SMART VISION CAMERA

AMS5x Series
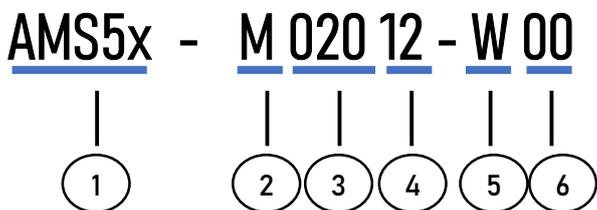
INTRODUCTION

AMS5x Series, is developed based on high-performance embedded platform with strong calculation performance. It integrates VM functions and AI deep learning algorithm, and can use more than 140 algorithms. It adopts multiple interfaces for supporting external light source, display, mouse, etc.
 - Adopts AI deep learning algorithm to achieve OCR, object recognition, defect recognition, etc.
 - Integrated Vision Master software
 - Adopts multiple I/O interfaces
 - Supports multiple communication protools
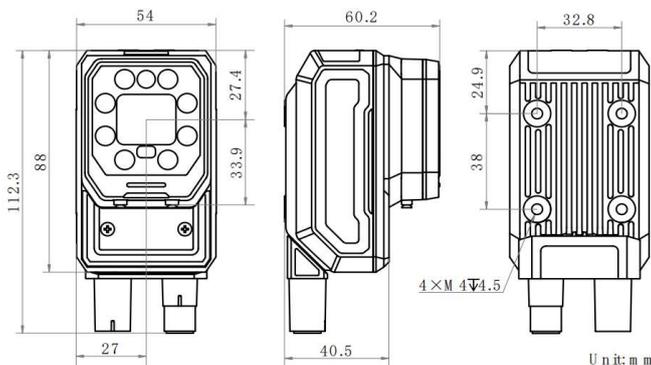 - Can connect display and mouse/keyboard for easy test
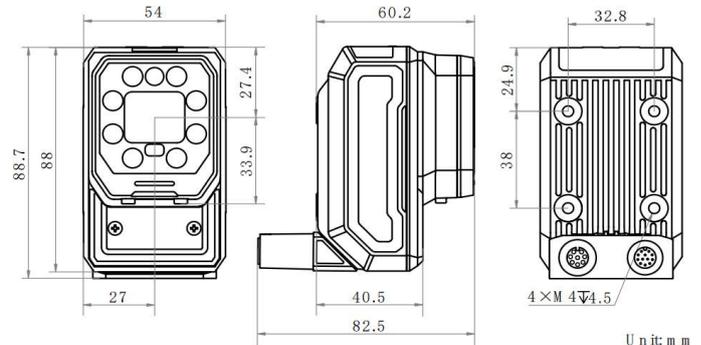
CE KC

AVAILABLE MODELS

AMS5x - M 020 12 - W 00

①	PRODUCT SERIES	AMS5x = AMS5x Smart Camera Series
②	MONO / COLOR	M = Mono, C = Color
③	SENSOR RESOLUTION	020 = 2.0MP, 050 = 5.0MP, 120 = 12MP
④	LENS MOUNT	06 = 6mm, 08 = 8mm, 12 = 12mm, 16 = 16mm
⑤	BUILT-IN LED LIGHT	W = White, B = Blue, R = Red, IR = Infrared
⑥	REMARK	00 = General Model

DIMENSION

Straight Angle

Right Angle

Unit: mm

Sensor Characteristic	
Sensor type	CMOS, Global shutter
Pixel size	3.45 µm x 3.45 µm
Sensor size	1.253" (2MP), 1/1.45" (5MP)
Resolution	1600 x 1216 (2MP), 2432 x 2048 (5MP)
Max frame rate	100 fps (2MP), 60 fps (5MP)
Mono/Color	Mono/Color are available
Gain	0 dB - 37 dB
Exposure time	15 - 3000 us
Electrical Information	
Data interface	12-pin, M12 connector for Power and I/O
Ethernet	Gigabit Ethernet (1000 Mbps)
Digital I/O	Opto-isolated input × 3 (Line 0/1/2), Opto-isolated output × 3 (Line 3/4/5), RS-232 x 1
Power requirement	24 VDC
Power consumption	Approx. 12.3W @ 24VDC / Max 48W @ 24VDC (with light source on)
Mechanical Information	
Lens Mount	M12-mount, mechanical focus
Lens cap	Half polarization lens cap (Default), Transparent, full polarization, diffused lens cap (Optional)
Light source	White LED (Default), Red/Blue/IR (Optional)
Indicator	PWR, LNK, User1, User2
Dimension	112.3 mm x 54 mm x 60.2 mm
Weight	Approx 370 g.
Ingress Protection	IP67 (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	Vision Master (VM) Platform
Memory / Storage	8GB / 64GB
Certification	CE, KC
Software	
Vision Tool	Based on Vision Master modules
Communication protocol	Serial, TCP, UDP, FTP, Profinet, Ethernet/IP, FINS, etc.