

# MEMRECAM ACS-1 M60



## World First's 60G Pixel/sec High Speed Camera System

**1,280 × 896 pixel 100,000 fps**

Full Resolution at Ultra-High Speed shooting range

※ In boost mode

**Ultra High Sensitivity**

**Color ISO 20,000**

**Mono ISO 100,000**

500% brighter than conventional model

※ Compare to MEMRECAM GX-8F

**USB3.0B Fast download**

400% faster data transfer time

※ vs LAN connection

**Max.256GB Built-in memory**

For longer recording time & memory segment recording in repetitive experiments

Features

Boost mode	For increased FPS or Vertical Resolution
Auto Black Balance	Auto correction by Mechanical Shutter
Memory Segment	Up to 64 Segments
Built-in SSD <sup>*1</sup>	Faster Auto Storage into Built-in SSD Backup image data while in 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 sensed at the minimum area of 21x16 pixel
Dual Framing Rate	1x and 1/2 ~ 1/100x
CAM MODE LED	Status LED : READY / VIEW / ARM / REC
SYNC Recording	Fully synchronized with GX-HUB
Frame straddling shooting	Record continuous 2 pictures for PIV analysis Support minimum 500ns 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

Recording Time

fps	(Normal mode) <sup>*2</sup>			(Boost mode) <sup>*2</sup>		
	pixel (H)	pixel (V)	Recording Time in sec.	pixel (H)	pixel (V)	Recording Time in sec.
50~54,000	1,280	896	1.41	—	—	—
60,000	1,280	800	1.42	1,280	896	2.54
65,000	1,280	736	1.42	1,280	896	2.34
75,000	1,280	624	1.46	1,280	896	2.03
100,000	1,280	448	1.52	1,280	896	1.52
150,000	1,280	272	1.67	1,280	540	1.67
200,000	1,280	192	1.77	1,280	384	1.77
300,000	1,280	96	2.37	1,280	192	2.37
400,000	1,280	48	3.55	1,280	96	3.55
500,000	1,280	32	4.26	1,280	64	4.26
700,000	1,280	16	6.09	1,280	32	6.09
1,000,000	1,280	16	4.26	1,280	32	4.26

Specifications

Sensor	1.14M Pixel, CMOS
Active Pixel	1,280x896
ISO(REI)	ISO 5,000 - 40,000 (color) ISO 25,000 - 200,000 (Mono)
Electric Shutter	1/100 ~ 1/2,500,000 sec.
Memory	64GB / 128GB / 256GB
Memory Segment	Up to 64 Segments
Bit Depth	8bit / 10bit / 12bit
Lens Mount	F Mount (Support to Iris ring-less Lens) C Mount <sup>*1</sup> EF Mount <sup>*1</sup>
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 <sup>*1</sup>	PC (V-PAD 11.6" Touch Panel Monitor)
Power	20-32VDC
Dimensions	Approx. 175Wx175Hx206D mm (without handle)
Weight	Approx. 7.3kg

<sup>\*1</sup> Option

<sup>\*2</sup> Recording Time is at 12-bit recording

Configurations

Standard (Japan)

- ACS Camera
- F-Mount Adapter
- Tripod Plate
- Standard Comm. Cable
- AC Adapter
- NAC Control Software MLink
- Operation Manual
- Carrying Case

Options

- C-Mount Adapter
- EF-Mount Adapter
- V-PAD
- Analog Wave Inserter
- Built-in SSD 1TB
- AUX Cable
- SYNC Cable



V-PAD <sup>\*1</sup>

