



Providing quality and reliability since 1958

MEMRECAM ACS

The Worlds first 40 Gigapixel Per Second High Speed Camera

1280 x 800 @ 40,000 frames per second (fps)



MEMRECAM ACS

Features

Auto Black Balance	>>	Auto Correction by Mechanical Shutter
Memory Segment	>>	Up to 64 Segments with 64 Blocks per segment
Built in SSD (Optional)	>>	Fast Auto Storage to Built in SSD
Parallel record and download	>>	Record into one segment while downloading from another
Image Trigger	>>	Trigger the recording by intensity shifts
Dual Frame Rate Recording	>>	Record into two memory segments at the same time with different FPS
CAM MODE LED	>>	LED shows status of the camera



Specification

Sensor	Proprietary CMOS Global Shutter 28.16mm x 19.71mm All Active Pixels
Active Pixels	1280 x 896
Pixel Size	22µm square
ISO (REI)	100,000 (monochrome)
Memory	64GB / 128GB / 256GB
Bit Depth	8bit / 10bit / 12bit (user selectable)
Minimum Exposure	600ns
Max FPS	540,000
Lens Mount	F-Mount / C-Mount (option)
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 (11.6" Touch Panel - Option)
Power	20-32V DC
Dimensions	175w x 175h x 206d mm
Weight	7.3Kg

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



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High Speed Camera System



Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
	FPS	Hor.	Vert.	64GB	128GB
<=35,000	1280	896	--	--	--
40,000	1280	800	1.56	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	1280	112	2.27	4.55	9.12
540,000	1280	16			

Options

Standard Items	Options
ACS Camera	C-Mount Lens Adapter
F-Mount	V-Pad (11.6" Touch Screen Controller)
Tripod Plate	Carry Case
Standard Comms Cable	Analogue Wave Inserter
AC Adapter	Built in SSD
Software & Manual	AUX Cable
	SYNC Cable

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nac
IMAGE TECHNOLOGY

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