

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 ^{※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
HDR ^{※3}	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
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	1/10~1/2,500,000sec. ^{※5} 1/10 ~ 1/909,090 sec. ^{※4}
Memory	16GB / 32GB / 64GB
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	20-32V DC
Dimensions	Approx. 128Wx128Hx206D mm (without handle)
Weight	Approx. 4.5kg

※1 Option
 ※2 Recording Time is 32GB model at 12-bit recording
 ※3 Monochrome output in boost mode
 ※4 Export Control Model
 ※5 Required Export License

Recording Time ^{※2}

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
^{※4} 220,000		x 16	4.83	x 32	4.83	x 64	4.83
^{※5} 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 ^{※1}



Visit our website at

Specifications described above are subject to change without notice.



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