

Board-level Series

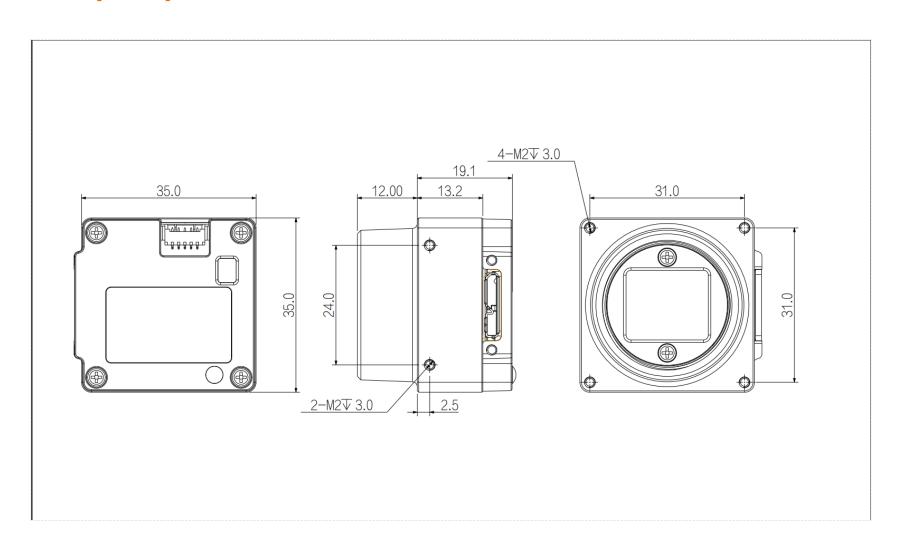
AB3A20MU000E



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 Gamma/LUT/BlackLevel Correction/TargetBrightness/Contrast 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 | |
| - | 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 | |
| Facility | 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 00000 q] |
| 4 | 0 | Lineo | Opto-isolated output | Train a aliant |
| 5 | 1 | Line1 | Opto-isolated input | |
| Pin | tions of signa Direction | ls: Description | Features | Auvilianu extension 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 |
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| 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

