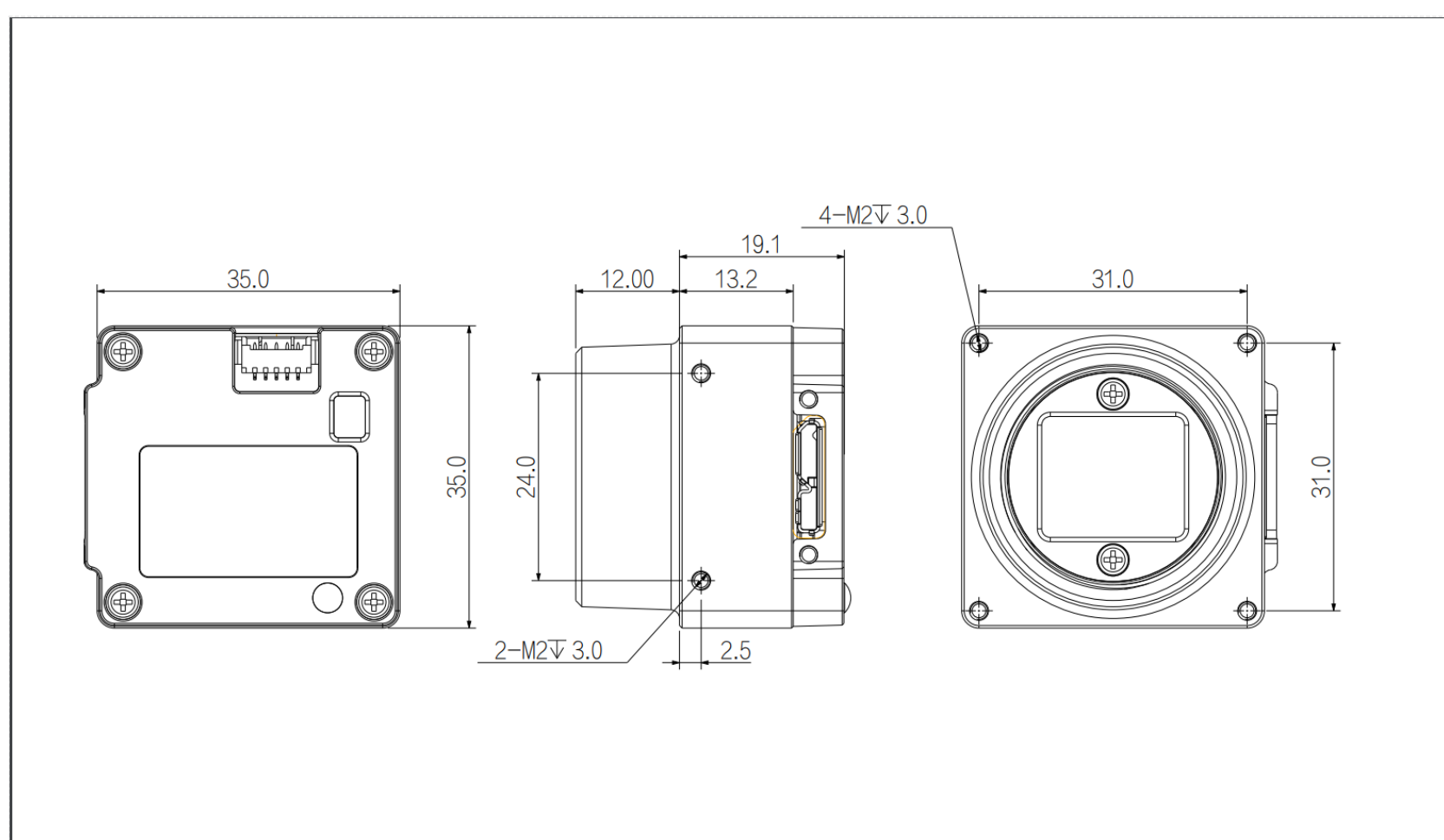# Board-level Series

AB7200MU000E

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 etc.;
- Color cameras support interpolation, white balance, 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		AB7200MU000E
Basic	Sensor	IMX174
	Image Sensor	1/1.2"CMOS
	Shutter	Global
	Resolution	1920 × 1200
	Frame Rate	164 fps
	Bit Depth	10
	Mono/Color	Mono
	Pixel Size	5.86 μm × 5.86 μm
Image	Pixel	2.3MP
	S/N Ratio	>38dB
	Dynamic Range	>70dB
	Image Format	Mono8/10/10Packed
	Binning	Support
	ROI	Support
	X Flip	Support
	Y Flip	Support
	Gain	1~32
	Gamma	Range from 0 to 4, support LUT
	Exposure Time	16μS~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	USB 3.0
	GPIO Interface	5-core white plug interface: 1 optocoupler isolated input, 1 optocoupler isolated output, and 1 configurable input/output without optocoupler isolation
	Lens Mount	C
Power	Power Supply	5.0V/900mA, powered through USB3.0 interface (compliant with USB3.0 interface specifications)
	Power Consumption	≈2.8W
Structure	Product Dimensions	35 mm × 35 mm × 19 mm (not including lens mount and rear case connector)
	Net Weight	68 g
Environment	Storage Temperature	-30℃~+80℃
	Operating Temperature	-30℃~+50℃