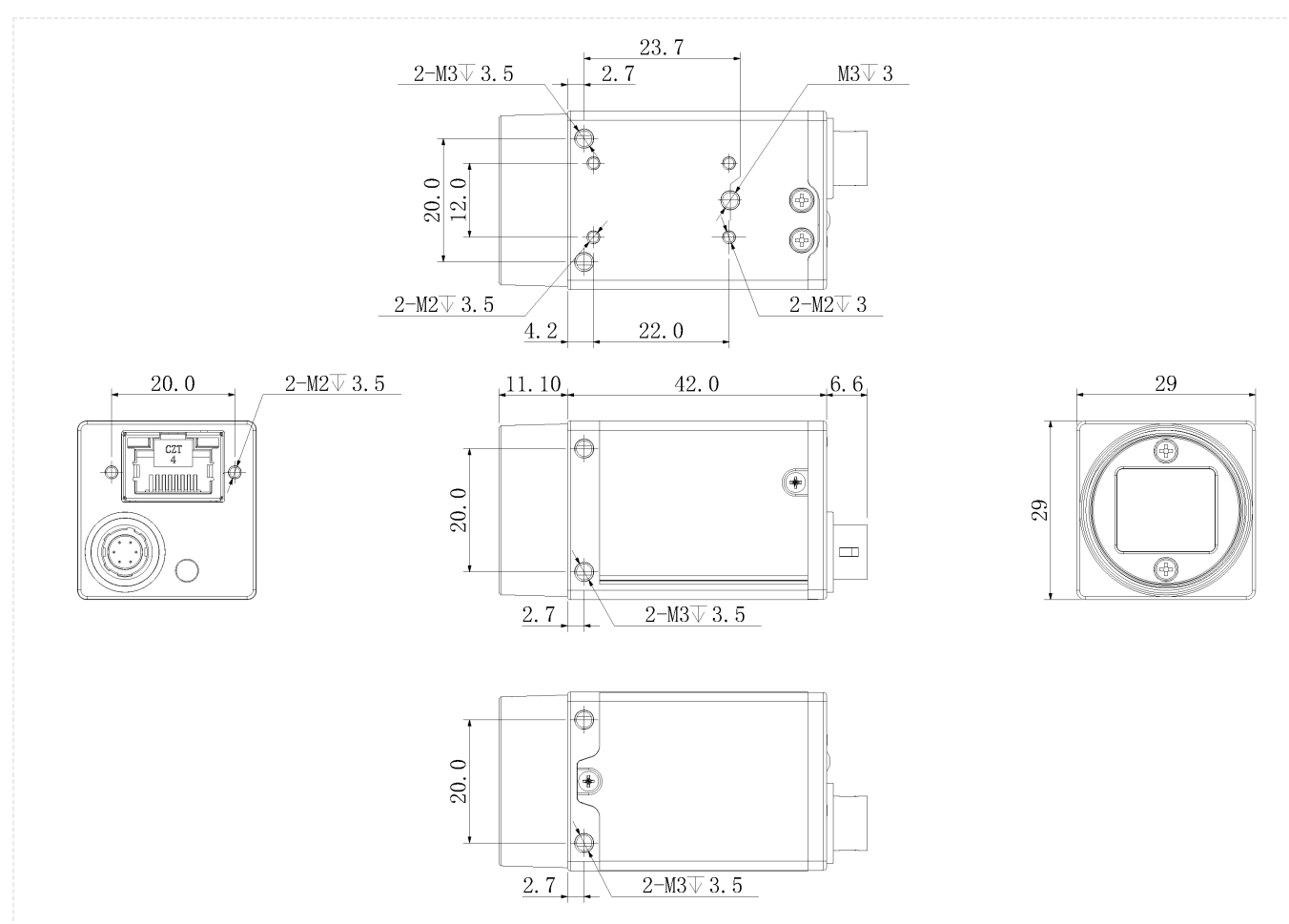# 7000 Series

A7A20MG400E

Features

● Gigabit Ethernet interface, providing 1Gbps bandwidth with a maximum transmission distance of 100m;

● 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/Contrast etc.;

● Support multiple image data formats output/ROI/Binning/Mirror, etc.;

● Conform to GigE Vision V2.0 protocol and GenICam standard;

● Support PoE power supply, DC 6V~26V wide voltage power supply;

● Conform to CE, FCC, UL, RoHS;

Dimensions (mm)

Specification

Model		A7A20MG400E
Basic	Sensor	IMX304
	Image Sensor	1.1''CMOS
	Shutter	Global
	Resolution	4096 × 3000
	Frame Rate	9 fps
	Bit Depth	12
	Mono/Color	Mono
	Pixel Size	3.45 μm × 3.45 μm
Image	Pixel	12MP
	S/N Ratio	>38dB
	WDR	>70dB
	Image Format	Mono8/10/10Packed/12/12Packed
	Binning	Support
	ROI	Support
	X Flip	Support
	Y Flip	Support
	Gain	1~32
	Gamma	From 0 to 4, support LUT
	Exposure Time	48μS~1S
	Trigger Mode	Software Trigger/Hardware Trigger/Free Run Mode
	SPC	Support
Performance	User Setting	Support two sets of user-defined configurations
	Image Buffer	128MB
Port	Port	GigE,PoE
	GPIO Interface	1x 6 pin Hirose: 1x Opto-isolated input, 1x Opto-isolated output
	Lens Mount	C-mount
Power	Power Supply	PoE Power Supply/ DC 6V~26V power supply via Hirose interface
	Power Consumption	12V≈3.2W
Structure	Product Dimensions	29mm*29mm*42mm (not including lens mount and rear case connector)
	Net Weight	100 g
Environment	Storage Temperature	- 30℃~+80℃
	Operating Temperature	- 30℃~+50℃

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	Line0	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