SS4000 Series

SS4013MG-12M-RGG01E

Features

● ● High-performance AI processing chips with multi-core parallel processing capabilities to realize complex image processing;

● ● Built-in rich algorithm tools for object positioning, feature recognition, defect inspection, edge learning-based classification, and more;

● ● Compact design with rotatable rear connectors, suitable for narrow spaces;

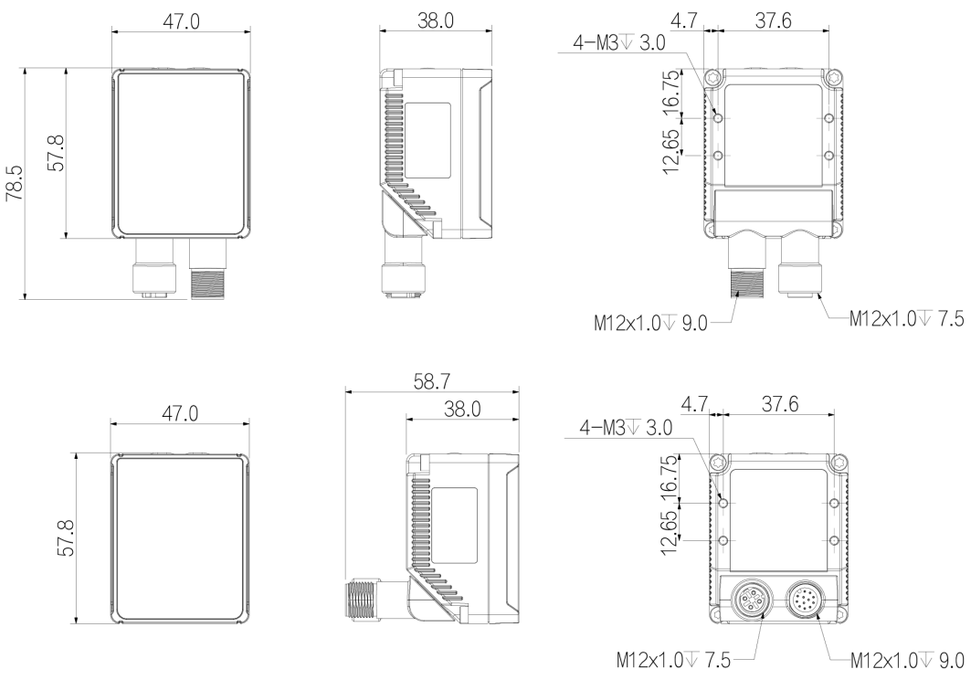
● ● Integrated design with built-in auto focus lens and multiple type multiple channel light sources, with super environmental adaptability;

● ● Powerful image processing algorithms with simple and efficient one-click configuration;

● ● Cross-platform Web access and guided configuration process, flexible for tuning and deployment;

● ● Abundant IO interfaces such as Ethernet, RS232, and GPIO, support multiple communication protocols.

Dimensions (mm)



Specification

Model		SS4013MG-12M-RGG01E
Basic	Resolution	1280 × 1024
	Max. Frame rate	60 fps
	Shutter Mode	Global
	Mono/Color	Mono
	Lens Mount	M12, auto focus
	Trigger Mode	Internal Trigger/External Trigger/Ethernet/Serial/Industrial Ethernet.
	Software	EasyVS, Web
	Certifications	CE、KC
	Function	Location Tools: PatternMatch AI Tools: AI classification Exist Tools: FindLine; FindCircle; BlobExist Count Tools: BlobCount Measure Tools: Grayscale area; Contrast; Brightness; EdgeWidthTool Detection Tools: ContourCompare Recognition Tools: DataCode; BarCode; OCR Logic Tools: LogicCheck; ConditionCheck; Mathematical; StringComparison
	Focal Length	12 mm
	Light Source Type	Red (White & Blue options) , 1-channel diffused and 1-channel polarized and 1-channel transparent light
	Focus Control	Auto focus
Performance	Working Distance	50-500mm
	Field of View (FOV)	64×51 mm @150mm
Port	Connector	2 industrial M12 connectors, Ethernet and GPIO
	Network Port	100M Ethernet
	GPIO Interface	RS232, 2 Opto-isolated inputs, 3 Opto-isolated outputs
	Communication Mode	RS232, Ethernet
	Communication protocol	Location Tools: PatternMatch AI Tools: AI classification Exist Tools: FindLine; FindCircle; BlobExist Count Tools: BlobCount Measure Tools: Grayscale area; Contrast; Brightness; EdgeWidthTool Detection Tools: ContourCompare Recognition Tools: DataCode; BarCode; OCR Logic Tools: LogicCheck; ConditionCheck; Mathematical; StringComparison
	LED Indicator	Power, Ethernet, Result
Power	Power Supply	Support 9~26VDC, 1.5A input
	Power Consumption	<14W
Structure	Product Dimensions	47mm×58mm×38mm (excluding connectors)
	Net Weight	<180 g
	Protection	IP65
	Casing Material	Aluminum alloy (excluding front cover)
Environment	Operating Temperature	-20℃ ~ +50℃
	Operating Humidity	20% ~ 95%, non-condensing
	Storage Temperature	-30℃ ~ +70℃

Connector Pin-out

12 pin-out on camera:

Pin	Signal	Description	Cable Color	
1	OPT_OUT2	Opto-isolated output2		Brown white
2	RS232_TXD	RS232 serial send		Grey
3	RS232_RXD	RS232 serial receive		Purple
4	SIGNAL_GND	RS232 serial GND		Black white
5	OPT_IN1	Opto-isolated input1		Yellow
6	OPT_IN_GND	Opto-isolated input GND		Purple white
7	POWER	Power		Red
8	POWER_GND	Power GND		Black
9	OPT_OUT_GND	Opto-isolated output GND		Green
10	OPT_IN0	Opto-isolated input0		Orange
11	OPT_OUT0	Opto-isolated output0		Blue
12	OPT_OUT1	Opto-isolated output1		Brown
-	-	Shield GND		White

12-pin assignment on camera