

FASTCAM MC2

HIGH PERFORMANCE H.S. VIDEO SYSTEM



High Speed Video System developed specifically for production line and automation fault finding

The FASTCAM MC2 has been designed to meet the requirements of development and production engineers in manufacturing and automation environments:

- A robust system with one or two remote camera heads that are small and light weight enabling it to be positioned in inaccessible and space limited environments.
- A light sensitive CMOS imaging sensor allowing images to be captured with minimal additional lighting.
- High frame rates and image resolution to allow clear visualization and motion analysis.
- Operational features necessary for recording in production environments including optional handheld remote controller with built-in LCD display.
- Gigabit Ethernet interface, complete with automatic download to users network

Benefits

- Small and lightweight camera heads: 35mm x 35mm x 35mm (without lens)
- 2,000fps (frames per second) recording rate at full image resolution
- Rugged design for use in industrial environments. Remote camera head with 7 meter cable allows positioning in difficult to access locations
- Three model options (monochrome or color):
 - **Model 500:** 512 x 512 pixel resolution at frame rates up to 500fps
 - **Model 2K:** 512 x 512 pixel resolution at frame rates up to 2,000fps
 - **Model 10K:** 512 x 512 pixel resolution at frame rates up to 2,000fps and frame rates up to 10,000fps with reduced image resolution
- 1GB (4 seconds recording time at 1,000fps) or 2GB (8 seconds recording time at 1,000fps) memory
- Gigabit Ethernet control via Photron FASTCAM Viewer (PFV) software
- Optional handheld remote controller with integrated 5" LCD monitor for simple control of all functions and viewing of live and recorded images.
- High speed video can be synchronized with external data from load cells or accelerometer, analog or digital

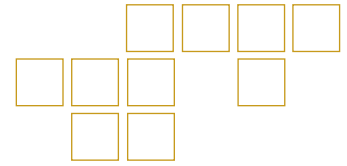


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Specifications

MODEL			FRAME RATE [fps]	MAX RESOLUTION [pixels]	EXPOSURE TIME	RECORDING DURATION [seconds] 1GB / 2GB memory	RECORDING DURATION [frames] 1GB / 2GB memory
10,000	2,000	500	250	512 x 512	1 / frame rate to 6µs	16.0 / 32.0	4,092 / 8,184
			500	512 x 512		8.0 / 16.0	4,092 / 8,184
			1,000	512 x 512		4.0 / 8.0	4,092 / 8,184
	2,000	512 x 512	2.0 / 4.0	4,092 / 8,184			
	3,000	512 x 352	1.9 / 3.8	5,693 / 11,386			
	4,000	512 x 256	2.0 / 4.0	8,184 / 16,368			
	8,000	512 x 128	2.0 / 4.0	16,368 / 32,736			
	10,000	512 x 96	2.2 / 4.4	21,824 / 43,648			

Sensor	CMOS (Bayer system color, single sensor) with 10µm pixel, global electronic shutter
Shutter	Global electronic shutter from 20ms to 6µs
Saved Image Formats	JPEG, AVI, TIFF, BMP, RAW, RAWW, PNG, and FTIF
Phase Lock	Enables cameras to be synchronized precisely together to a master camera or external source
Triggering	Selectable positive or negative TTL 5Vp-p, or switch closure
Lens Mount	C-mount
Data Display	Frame Rate, Shutter Speed, Trigger Mode, Date or Time (can be switched), Status (Playback/Record), Real Time, Frame Count and Resolution
Viedo Output	NTSC or PAL. Live video during recording. Ability to zoom, pan and scroll within image via keypad
Recording Modes	Start, End, Center, Manual, Random
Camera Control	Through a Gigabit Ethernet PC interface and optional RS-422 keypad
Camera Cable Length	7 meters (23')
Dimensions and Weight	Processor: 195mm (7.68")H x 159mm (6.26")W x 130mm (5.12")D *excluding protrusions Weight: 11 lbs (5 kg) Camera Head: 35mm (1.38")H x 35mm (1.38")W x 33.3 mm (1.31")D *excluding protrusions Weight: 0.2 lbs (90g)
Power Requirements	DC operation 18-36 VDC, 45VA, 100V - 240V AC, 50-60Hz power supply provided
Video Output	NTSC, PAL RS170 video output

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