

# MEMRECAM ACS-3 M16



**1280 × 896 pixel 50,000 fps**

1Mpixel Resolution at Ultra-Fast Framing Rates ※ In Boost4 mode

**Ultra High Sensitivity**

**Color ISO 20,000**

**Mono ISO 100,000**

500% brighter than conventional model ※ Compared with MEMRECAM GX-8F

**HDR mode available**

※ Only Monochrome

**USB 3.0B Fast Download**

400% faster data transfer ※ Compared with LAN connection

**Compact housing (WHD)**

**128 × 128 × 206 mm**

Features

Boost mode <sup>※3</sup>	For increased FPS or Vertical Resolution
Auto Black Balance	Mechanical Calibration Shutter
Memory Segment	Up to 64 Segments
Built-in SSD <sup>※1</sup>	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
HDR <sup>※3</sup>	Allows more realistic depiction of brightness and darkness
Image Trigger	Triggered by intensity shifts detected in a minimum area of 42x32 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) ISO 25,000 - 200,000 (Mono)
Electric Shutter	1/10 ~ 1/1,666,666 sec. <sup>※5</sup> 1/10 ~ 1/909,090 sec. <sup>※4</sup>
Memory	16GB / 32GB / 64GB
Memory Segment	Up to 64 Segments
Bit Depth	8bit / 10bit / 12bit
Lens Mount <sup>※1</sup>	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 <sup>※1</sup>	PC / V-PAD (11.6" Touch Panel Monitor)
Power	20-32V DC
Dimensions	Approx. 128Wx128Hx206D mm (without handle)
Weight	Approx. 4.5kg

※1 Option  
 ※2 Recording Time is 32GB model at 12-bit recording  
 ※3 Only monochrome  
 ※4 Export Control Model  
 ※5 Required Export License

Recording Time <sup>※2</sup>

fps	(Normal mode)			(Boost mode)		(Boost4 mode)	
	pixel (H)	x (V)	Recording Time in sec.	pixel x (V)	Recording Time in sec.	pixel x (V)	Recording Time in sec.
50 ~ 14,000	1280	x 896	1.35	—	—	—	—
16,000		x 800	1.33	x 896	2.37	—	—
17,000		x 720	1.39	x 896	2.23	—	—
20,000		x 624	1.36	x 896	1.90	—	—
25,000		x 496	1.37	x 896	1.52	—	—
30,000		x 400	1.41	x 800	1.41	x 896	2.53
40,000		x 288	1.47	x 576	1.47	x 896	1.90
50,000		x 224	1.52	x 448	1.52	x 896	1.52
65,000		x 160	1.63	x 320	1.63	x 640	1.63
75,000		x 144	1.47	x 288	1.57	x 512	1.77
100,000		x 96	1.77	x 192	1.77	x 384	1.77
120,000		x 80	1.77	x 160	1.77	x 256	2.21
150,000		x 48	2.36	x 96	2.36	x 192	2.36
200,000		x 32	2.66	x 64	2.66	x 128	2.66
<sup>※4</sup> 220,000		x 16	4.83	x 32	4.83	x 64	4.83
<sup>※5</sup> 400,000		x 16	2.66	x 32	2.66	x 64	2.66

Configurations

Standard

- ACS Camera
- Tripod Plate
- Standard Comm. Cable
- NAC Control Software MLink
- Operation Manual

Options

- 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



V-PAD <sup>※1</sup>



Visit our website at

Specifications described above are subject to change without notice.



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