MV-SC7060M

6.0 MP Smart Camera

Introduction

With built-in vision tools of deep learning, MV-SC7060M smart camera can achieve character and object recognition, object sorting, and other functions. With mechanical autofocus lens, the smart camera can meet different scenario demands. It can be monitored and operated via the web based interface, and it supports multiple result output methods, and customized result text output.

Key Feature

- Built-in vision tools of deep learning to achieve character and object recognition, object sorting, etc.
- Supports semi-automatic focus to get clearer images.
- Adopts high speed and large capacity memory medium for saving images.
- Supports multiple communication protocols, including TCP, UDP, Serial, FTP, Modbus, etc.
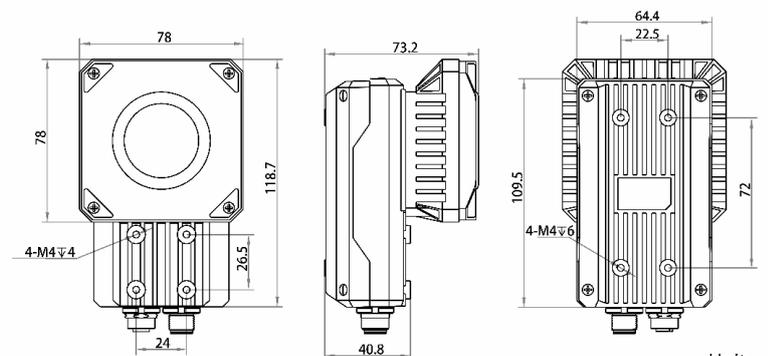- Supports indicators displaying device status.

Available Model

12 mm focal length smart camera:
MV-SC7060M-12S-WBN

Applicable Industry

Consumer electronics, food and beverage, pharmaceutical, automobile, etc.
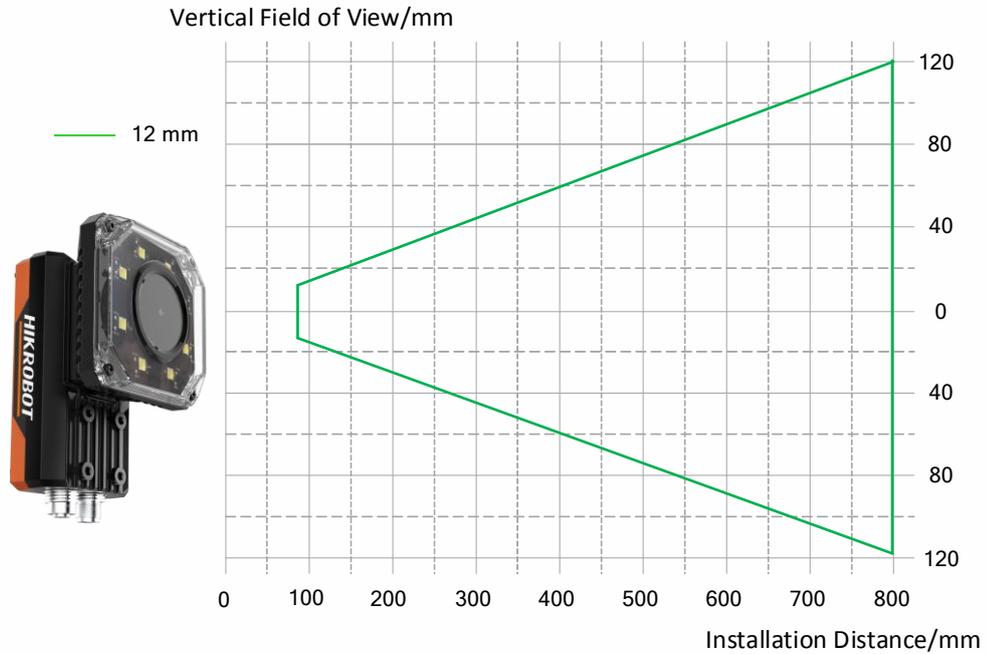
Dimension

Unit: mm

Specification

Model	MV-SC7060M-12S-WBN
Tool	
Vision tool	Feature matching, fixture, blob, deep learning character recognition, deep learning character location, deep learning classification, deep learning object detection, etc.
Solution capacity	Supports solution importing and exporting, up to 32 solutions and 40 modules can be stored.
Communication protocol	TCP, UDP, serial port, IO, Modbus, PROFINET, Ethernet/IP, and FTP.
Camera	
Sensor type	CMOS, rolling shutter
Pixel size	2.4 μm × 2.4 μm
Sensor size	1/1.8"
Resolution	3072 × 2048
Max. frame rate	30 fps
Dynamic range	71.3 dB
SNR	41.3 dB
Gain	0 dB to 15 dB
Exposure time	16 μs to 1 sec
Pixel format	Mono 8
Mono/color	Mono
Platform	
Memory	4 GB
Storage	32 GB
Electrical feature	
Data interface	Gigabit Ethernet interface
Digital I/O	12-pin M12 connector provides power and I/O, including opto-isolated input (Line 0/1/2) × 3, opto-isolated output (Line 3/4/5) × 3, and RS-232 × 1
Power supply	12 VDC to 24 VDC
Power consumption	Approx. 7.5 W@24 VDC (light source is disabled) Approx. 18 W@24 VDC (light source is enabled)
Mechanical	
Lens mount	M12-mount, semi-automatic focus supported
Focal length	12 mm (0.5")
Lens cap	Transparent lens cap. Polarization lens cap is optional.
Light source	White light. Red, blue, or NIR light is optional.
Indicator	Power indicator (PWR), network indicator (LNK/ACT), and user-defined indicator (U1/U2).
Dimension	118.7 mm × 78 mm × 73.2 mm (4.7" × 3.1" × 2.9")
Weight	Approx. 520 g (1.1 lb.)
Ingress protection	IP67 (under proper installation of waterproof lens cap)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	20% to 95% RH, non-condensing
General	
Client software	Via web based interface
Certification	CE, FCC, KC

Detection Range

Lens focal length	Installation distance	Field of view	Single pixel accuracy
12 mm (0.5")	80 mm (3.1")	49.2 mm × 32.8 mm (1.9" × 1.3")	0.016 mm
	1000 mm (39.3")	615 mm × 410 mm (24.2" × 16.1")	0.2 mm

Vertical Field of View/mm

— 12 mm

120
80
40
0
40
80
120

0 100 200 300 400 500 600 700 800

Installation Distance/mm