5000 series

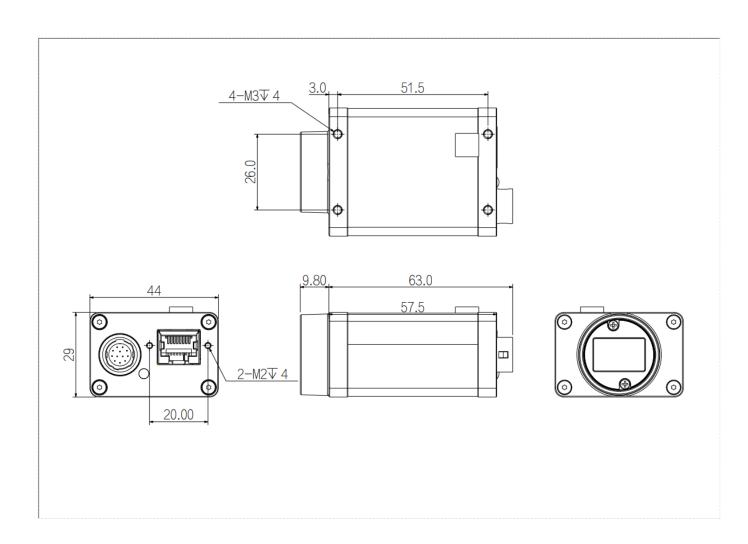
L5027CG300E



Features

- The resolution is 2K, the pixel size is 7µm, and the maximum line frequency can reach 44.7K;
- High dynamic range, good signal-to-noise ratio, and excellent image quality;
- Support a variety of image data format output;
- Support multiple ROI, FPN correction;
- Support Gamma, LUT, CCM, automatic black level, Automatic white balance and other ISP functions;
- Support software trigger/hardware trigger/free run and other trigger modes;
- Compatible with GigE Vision V2.0 protocol and GenICam standard;
- Support DC12-24V wide voltage power supply;

Dimensions (mm)





Specification

Sensor 2 K	Model		L5027CG300E
Shitter Global Resolution 2048 × 3 Line Rate 44.7 kHz Bit Depth 12 Mono/Color Color Pixel Size 7 µm × 7 µm Pixel Size 7 µm × 7 µm Pixel Dynamic Range 65.5 db Dynamic Range 65.5 db Dynamic Range 65.5 db Dynamic Range 65.5 db Embining Support ROI Support White Balance Support Gain 1-32 White Balance Support From 0 to 4 , support LUT Exposure Time 8µ5-100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support Juser Setting Support Support Juser Setting Support Juser Setting Support Juser Setting Support Juser Setting Support Trigger/Hardware Trigger/Free Run Mode FPN Support Juser Setting Support to sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache GPIO Interface 12-pin Hirose interface for external power supply and external triggering: 2 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable input or output, 1 differential/single-ended inputs, 1 differential configurable	Basic	Sensor	2 K
Basic Resolution 2048 × 3 Line Rate 44.7 kHz Bit Depth 12 Mono/Color Color Pixel Size 7 μm × 7 μm Pixel 2048 × 3 S/N Ratio 39.6 db Dynamic Range 65.5 db Image Format Mono8/BayerRG8/10/12/10P/12P/RG88P/YUV422 Binning Support ROI Support ROI Support Gain 1-32 White Balance Support Gamma From 0 to 4 , support LUT Exposure Time 8μs-100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support Performance User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache FPO GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended input; 1 GPIO configurable input or output, 1 ligh-speed optoccupier single-ended input; 1 GPIO configurable input or output, 1 ligh-speed optoccupier single-ended input; 1 GPIO configurabl		Image Sensor	Gpixel
Line Rate		Shutter	Global
Line Rate		Resolution	2048 × 3
Mono/Color Color Pixel Size 7 µm × 7 µm Pixel Size 7 µm × 7 µm Pixel Size 7 µm × 7 µm S/N Ratio 39.6 db Dynamic Range 65.5 db Image Format Mono8/BayerRG8/10/12/10P/12P/RGB8P/YUV422 Binning Support ROI Support Gain 1-32 White Balance Support Gamma From 0 to 4 , support LUT Exposure Time 8µS-100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support Oser Setting Support to sets of user-defined configurations Port Gig Port Gig Port Gig Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C-+80°C Environment Storage Temperature -30°C-+80°C Tingge Temperature -30°C-+80°C Storage Temperature -30°C-+80°C Storage Temperature -30°C-+80°C Tingger Temperature -30°C-+80°C Tin		Line Rate	44.7 kHz
Pixel Size 7 μm × 7 μm		Bit Depth	12
Pixel 2048 x 3 39.6 db 2008 x 3 20.5 db 20.5		Mono/Color	Color
S/N Ratio 39.6 db Dynamic Range 65.5 db Image Format Mono8/BayerRG8/10/12/10P/12P/RGB8P/YUV422 Binning Support ROI Support ROI Support Gain 1-32 White Balance Support Exposure Time 8µS~100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support Support Support Defformance Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended input, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output, 2 GPIO configurable input or output, 3 GPIO configurable input or output, 3 GPIO configurable input or output, 4 GPIO configurable input or output, 4 GPIO configurable input or output, 5 GPIO configurable input or output, 5 GPIO configurable input or output, 5 GPIO configurable input or output, 6 GPIO configurable input or output, 7 GPIO configurable configurab		Pixel Size	7 μm × 7 μm
Dynamic Range 65.5 db Image Format	Image	Pixel	2048 × 3
Image Format Mono8/BayerRG8/10/12/10P/12P/RGB8P/YUV422 Binning Support ROI Support ROI Support A Filip Support Gain 132 White Balance Support Exposure Time 8µ5~100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache Port GigE GPIO Interface GPIO Interface differential/single-ended inputs, 1 differential configurable input or output 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		S/N Ratio	39.6 db
Binning Support		Dynamic Range	65.5 db
ROI Support		Image Format	Mono8/BayerRG8/10/12/10P/12P/RGB8P/YUV422
Image X Flip Support Gain 1~32 White Balance Support Gamma From 0 to 4 , support LUT Exposure Time 8µ5~100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache Port GigE Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		Binning	Support
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White Balance Support Gamma From 0 to 4 , support LUT Exposure Time 8 µS~100mS Trigger Mode FPN Support Support User Setting Image Buffer Fort Port GigE Port GPIO Interface Power Power Supply Power Consumption Support Support two sets of user-defined configurations Lens Mount C-Mount Power Consumption AGW Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature Storage Temperature From 0 to 4 , support LUT Supp		X Flip	Support
Gamma From 0 to 4 , support LUT		Gain	1~32
Exposure Time 8µS~100mS Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Structure New Gight 100 g Storage Temperature -30℃~+80℃ Storage Temperature -30℃~+80℃		White Balance	Support
Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode FPN Support User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		Gamma	From 0 to 4, support LUT
FPN Support Support User Setting Support two sets of user-defined configurations Image Buffer 64MB Image Cache , 64M Data Cache Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		Exposure Time	8μS~100mS
Performance User Setting Support two sets of user-defined configurations		Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
Performance Image Buffer 64MB Image Cache , 64M Data Cache Port GigE 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		FPN	Support
Port GigE Port GigE GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C	Performance	User Setting	Support two sets of user-defined configurations
Port GPIO Interface GPIO Interface 12-pin Hirose interface for external power supply and external triggering; 2 differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		Image Buffer	64MB Image Cache , 64M Data Cache
Port GPIO Interface differential/single-ended inputs, 1 differential configurable input or output, 1 high-speed optocoupler single-ended input, 1 GPIO configurable input or output Lens Mount C-Mount Power Supply DC12-24V power supply Power Consumption 4.6W Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C	Port	Port	GigE
Power Supply DC12-24V power supply Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		GPIO Interface	differential/single-ended inputs, 1 differential configurable input or output, 1
Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C		Lens Mount	C-Mount
Power Consumption 4.6W Structure Product Dimensions 29 mm × 44 mm × 57.5 mm (Not including rear case connector) Net Weight 100 g Storage Temperature -30°C~+80°C	Power	Power Supply	DC12-24V power supply
Structure Net Weight 100 g Storage Temperature -30°C~+80°C		Power Consumption	4.6W
Net Weight 100 g Storage Temperature -30°C∼+80°C Environment	Structure	Product Dimensions	29 mm × 44 mm × 57.5 mm (Not including rear case connector)
Environment		Net Weight	100 g
	Environment	Storage Temperature	-30°C~+80°C
		Operating Temperature	0°C~+50°C



Spectrogram

