A Pro Series

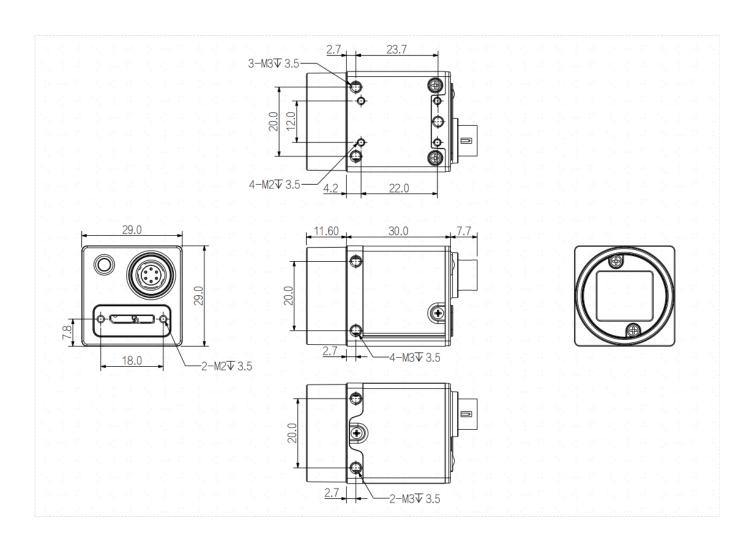
AH7160MU000E



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, Target Brightness, Contrast, FFC, Denoising Sharpness 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		AH7160MU000E	
Sensor		IMX273	
	Image Sensor	1/2.9"CMOS	
	Shutter	Global	
	Resolution	1440 × 1080	
Basic	Frame Rate	249 fps @1440 × 1080 Mono 8	
	Bit Depth	12	
	Mono/Color	Mono	
	Pixel Size	3.45 μm ×3.45 μm	
	Pixel	1.6 MP	
	S/N Ratio	43 dB	
	Dynamic Range	73 dB	
	Image Format	Mono8/10/10Packed/Mono12/Mono12Packed	
	Binning	off/onebytwo/twobyone/twobytwo/onebyfour/fourbyone/twobyfour/fourbytwo/fourbyfour/ThreebyThree	
	ROI	Support	
Image	X Flip	Support	
	Y Flip	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	
Doutoussana	User Setting	Support three sets of user-defined configurations	
Performance	Image Buffer	256MB	
	Port	USB 3.0	
Port	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	≈2.7W(USB3.0 provide power supply)	
Ctronatoria	Product Dimensions	29 mm×29 mm×30 mm (not including lens mount and rear case connector)	
Structure	Net Weight	Approx 85g	
Francisco de la constanta de l	Storage Temperature	-30°C ~ +80°C	
Environment	Operating Temperature	-30°C ~ +50°C	





Connector Pin-out

Pin	Description	Features	Definition of 6-pin power port
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)	

Spectrogram

