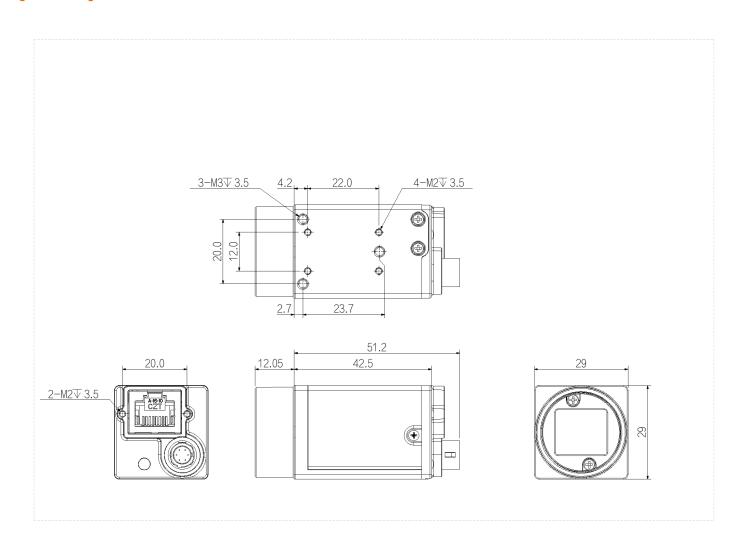
AE Series AE5200MG010E



Features

- Gigabit Ethernet interface, providing 1Gbps bandwidth with a maximum transmission distance of 100m;
- 256MB on-board cache for data transmission or image resend;
- Support Software Trigger/Hardware Trigger/Free Run Mode;
- Support ISP functions including Sharpness/Denoising/Gamma/LUT/BlackLevel Correction/TargetBrightness/Contrast etc.;
- Support multiple image data formats output/ROI/Binning/Mirror, etc.;
- Conform to GigE Vision V2.0 protocol and GenICam standard;
- Conform to CE, RoHS;

Dimensions (mm)





Specification

Basic IMX430 Basic Image Sensor 1/1.7 CMOS Shutter Global Resolution 1624 × 1240 Frame Rate 60 fps Bit Depth 10 Mono/Color Mono Pixel Size 4.5 μm × 4.5 μm S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support K7 Fip Support Gain 1 ~ 22 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 µs − 1 s Trigger Mode Software Trigger/Free Run Mode SPC Support Transpect Mode Support two sets of user-defined configurations Image Buffer 256MB Port Gigs, PoE Support two sets of user-defined configurations Image Buffer 256MB Power Supply PoF DE SP ~ 24V power supply via Hirose interface Powe	Model		AE5200MG010E
Shutter	Basic	Sensor	IMX430
Basic Resolution 1624 × 1240 Frame Rate 60 fps Bit Depth 10 Mono/Color Mono Pixel Size 4.5 μm × 4.5 μm Fixel 2 MP S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support Y Flip Support Gain 1-32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 μs − 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Performance Port GigE, PoE Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Image Buffer 256MB Port GigE, PoE Image Buffer 256MB Power Supply PoE/ DC 9V – 24V power supply via Hiros		Image Sensor	1/1.7"CMOS
Basic Frame Rate 60 fps Bit Depth 10 Mono/Color Mono Pixel Size 4.5 µm × 4.5 µm Pixel Size 4.5 µm × 4.5 µm Pixel Size 4.5 µm × 4.5 µm S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support Y Flip Support Gain 1-32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 µs ~ 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Port Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Image Buffer 256MB Port GigE, PoE Image Buffer 256MB Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Supply PoWer Supply PoWer Consump		Shutter	Global
Frame Rate 60 fps Bit Depth 10 Mono/Color Mono Pixel Size 4.5 µm × 4.5 µm Pixel 2 MP S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed ; Binning Support ROI Support X Flip Support Y Flip Support Gain 1-32 White Balance Support Gamma From 0 to 4. support LUT Exposure Time 1 µs-1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Performance Port GigE, PoE The Mount C-mount Power Power Consumption 12 V=3.8 W Product Dimensions 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g Pot User Structure 12 V=3.8 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g Pot Description 12 V=3.8 W Product Dimensions 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g Potator Power Power Supply Pode Potation Power Potation Power Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Resolution	1624 × 1240
Mono/Color Mono		Frame Rate	60 fps
Pixel Size 4.5 μm × 4.5 μm Fixel 2 MP S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support X Flip Support Y Flip Support Gain 1~32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 μs − 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Support User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Trigger Made 1× 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount C-mount Power Supply PoX DC 9V~24V power supply via Hirose interface Power Consump		Bit Depth	10
Pixel 2 MP S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support X Flip Support Y Flip Support Gain 1 ~32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 µs ~ 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE GPIO Interface 1 × 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output: 1 configurable input and output Lens Mount C-mount Power Supply PoF DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Mono/Color	Mono
S/N Ratio 38 dB Dynamic Range 60 dB Image Format Mono8/10/10Packed; Binning Support ROI Support X Flip Support Gain 1~32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 μs~1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Vers Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Port GigE, PoE GPIO Interface 1.4 ≤ 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 1.2 V≈3.8 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Pixel Size	4.5 μm × 4.5 μm
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Image Binning Support ROI Support X Flip Support Y Flip Support Gain 1~32 White Balance Support Gamma From 0 to 4, support LUT Exposure Time 1 μs~1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE GPIO Interface 1x 6 pin Hirose: 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Dynamic Range	60 dB
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Performance		X Flip	Support
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Exposure Time 1 μs ~ 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE GPIO Interface 1×6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		White Balance	Support
Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE GPIO Interface 1× 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Gamma	From 0 to 4, support LUT
SPC Support Performance User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE GPIO Interface 1x 6 pin Hirose: 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm x 29 mm x 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Exposure Time	1 μs ~ 1 s
Performance User Setting Support two sets of user-defined configurations		Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
Performance Image Buffer 256MB Port GigE, PoE GPIO Interface 1× 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		SPC	Support
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Port GPIO Interface 1× 6 pin Hirose: 1× Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Net Weight 98 g		Image Buffer	256MB
Power Supply Power Consumption Structure Power Supply	Port	Port	GigE, PoE
Power Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.8 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		GPIO Interface	
Power Consumption 12 V≈3.8 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g		Lens Mount	C-mount
Power Consumption 12 V≈3.8 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 98 g	Power	Power Supply	PoE/ DC 9V~24V power supply via Hirose interface
Structure Net Weight 98 g		Power Consumption	12 V≈3.8 W
Net Weight 98 g	Structure	Product Dimensions	29 mm × 29 mm × 42 mm (not including lens mount and rear case connector)
Environment Storage Temperature −30°C ~ +80°C		Net Weight	98 g
	Environment	Storage Temperature	-30°C ~ +80°C



Model		AE5200MG010E
Environment	Operating Temperature	0°C ~ +50°C

Connector Pin-out

Definitions of camera 6-pin ports:					
Pin	Description	Features	Definition of 6-pin power port		
1	-	+9VDC to 24VDC power supply			
2	Line1	Opto-isolated input			
3	Line2	GPIO (I/O can be configured for non-isolated software)¹			
4	Lineo	Opto-isolated output			
5	-	Opto-isolated signal ground (ISO_GND)			
6	-	Camera DC power ground and GPIO signal ground (GND)			

Spectrogram

