



MICAPS SV3SCMOS SERIES

C-mount USB3.0 CMOS Cameras SONY Exmor CMOS Sensor

SV3SCMOS series is USB3.0 interface color Camera for industrial applications, having built-in hardware ISP to ensure color reproduction and higher video speed. The resolution coverage is from 0.5MP to 20MP;.

Features

- Sony Exmor back-illuminated CMOS sensor
- Two-step noise reduction technology
- Ultra-high sensitivity and low noise
- USB 3.0 data transmission interface compatible with USB2.0 protocol
- Provides advanced video and image processing application software MicroView
- Supports external triggering, digital I/O and free-running modes
- Supports ROI, flip, bit-depth switching and other features

Applications

- Scientific research, education (teaching, demonstration and academic exchanges) Digital laboratory, medical research
- Industrial visual (PCB examination, IC quality control)
- Medical treatment (pathological observation)
- Food (microbial colony observation and counting)
- Aerospace, military (high sophisticated weapons)

Model No.	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
SVS3 with 33mmx33mmx33mm housing						
SV3SCMOS500CA	0.5M/IMX433LQJ(C,GS) 1/1.7" (7.31x5.58)	9.0x9.0	4910mv with 1/30s 0.3mv with 1/30s	166.5fps@812x620	1x1	6us~15s
SV3SCMOS1500CA	1.5M/IMX273LQR(C,GS) 1/2.9" (4.97x3.73)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	227.2fps@1440x1080 382.7fps@720x540	1x1 1x1	15us~15s
SV3SCMOS2300CA	2.3M/IMX174LQJ(C,GS) 1/1.2" (11.25x7.03)	5.86x5.86	1016mv with 1/30s 0.15mv with 1/30s	164.5fps@1920x1200	1x1	15us~15s
SV3SCMOS2300CB	2.3M/IMX249LQJ(C,GS) 1/1.2" (11.25x7.03)	5.86x5.86	1016mv with 1/30s 0.15mv with 1/30s	30fps@1920x1200	1x1	42us~15s
SV3SCMOS3100CA	3.1M/IMX252LQR(C,GS) 1/1.8" (7.07x5.30)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	115fps@2048x1536 230.3fps@1024x768	1x1 1x1	15us~15s
SV3SCMOS3100CB	3.1M/IMX265LQR(C,GS) 1/1.8" (7.07x5.30)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	55.4fps@2048x1536 115.1fps@1024x768	1x1 1x1	15us~15s
SVS3CMOS5000CA	5.0M/IMX250LQR(C,GS) 2/3" (8.45x7.07)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	71.2fps@2448x2048 175.2fps@1224x1024	1x1 1x1	15us~15s
SVS3CMOS5000CB	5.0M/IMX264LQR(C,GS) 2/3" (8.45x7.07)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	35.6fps@2448x1536 87.6fps@1224x1024	1x1 1x1	15us~15s
SV3SCMOS6300CA	6.3M/IMX178LQJ(M, RS) 1/1.8" (7.37x4.92)	2.4x2.4	425mv with 1/30s 0.15mv with 1/30s	58.7fps@3072x2048 59.5fps@1536x1024	1x1 2x2	17us~15s
SV3SCMOS12000CA	12M/IMX226CQJ(C, RS) 1/1.7" (7.52x5.64)	1.85x1.85	3637mv with 1/30s 0.15mv with 1/30s	29.97fps@4064x3046 59.94fps@2048x1080	1x1 2x2	400us~15s
SV3SCMOS12000CB	12M/IMX676-AACR(C, RS) 1/1.6" (7.07x7.07)	2.0x2.0	280mv with 1/30s 0.1mv with 1/30s	27.7fps@3536x3536 65.8fps@1760x1760	1x1 2x2	13us~15s

C: Color, M: Monochrome, GS: Global Shutter, RS: Rolling Shutter

SVS3 with 38mmx38mmx33mm housing

SV3S0CMOS1700CA	1.7M/IMX432LQJ(C,GS) 1.1" (14.4x9.9)	9.0x9.0	4910mv with 1/30s 0.3mv with 1/30s	98.6fps@1600x1100	1x1	6us~15s 38mm
SV3SCMOS1700CB	1.7M/IMX425LQJ(C,GS) 1.1" (14.4x9.9)	9.0x9.0	4910mv with 1/30s 0.3mv with 1/30s	210fps@1600x1100	1x1	6us~15s 38mm
SV3SCMOS2000CA	2.0M/IMX430LQJ(C,GS) 1/1.7"(7.31x5.58)	4.5x4.5	2058mv with 1/30s 0.15mv with 1/30s	132fps@1624x1240	1x1	6us~15s
SV3SCMOS2800CA	2.8M/IMX421LQJ(C,GS) 2/3" (8.71x6.59)	4.5x4.5	2058mv with 1/30s 0.15mv with 1/30s	121fps@1936x1464 425fps@968x732	1x1 1x1	6us~15s 38mm
SV3SCMOS7100CA	7.1M/IMX428LQJ(C,GS) 1.1" (14.4x9.9)	4.5x4.5	2058mv with 1/30s 0.15mv with 1/30s	51.4fps@3200x2200 133.8fps@1584x1100	1x1 1x1	6us~15s 38mm
SV3SCMOS12300CA	12.3M/IMX304LQR-C(C,GS) 1.1"(14.13x10.35)	3.45x3.45	1146mv with 1/30s 0.15mv with 1/30s	23.4fps@4096x3000 46.3fps@2048x1500 46.3fps@1024x750	1x1 2x2 4x4	30us~15s 38mm

General Specification

Power supply	Power with USB3.0
Power consumption	<3.0W
Temperature	Working temperature -10~50°C, storage temperature 30~70°C
Platform and architecture	Win32/WinRT/Linux/macOS/Android; X86/X64/armhf/armel/arm64
Size	33mmx33mmx33mm, 38mmx38mmx33mm
Weight	227g
Lens mount	C-mount
Humidity	20%-80%, no condensation
Certification	CE, FCC

