nac
IMAGE TECHNOLOGY

High Speed Camera for R&D / Defense / Aerospace

MEMRECAM ACS-3

M16

1,280×896 pixel   25,000 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*

USB 3.0B Fast download
400% faster data transfer time ※ *vs LAN connection*

Compact housing (WHD)
128×128×206 mm

www.nacinc.de

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M16

Features

Boost mode [3]	For increased FPS or Vertical Resolution
Auto Black Balance	Auto correction by Mechanical Shutter
Memory Segment	Up to 64 Segments
Built-in SSD [1]	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)			(Boost mode)		
	pixel (H)	(V)	Recording Time [2] in sec.	pixel (H)	(V)	Recording Time [2] in sec.
50～14,000	1,280	896	1.36	—	—	—
16,000	1,280	800	1.33	1,280	896	2.38
17,000	1,280	720	1.39	1,280	896	2.24
20,000	1,280	624	1.36	1,280	896	1.90
25,000	1,280	496	1.37	1,280	896	1.52
30,000	1,280	400	1.42	1,280	800	1.42
40,000	1,280	288	1.48	1,280	576	1.48
50,000	1,280	224	1.52	1,280	448	1.52
65,000	1,280	160	1.64	1,280	320	1.64
75,000	1,280	144	1.58	1,280	288	1.58
100,000	1,280	96	1.77	1,280	192	1.77
120,000	1,280	80	1.77	1,280	160	1.77
150,000	1,280	48	2.37	1,280	96	2.37
200,000	1,280	32	2.66	1,280	64	2.66
400,000	1,280	16	2.66	1,280	32	2.66

Specifications

Sensor	1.14M Pixel, CMOS
Active Pixel	1,280×896
ISO(REI)	ISO 5,000 - 40,000 (color) ISO 25,000 - 200,000 (Mono)
Electric Shutter	1/100 ～ 1/1,666,666 sec.
Memory	16GB / 32GB / 64GB
Memory Segment	Up to 64 Segments
Bit Depth	8bit / 10bit / 12bit
Lens Mount	F Mount (Support to Iris ring-less Lens) C Mount [1] EF Mount [1]
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. 128W×128H×206D mm (without handle)
Weight	Approx. 4.5kg

※1 *Option*
※2 *Recording Time is 32GB model at 12-bit recording*
※3 *Only monochrome*

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[1]

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