

Ultra High-speed Series

HIGH-SPEED CAMERA



SH6-502S

2560×1920 2300fps

2560×8 397000fps

64 Memory Segments
Up to 24TB Onboard Storage

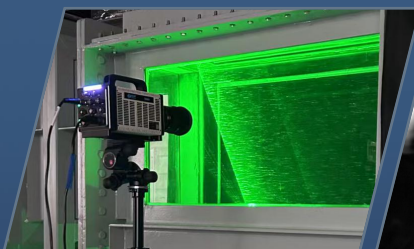
280 ns Inter-frame Time (PIV)

Standard 10GbE Data Interface
Backward Compatible with 2.5GbE
and Gigabit Ethernet

AE / EDR
Key Frame Location in 5 Seconds

SH6-502S is a full-featured high-speed camera designed for advanced scientific research, national defense, aerospace, and high-speed industrial applications. Built on SinceVision's strict quality control standards, it delivers outstanding performance in structure, appearance, and reliability.

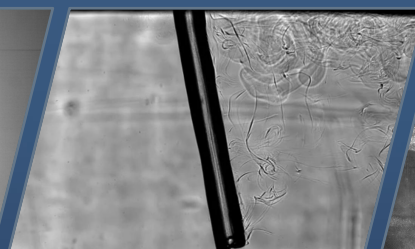
The camera supports up to 100 Gbps data bandwidth and offers optional onboard storage up to 24 TB, enabling long-duration, high-speed recording.



Research: PIV



Industry: Crack extension



Research: Schlieren
experiment



Industry: Laser welding

SH6-502S

Resolution	Frame Rate (fps)	Standard Memory(s)			
H×V	FPS	40GB	80GB	160GB	320GB
2560×1920	2300	3.8	7.6	15	30
2560×1280	3500	3.7	7.4	14	29
2560×1024	4300	3.8	7.6	15	30
2560×512	8700	3.7	7.5	15	30
2560×256	17300	3.7	7.5	15	30
2560×64	66500	3.9	7.8	15	31
2560×8	397000	5	10	21	42

※ The recording durations in the above table are calculated based on an 8-bit image bit depth ;
 ※ The HDD Version supports real-time, full-frame rate recording at full-frame sensor resolution ;

Max. Resolution	2560×1920
Full Frame Rate	2300fps
Max. Frame Rate	397000fps
Min. Exposure Time	100ns
Cell Size	7.8μm
Shutter	Global shutter
Bit Depth	8bit
Color	Monochrome (M)/ Color (C)
Sensitivity	ISO23000(M)/ISO8000(C)
Dynamic Range	60dB
Analog Gain	×2, ×4, ×8
Standard RAM	40GB/80GB/160GB/320GB
Extended Memory	4TB/12TB/24TB
Window Acquisition(ROI)	Support
Recording Mode	Start, End, Center, Random, Manual
Dimensions	210D×110W×110H , excluding protrusion parts
Camera Weight	3.8kg
Lens Mount	E Port (Adapt to F/C/EF mount)
Power Consumption	DC24V, 55W, dual power supply
Operating Temperature	Standard -10~50°C, customizable - 40~65°C wide temperature range version
Heat Dissipation	Air cooling with fan, which can be turned on and off, and can adapt the rotation speed according to the temperature.

Camera I/O Interface



Video Signal Output: Ethernet, 3G-SDI
Data Interface: 10 Gigabit Ethernet, compatible with 2.5Gbps, 1Gbps
Input Signal: Trigger signal, sync signal, ready signal, IRIG-B
Output Signal: Trigger signal, sync signal, ready signal

7 X 24 Hours Technical Support | E-mail: info@sincevision.com

Service covering:

South Korea, Vietnam, Thailand, Malaysia, Singapore, United Kingdom, France, Italy, Spain, Germany



SinceVision's
LinkedIn Account



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