

SC / SC(E) smart camera (X86 platform)

LS-MV-SCE series · Smart cameras · 17 models

SC/SC(E) is a smart camera series based on an X86 platform (vision software not included; SDK provided for image capture), with 0.3 to 20 megapixels. Standard Windows and Linux operating systems are built in, applications can be copied to and run inside the camera, and mouse, keyboard and monitor can be connected with no external computer, suiting single-workstation inspection such as code scanning, measurement, product recognition and positioning on the assembly line.



Features

- SC: CPU Intel Atom Z8350 (1.44-1.92GHZ), 2G/32G or 4G/64G (memory/disk)
- SC(E): CPU Intel N4120 (1.1-2.6GHZ), 4G/32G or 4G/64G (memory/disk)
- HDMI x1 display supports 1920 x 1080 resolution, Ethernet 1000M x1, supports GigE Vision cameras
- SC: external USB 2.0 x2 ports; ITAE: USB2.0 x1, USB3.0 x1, trigger x1, flash x1, RS232 x1
- M12 12-core threaded aviation connector, 12V/2A power input
- One input and two output interfaces with settable output delay, no processing needed in the program
- Supports Windows 10 64bit and Ubuntu 16.04 64bit
- Built-in USB 2.0 interface for a dongle, easy to remove
- Integrated light source controller, optional LED lighting component, strobe synchronization
- Low heat, high integration, high cost performance

Applications

- Code scanning
- Measurement
- Product recognition on the assembly line
- Positioning
- Single-workstation visual inspection

Common specifications

Platform	X86 smart camera (vision software not included; SDK provided for image capture)
SC CPU / memory / disk	Intel Atom Z8350 (1.44~1.92GHZ), 2G/32G or 4G/64G (memory/disk)
SC(E) CPU / memory / disk	Intel N4120 (1.1~2.6GHZ), 4G/32G or 4G/64G (memory/disk)
Display / network	HDMI x1 (supports 1920 x 1080), Ethernet 1000M x1 (supports GigE Vision cameras)
Operating system	Default pre-installed Win10 64 bit system, optional Win10 32-bit system or Ubuntu 64 bit system
ITA interface	External USB2.0 x2 port, 1000 network port x1, HDMI interface x1, built-in USB2.0 interface x1, support for RS232 x1, RTC clock
ITAE interface	External USB 2.0 x1, USB 3.0 x1 port, 1000 Ethernet port x1, HDMI interface x1, built-in USB 2.0 interface x1, support for RS232 x1, RTC clock
I/O port	1 trigger, 1 flash, 1 optical isolation input, and 2 optical isolation outputs
Power connector	M12 12-core threaded aviation connector, 12V/2A power input
Power supply	12V~24V
Power	≤18W
Lens interface	C/CS interface, providing adapter ring
External dimensions	64×105×35mm (excluding lens mount and rear housing interface)
Weight	<500g
Working temperature	0~50°C
Working humidity	20~80% (no condensation)
Storage temperature	30~60°C
Storage humidity	20~95% (no condensation)
Driver program	Directshow component Halcon specialized component Labview specialized driver OCX component TWAIN component
Programming language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java
Other functions	Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction, ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.

Ordering code: MV-SC<code>GC/M (SC, Intel Atom Z8350) / MV-SCE<code>GC/M (SC(E), Intel N4120) / MV-SCI<code> (SCI housing)

Models

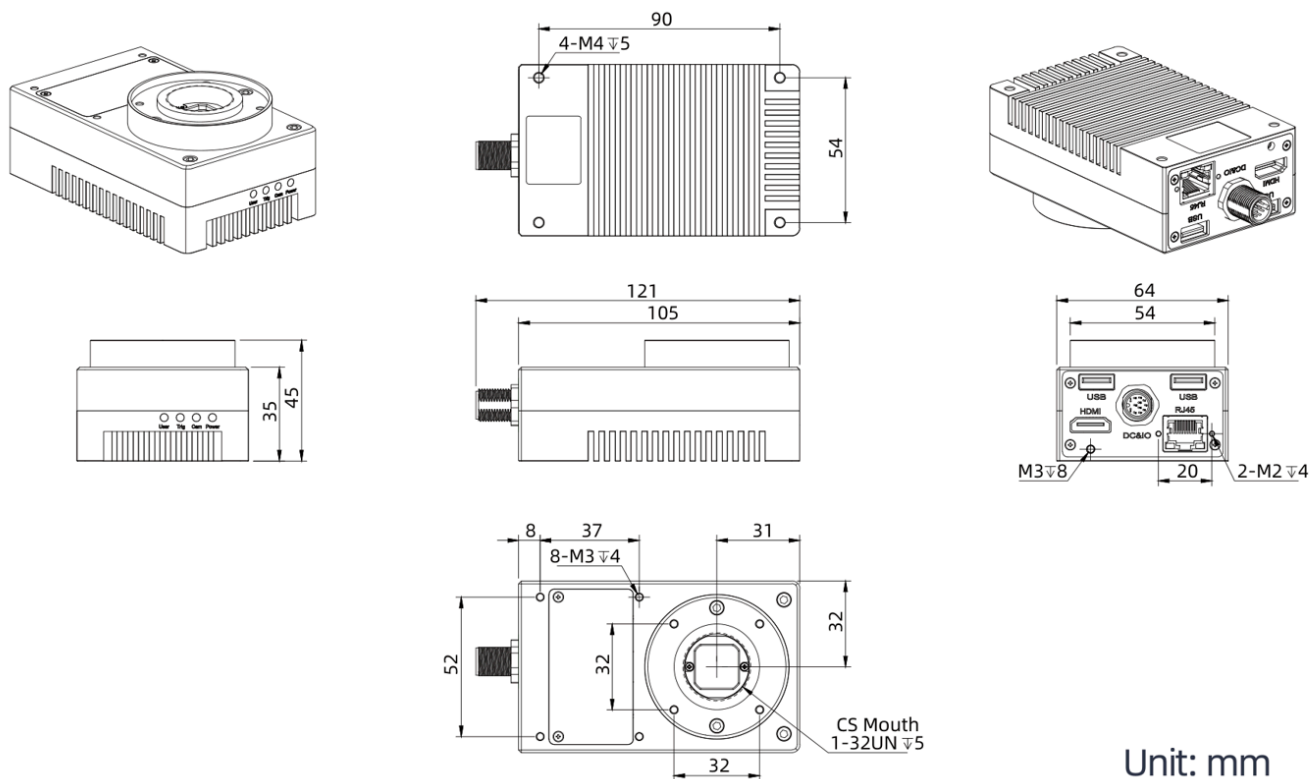
Model	Effective pixels	Shutter method	Maximum resolution	Pixel size	Frame rate	Target surface size	Minimum exposure
LS-MV-SCE33GC/M colours: Color, Mono	0.3MP	Global	640×480	4.0μm	790	1/5.6"	0.00124ms
LS-MV-SCE133GC/M colours: Color, Mono	1.3MP	Global	1280×1024	4.0μm	245	1/2.7"	0.00194ms

LS-MV-SCE134GC/ M colours: Color, Mono	1.3MP	Global	1280×1024	4.8µm	211	1/2"	0.0045ms
LS-MV- SCE200GC/M colours: Color, Mono	2MP	Global	1600×1200	4.5µm	60	1/1.8"	0.015ms
LS-MV-SCE202GC/ M colours: Color, Mono	2.3MP	Global	1920×1200	4.8µm	165	2/3"	0.0039ms
LS-MV-SCE230GC/ M colours: Color, Mono	2.3MP	Global	1920×1200	5.86µm	165	1/1.2"	0.049ms
LS-MV-SCE231GC/ M colours: Color, Mono	2.3MP	Global	1920×1200	5.86µm	40	1/1.2"	0.0201ms
LS-MV-SCE401GC/ M colours: Color, Mono	4MP	Global	2048×2048	5.5µm	88	1"	0.0054ms
LS-MV-SCE501GC/ M colours: Color, Mono	5MP	Global	2448×2048	3.45µm	40	2/3"	0.0133ms
LS-MV-SCE502GC/ M colours: Color, Mono	5MP	Rolling	2592×1944	2.2µm	59	1/2.5"	0.0084ms
LS-MV-SCE630GC/ M colours: Color, Mono	6.3MP	Rolling	3088×2064	2.4µm	60	1/1.8"	0.008ms
LS-MV-SCE890GC/ M colours: Color, Mono	8.9MP	Global	4096×2160	3.45µm	32	1"	0.034ms
LS-MV- SCE1000GC/M colours: Color, Mono	10MP	Rolling	3664×2748	1.67µm	8	1/2.3"	0.049ms
LS-MV- SCE1201GC/M colours: Color, Mono	12MP	Rolling	4000×3000	1.85µm	32	1/1.7"	0.0102ms
LS-MV- SCE1600GC/M colours: Color, Mono	16MP	Rolling	4608×3456	1.34µm	12	1/2.3"	0.0233ms
LS-MV- SCE2000GC/M colours: Color, Mono	20MP	Rolling	5488×3672	2.4µm	19.5	1"	0.0138ms
LS-MV-SCI890GC/ M colours: Color, Mono	8.9MP	Global	4096×2160	3.45µm	32	1"	0.0141ms

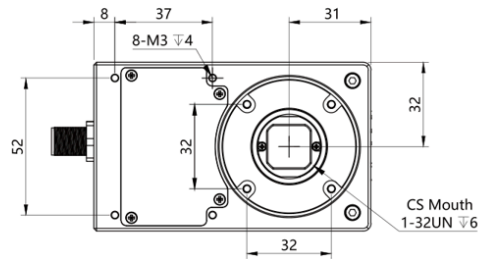
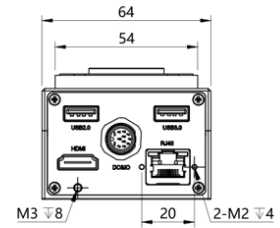
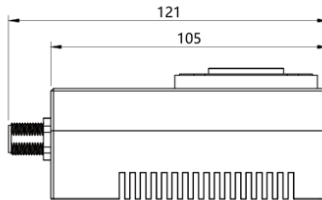
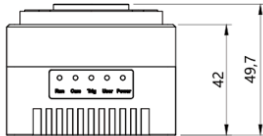
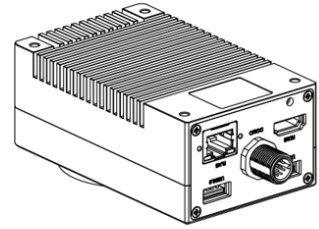
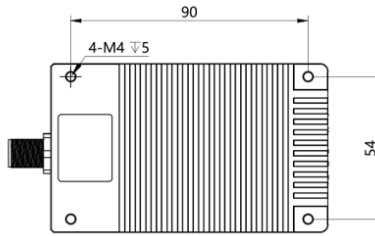
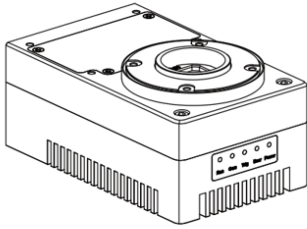
More values per model (Sensor type, Sensor model, Colour, Sensor type (detail), Color (detail), Pixel size (detail),

Shutter type, Sensitivity, Pixel bit depth, Maximum resolution (detail), Frame rate (detail), Maximum gain (multiple)...) are on each product page.

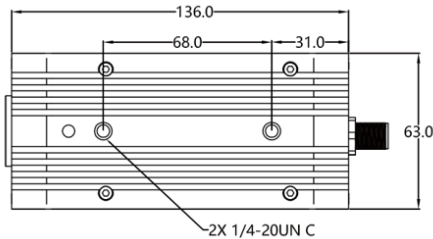
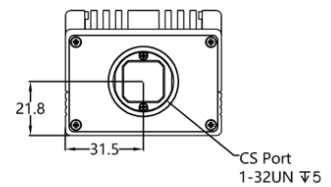
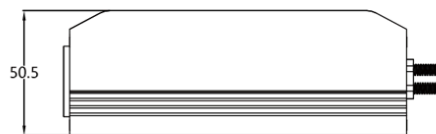
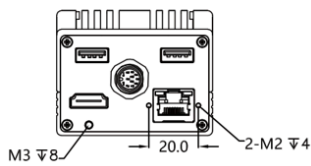
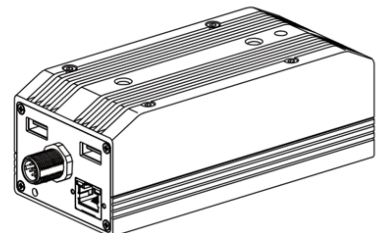
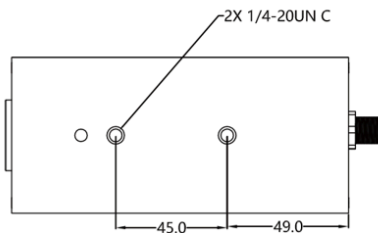
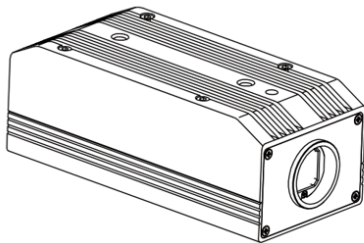
Dimensions



Unit: mm



Unit: mm



Unit: mm