



Photron



DESCRIPTION	FASTCAM SA-Z	FASTCAM NOVA S6 / S9 / S12 / S16	FASTCAM NOVA R2	MINI AX 50/100/200	MINI UX 50/100	MINI WX 50/100	FASTCAM MINI CX	FASTCAM MH-6	FASTCAM MULTI
Speed at full image resolution	20,000	6.4K / 9K / 12.8K / 16K	1,440	2K / 4K / 6.4K	2,000 / 4,000	750 / 1,080	750 / 1,000	750 / 1,000	4,800
Maximum image resolution (pixels)	1024 x 1024	1024 x 1024	2048 x 2048	1024 x 1024	1280 x 1024	2048 x 2048	1920 x 1400 1920 x 1080	1920 x 1400 1920 x 1080	1280 x 1024
Maximum speed at reduced image resolution (fps)	2,100,000	800,000 900,000 1,000,000 1,100,000	100,000	170,000 540,000 900,000	160,000 800,000	67,500 80,000	10,000	9,586 12,427	750,000
Sensitivity (excluding IR response) Mono (Color)	50,000 (20,000)	64,000 (16,000)	6,400 (2,000)	40,000 (16,000)	10,000 (5,000)	6,400 (2,000)	10,000 (5,000)	12,500 (5,000)	10,000 (5,000)
Minimum shutter speed (µs)	1	1	1	1	3.9	2.7	4	4	3.9
Free optional sub-microsecond shutter – Subject to export control	159ns	0.2µs	2.7µs	260ns (AX200)	x	x	x	x	x
Memory capacity (Gigabytes)	32GB - 128GB	8GB - 64GB	8GB - 64GB	8GB - 32GB	8GB - 32GB	8GB - 32GB	8GB	4GB / channel (6 heads) to 28GB / channel (single head) shared memory	8GB - 32GB
Base memory capacity (frames)	5,453	5,437	1,338	5,457	4,365	1,361	3,860 (Full HD)	1 camera head: 12,600 2 camera heads: 5,400 3-4 camera heads: 2,700 5-6 camera heads: 1,800	4,363
Recording duration (seconds) @ max fps and full image resolution (with minimum memory)	0.27	0.85 / 0.61 / 0.43 / 0.34	0.93	2.73 / 1.36 / 0.85	1.09 / 0.54	1.81 / 1.26	3.86 (Full HD)	1.8 (FHD 6 heads) to 12.6 (FHD single head)	0.91
Non-volatile storage	2x SD or 1TB external FAST Drive	1TB or 4TB external FAST Drive	1TB or 4TB external FAST Drive	x	x	x	Removable CFAST Card	512GB non-removable SSD	2TB external FAST Drive
Supports long record duration (streaming)	x	x	x	x	x	x	x	x	✓
Pixel size (µm)	20	20	10	20	10	10	6.6	6.6	10
Bit-depth	12 / 8	12	12	12	12	12	10	8	12
Variable region of interest (ROI)	✓	✓	✓	✓	✓	✓	x	x	✓
Multi-head support	x	x	x	x	x	x	x	6	2
Lens mounts	Nikon F / G , EF, C	Nikon F / G , EF, C	Nikon F / G , EF, C	Nikon F / G, EF, C, M42	Nikon F / G, EF , C	Nikon F / G, EF, C, M42	C	C	Nikon F / G, C, MFT
Closed Case "Range Version"	✓	✓	✓	x	x	x	✓	x	✓
High-G operation	25g	30g	30g	100g	100g	100g	150g	160g	x
Fan Stop Function	✓	✓	✓	✓	✓	✓	Sealed body w/o fan	x	x
Gigabit Ethernet Connection	✓ (dual)	✓	✓	✓	✓	✓	✓ (& WiFi)	✓ (& USB3)	✓
PC-Less operation with keypad	Optional	x	x	x	x	x	x	x	x
Saved image formats	BMP, TIFF, JPEG, PNG, RAWW, MRAW, AVI, MOV, MP4								
Supports Photron DAQ	✓	✓	✓	✓	✓	✓	✓ incl. built-in accelerometer	✓ incl. built-in accelerometer	2 channel, built-in