



MICAPS SVIMS

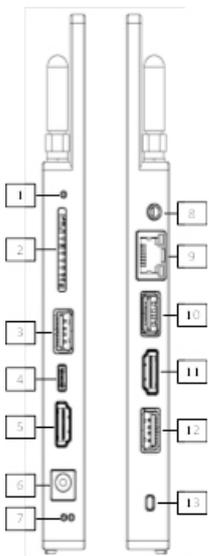


Micaps has introduced SVIMS, a smart control platform for cameras, featuring a powerful SoC (System on Chip) design. This platform simplifies camera control and integrates with Micaps SVISCAMOS series cameras using just a standard HDMI cable. With SVISCAMOS, users can easily manage camera settings, display video, capture images, record videos, and even take measurements. SVISCAMOS comes with a multi-touch TFT-LCD display, available in various sizes and resolutions, allowing for intuitive control through finger touch—eliminating the need for a keyboard and mouse. When combined with SVIMS cameras, the SVISCAMOS platform is well-suited for a wide range of applications, including intelligent detection, processing, analysis, and control. These applications span diverse fields such as criminal investigation, precision agriculture, water quality monitoring, remote sensing, industrial inspection, cultural heritage identification, and medical treatment. The combination offers significant commercial potential and value.

Features

- **Modular high scalability:** The core board and the interface board are designed independently, while focusing on the core Camera functions, it has the characteristics of high scalability and embeddability.
- **Simple image transmission:** Only one HDMI cable is needed to connect with SVISCAMOS series cameras, which can perfectly realize the control of the camera, the transmission, display and processing of image and video data, eliminating the trouble of hardware compatibility and Camera driver problems, seamlessly integrated with the camera, providing users with worry-free mobile image acquisition solutions.
- **Openness of product development:** Users can develop and run their own image processing applications through the supplied SDK, realize on-site industrial control through standard user interfaces, process image and video data according to preferences and needs, and finally submit scientific reports, completely liberated from camera hardware problems and image or video data capture problems, focus on problem-oriented image processing and analysis, and quickly develop user own target equipment.
- **Portability of product use/integration:** Compact size ensures portability for product use and integration.
- **Versatility of product application:** It can be applied to various scenarios, such as microscope observation, biological image analysis, industrial inspection and various intelligent image analysis equipment, to meet different development needs.

Model	Processor/th>	Memory/Storage	Display	Computing Power	System Version
SVIMS12K133A	RK3399	2G LPDDR3/32GEMMC	1080P multi-touch display	NA	Android 10.0
SVIMS14K133A	Rk3588	2G LPDDR3/32GEMMC	4K multi-touch display	6 TOPS	Android 12.0



No	Function Description
1	Recovery key:Used together withPower key13, press both at the same time to enter the firmware burning mode.
2	SD card slot:
3	USB 3.0 A port 1:External mouse, keyboard, U disk and other peripherals can be connected.
4	USB-C port: External mouse, keyboard, U disk and other peripherals can be connected; it can be connected to the DP port of the monitor to display the SVISCAMOS12K133A interface; It can be connected to a PC, and the built-in storage of SVISCAMOS14K133A can be accessed on the PC side; in the firmware burning mode, the firmware can be burned on the PC side.
5	HDMI 2.0 A port 1:HCMOS series Camera input interface 1.
6	12V DC5525:Power input interface.
7	Status indicator: The left side is the power indicator light, which is off when the power is not connected, and is always red when the power is connected; The right side is the running indicator light, which goes out when the machine is turned off, and the green light flashes when it is turned on.
8	2.5mm audio port:External shutter release.
9	10/100/1000Mbps adaptive network port
10	USB 2.0 A port 1:External mouse, keyboard, U disk and other peripherals can be connected.
11	HDMI 2.0 A port 2:HCMOS series Camera input interface 2.
12	USB 3.0 A port 2:USB3.0 image data interface. The function is not yet available.
13	Power button:Short press to power on; long press to power off.

Powerful hardware and software integration
easily meet various needs

- Equipped with powerful Rk3399 six-core 64-bit CPU, over 2.0GHz
- 2GB DDR3 memory and 32gb EMMC storage, high computing capability and stability
- 4K VP9 and 4K 10bits H265/H264 video hardware decoding up to 60fps
- Support 1080P WMV, MPEG-1/2/4, Vp8 format video hardware decoding
- 1080P H.264 and VP8 video hardware encoding acceleration
- Multiple video inputs and outputs
- Built-in Android 10.0 operating system, compatible with 99% industry software.
- Dual USB3.0 Type C ports
- Supports PCIe 2.1b

Industrial-grade design
7*24 hours of stable operation

- Safe and reliable communication, ensuring uninterrupted device network communication
- Pure flat installation, easy to integrate with the product
- High and low temperature resistance , IP65 dustproof and waterproof
- Lower heat generation and power consumption

Precise Touch
more sensitive

- Smooth surface treatment, high stability, Super experience
- Qusai-industrial-grade touch solution, 10-point capacitive touch, 3mm tempered glass cover.
- Effective anti-fog and dust-proof, high resolution, more sensitive response, no blind spots.

SVISCMOS Series Cameras Compatible with CamPI Camera Intelligent Control Platform



Model	Sensor & Size	Pixel (μm)	G Sensitivity/Dark Signal	FPS	FPS	Exposure
SVISCMOS8300CA	8.3M/IMX678(C) 1/1.8"(7.68x4.32)	2.0x2.0	3541(mV/lx/s) 0.15mv with 1/30s	42@1920x1080	3840x2160	0.02ms~15s
SVISCMOS8300CB	8.3M/IMX585 1/1.2"(11.2x6.3)	2.9x2.9	5970mv with 1/30s 0.15mv with 1/30s	42@1920x1080	3840x2160	0.02ms~15s
SVISCMOS20000CA	20M/IMX283 1" (13.2x8.9)	2.4x2.4	TBD	TBD	TBD	TBD
SVISCMOS45000CA	45M/IMX294 4/3"(17.26x13.03)	4.6x4.6	108mv with 1/30s 0.03mv with 1/30s	42@1920x1080	42@1920x1080	0.02ms~15s
SVIGSMOS4200MB-RAW	4.2M/GSENSE2020BSI (M,UV, RS) 1.2"(13.31x13.31)	6.5x6.5	1.1x108 (e-/((W/m2).s)) QE93.7%@550nm 80(e-/s/pix)	18@2048x2048 18@1024x1024	18@2048x2048 18@1024x1024	0.15ms-15s
SVIGSMOS4200MB-YUV	4.2M/GSENSE2020BSI (M,UV, RS) 1.2"(13.31x13.31)	6.5x6.5	1.1x108 (e-/((W/m2).s)) QE93.7%@550nm 80(e-/s/pix)	18@2048x2048 18@1024x1024	18@2048x2048 18@1024x1024	0.15ms-15s
SVISWIR1300MA	1.3M/IMX990(M) 1/2"(6.40x5.12)	5.0x5.0	121mV with 1/30s 1.0mV with 1/30s	35@1280x1024 35@640x512	35@1280x1024 35@640x512	50us~3600s

LABLINK INSTRUMENTS

- Plot no. 337, Sector 2, HSIIDC Saha, Saha, Ambala (Haryana) India - 133104.
- Plot no 3-6-164/2, 2nd Street, Hyderguda Himayatnagar, Hyderabad (Telangana)India - 500029

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