

MEMRECAM ACS-1

M60 / M40 / M30



World's First 60 Gpixel/sec High Speed Camera System

1280 × 896 pixel @ 150,000 fps (M60)
@ 120,000 fps (M40)
@ 50,000 fps (M30)

1 Mpixel Resolution at Ultra-Fast Framing Rates * In Boost/Boost4 mode

Ultra High Sensitivity

Color ISO 20,000

Mono ISO 100,000

500% brighter than conventional model * Compare to MEMRECAM GX-8F

USB 3.0B Fast download

400% faster data transfer * vs LAN connection

Up to 256GB Built-in memory

For longer recording time & memory segmentation for repetitive events

M60 / M40 / M30

Features	
Boost mode ^{※3}	For increased FPS or Vertical Resolution
Shooting mode	Image Quality mode and Sensitivity mode can be selected
Auto Black Balance	Mechanical Calibration Shutter
Memory Segment	Up to 64 Segments
Built-in SSD ^{※1}	Faster Auto Storage into Built-in SSD - Backup image data while recording
Faster Download	Download via USB3.0B (to PC)
DOWNLOAD REC	Recording to a memory segment in parallel with downloading to another memory segment
Image Trigger	Triggered by intensity shifts detected in a minimum area of 21x16 pixel
Dual Framing Rate	1x and 1/2 ~ 1/100x
CAM MODE LED	Status LED : STOP·READY / VIEW / ARM / REC
SYNC Recording	Fully synchronized with GX-HUB
Frame straddling shooting	Record continuous image pairs for PIV analysis Support minimum 210ns laser pulse
Fan control	Pause control / auto fancontrol / forced cooling mode
Auto pilot	Read sequence and execute automatically
EST SYNC	Sync with an external signal

Specifications	
Sensor	1.14M Pixel, CMOS
Active Pixel	1280x896
Image Quality Mode	Color ISO 2,000~16,000 / Mono ISO 10,000~80,000
Sensitivity Mode	Color ISO 5,000~40,000 / Mono ISO 25,000~200,000
Electric Shutter <M60>	1/10~1/10,000,000sec. ^{※5} 1/10~1/909,090 sec. ^{※4}
<M40 / M30>	1/10~1/10,000,000sec. ^{※5} 1/10~1/909,090 sec. ^{※4}
Memory	64GB / 128GB / 256GB
Memory Segment	Up to 64 Segments
Bit Depth	8bit / 10bit / 12bit
Lens Mount ^{※1}	F Mount (Support to Iris ring-less Lens) C Mount · EF Mount
Video Output	DisplayPort / 3G-SDI (Level A)
Input Signal	Trigger(TTL/Contact)/ EST/ IRIG-B/ ARM CMD/ PWR CTL
Output Signal	Status(ARM/FAULT)/ Exp. Pulse/ EPO/ Trigger OUT/ VD OUT
Trigger Mode	NORMAL/ EVENT/ BURST/ MULTI/ LINEAR
Interface	1000BASE-T / USB3.0B / 3.0 / 2.0
Control ^{※1}	PC / V-PAD (11.6" Touch Panel Monitor)
Power	20-32VDC
Dimensions	Approx. 175Wx175Hx206D mm (without handle)
Weight	Approx. 7.3kg

Recording Time ^{※2}

Type	M60						M40						M30					
	Normal		Boost		Boost4		Normal		Boost		Boost4		Normal		Boost			
mode	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.	pixel (H) x (V)	Time in sec.		
50 ~	1280		1280		1280		1280		1280		1280		1280		1280			
25,000	x 896	3.04	←	←	←	←	x 896	3.04	←	←	←	←	x 896	3.04	←	←		
30,000	↓	2.53	←	←	←	←	↓	2.53	←	←	←	←	x 800	2.83	x 896	5.07		
35,000	↓	2.17	←	←	←	←	↓	2.17	←	←	←	←	x 704	2.76	↓	4.34		
40,000	↓	1.90	←	←	←	←	x 800	2.12	x 896	3.80	←	←	x 592	2.87	↓	3.80		
45,000	↓	1.69	←	←	←	←	x 720	2.10	↓	3.38	←	←	x 528	2.86	↓	3.38		
50,000	↓	1.52	←	←	←	←	x 640	2.12	↓	3.04	←	←	x 464	2.93	↓	3.04		
60,000	x 800	1.41	x 896	2.53	←	←	x 528	2.15	↓	2.53	←	←	x 368	3.08	x 768	2.95		
65,000	x 736	1.42	↓	2.34	←	←	x 480	2.18	↓	2.34	←	←	x 336	3.12	x 704	2.97		
75,000	x 624	1.45	↓	2.02	←	←	x 400	2.27	x 832	2.18	x 896	4.05	x 288	3.15	x 608	2.98		
100,000	x 448	1.52	↓	1.52	←	←	x 288	2.36	x 608	2.24	↓	3.04	x 208	3.27	x 448	3.04		
120,000	x 368	1.54	x 768	1.47	x 896	2.53	x 224	2.53	x 480	2.36	↓	2.53	x 160	3.54	x 352	3.22		
150,000	x 288	1.57	x 608	1.49	↓	2.02	x 176	2.58	x 384	2.36	x 768	2.36	x 112	4.05	x 256	3.54		
200,000	x 192	1.77	x 416	1.63	x 832	1.63	x 112	3.04	x 256	2.66	x 512	2.66	x 64	5.32	x 160	4.25		
※4 220,000	x 176	1.76	x 384	1.61	x 768	1.61	x 96	3.22	x 224	2.76	x 448	2.76	x 48	6.45	x 128	4.84		
※5 300,000	x 96	2.36	x 256	1.77	x 512	1.77	x 48	4.73	x 128	3.54	x 256	3.54	x 32	7.09	x 64	7.09		
400,000	x 48	3.54	x 160	2.12	x 320	2.12	x 32	5.32	x 96	3.54	x 192	3.54	x 16	10.64	x 32	10.64		
500,000	x 32	4.25	x 96	2.83	x 192	2.83	x 16	8.51	x 32	8.51	x 64	8.51	x 16	8.51	x 32	8.51		
700,000	x 16	6.08	x 32	6.08	x 64	6.08	x 16	6.08	x 32	6.08	x 64	6.08	x 16	6.08	x 32	6.08		
1,000,000	x 16	4.25	x 32	4.25	x 64	4.25												

Configurations

- | | | |
|------------------------------|-----------------------------|------------------------|
| Standard | Options | |
| • ACS Camera | • AC Adapter (Power Supply) | • Analog Wave Inserter |
| • Tripod Plate | | • Built-in SSD 1TB |
| • Standard Comm. Cable | • F-Mount Adapter | • AUX Cable |
| • NAC Control Software MLink | • C-Mount Adapter | • SYNC Cable |
| • Operation Manual | • EF-Mount Adapter | • Carrying Case |
| | • V-PAD | |



※1 Option
 ※2 Recording Time is 128GB model at 12-bit recording
 ※3 Monochrome output in boost mode
 ※4 Export Control Model
 ※5 Required Export License

Specifications described above are subject to change without notice.

Visit our website at



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