

Board-level Series

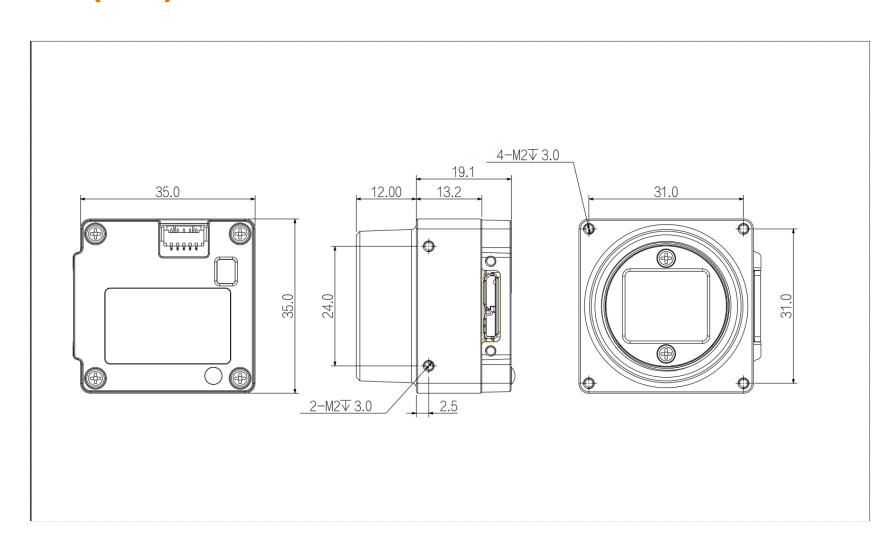
AB3A20MU000E



Features

- USB3.0 interface, 5Gbps theoretical transfer bandwidth, power supply via USB interface;
- 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.;
- Support multiple image data formats output/Binning/ROI/Mirror, etc.;
- Conform to USB3.0 Vision protocol and GenICam standard;
- Conform to CE, FCC, RoHS;

Dimensions (mm)





Specification

Model		AB3A20MU000E
	Sensor	IMX226
	Image Sensor	1/1.7"CMOS
	Shutter	Rolling
.	Resolution	4000 × 3000
Basic	Frame Rate	30 fps
	Bit Depth	10
	Mono/Color	Mono
	Pixel Size	1.85 μm × 1.85 μm
	Pixel	12MP
	S/N Ratio	>38dB
	Dynamic Range	66dB
	Image Format	Mono8/10/10Packed
	Binning	Support
Image	ROI	Support
	Gain	1~32
	Gamma	from 0 to 4, support LUT
	Exposure Time	55µS~1S
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Danfannana	User Setting	Support two sets of user-defined configurations
Performance	Image Buffer	64MB image cache
	Port	USB3.0
Port	GPIO Interface	Standard 5 pin trigger connecter: 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output
	Lens Mount	C-mount
Davis	Power Supply	power supply via USB interface (conform to USB3.0 interface specification)
Power	Power Consumption	≈2.8W
Characteria	Product Dimensions	35mm×35mm×19mm
Structure	Net Weight	46 g
Fundament	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)	6-00-5
2		-	GPIO ground (GND)	2 o o 1 Trigger port
3		-	Opto-isolated signal ground (ISO_GND)	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4	0	Lineo	Opto-isolated output	Talla à alland
5	1	Line1	Opto-isolated input	
efinit Pin	Direction	ls: Description	Features	Auvilianu 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	Direction I	Description +5.0V	An external +5.0 V DC power supply provides auxiliary power for the camera Power supply ground (GND)	Auxiliary extension interface
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Pin 1	Direction I	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

