SSZN
Manufacturer of World-Class Sensors

High Speed Camera
Research/Defense/Aerospace

SH6-116

■ Product Description

SH6-116 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, and inherits the excellent genes of strict quality control of SinceVision's product family. Through dedicated research of the product, both the appearance structure and performance are presented to the extreme. It not only has a data bandwidth of 180Gbps, but also supports an optional memory of up to 24TB to meet the needs of long-term recording.
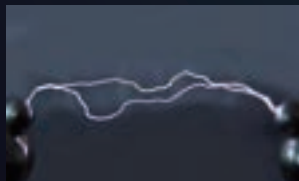
■ Features

- Supports up to 64 memory partitions.
- Redundant dual-power supply interface design.
- Equipped with 10 Gigabit network transmission interface, compatible with Gigabit Ethernet.
- Support intelligent image triggering: automatically triggered as the image changes.
- 210ns dual-exposure time PIV.
- Support AE/EDR, quickly locate keyframes in 5 seconds.

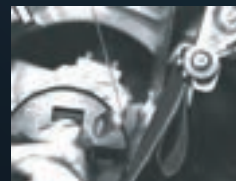## ■ Typical Applications

Blasting research	Discharge research	Destruction test	Process improvement	Fluid analysis
Fragment analysis out-of-chamber test	Streamer discharge plasma discharge	Impact, drop, vibration, fracture	Mechanical motion Fault monitoring	Jet, cavitation PIV/PLIF/PTV
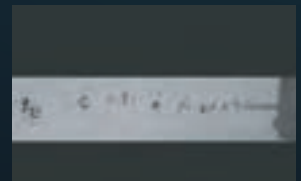
Hi-Tech Electronics Pte Ltd
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High-speed Capture,
Track and Analyse…..

■ Specification

Model	SH6-116
Max. Resolution	1280×1024
Full Frame Rate	15800fps
Max. Frame Rate	1150000fps
Min. Exposure Time	100ns
Cell Size	14.6μm
Standard RAM	40G, 80G, 160G, 320G (Optional)
Extended Memory	4TB, 12TB, 24TB (Optional)
Dynamic Range	60dB
Analog Gain	×2, ×4, ×8
Bit Depth	8bit/10bit/12bit
PIV Shutter	≥210ns
Color	Monochrome / Color
ROI	Support
Lens Mount	E Port, detachable, adaptable to F Port, C Port, EF Port
Data Interface	10 Gigabit Ethernet, compatible 2.5Gbps 1Gbps
Sensitivity	ISO67000(M) ISO23000(C)
Fan Control	Support turning on / off, adaptive rotary speed according to temperature
Operating Temperature/ Humidity	Standard -10~50℃, below 95%(no condensation), customizable -40~65℃ 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
1280×1024	15800FPS	2s	4s	8s	3.4min	10min	20min
1280×808	20000FPS	2s	4s	8s	3.4min	10min	20min
1280×512	31500FPS	2s	4s	8s	3.4min	10min	20min
1280×256	62500FPS	2s	4s	8s	3.4min	10min	20min
1280×128	121000FPS	2s	4s	8s	3.4min	10min	20min
1280×64	221000FPS	2.3s	4.7s	9.5s	3.9min	11.8min	23.7min
1280×8	1150000FPS	3.6s	7.2s	14.4s	6min	18min	36min

※ 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 writing with restricted frame rate.

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