

Prosilica GS

1380



- Right-angle CCD camera with low height profile
- 30 fps @ full resolution
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

1.4 Megapixel CCD camera with GigE Vision, High sensitivity

Prosilica#GS1380/GS1380C is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface. This camera incorporates the Sony ICX285 CCD sensor with EXview technology. This camera runs 30 frames per second at full resolution and#is available in landscape or portrait orientation.

Options:

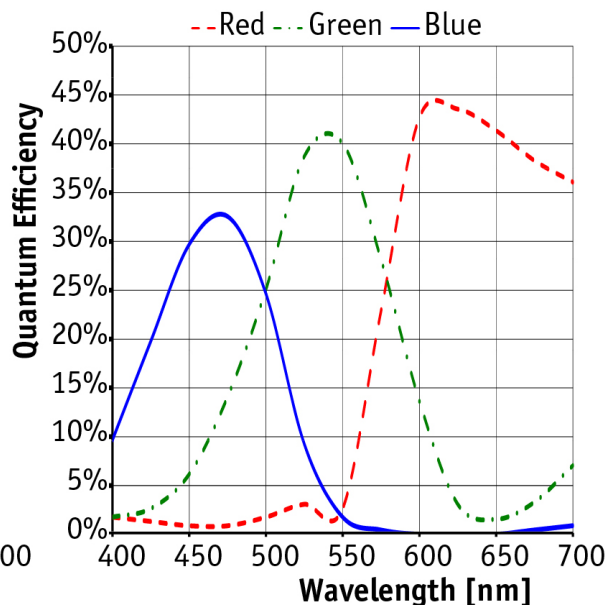
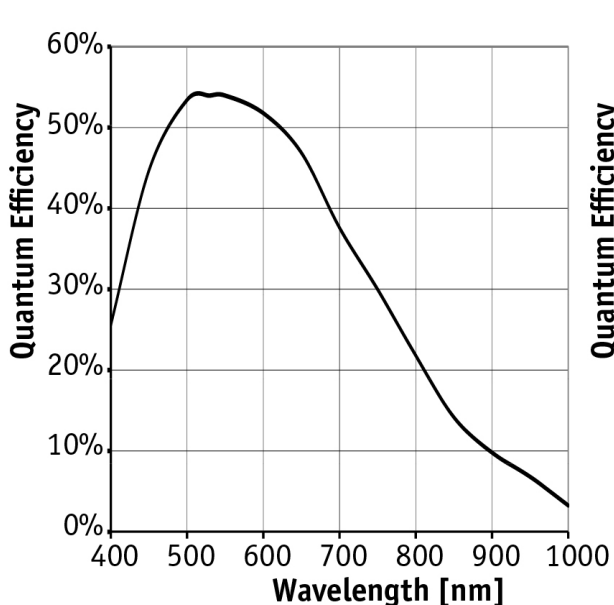
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

See the#[Modular Concept](#)#for lens mount, optical filters, and case design options.

Specifications

Prosilica GS	1380
Interface	IEEE 802.3 1000baseT
Resolution	1360 (H) × 1024 (V)
Sensor	Sony ICX285
Sensor type	CCD Progressive
Cell size	6.45 μm x 6.45 μm
Lens mount	C-Mount
Max frame rate at full resolution	30 fps
ADC	14 bit
Image buffer (RAM)	16 MByte
	Output
Bit depth	8/12 bit

Prosilica GS	1380
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +70 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption (@12 V)	3.5 W
Mass	187 g
Body dimensions (L × W × H in mm)	96 × 56 × 26 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Prosilica#GS1380/GS1380C features include:

- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 30 dB)



- Auto exposure (manual exposure controls: 10 #s to 78.5 s)
- Auto white balance
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

Applications

Prosilica#GS1380/GS1380C is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Microscopy
- Ophthalmology
- Fluorescence
- Aeronautical and aerospace
- Public security
- Surveillance

Prosilica GS

2450



- Right-angle CCD camera with low height profile
- 15 fps @ full resolution
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

5 Megapixel periscope type camera with GigE Vision, 15 frames per second

Prosilica#GS2450/GS2450C is a very high-resolution CCD camera with Gigabit Ethernet output. This camera uses the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

Options:

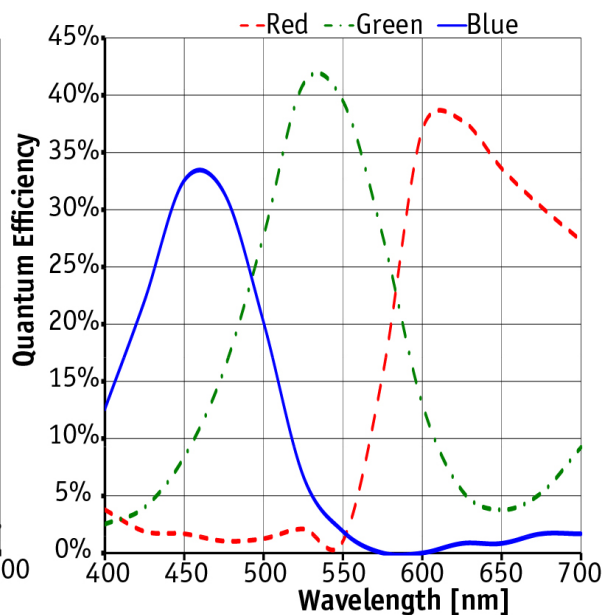
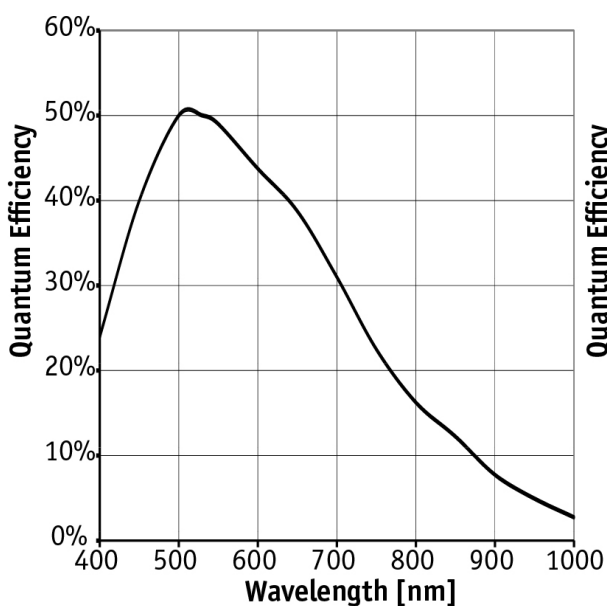
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

See the [Modular Concept](#) for lens mount, optical filters, and case design options.

Specifications

Prosilica GS	2450
Interface	IEEE 802.3 1000baseT
Resolution	2448 (H) × 2050 (V)
Sensor	Sony ICX625
Sensor type	CCD Progressive
Cell size	3.45 μm x 3.45 μm
Lens mount	C-Mount
Max frame rate at full resolution	15 fps
ADC	14 bit
Image buffer (RAM)	16 MByte
Output	
Bit depth	8/12 bit

Prosilica GS	2450
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +70 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption (@12 V)	3.8 W
Mass	186 g
Body dimensions (L × W × H in mm)	96 × 56 × 26 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Prosilica#GS2450/GS2450C features include:

- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 30 dB)



- Auto exposure (manual exposure controls: 10 #s to 42.9 s)
- Auto white balance
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

Applications

Prosilica#GS2450/GS2450C is ideal for a wide range of applications including:

- LCD panel inspection
- High-resolution industrial inspection
- 3D metrology
- General machine vision
- Public security
- Surveillance
- Traffic imaging (Intelligent Traffic Systems)
- Embedded systems
- Microscopy



Prosilica GS

650

- Right-angle CCD camera with low height profile
- High frame rate
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

90-degree GigE Vision camera, VGA resolution, 120 frames per second

Prosilica GS650/GS650C is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface. The CCD sensor has excellent image quality and sensitivity. This camera is available in landscape or portrait orientation.

Options:

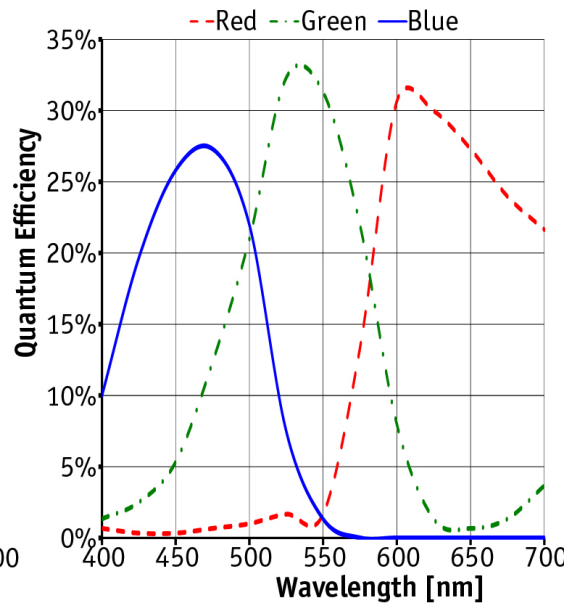
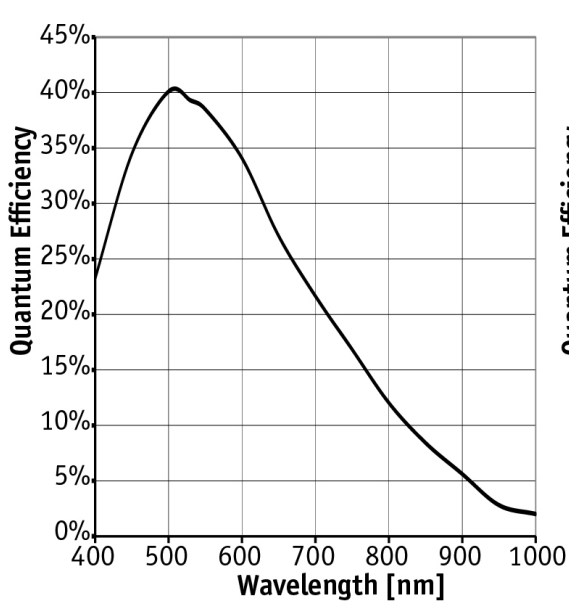
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

See the [Modular Concept](#) for lens mount, optical filters, and case design options.

Specifications

Prosilica GS	650
Interface	IEEE 802.3 1000baseT
Resolution	659 (H) × 493 (V)
Sensor	Sony ICX424
Sensor type	CCD Progressive
Cell size	7.4 μm x 7.4 μm
Lens mount	C-Mount
Max frame rate at full resolution	120 fps
ADC	14 bit
Image buffer (RAM)	16 MByte
	Output
Bit depth	8/12 bit

Prosilica GS	650
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +70 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption (@12 V)	3 W
Mass	184 g
Body dimensions (L × W × H in mm)	96 × 56 × 260 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Prosilica GS650/GS650C features include:

- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 30 dB)



- Auto exposure (manual exposure controls: 10 #s to 78.5 s)
- Auto white balance
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

Applications

Prosilica GS650/GS650C is ideal for a wide range of applications including:

- Machine vision
- Industrial inspection
- Public security
- Traffic monitoring
- Microscopy

Prosilica GS

660



- Right-angle CCD camera with low height profile
- High frame rate
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

Right-angle GigE Vision camera, Sony ICX618 EXview sensor, 119 frames per second

Prosilica GS660/GS660C is a fast, VGA#resolution, high-performance machine vision camera with Gigabit Ethernet interface. This camera incorporates a Sony ICX618 EXview HAD CCD sensor that has particularly high quantum efficiency and excellent NIR response for excellent image quality and sensitivity.

Options:

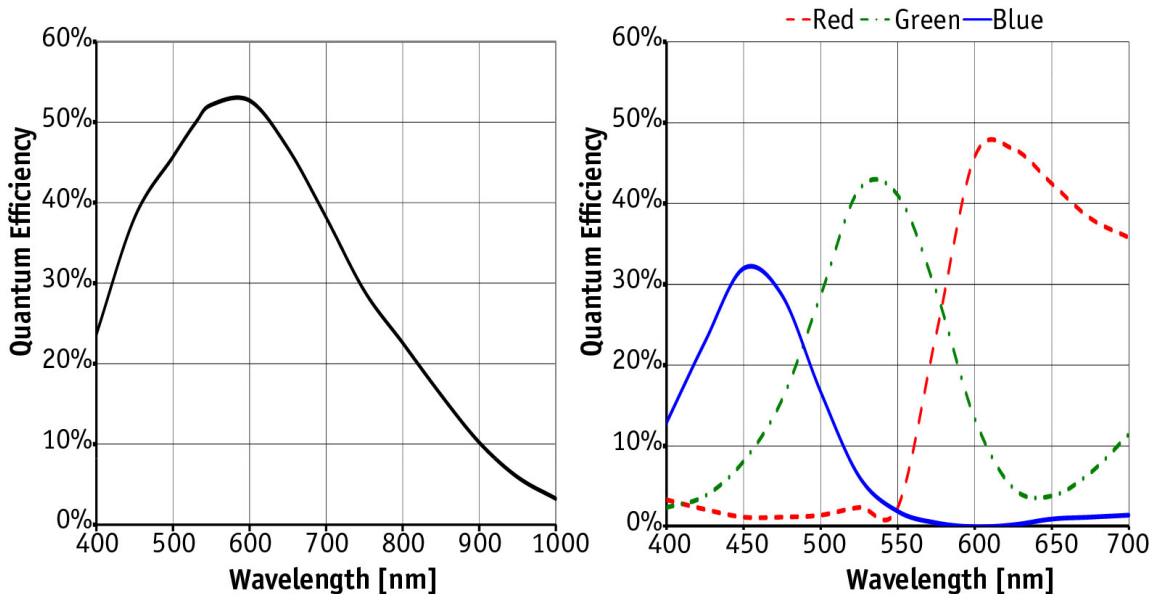
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

See the [#Modular Concept](#) for lens mount, optical filters, and case design options.

Specifications

Prosilica GS	660
Interface	IEEE 802.3 1000baseT
Resolution	659 (H) × 493 (V)
Sensor	Sony ICX618
Sensor type	CCD Progressive
Cell size	5.6 μm x 5.6 μm
Lens mount	C-Mount
Max frame rate at full resolution	119 fps
ADC	14 bit
Image buffer (RAM)	16 MByte
Output	
Bit depth	8/12 bit

Prosilica GS	660
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0 °C to +70 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption (@12 V)	3 W
Mass	184 g
Body dimensions (L × W × H in mm)	96 × 56 × 26 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Prosilica#GS660/GS660C features include:

- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 30 dB)



- Auto exposure (manual exposure controls: 10 #s to 78.5 s)
- Auto white balance
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

Applications

Prosilica#GS660/GS660C is ideal for a wide range of applications including:

- Machine vision
- Industrial inspection
- Public security
- Traffic monitoring
- Microscopy