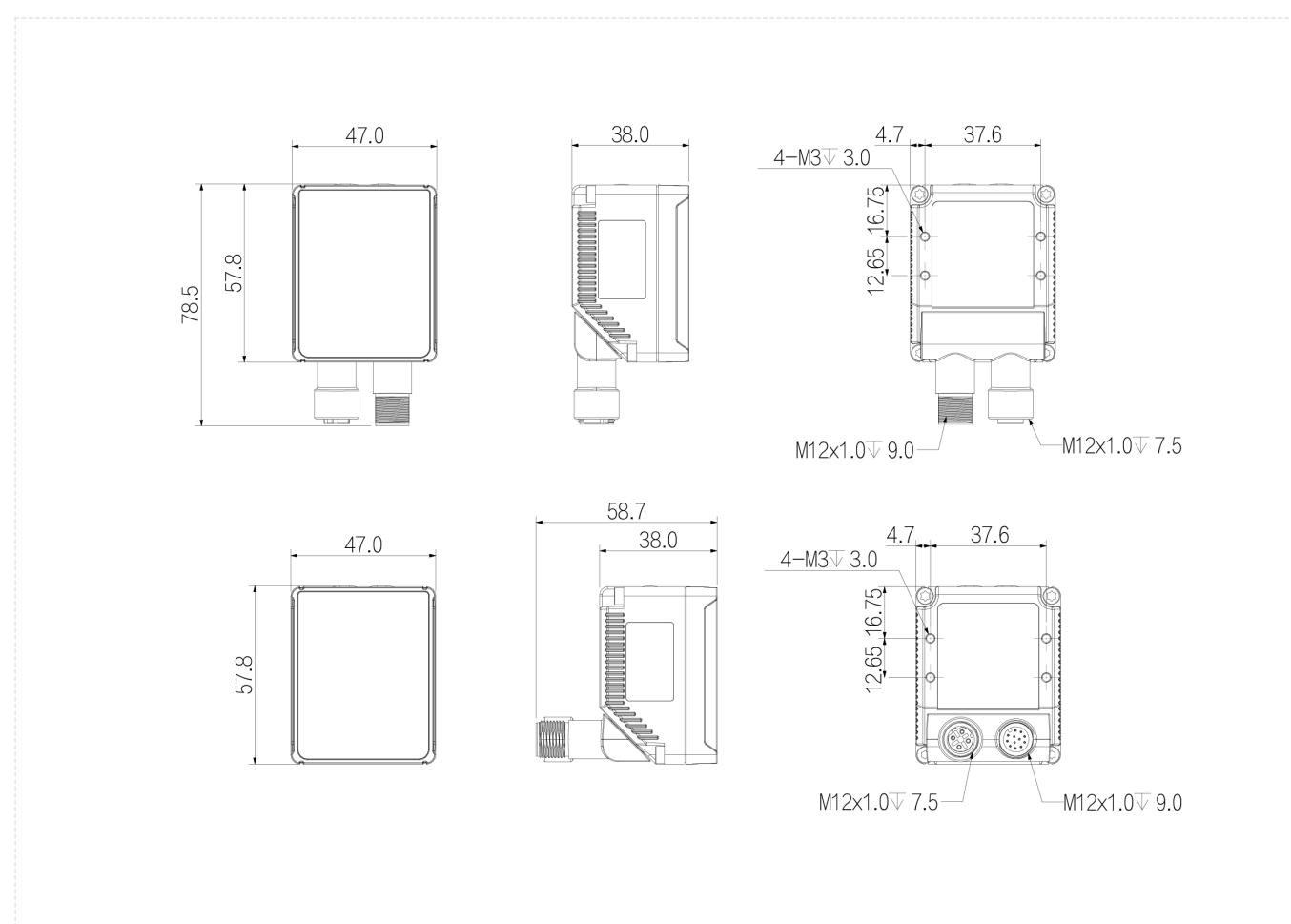# SS4000 Series

SS4013CG-12M-WGG01E

Features

- Web based operation, flexible for debugging and deployment;
- AI enabled classification tool, ease to use;
- Integrated 1 dimensional and 2 dimensional code reading;
- Built in pattern match tool to realize presence/absence, front/back, counting and other inspection tools;
- Various GPIO interface, support numerous communication protocols;
- Auto focus, one click auto-focusing;
- IP65 protection level;

Dimensions (mm)

Specification

Model	SS4013CG-12M-WGG01E
Basic	Resolution	1280 × 1024
	Max. Frame rate	60fps
	Shutter Mode	Global
	Mono/Color	Color
	Lens Mount	M12, auto focus
	Trigger Mode	Software/external/free run etc.
	Software	EasyVS, Web
	Certifications	CE, UKCA, 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; ColorRecog Logic Tools: LogicCheck; ConditionCheck; Mathematical; StringComparison
	Focal Length	12 mm
	Light Source Type	White, 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	TCP Client, TCP Server, UDP, FTP, RS232, Profinet; Modbus TCP; EtherNet/IP
	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