

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
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
ISO (REI)	ISO 5,000 — 40,000 (color) ISO25,000 — 200,000 (Mono)
Electric Shutter <M60>	1/10 ~ 1/2,500,000 sec. ^{※5} 1/10 ~ 1/909,090 sec. ^{※4}
<M40 / M30>	1/10 ~ 1/1,666,666 sec. ^{※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 736	3.08		
65,000	x 736	1.42	↓	2.34	←	←	x 480	2.18	↓	2.34	←	←	x 336	3.12	x 672	3.12		
75,000	x 624	1.45	↓	2.02	←	←	x 400	2.27	x 800	2.27	x 896	4.05	x 288	3.15	x 576	3.15		
100,000	x 448	1.52	↓	1.52	←	←	x 288	2.36	x 576	2.36	↓	3.04	x 208	3.27	x 416	3.27		
120,000	x 368	1.54	x 704	1.61	x 896	2.53	x 224	2.53	x 448	2.53	↓	2.53	x 160	3.54	x 320	3.54		
150,000	x 288	1.57	x 544	1.67	↓	2.02	x 176	2.58	x 352	2.58	x 704	2.58	x 112	4.05	x 224	4.05		
200,000	x 192	1.77	x 384	1.77	x 768	1.77	x 112	3.04	x 224	3.04	x 448	3.04	x 64	5.32	x 128	5.32		
※4 220,000	x 176	1.76	x 352	1.76	x 640	1.93	x 96	3.22	x 192	3.22	x 384	3.22	x 48	6.45	x 96	6.45		
※5 300,000	x 96	2.36	x 192	2.36	x 384	2.36	x 48	4.73	x 96	4.73	x 192	4.73	x 32	7.09	x 64	7.09		
400,000	x 48	3.54	x 96	3.54	x 192	3.54	x 32	5.32	x 64	5.32	x 128	5.32	x 16	10.64	x 32	10.64		
500,000	x 32	4.25	x 64	4.25	x 128	4.25	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	8.51	x 32	8.51		
1,000,000	x 16	4.25	x 32	4.25														

Configurations

- | | |
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| Standard | Options |
| <ul style="list-style-type: none"> ACS Camera Tripod Plate Standard Comm. Cable NAC Control Software MLink Operation Manual | <ul style="list-style-type: none"> AC Adapter (Power Supply) F-Mount Adapter C-Mount Adapter EF-Mount Adapter V-PAD Analog Wave Inserter Built-in SSD 1TB AUX Cable SYNC Cable Carrying Case |



※1 Option
 ※2 Recording Time is 128GB model at 12-bit recording
 ※3 Only monochrome
 ※4 Export Control Model
 ※5 Required Export License

Specifications described above are subject to change without notice.

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