

Product Brief

Large memory S Series

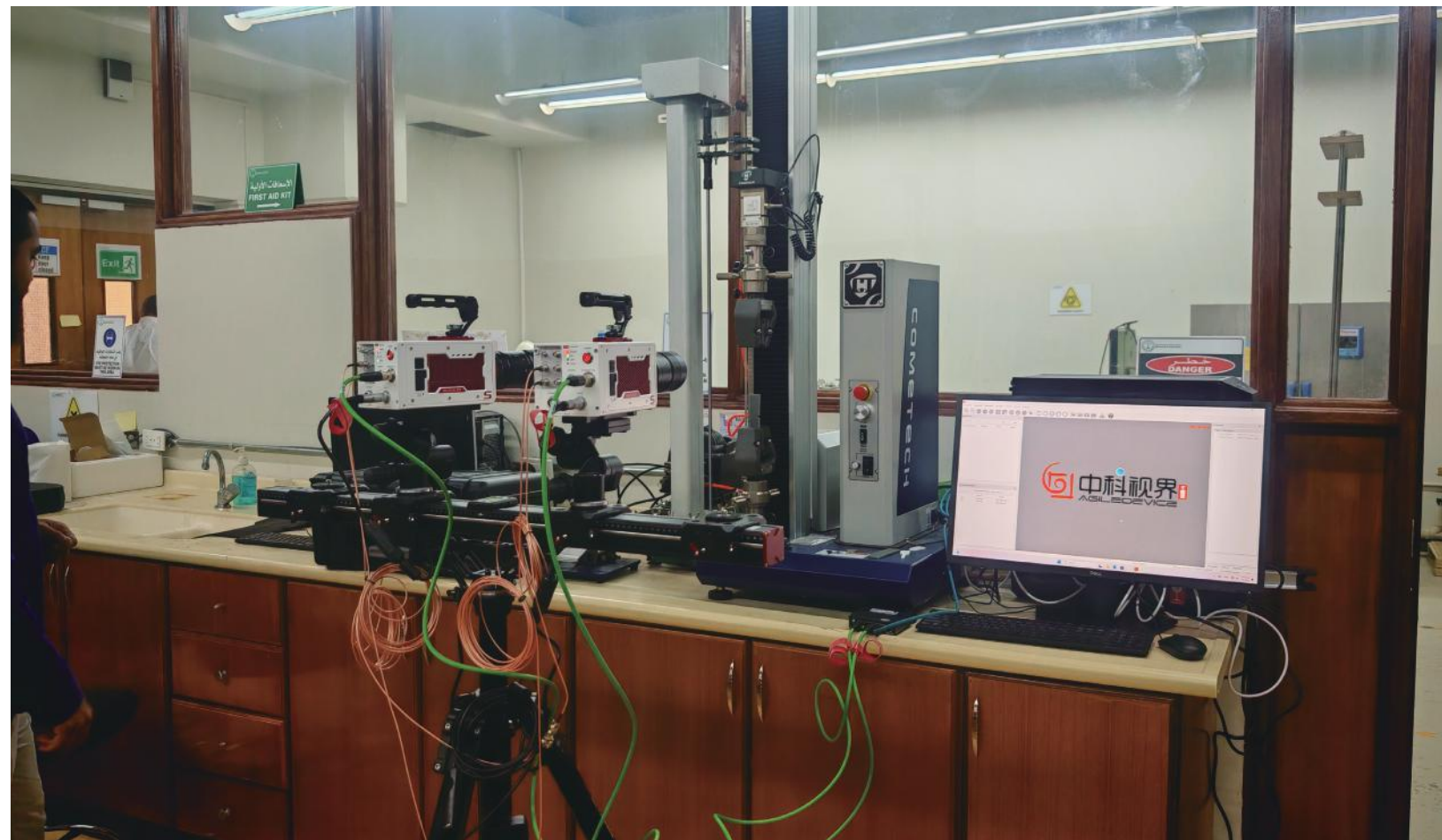
With higher bandwidth CMOS sensor, Large memory S series can achieve high-speed video recording, real-time acquisition.

S1315M/C 1280×1024 @15000fps

S1310M/C 1280×1024 @10000fps

S1307M/C 1280×1024 @7000fps

S1305M/C 1280×1024 @5000fps



Key Features



Optional SSD
20TB

**1280×1024
@15000fps**

High-Speed RAM Storage
192GB

1,060,000 fps

At 1280×8 resolution 60,000fps at 256 rows



Built-in mechanical shutter



- 10Gb Ethernet
- SDI/HDMI video interface
- IRIG_B code timing input interface
- Dual power interface 18-28VDC



IP64 protection standard



30Grms @11ms
3-axis 6-direction
60 pulses



Anti-transport vibration



-35° ~ 60°C

300ns

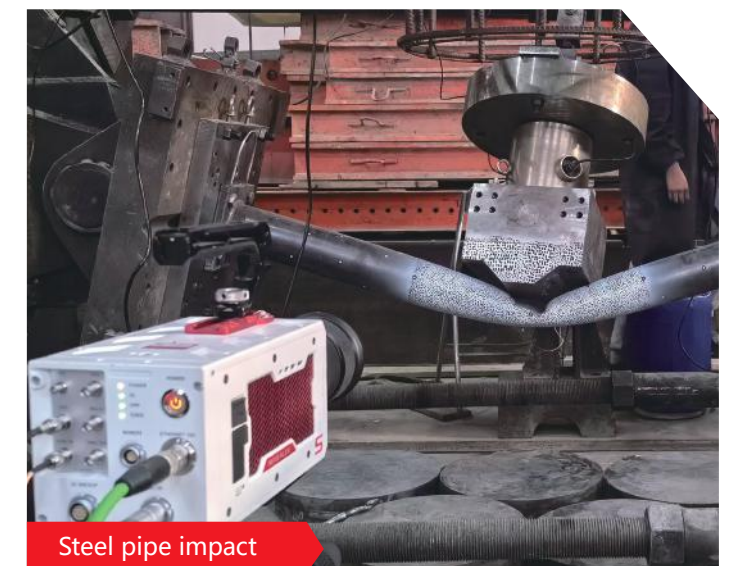
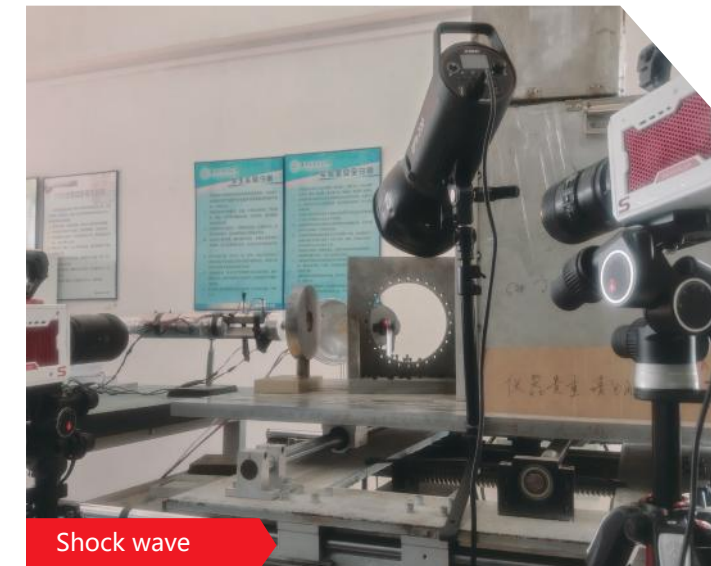
Straddle time for PIV

Image intelligent trigger

EMC

EMC protection

Typical Cases



Product Parameters

Key parameters

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
Sensor	CMOS	CMOS	CMOS	CMOS
Resolution	1280×1024	1280×1024	1280×1024	1280×1024
Frame	15000fps	10000fps	7000fps	5000fps
Shutter	Global shutter	Global shutter	Global shutter	Global shutter
Min. exposure time	100ns	100ns	100ns	100ns
PIV	300ns	300ns	300ns	300ns
AE	Available	Available	Available	Available
EDR	Available	Available	Available	Available

Resolution-Frame- Recording time

SKU	S1315M/C (Based on 192GB)		S1310M/C (Based on 192GB)		S1307M/C (Based on 192GB)		S1305M/C (Based on 192GB)	
Resolution	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time
1280×1024	15000	6.17	10000	10.50	7000	15.72	5000	22.88
1280×896	17600	6.17	11600	10.37	8100	15.39	5900	22.25
1280×720	21600	6.25	14500	10.29	10400	15.05	7500	21.59
1280×256	60000	6.30	40000	9.83	31700	13.85	23600	19.29
1280×8	1060000	12.50	800000	17.33	600000	23.77	470000	31.8

Connectivity and Signaling

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
Record button	Available	Available	Available	Available
Data interface	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet	10 Gb/ Gb Ethernet
Video interface	SDI	SDI	SDI	SDI
Sync Input Interface	3.3/5V TTL	3.3/5V TTL	3.3/5V TTL	3.3/5V TTL
Sync Output Interface	5V TTL	5V TTL	5V TTL	5V TTL
Timing	DC IRIG_B in	DC IRIG_B in	DC IRIG_B in	DC IRIG_B in
Control interface	Reserve RS422	Reserve RS422	Reserve RS422	Reserve RS422
Trigger Input	Pulse trigger signal	Pulse trigger signal	Pulse trigger signal	Pulse trigger signal
I/O	1 output reserved for customization	1 output reserved for customization	1 output reserved for customization	1 output reserved for customization

Memory

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
RAM	192GB	192GB	192GB	192GB
SSD optional	1TB/2TB/10TB/20TB	1TB/2TB/10TB/20TB	1TB/2TB/10TB/20TB	1TB/2TB/10TB/20TB

Mechanical Specifications

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
Lens	EF standard,F optional, C optional	EF standard,F optional, C optional	EF standard,F optional, C optional	EF standard,F optional, C optional
Size W×H×D	≤110×110×205mm	≤110×110×205mm	≤110×110×205mm	≤110×110×205mm
Weight	≤3800g	≤3800g	≤3800g	≤3800g
Mounting hole	Top Bottom Left and right sides with 1/4 threaded mounting holes	Top Bottom Left and right sides with 1/4 threaded mounting holes	Top Bottom Left and right sides with 1/4 threaded mounting holes	Top Bottom Left and right sides with 1/4 threaded mounting holes
Cooling	Fans	Fans	Fans	Fans

Electrical Specifications

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
Electricity supply	24VDC	24VDC	24VDC	24VDC
Power wastage	≤160W	≤160W	≤160W	≤160W

Environmental Specifications

SKU	S1315M/C	S1310M/C	S1307M/C	S1305M/C
Operating temperature	-10~50℃	-10~50℃	-10~50℃	-10~50℃
Operating temperature optional	-35~60℃	-35~60℃	-35~60℃	-35~60℃
Operating humidity	0~95%	0~95%	0~95%	0~95%
Protection level	IP64	IP64	IP64	IP64
Shock	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses	30Grms @11mSec 3 axes 60 pulses
Vibration	Resistant to transportation vibration	Resistant to transportation vibration	Resistant to transportation vibration	Resistant to transportation vibration
EMC	Available	Available	Available	Available

Dimension Drawing

S1315M/C/S1310M/CS1307M/CS1305M/C

