

Fastcam™ Super

Monochrome models (500, 1000, 3000, 10000)
Color models (500, 1000, 3000, 10000)

The Fastcam™ Super family is the latest in a series of compact, color and monochrome high speed motion analysis systems. Designed for use in high speed manufacturing, this product family offers the ultimate in portability and performance on the production floor. It includes a full range of standard features, and optional accessories to record, view, measure, and store the image information required to help solve the most challenging production problems.

The Fastcam™ Super family offers models with speeds of up to 10000 frames per second and all utilize an electronic shutter to minimize motion blur.

RUGGED DESIGN

Designed for factory use, the Fastcam™ Super camera is built to be used in industrial environments. The small size and weight make the system truly portable. Utilizing a standard C-mount lens, the small camera head can be positioned in many of the most difficult to reach places. The system utilizes an optional 8 mm video cassette recorder to download captured image sequences from the internal memory.

EASE OF OPERATION

On screen menus make operating the camera simple and fast. A variety of trigger modes and a digital memory that can store up to 2184 full frames make the Fastcam™ Super the ideal tool to capture unpredictable events, like the breakdown of a production line. The playback speed can be varied

from a single frame per second to 250 frames per second. The Fastcam™ Super features a unique variable record and display format that can be used to increase the frame rate or extend the number of images that can be stored in the digital memory. The system can be easily transported in an optional portable carrying case, which can also contain all necessary accessories to record and analyze most applications.

POWERFUL INPUT/OUTPUT OPTIONS

Captured images may be transferred to video tape or downloaded as standard TIFF files via the SCSI-2 port directly to a personal computer for post event digital processing and analysis. In addition, the Fastcam™ Super accepts both analog and digital input through the optional Multi Channel Data Link accessory. With this capability, signals such as voltages and switch closures can be recorded and displayed along with the images.

SERVICE AND SUPPORT

As a leader in the field, we have the experience to help you solve the most difficult production problems. A range of accessories can extend the capability of the system to fit your specific needs.

Rugged Industrial Design

Designed for harsh industrial environments.

Compact and Lightweight

The system can be easily transported and set up quickly. It also provides access to hard-to-reach areas with the small camera head.

High Speed

Records up to 10000 frames per second with shutter speeds as fast as 50 µsec

Digital Memory

Dynamic RAM is used to record and instantly play back video with 256 levels of gray (monochrome model) and full color images (color model).

Full System

A full range of optional accessories and a rugged hard shell carrying case are available for maximum portability.

X - Y Reticle

Has built-in reticle for quick analysis.



Specifications Fastcam™ Super

Sensor:	Type: CCD Resolution: 512 x 480 pixels Pixel Size: 7.4 x 7.4 microns Scanning: Progressive (non-interlaced) Electronic Shuttering: As fast as 50 µsec (depending on frame rate)
Display Resolution:	Gray Scale: 256 levels Features: Electronic zoom Video: RS-170 NTSC or PAL, and Y/C
Recording Rate:	30, 60, 125, 250, 500, 1000, 2000, 3000, 5000 and 10000 FPS (Maximum recording rates depend upon the Model.)
Trigger Modes:	Start, Center, End, Random Activation: Control panel, external input (TTL) or switch closure
Recording Time and Frame Storage	

Model	Recording Rate (fps)	Image Output Resolution (pixels)	Standard Memory	Memory Upgrade Option 2	Memory Upgrade Option 3
500 (C)	30	512 x 480	18.2 / 546	45.4 / 1364	72.8 / 2184
	60	512 x 480	9.1 / 546	22.7 / 1364	36.4 / 2184
	125	512 x 480	4.4 / 546	10.9 / 1364	17.5 / 2184
	250	512 x 480	2.2 / 546	5.4 / 1364	8.7 / 2184
1000 (C)	500	512 x 240	2.2 / 1092	5.4 / 2730	8.7 / 4368
	1000	256 x 240 *	2.2 / 2184	5.5 / 5460	8.7 / 8738
3000 (C)	2000	256 x 120	2.2 / 4368	5.4 / 10922	8.7 / 17476
	3000	128 x 120 *	2.9 / 8736	7.2 / 21844	11.6 / 34952
10000 (C)	5000	128 x 80	2.6 / 13104	6.5 / 32768	10.4 / 52428
	10000	128 x 34	3.0 / 30832	7.7 / 77088	12.3 / 123360

All models can be upgraded to any other model (monochrome and color)

* **Electronic zoom:** Full video zoom

Other Features:	Lens mount: Standard C-mount Storage: DRAM memory Output: PAL, 1 Volt P-P, 75 ohm
Playback rates:	2, 5, 10, 25, 50, 100, 200 and 250 FPS (PAL)
ID number:	Settable from 1 - 99
X-Y reticle:	On screen measurements for X - Y location
External output signal:	V-sync signal (5 Vp-p positive going)
External sync input:	TTL (for multiple-system operation)
External communications:	RS-232 interface
Data Display:	<ul style="list-style-type: none"> ▪ Rec. Rate ▪ Playback standard ▪ MCDL ▪ ID NR ▪ Exposure ▪ Trigger mode ▪ Date/Time ▪ Record mode ▪ Download mode ▪ Rec. Status ▪ Frame count ▪ X Y reticle position
External Data Input:	Accepts 2 analog and 6 digital data inputs via Multi Channel Data Link Option
Digital Data Output:	8 bit monochrome or 24 bit color TIFF file export via SCSI-2 connected personal computer
Dimensions:	Main unit: 16.0 cm width; 33.0 cm length; 18.0 cm height; 8.2 kg (excluding handle) Camera head: 5.1 cm width; 11.4 cm length; 5.1 cm height; 0.8 kg (excluding lens) Power Supply: 16.8 cm width; 33.0 cm length; 6.3 cm height; 2.6 kg
Imager Cable length:	6 m standard (16 m optional)
Power Requirements:	Voltage: 12 VDC (110 or 240 Volt with optional power supply) Power: 60 Watt without lights ; 210 Watt with lights
Operating Case Temp:	0°C to + 35°C (no condensation)
Storage Case Temp:	-20°C to + 70°C (no condensation)
Emission/safety Standards:	Meets all applicable international standards
Note:	FASTCAM is a registered trademark



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Note: Specifications are typical and subject to change
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