nac IMAGE TECHNOLOGY

MEMRECAM ACS

The nac *MEMRECAM ACS*...

World's First 40 Gigapixel Per Second High Speed Video Camera

The Latin word Acies (ACS for short) is defined as the full attention of one's sight, and senses, as directed towards a particular object. Based on that description, what an appropriate name for nac's new *MEMRECAM* high speed system!

High Speed / High Resolution

- 1280 X 800 (1M Pixel)   40,000fps
- 864 X 640   50,000fps
- 800 X 528   60,000fps

High Sensitivity / High Quality

- ISO 50,000
- Superior High Dynamic Range

Long Recording Time / Faster Data Transfer

- 64GB / 128GB / 256GB
- Faster Data Transfer to Optional SSD

Compact

- Dimension: 175W X 175H X 206D mm
- Weight: Approx. 7.3kg

High Speed Cameras for R&D / Science / Defense / Aerospace

nac Image Technology Inc.

www.nacinc.com

Features

Auto Black Balance	Auto Correction by Mechanical Shutter
Memory Segment	Up to 64 Segments With 64 Blocks
Built - in SSD *1	Faster Auto Storage into Built - in SSD Backup Image data while recording
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 21 X 16 pixel
Dual Framing Rate	1x and 1/2~1/100x
CAM MODE LED	Status: LED: Ready/View/Arm/Rec

Specifications

Sensor	Proprietary CMOS Global Shutter 28.16mm x 19.71mm all Active pixels
Active Pixel	1,280 x 896
ISO (REI)	50,000
Memory	64GB / 128GB / 256GB
Bit Depth	8bit / 10bit / 12bit
Lens Mount	F Mount (Support to Iris ring - less Lens) / C Mount*1
Video Output	DisplayPort / HDMI / 3G-SDI
Input Signal	Trigger (TTL/Contact) / EST / IRIG-B
Output Signal	Status (Arm/Fault) / Exp. Pulse / Trigger Out / VD Out
Control	PC or V-Pad*1 (11.6'' Touch Panel Monitor)
Power	20-32VDC
Dimensions	Approx. 175W x 175H x 206D mm
Weight	Approx. 7.3kg

VIEW ARM REC

Recording Times

FPS	Pixel		Recording Time in sec.		
	H	V	64GB	128GB	256GB
40,000	1280	800	1.59	3.19	6.38
45,000	1280	720	1.57	3.15	6.30
50,000	864	640	2.12	4.25	8.51
60,000	800	528	2.14	4.29	8.60
75,000	720	400	2.26	4.29	8.60
100,000	640	288	3.54	7.09	14.19
200,000	1,280	112	2.27	4.55	9.12

*1 Option

Options

Standard Configurations

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

Options

- C-Mount Adapter
- V-PAD
- Carrying Case
- Analog Wave Inserter
- MCFF Fast Conversion License
- Built-in SSD
- AUX Cable
- SYNC Cable