Board-level Series

AB3600CU000E



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.;
- Color cameras support interpolation, white balance, color conversion matrix, chroma, saturation, etc.;
- Conform to USB3.0 Vision protocol and GenICam standard;
- Conform to CE, FCC, RoHS;

I Dimensions (mm)



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Specification

Model		AB3600CU000E
	Sensor	IMX178
	Image Sensor	1/1.8"CMOS
	Shutter	Rolling
Durin	Resolution	3072 × 2048
Basic	Frame Rate	60 fps
	Bit Depth	10
	Mono/Color	Color
	Pixel Size	2.4 μm × 2.4 μm
	Pixel	6.2MP
	S/N Ratio	>38dB
	Dynamic Range	66dB
	Image Format	BayerRG8/10/10Packed, BayerGB8/10/10Packed
	ROI	Support
Image	Gain	1~32
	White Balance	Automatic white balance
	Gamma	from 0 to 4, support LUT
	Exposure Time	11µS~1S
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Performance	User Setting	Support two sets of user-defined configurations
Periormance	Image Buffer	64MB
	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
Damar	Power Supply	power supply via USB interface (conform to USB3.0 interface specification)
Power	Power Consumption	≈2.8W
Ctrusture	Product Dimensions	35mm×35mm×19mm
Structure	Net Weight	46 g
Environment	Storage Temperature	- 30°C~+80°C
Environment	Operating Temperature	- 30°C~+50°C

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Connector Pin-out

Pin	Direction	Description	Features
1	I/O	Line 2	GPIO (I/O can be configured for non-isolated software)
2		-	GPIO ground (GND)
3		-	Opto-isolated signal ground (ISO_GND)
4	0	Lineo	Opto-isolated output
5	1	Line1	Opto-isolated input



Definitions of signals:

Pin	Direction	Description	Features
1	1	+5.0V	An external +5.0 V DC power supply provides auxiliary power for the camera
2		-	Power supply ground (GND)
3	0	+3.3V	The camera outputs +3.3 V DC power supply, which provides no more than
			100 mA power supply for external devices
4	I/O	GPIO ₂	Reserved GPIO
5	I/O	GPIO3	Reserved GPIO
6		-	Signal ground (GND)



Spectrogram



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