SMART VISION SENSOR

AMS2e Series

INTRODUCTION

AMS2e Series, smart vision sensor integrates full fuctions of a vision system: lighting, acquisition, processing, and communication in minimal fuselage. Bring new choices for decision making / verifications with excellent performance in error-proofing detection scenarios
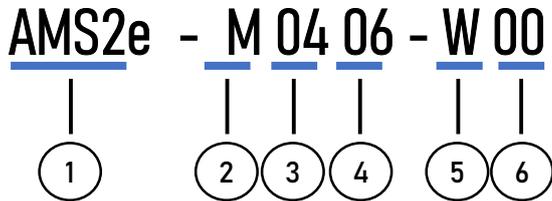
Embedded hardware platform for high-speed image proessing, Multiple IOs and indicators, Built-in vision functions such as positioning, measurement, existence, count.

Support multiple communication protocols, including Serial, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP
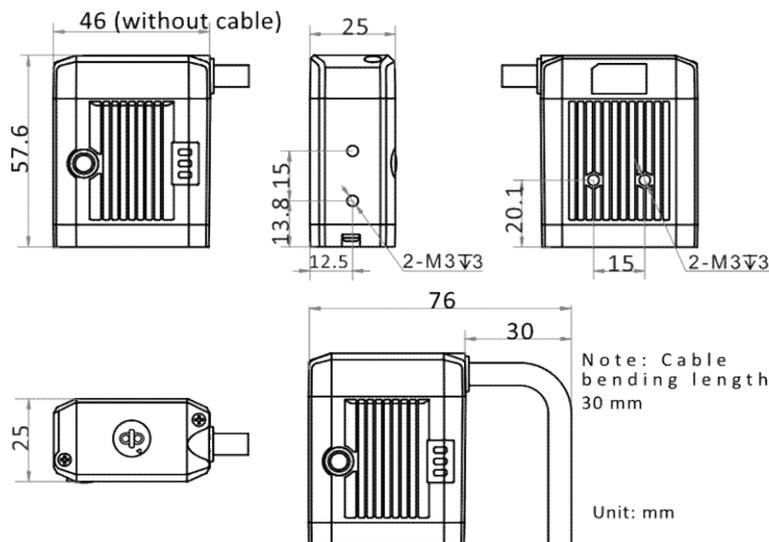
AVAILABLE MODELS

AMS2e - M 04 06 - W 00

①	PRODUCT SERIES	AMS2e = AMS2e Smart Vision Sensor Series
②	MONO / COLOR	M = Mono, C = Color
③	SENSOR RESOLUTION	04 = 0.4MP, 16 = 1.6MP
④	LENS FOCAL LENGTH	08 = 8mm, 12 = 12mm, 15 = 15mm
⑤	BUILT-IN LED LIGHT	W = White
⑥	REMARK	00 = General Model

DIMENSION

Note: Cable bending length 30 mm

Unit: mm

Sensor Characteristic	
Sensor type	CMOS, Global shutter
Pixel size	3.45 µm x 3.45 µm
Sensor size	1/2.9"
Resolution	1,408 x 1,024 pixels
Max frame rate	60 fps
Dynamic range	71.4 dB
SNR	41 dB
Gain	0 dB to 15 dB
Exposure time	16 µs to 1 s
Electrical Information	
Data interface	17-pin, M12 connector for Power, Ethernet, Digital I/O, and Serial Port
Ethernet	Fast Ethernet
Digital I/O	Bi-directional I/O x 2 (Line 0/1), Input signal x 1 (Line 2), Output signal x 1 (Line 3), Device trigger via pressing button supported
Power requirement	12 - 24 VDC
Power consumption	Approx. 22W @ 24VDC
Mechanical Information	
Lens Mount	M12-mount (Manual focus adjusting)
Focal Length	8mm / 12.4mm / 14.8mm (selectable)
Lens cap	Transparent cap
Light source	White LED
Indicator	Power indicator (PWR), network indicator (LNK), status indicator (STS), result indicator (OK/NG)
Dimension	46mm x 57.6mm x 25mm (1.8" x 2.3" x 1.0")
Weight	Approx 220 g.
Ingress Protection	IP65 (under proper installation of lens and wiring
Temperature	Working Temp: 0 °C to 50 °C Storage Temp: -30 °C to 70 °C
Humidity	20% to 95% RH, non-condensing
Others	
Client software	SCMVS
Certification	CE, FCC, KC
Software	
Vision Tool	Existence: Pattern existence, Spot existence Count: Pattern count, Spot count Measurement: Brightness average value, contrast measurement, color size Recognition: Color contrast
Solution capacity	Support up to 32 solutions and 40 models
Communication protocol	Serial Port, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP