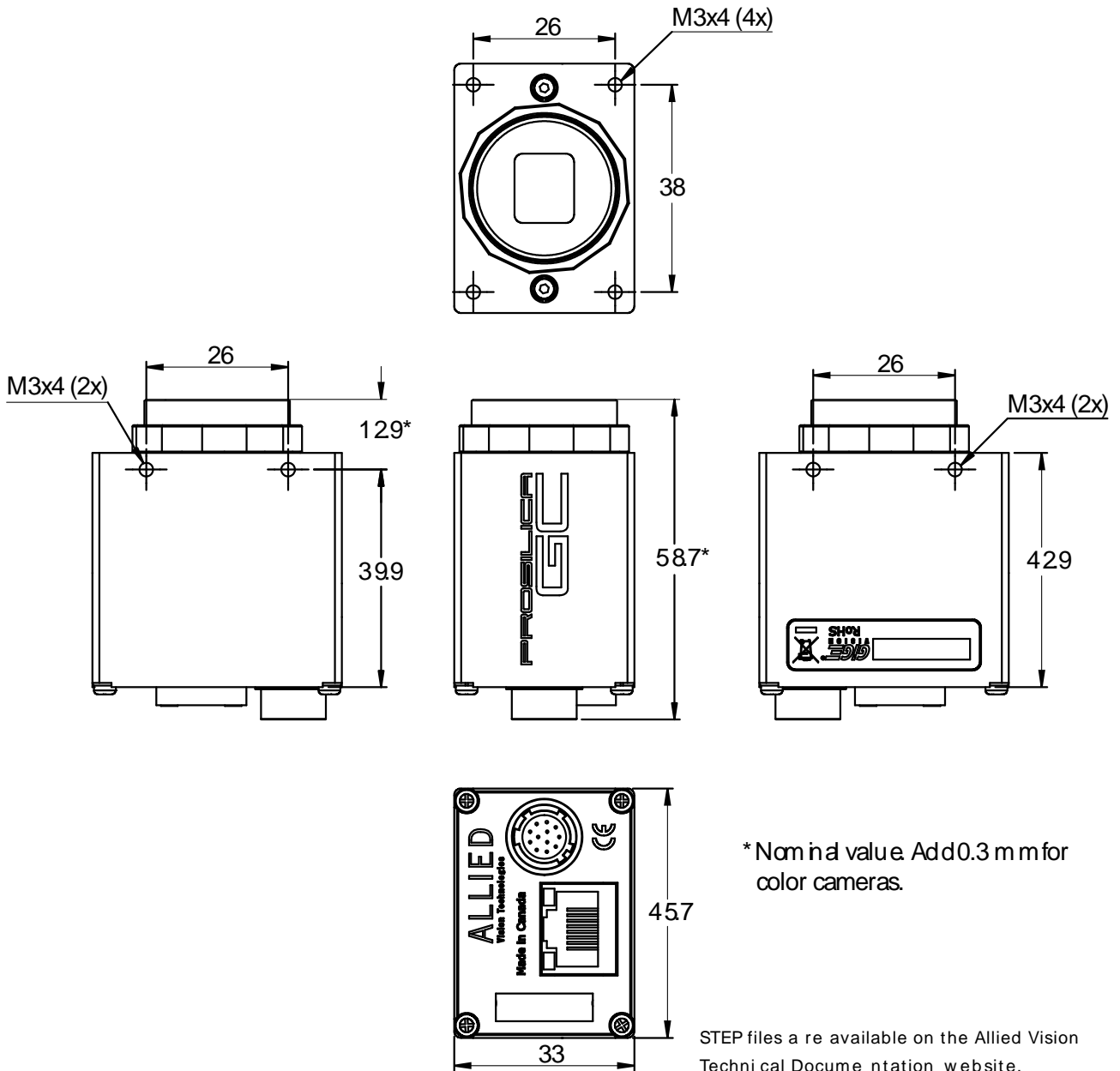
Camera control features:

- Auto-iris (video type)
- Event channel
- Global shutter (digital shutter)
- IEEE 1588 Precision Time Protocol
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232



- Three storable user sets
- StreamBytesPerSecond (bandwidth control)
- StreamHoldCapacity (Up to 12 frames at full resolution)
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Temperature monitoring (mainboard only)
- Non-volatile memory 1024 KByte (for selected models only)

外形尺寸





应用场景

Prosilica GC2450 is ideal for a wide range of applications including:

- High-resolution industrial inspection
- LCD panel inspection
- Machine vision
- 3D metrology
- Public security
- Surveillance
- Traffic imaging/Intelligent Traffic Systems (ITS)
- Embedded systems
- OEM applications