

# SMART VISION CAMERA

## AMS6 Series



### INTRODUCTION

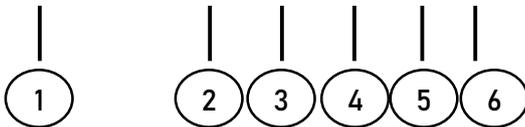
AMS6 Series, is developed based on high-performance embedded platform with strong calculation performance. It integrates VM functions and AI deep learning algorithm, and can use more than 140 algorithms. It adopts multiple interfaces for supporting external light source, display, mouse, etc.

- Adopts AI deeplearning algorithm to achieve OCR, object recognition, defect recognition, etc.
- Integrated Vision Master software
- High-performance CPU for faster and better performance
- Supports multiple communication protocols
- Can connect display and mouse/keyboard for easy test



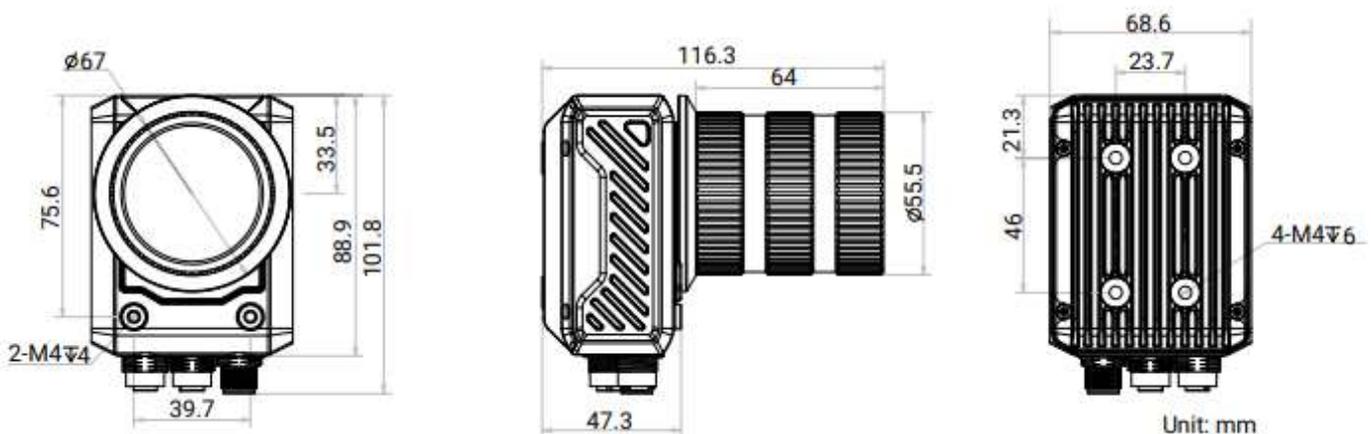
### AVAILABLE MODELS

**AMS6 - M016C - N00**



|   |                    |                                      |
|---|--------------------|--------------------------------------|
| 1 | PRODUCT SERIES     | AMS6 = AMS6 Smart Camera Series      |
| 2 | MONO / COLOR       | M= Mono, C= Color                    |
| 3 | SENSOR RESOLUTION  | 016 = 1.6MP, 050 = 5.0MP, 250 = 25MP |
| 4 | LENS MOUNT         | C = C-Mount                          |
| 5 | BUILT-IN LED LIGHT | N = Not provided                     |
| 6 | REMARK             | 00 = General Model                   |

### DIMENSION



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## SPECIFICATION

| Sensor Characteristic  |   |
|------------------------|---|
| Sensor type            | CMOS, Global shutter  |
| Pixel size             | 3.45 $\mu\text{m}$ x 3.45 $\mu\text{m}$ (1.6MP), 3.2 $\mu\text{m}$ x 3.2 $\mu\text{m}$ (5MP), 2.5 $\mu\text{m}$ x 2.5 $\mu\text{m}$ (25MP)              |
| Sensor size            | 1/2.9" (1.6MP), 1/1.7" (5MP), 1.1" (25MP)   |
| Resolution             | 1408 x 1024 pixel (1.6MP), 2560 x 2048 (5MP), 5120 x 5120 (25MP)  |
| Max frame rate         | 60 fps (1.6MP), 40 fps (5MP), 15 fps (25MP)   |
| Mono/Color             | Mono/Color (1.6MP, 5MP), Mono only (25MP)   |
| Gain                   | 0 - 15 dB (1.6MP), 0 - 18 dB (5MP), 10 - 25 dB (25MP)   |
| Exposure time          | 16 $\mu\text{s}$ to 1 s   |
| Electrical Information |   |
| Data interface         | 17-pin, M12 connector for Power, Ethernet, Digital I/O, and Serial Port<br>17-pin, M12 connector for VGA x 1 + USB host x 1                             |
| Ethernet               | Fast Ethernet   |
| Digital I/O            | Opto-isolated input x 2 (Line 0/1), Opto-isolated output x 2 (Line 4/5),<br>configurable non-isolated input/output x 2 (Line 2/3), RS-232, light source |
| Power requirement      | 24 VDC  |
| Power consumption      | Approx. 12W-13.3W @ 24VDC (Without external light source)   |
| Mechanical Information |   |
| Lens Mount             | C-Mount (Lens sold separately)  |
| Lens cap               | Transparent cap   |
| Light source           | Not included  |
| Indicator              | PWR, LNK, STS, User1, User2   |
| Dimension              | 116.3 mm x 68.6 mm x 101.8 mm   |
| Weight                 | Approx 530 g.   |
| Ingress Protection     | IP67 (under proper installation of lens and wiring)   |
| Temperature            | Working Temp: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$<br>Storage Temp: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$                            |
| Humidity               | 20% to 95% RH, non-condensing   |
| Others                 |   |
| Client software        | Vision Master (VM) Platform   |
| Memory / Storage       | 8GB / 64GB (1.6MP, 5MP), 16GB / 64GB (25MP)   |
| Certification          | CE, KC  |
| Software               |   |
| Vision Tool            | Based on Vision Master modules  |
| Communication protocol | Serial, TCP, UDP, FTP, Profinet, Ethernet/IP, FINS, etc.  |