MICAPS
SV3SCMOS3100CA

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

SV3SCMOS3100CA is USB3.0 interface color Camera for industrial applications, having built-in hardware ISP to ensure color reproduction and higher video speed. The camera resolution coverage is 3.1MP.

Features

- Sony PREGIUS 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

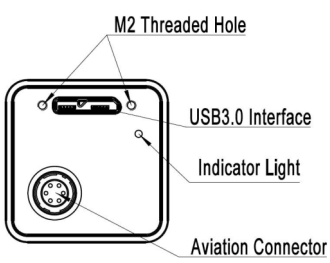
Applications

- 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						
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

C: Color, GS: Global Shutter

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



Camera Interface

Check out the back of the industrial camera in the figure. It features a standard USB 3.0 output, a 7-pin I/O port with an aviation head, and an on/off indicator. There are also two M2 screw holes on either side of the USB 3.0 port to securethe cable, helping to prevent it from loosening due to vibrations in the field.

LABLINK INSTRUMENTS

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