

A Pro Series

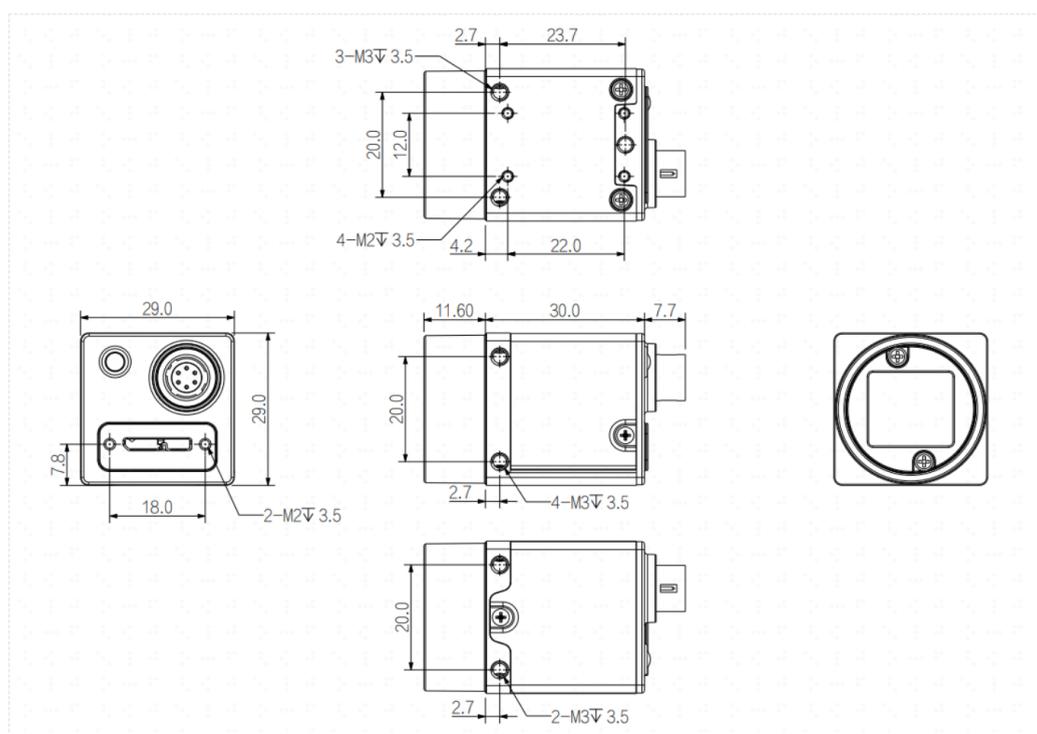
AH7500CU000E



Features

- USB3.0 interface, 5Gbps theoretical transfer bandwidth, power supply via USB interface ;
- Compact size of 29mmx29mmx30mm;
- 256MB 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,FFC,Denoising Sharpness,BalanceWhite,CCM,ColorAdjustment,Multi-color temperature adjustment, multi-function interpolation adjustment etc.;
- Support multiple image data formats output,ROI,Binning(Including Pixel arbitrary scaling),Mirror, AutoFunction,Sequencer (Gain、 Exposure) etc.;
- Compatible with USB3.0 Vision protocol and GenICam standard;
- Conform to CE/UKCA/UL/KC,RoHS;

Dimensions (mm)



Specification

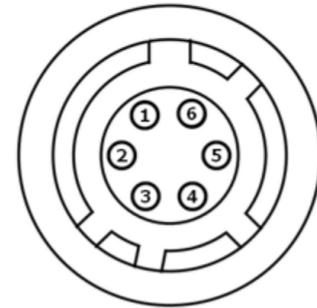
	Model	AH7500CU000E
Basic	Sensor	IMX264
	Image Sensor	2/3"CMOS
	Shutter	Global
	Resolution	2448x2048
	Frame Rate	68.2 fps @2448x2048 Bayer RG 8
	Bit Depth	12
	Mono/Color	Color
	Pixel Size	3.45 μm \times 3.45 μm
Image	Pixel	5.0 MP
	S/N Ratio	40 dB
	Dynamic Range	73 dB
	Image Format	Mono 8/10/12, Bayer RG 8/10/10Packed/12/12Packed,YUV422_8_UYVY,YUV422_8,RGB8,BGR8
	Binning	off/onebytwo/twobyone/twobytwo/onebyfour/fourbyone/twobyfour/fourbytwo/fourbyfour/ThreebyThree
	ROI	Support
	Gain	1 ~ 32X
	Gamma	From 0 to 3.99998, support LUT
	Exposure Time	SE: 1 μs ~ 14 μs UE: 15 μs ~ 10 sec
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Performance	User Setting	Support three sets of user-defined configurations
	Image Buffer	256MB
Port	Port	USB 3.0
	GPIO Interface	1 \times 6 pin Hirose: 1 \times Opto-isolated input, 1 \times Opto-isolated output, 1 configurable input and output
	Lens Mount	C-mount
Power	Power Supply	Power supply via USB connector /DC power supply by Hirose connector, with voltage range from 9V to 24V
	Power Consumption	\approx 3.2W(USB3.0 provide power supply)
Structure	Product Dimensions	29 mm \times 29 mm \times 30 mm (not including lens mount and rear case connector)
	Net Weight	Approx 85g
Environment	Storage Temperature	-30 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$
	Operating Temperature	-30 $^{\circ}\text{C}$ ~+50 $^{\circ}\text{C}$

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	Lineo	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

