

High Speed Camera

Research/Defense/Aerospace



SH6-802

■ Product Description

SH6-802 is a full-featured high-speed camera built by SinceVision for high-end scientific research, national defense and military industry, aerospace, high-speed industry and other fields. It uses special customized sensors and unique circuit design to provide an effective bandwidth of 160Gbps and excellent imaging quality. At the same time, it has rich and extendable interfaces, allowing for more possibilities for high-speed imaging applications.

■ Features

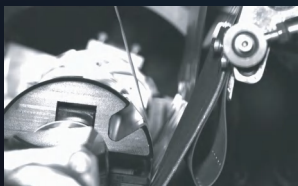
- Redundant dual-power supply interface design.
- The non-volatile large capacity memory inside the body supports a maximum of 24TB.
- Rich ISP processing, high-definition and high-quality color images.
- Equipped with 10 Gigabit network transmission interface, compatible with Gigabit Ethernet.
- Support intelligent image triggering: automatically triggered as the image changes.
- Support AE/EDR, quickly locate keyframe data in 5 seconds.

■ Typical Applications



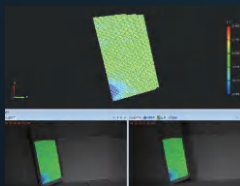
Welding detection

Observation of molten pool and droplet transition



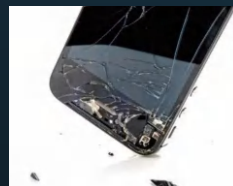
Process study

Mechanical motion
Fault monitoring



Mechanical research

Strain testing
Modal testing



Destruction test

Impact, drop,
vibration, fracture



Fluid analysis

Microfluidics,
bubbles, droplets

■ Specification

Model	SH6-802
Max. Resolution	4096×2048
Full Frame Rate	2000fps
Max. Frame Rate	20000fps
Min. Exposure Time	1μs
Cell Size	4.5μm
Standard RAM	40G, 80G, 160G, 320G (Optional)
Extended Memory	4TB, 12TB, 24TB (Optional)
Dynamic Range	64dB
Analog Gain	×2, ×4, ×8
Bit Depth	8bit
Shutter Type	Global shutter
Color	Monochrome / Color
ROI	Support
Lens Mount	E Port, detachable, adaptable to F Port, C Port, EF Port
Data Interface	10 Gigabit Ethernet, compatible 2.5GigE 1GigE
Sensitivity	ISO10000(M) ISO3000(C)
Fan Control	Support turning on / off, adaptive rotary speed according to temperature
Operating Temperature/ Humidity	Standard -10~50°C, below 95%(no condensation), customizable -40~65°C wide temperature range version
Video Signal Output	SDI, Ethernet
Recording Mode	Start, End, Center, Random, Manual
Trigger Mode	Manual, IO, Image
External Signal	Input: trigger (TTL/switch) signal, sync signal, ready signal, event signal, IRIGB Output: trigger (TTL/switch) signal, sync signal, ready signal, exposing signal, recording signal.
Power Supply	Dual power, DC24V
Dimensions (excluding lens)	217D×110W×110H , excluding protrusion parts
Weight	3.8kg
Power Consumption	55W
Standard Accessories	Power cord×1, AC Adaptor×1 , Network cable×1, Camera Control Software×1 Product Manual×1, Qualified Certificate×1

■ Performance

Resolution	Frame Rate	Recording time (memory)			Recording time (hard disk)		
		40GB	80GB	160GB	4TB	12TB	24TB
4096×2048	2000FPS	2.5s	5s	10s	4.2min	12.4min	25.6min
4096×1536	2500FPS	2.7s	5.4s	10.8s	4.5min	13.5min	27min
4096×1024	3800FPS	2.7s	5.4s	10.8s	4.5min	13.5min	26.7min
4096×512	6900FPS	2.9s	5.8s	11.6s	4.9min	14.7min	29min
4096×256	11500FPS	35s	7s	14s	5.9min	17.7min	35.6min
4096×128	17000FPS	4.8s	9.6s	19.2s	8min	24min	48min
4096×64	20000FPS	8.1s	16.2s	32.4s	13min	40min	81min

※ When the recording time is based on the grayscale 8 bits, the 320GB version has twice the recording time as 160GB of memory.

※ Hard disk version supports real-time storage at full resolution and frame rate; The black and white version supports binning mode.

■ Services

- ☆ 1. Technical Support 2. Product Demonstrations
- ☆ 3. Consultation Services 4. Maintenance and Calibration
- ☆ 5. Programs and Trainings 6. Spare Parts and Accessories
- ☆ 7. Customized Solutions 8. After Sales Service Support

■ Contact

Web: www.sincevision.com

Email: info@sincevision.com

Headquarters: 5th Floor, Building 2, Chongwen Industrial Park, Nanshan Zhiyuan, Nanshan District, Shenzhen, China

Dongguan Office: Room 407, Building F5, Tian'an Digital City, Nancheng District, Dongguan City, Guangdong Province, China

East China Office: Room 1305, Building 7, Xiangyu Liang'an Trade Center, No.1588, Chuangye Road, Kunshan, Jiangsu Province, China

North China Office: Unit 922, Building 4, Times Fortune World, Courtyard 1, Hangfeng Road, Fengtai District, Beijing, China

Southwest China Office: Room 604, Block B, Yingchuang Interational Building, No. 66, Chuangzhi South 1st Road, Pidu District, Chengdu, China



linkedin



youtube

