

Product Brief

High Resolution G_Pro Series

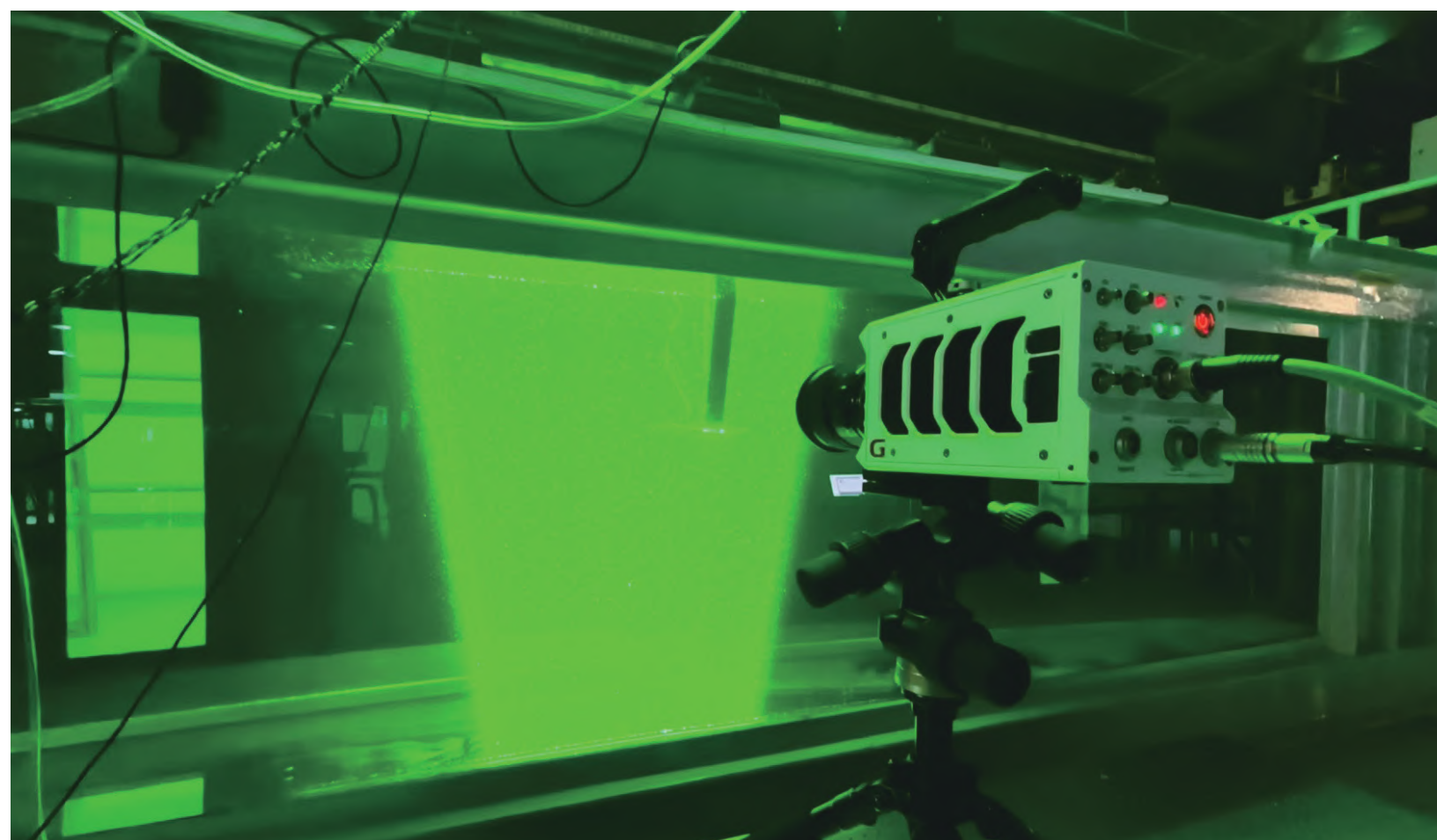
High resolution G_Pro Series adopts APS-C format high speed global shutter CMOS image sensor, based on unique light pipe technology, with excellent shutter efficiency and angular response, realizing 21M pixel,4K resolution 1,000fps acquisition, can be applied in large field of view optical measurement, advertising field.

G2110M/C_Pro 5120×4096 @1000fps

G820M/C_Pro 4096×2048 @2000fps

G536M/C_Pro 2560×2016 @3600fps

G520M/C_Pro 2560×2016 @2000fps



Key Features



SSD Optional
20TB

High image quality
ISP

High-Speed RAM
192GB

21M Pixel 24GB/s data bandwidth



Built-in mechanical shutter



-35° ~ 60°C

Auto EDR



Auto exposure EDR



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



IP64 protection standard



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



Anti-transport vibration

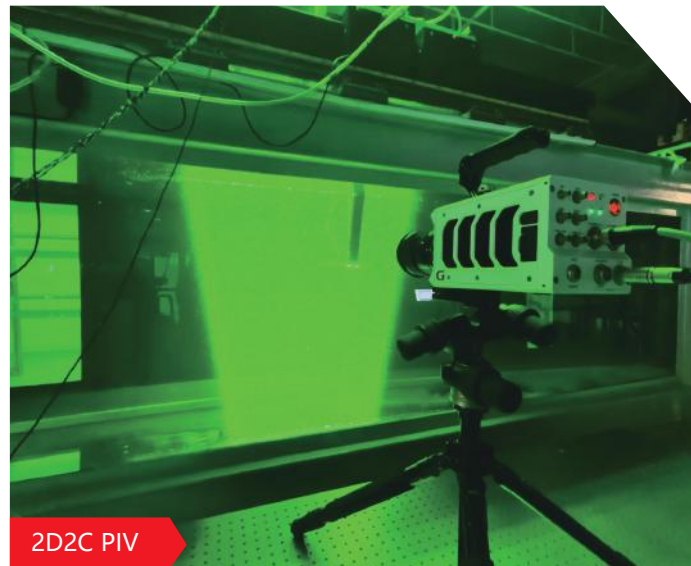
Image intelligent trigger

EMC

EMC protection

HIGH RESOLUTION G_PRO SERIES

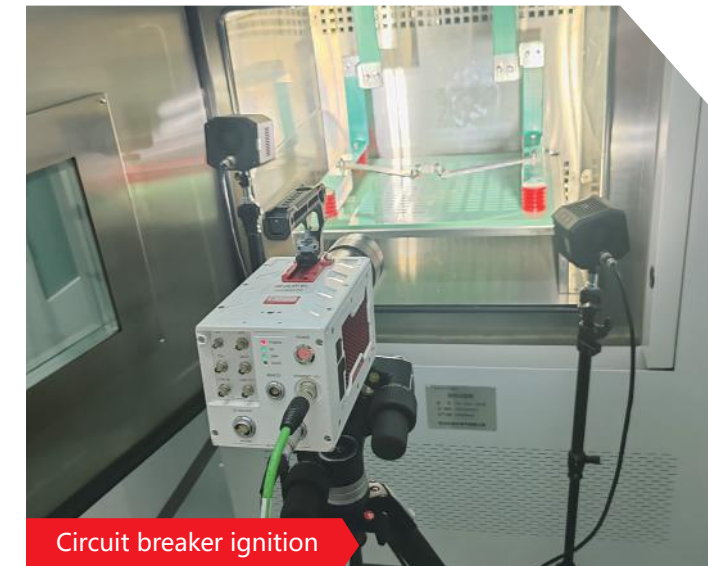
Typical Cases



2D2C PIV



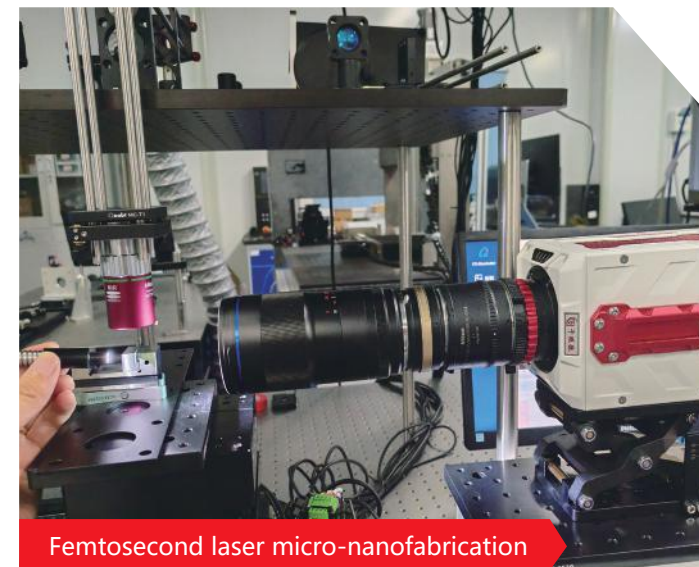
MIG welding



Circuit breaker ignition



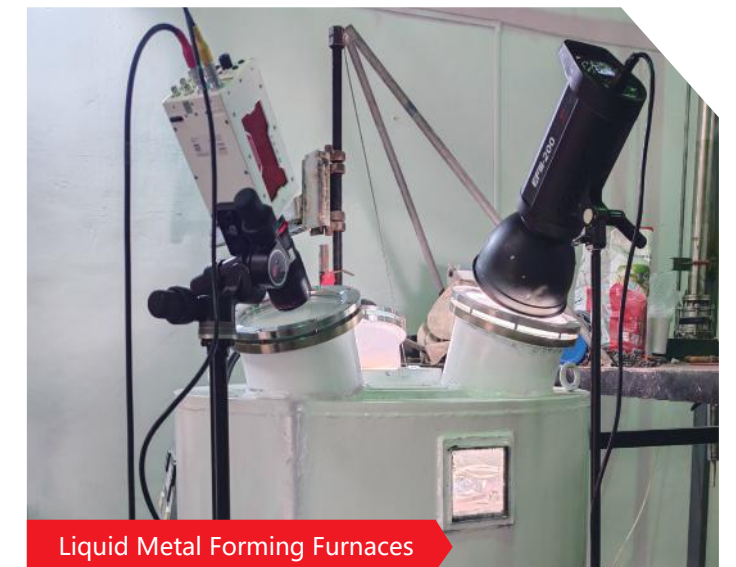
Tire Testing



Femtosecond laser micro-nanofabrication



Magnesium Alloy and Carbon



Liquid Metal Forming Furnaces

Product Parameters

Key parameters

SKU	G520M/C_Pro	G536M/C_Pro	G820M/C_Pro	G2110M/C_Pro
Sensor	CMOS	CMOS	CMOS	CMOS
Depth	8/10 (M) /12 (M) Bit	8/10 (M) /12 (M) Bit	8/10 (M) /12 (M) Bit	8/10 (M) /12 (M) Bit
Resolution	2560×2016	2560×2016	4096×2048	5120×4096
Frame	2000fps	3600fps	2000fps	1000fps
Max. frame	31700fps	60000fps	49100fps	49100fps
Min. exposure time	1μs	1μs	1μs	1μs
PIV	300ns	300ns	300ns	300ns
AE	Available	Available	Available	Available

Resolution-Frame- Recording time-8Bit

SKU	G520M/C_Pro		G536M/C_Pro		G820M/C_Pro		G2110M/C_Pro	
Resolution	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time
5120×4096	-	-	-	-	-	-	1000	7.67
4096×2048	-	-	-	-	2000	10.29	2000	7.83
2560×2016	2000	17.17	3600	8.09	-	-	-	-
2560×1024	3300	18.15	7400	8.61	3800	10.63	3800	8.1
2560×512	7100	20.08	13500	9.63	7400	11.27	7400	8.61
2560×256	12100	23.9	23000	11.63	13500	12.52	13500	9.62
2560×128	18700	31.58	35400	15.73	23000	15.09	23000	11.67
2560×32	31700	77.27	60000	39.85	49100	30.01	49100	23.61

Resolution-Frame- Recording time-10Bit

SKU	G520M/C_Pro		G536M/C_Pro		G820M/C_Pro		G2110M/C_Pro	
Resolution	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time
5120×4096	-	-	-	-	-	-	500	10.93
4096×2048	-	-	-	-	990	14.42	990	11.13
2560×2016	1000	23.56	1980	11.44	-	-	-	-
2560×1024	1900	24.75	3700	12.08	1900	14.83	1900	11.46
2560×512	3600	27.12	6800	13.33	3700	15.62	3700	12.09
2560×256	6200	31.81	11700	15.81	6800	17.16	6800	13.33
2560×128	9700	41.21	18400	20.78	117000	20.28	11700	15.83
2560×32	16800	97.34	32000	50.36	25700	38.68	25700	30.54

Resolution-Frame- Recording time-12Bit

SKU	G520M/C_Pro		G536M/C_Pro		G820M/C_Pro		G2110M/C_Pro	
Resolution	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time	Frame rate	Recording Time
5120×4096	-	-	-	-	-	-	250	24.21
4096×2048	-	-	-	-	490	31.3	490	30
2560×2016	500	50.32	900	25.51	-	-	-	-
2560×1024	900	53.07	1800	27	960	32.13	900	24.64
2560×512	1700	58.61	3200	29.91	1800	33.64	1830	26.51
2560×256	2900	69.62	5500	35.7	3390	36.61	3390	28.89
2560×128	4480	91.6	8500	47.3	5870	42.59	5870	33.67
2560×32	7400	223.23	14000	116.62	13090	78.09	13090	62.07

Memory

SKU	G520M/C_Pro	G536M/C_Pro	G820M/C_Pro	G2110M/C_Pro
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	G520M/C_Pro	G536M/C_Pro	G820M/C_Pro	G2110M/C_Pro
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	G520M/C_Pro	G536M/C_Pro	G820M/C_Pro	G2110M/C_Pro
Power	24VDC	24VDC	24VDC	24VDC

Environmental Specifications

SKU	G520M/C_Pro	G536M/C_Pro	G820M/C_Pro	G2110M/C_Pro
Operating temperature	-10~50℃	-10~50℃	-10~50℃	-10~50℃
Operating humidity	0~95%	0~95%	0~95%	0~95%
Protection level	IP64	IP64	IP64	IP64
Shock	30Grms @11mSec	30Grms @11mSec	30Grms @11mSec	30Grms @11mSec
Vibration	3 axes 60 pulses	3 axes 60 pulses	3 axes 60 pulses	3 axes 60 pulses

Dimension Drawing

G520M/C_Pro/G536M/C_Pro/G820M/C_Pro/G2110M/C_Pro

