Board-level Series

AB3138CU000E

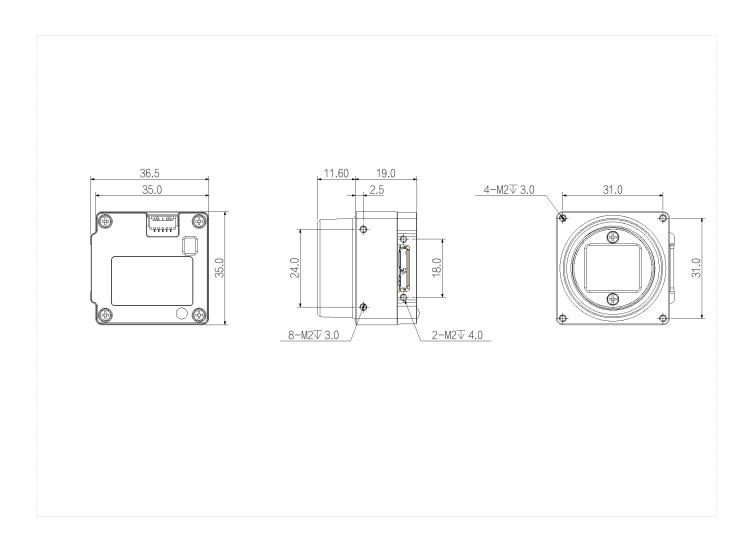
RAYPLE



Features

- USB3.0 interface, 5Gbps theoretical transfer bandwidth,
- Compact design of 35mm*35mm*19mm;
- 128MB 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.;
- Color cameras support interpolation, white balance, color conversion matrix, chroma, saturation, etc.;
- Support multiple image data formats output/ROI/Mirror, etc.;
- Conform to USB3.0 Vision protocol and GenICam standard;
- Conform to CE, FCC, RoHS;

Dimensions (mm)





Specification

	Model	AB3138CU000E
	Sensor	SS
	Image Sensor	1/2.7"CMOS
	Shutter	Global
Б	Resolution	1280 × 1024
Basic	Frame Rate	201 fps
	Bit Depth	10
	Mono/Color	Color
	Pixel Size	4.0 μm × 4.0 μm
	Pixel	1.3 MP
	S/N Ratio	40 dB
	Dynamic Range	60 dB
	Image Format	BayerRG8/BayerGB8/BayerRG10/BayerGB10/BayerRG10Packed/BayerGB10Packed
	ROI	Support
	X Flip	Support
Image	Y Flip	Support
	Gain	1~32
	White Balance	Support
	Gamma	Range from 0 to 4, support LUT
	Exposure Time	10 μs~1 s
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Donformore	User Setting	Support two sets of user-defined configurations
Performance	Image Buffer	64 MB
Port	Port	USB 3.0
	GPIO Interface	Standard 5 pin trigger connecter: 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output
	Lens Mount	C-mount
Dower	Power Supply	Power supply via USB connector
Power	Power Consumption	≈2.8 W
Ctructure	Product Dimensions	35 mm × 35 mm × 19 mm
Structure	Net Weight	68 g
Environment	Storage Temperature	-30°C~+80°C
Environment	Operating Temperature	-30°C~+50°C



Connector Pin-out

Pin	Direction	Description	Features	Auxiliary extension interface
1	1/0	Line 2	GPIO (I/O can be configured for non-isolated software)	6 0 0 5
2		-	GPIO ground (GND)	2 Trigger port
3		-	Opto-isolated signal ground (ISO_GND)	[P 6 6 6 6 6 7]
4	0	Lineo	Opto-isolated output	Train a aliant
5	1	Line1	Opto-isolated input	
Pin	tions of signa Direction	ls: Description	Features	Ausilian contraction interface
Pin		Description		Auxiliary extension interface
Pin 1			An external +5.0 V DC power supply provides auxiliary power for the camera	Auxiliary extension interface
Pin		Description		Auxiliary extension interface
Pin 1		Description +5.0V	An external +5.0 V DC power supply provides auxiliary power for the camera	Auxiliary extension interface
Pin 1	Direction	Description +5.0V	An external +5.0 V DC power supply provides auxiliary power for the camera Power supply ground (GND)	Auxiliary extension interface
Pin 1	Direction	Description +5.0V	An external +5.0 V DC power supply provides auxiliary power for the camera Power supply ground (GND) The camera outputs +3.3 V DC power supply, which provides no more than	6 0 0 5 4 0 0 3 2 0 0 1
Pin 1 2 3	Direction I	Description +5.0V - +3.3V	An external +5.0 V DC power supply provides auxiliary power for the camera Power supply ground (GND) The camera outputs +3.3 V DC power supply, which provides no more than 100 mA power supply for external devices	6 0 0 5 4 0 0 3 2 0 0 1

Spectrogram

