



Providing quality and reliability since 1958

MEMRECAM ACS-1M60, ACS-1M40

The Worlds first 60 Gigapixel Per Second High Speed Camera

1280 x 800 @ 60,000 fps (colour)
 1280 x 896 @ 100,000 fps (monochrome)



Features	
Boost Mode <small>monochrome only</small>	Increases resolution in highest speed
Auto black Balance	Mechanical Shutter
Memory Segment	up to 64 Segments
Built in SSD <small>Option</small>	Fast Auto Storage to built in SSD
Faster Download	Download via USB3.0B to PC Download via GigE
Download Rec	Download a memory segment while recording another segment
Image Trigger	Triggered in a minimum area of 21 x 16 pixels
Dual Framing rate	1x and 1/2 - 1/100x
CAM Mode LED	Status LED READY/VIEW/ARM/REC
Frame Straddle mode	Record continuous image pairs for PIV Applications
Fan Control	Pause Control / auto control / forced cooling
EST Sync	Sync with an External Signal

Specifications	
Sensor	1.14M Pixel, CMOS 28.16mm x 19.71mm
Active Pixels	1280 x 896
Pixel Size	22µm square
ISO (REI)	100,000 (monochrome) 20,000 (colour)
Memory	64GB / 128GB / 256GB
Memory Segment	up to 64 segments
Bit Depth	8bit / 10bit / 12bit
Electronic Shutter	M60 - Open to 400ns M40 - Open to 600ns
Video Output	DisplayPort / HDMI / 3G-SDI
Input Signal	Trigger / EST / IRIG-B
Output Signal	STATUS / Exp. Pulse / Trigger Out
Control	PC (GigE) V-PAD (11.6" Touch Panel - Option)
Power	20-32V DC
Dimensions	175w x 175h x 206d mm
Weight	7.3Kg



High Speed Camera for Sophisticated Applications



MEMRECAM ACS-1/M60, ACS-1/M40

High Speed Camera System

Resolution Chart / Recording time (128GB 12 bit)								
Frame Rate FPS	M60				M40			
	Normal Mode {i - interpolated} {s - Sensor resolution}		Boost Mode {monochrome Only}		Normal Mode {i - interpolated} {s - Sensor resolution}		Boost Mode {monochrome Only}	
	Pixel (H) x (V)	Time in sec	Pixel (H) x (V)	Time in sec	Pixel (H) x (V)	Time in sec	Pixel (H) x (V)	Time in sec
50 - 35,000	2560 x 1796(i) 1280 x 896 (s)	-	-	-	2560 x 1796(i) 1280 x 896 (s)	-	-	-
35,000	2560 x 1796(i) 1280 x 896 (s)	2.17	-	-	2560 x 1796(i) 1280 x 896 (s)	2.17	-	-
40,000	2560 x 1796(i) 1280 x 896 (s)	1.90	-	-	2560 x 1600(i) 1280 x 800 (s)	2.13	1280 x 896	3.80
45,000	2560 x 1796(i) 1280 x 896 (s)	1.69	-	-	2560 x 1480(i) 1280 x 720 (s)	2.10	1280 x 896	3.38
50,000	2560 x 1796(i) 1280 x 896 (s)	1.52	-	-	2560 x 1280(i) 1280 x 640 (s)	2.13	1280 x 896	3.04
60,000	2560 x 1600(i) 1280 x 800 (s)	1.42	1280 x 896	2.54	2560 x 1056(i) 1280 x 528 (s)	2.15	1280 x 896	2.54
65,000	2560 x 1472(i) 1280 x 736 (s)	1.42	1280 x 896	2.27	2560 x 960(i) 1280 x 480 (s)	2.18	1280 x 896	2.34
75,000	2560 x 1248(i) 1280 x 624 (s)	1.46	1280 x 896	2.03	2560 x 800(i) 1280 x 400 (s)	2.27	1280 x 800	2.27
100,000	2560 x 896(i) 1280 x 448 (s)	1.52	1280 x 896	1.52	2560 x 576(i) 1280 x 288 (s)	2.37	1280 x 576	2.27
120,000	2560 x 736(i) 1280 x 368 (s)	1.54	1280 x 704	1.61	2560 x 448(i) 1280 x 224 (s)	2.54	1280 x 448	2.54
150,000	2560 x 576(i) 1280 x 288 (s)	1.58	1280 x 544	1.67	2560 x 352(i) 1280 x 176 (s)	2.58	1280 x 352	2.58
200,000	2560 x 384(i) 1280 x 192 (s)	1.77	1280 x 384	1.77	2560 x 224(i) 1280 x 112 (s)	3.04	1280 x 224	3.04
220,000	2560 x 352(i) 1280 x 176 (s)	1.76	1280 x 352	1.76	2560 x 192(i) 1280 x 96 (s)	3.23	1280 x 192	3.23
300,000	2560 x 192(i) 1280 x 96 (s)	2.37	1280 x 192	2.37	2560 x 96(i) 1280 x 48 (s)	4.73	1280 x 96	4.73
400,000	2560 x 96(i) 1280 x 48 (s)	3.55	1280 x 96	3.55	2560 x 64(i) 1280 x 32 (s)	5.32	1280 x 64	5.32
500,000	2560 x 64(i) 1280 x 32 (s)	4.26	1280 x 64	4.26	2560 x 32(i) 1280 x 16 (s)	8.52	1280 x 32	8.52
700,000	2560 x 32(i) 1280 x 16 (s)	6.09	1280 x 32	6.09	2560 x 32(i) 1280 x 16 (s)	6.09	1280 x 32	6.09
1,000,000	2560 x 32(i) 1280 x 16 (s)	4.26	1280 x 32	4.26	N/A	N/A	N/A	N/A



Options
C-Mount Lens Adapter
Canon EF Lens Adapter
V-Pad (11.6" Touch Screen Controller)
Carry Case
Analogue Wave Inserter
Built in SSD
AUX Cable

Camera Status of All ACS Cameras displayed with LED Strip



VIEW



ARM



REC

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