

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

USB3.0B 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
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
ISO (REI)	ISO 5,000 - 40,000 (color) ISO 25,000 - 200,000 (Mono)
Electric Shutter	1/10 ~ 1/1,666,666 sec. ^{※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 Only monochrome

※4 Export Control Model

※5 Required Export License

Recording Time ^{※2}

fps	(Normal mode)			(Boost mode)		(Boost4 mode)	
	pixel		Recording Time in sec.	pixel	Recording Time in sec.	pixel	Recording Time in sec.
50 ~	(H)	x (V)		x (V)		x (V)	
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.

Contact Us in the Americas:

nac Americas, Inc.

193 Jefferson Ave, Suite 102
Salem, MA 01970 U.S.A.
Tel: (833) 600-0280
E-mail: sales@nacinc.com

Contact Us in Europe:

MESSRING GmbH

Friedrichshafener Straße 4c
82205 Gilching, Germany
Tel: +49 8153 407 96 333
E-mail: sales@messring.de

Contact Us in Asia:

nac Image Technology Inc.

2-11-3 Kita-Aoama, Minato-ku
Tokyo 107-0061 Japan
Tel: +81 3 3796 7903
E-mail: nacinternational@camnac.co.jp