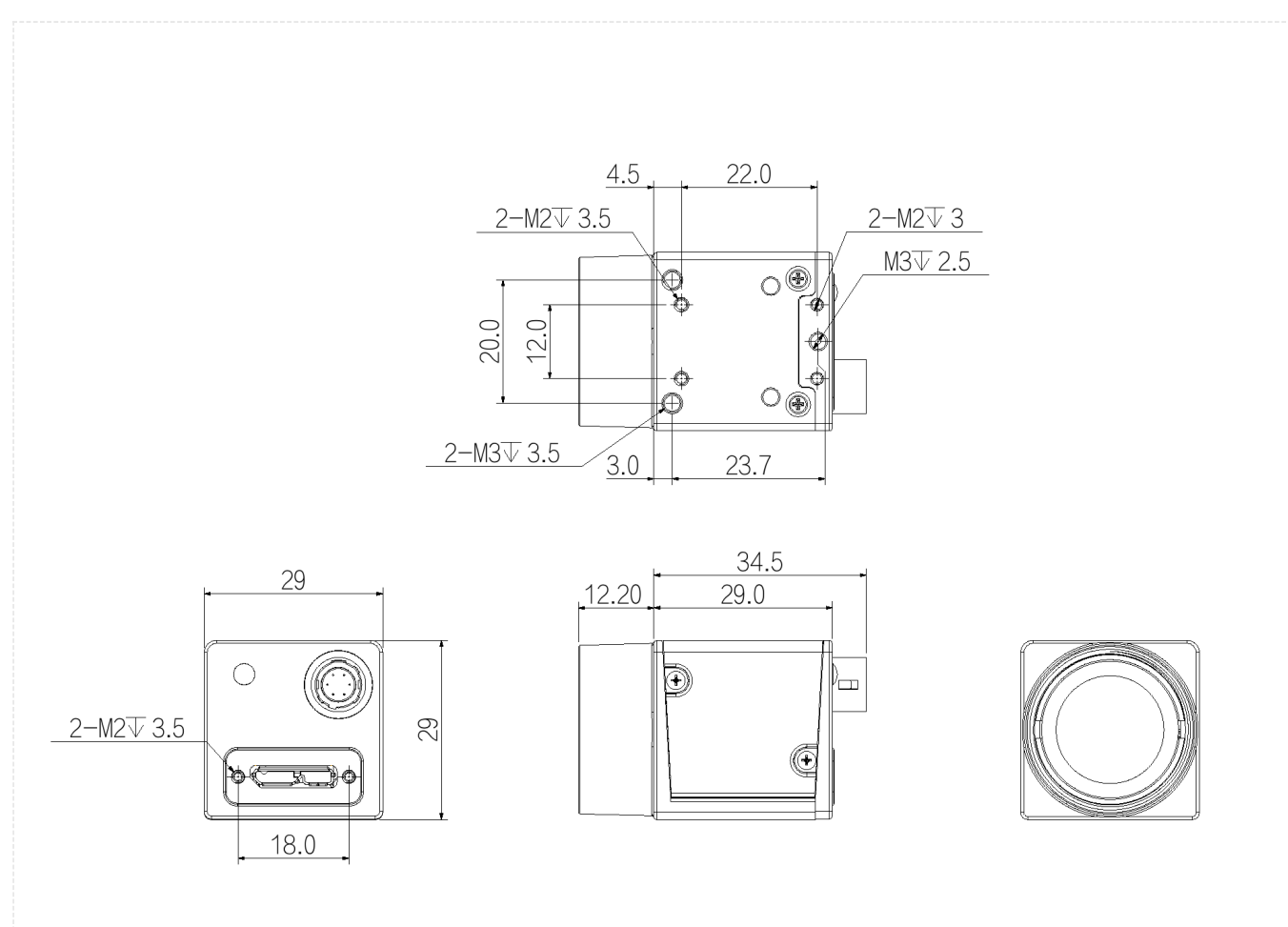# A Series

A3200CU000E

Features

- USB3.0 interface, 5Gbps theoretical transfer bandwidth, power supply via USB interface；
- Compact size of 29mmx29mmx29mm;
- 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. ；
- Compatible with USB3.0 Vision protocol and GenICam standard;
- Comform to CE, FCC, RoHS;

Dimensions (mm)

Specification

	Model	A3200CU000E
Basic	Sensor	IMX290
	Image Sensor	1/2.8"CMOS
	Shutter	Rolling
	Resolution	1920 × 1080
	Frame Rate	120 fps
	Bit Depth	10
	Mono/Color	Color
	Pixel Size	2.9 μm × 2.9 μm
Image	Pixel	2.07MP
	S/N Ratio	>38dB
	Dynamic Range	66dB
	Image Format	BayerRG8/10/10Packed，BayerGB8/10/10Packed
	ROI	Support
	Gain	1~32
	White Balance	Automatic white balance
	Gamma	Range from 0 to 4, support LUT
	Exposure Time	8μS~1S
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Performance	User Setting	Support two sets of user-defined configurations
	Image Buffer	64MB
Port	Port	USB3.0
	GPIO Interface	6 pin Hirose: 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output
	Lens Mount	C
Power	Power Supply	Power supply via USB connector /DC power supply by Hirose connector, with voltage range from 9V to 24V
	Power Consumption	≈2.8W
Structure	Product Dimensions	29mm*29mm*29mm
	Net Weight	68 g
Environment	Storage Temperature	- 30℃~+80℃
	Operating Temperature	- 30℃~+50℃

Connector Pin-out

Definitions of camera 6-pin ports:

Pin	Description	Features
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	Line0	Opto-isolated output
5	-	Opto-isolated signal ground (ISO_GND)
6	-	Camera DC power ground and GPIO signal ground (GND)

Definition of 6-pin power port
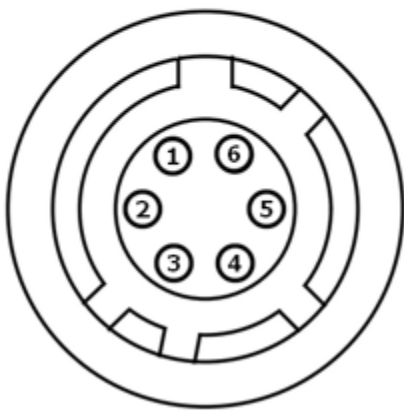
Spectrogram

(Excludes lens characteristics and light source characteristics.)