AE Series

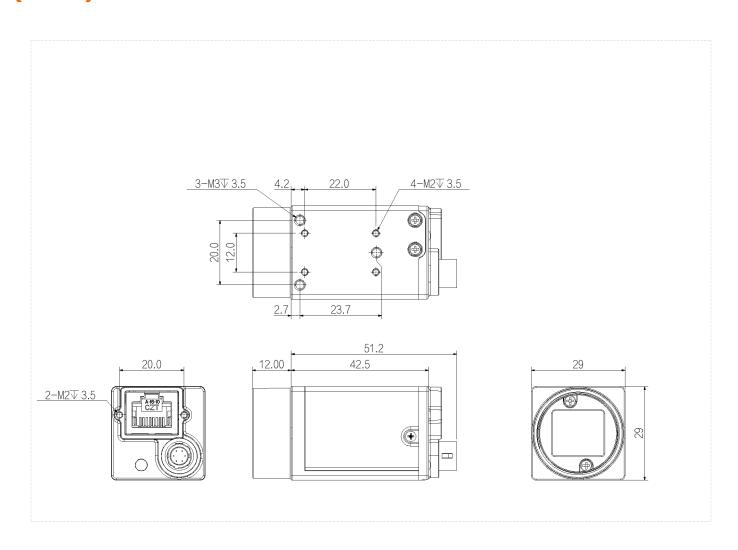
AE5137MG010E



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

Image Sensor	Model		AE5137MG010E
Resolution		Image Sensor	1/1.7"CMOS
Basic Frame Rate 90 fps Bit Depth 12 Mono/Color Mono Pixel Size 4.0 μm × 4.0 μm Fixel 1.3 MP S/N Ratio 40 dB Dynamic Range 66 dB Image Format Mono8/10/10Packed/12/12Packed; Binning Support ROI Support Y Flip Support Y Flip Support Gain 1 - 32 Gamma From 0 to 4, support LUT Exposure Time 5 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 Lens Mount C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V = 3.2 W Profluct Dimensions 29 mm × 29 mm × 29 mm × 42 mm (not in		Shutter	Global
Bit Depth 12 Mono/Color Mono Pixel Size 40 µm × 4.0 µm Pixel 1.3 MP S/N Ratio 40 dB Dynamic Range 66 dB Image Format Mono8/10/10Packed/12/12Packed ; Binning Support ROI Support ROI Support Y Flip Support Gain 1-32 Gamma From 0 to 4, support LUT Exposure Time 5 µs-1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Defformance Port GigE, PoE Port GigE, PoE Power Power Consumption 12 V=3.2 W Structure Froduct Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C Power Empironment Power Supply Pof DC 9V-240°C Fower Empironment Power Supply Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C Power Tompure Power Supply Pof DC 9V-280°C Power Tompur Power Supply Pof DC 9V-280°C Power Empironent Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Power		Resolution	1280 × 1024
Mono/Color Mono	Basic	Frame Rate	90 fps
Pixel Size 4.0 μm × 4.0 μm Pixel 1.3 MP 5/N Ratio 40 dB Dynamic Range 66 dB Image Format Mono8/10/10Packed/12/12Packed; Binning Support ROI Support Support Y Flip Support Supp		Bit Depth	12
Pixel 1.3 MP 5/N Ratio 40 dB Dynamic Range 66 dB Image Format Mono8/10/10Packed/12/12Packed; Binning Support ROI Support Y Flip Support Y Flip Support Gain 1~32 Gamma From 0 to 4, support LUT Exposure Time 5 μs~1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Support Support 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≈3.2 W Structure Net Weight 88 g Environment Storage Temperature -30°C~+80°C		Mono/Color	Mono
S/N Ratio		Pixel Size	4.0 μm × 4.0 μm
Image Dynamic Range 66 d B Image Format Mono8/10/10Packed/12/12Packed; Binning Support ROI Support X Flip Support Gain 1 ~ 32 Gamma From 0 to 4, support LUT Exposure Time 5 μs ~ 1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Support Support Performance User Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Image Buffer 256MB Port GigE, PoE Injust and output 1 × 6 pin Hirose: 1 × Opto-isolated input, 1 × Opto-isolated output, 1 configurable input and output Lens Mount C-mount Power Consumption 12 V≈3.2 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Stroyee Temperature -30°C~+80°C		Pixel	1.3 MP
Image Format Mono8/10/10Packed/12/12Packed; Binning Support ROI Support X Flip Support Y Flip Support Gain 1~32 Gamma From 0 to 4, support LUT Exposure Time 5 μs ~1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Performance Image Buffer 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≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		S/N Ratio	40 dB
Binning Support		Dynamic Range	66 dB
Image ROI Support Y Flip Support Gain 1~32 Gamma From 0 to 4, support LUT Exposure Time 5 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≈3.2 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Environment Net Weight 88 g Environment Storage Temperature -30°C~+80°C		Image Format	Mono8/10/10Packed/12/12Packed;
Image X Flip Support Y Flip Support Gain 1~32 Gamma From 0 to 4, support LUT Exposure Time 5 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 Port GigE, PoE Power Power Power Power Power Power Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight Storage Temperature -30°C~+80°C		Binning	Support
Y Flip Support Gain 1~32 Gamma From 0 to 4, support LUT Exposure Time 5 μs~1 s Trigger Mode Software Trigger/Hardware Trigger/Free Run Mode SPC Support Ver Setting Support two sets of user-defined configurations Image Buffer 256MB Port GigE, PoE Port GigE, PoE 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≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Environment Storage Temperature -30°C~+80°C		ROI	Support
	Image	X Flip	Support
		Y Flip	Support
Exposure Time 5 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≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		Gain	1~32
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≈3.2 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		Gamma	From 0 to 4, support LUT
SPC Support SPC Support		Exposure Time	5 μs ~ 1 s
Performance User Setting Support two sets of user-defined configurations		Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
Port 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≈3.2 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		SPC	Support
Port GigE, PoE	Dorformanco	User Setting	Support two sets of user-defined configurations
Port GPIO Interface 1 × 6 pin Hirose: 1 × Opto-isolated input, 1 × Opto-isolated output, 1 configurable input and output C-mount Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C	Performance	Image Buffer	256MB
Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		Port	GigE, PoE
Power Supply PoE/ DC 9V~24V power supply via Hirose interface Power Consumption 12 V≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C	Port	GPIO Interface	
Power Consumption 12 V≈3.2 W Structure Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C		Lens Mount	C-mount
Power Consumption 12 V≈3.2 W Product Dimensions 29 mm × 29 mm × 42 mm (not including lens mount and rear case connector) Net Weight 88 g Storage Temperature -30°C~+80°C	Dower	Power Supply	PoE/ DC 9V~24V power supply via Hirose interface
Structure Net Weight 88 g Storage Temperature -30°C~+80°C Environment	rowei	Power Consumption	12 V≈3.2 W
Net Weight 88 g Storage Temperature -30°C~+80°C	Structure	Product Dimensions	29 mm × 29 mm × 42 mm (not including lens mount and rear case connector)
Environment	Structure	Net Weight	88 g
	Environment	Storage Temperature	-30°C~+80°C
Operating reinperature 0 C~+50 C	Environment	Operating Temperature	0°C~+50°C



Connector Pin-out

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

