KODAK Motion Corder Analyzer

Colour Models Model SR-500c
Model SR-1000c
Model SR-Ultra-c

The KODAK Motion Corder Analyzer family is the latest in a series of compact, colour 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 Motion Corder family offers models with speeds of up to 10,000 frames per second and all utilise an electronic shutter to minimise motion blur.

RUGGED DESIGN

Designed for factory use, the Motion Corder camera is built to be used in industrial environments. The small size and weight make the system truly portable. Utilising a standard C-mount lens, the small camera head can be positioned in many of the most difficult to reach places.

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 2,184 full frames make the Motion Corder Analyzer 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 Motion Corder Analyzer 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 analyse 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.

In addition, the Motion Corder accepts both analog and digital input through the optional KODAK EKTAPRO 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.

- **High Speed**
  Records up to 10,000 frames per second with shutter speeds as fast as 50 microseconds.

- **Digital Memory**
  Dynamic RAM is used to record and instantly play back full colour video ("C" models) and 256 levels of gray (monochrome models).

- **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.

MOTION ANALYSIS SYSTEMS DIVISION

KODAK Motion Corder Analyzer, Color Models - SPECIFICATIONS

Sensor	**Type:**	CCD
	Pixel Size:	7.4 x 7.4 microns
	Scanning:	Progressive (noninterlaced)
	Electronic Shuttering:	As fast as 50 µsec (depending on frame rate)
Display Resolution:	**Gray Scale:**	256 levels (monochrome models)
	Features :	Electronic zoom
Video:	RS170 NTSC or PAL, and Y/C	
Recording Rate:	30, 60, 125, 250, 500, 1000, 2000, 3000, 5000 and 10,000 FPS (Maximum recording rates depend upon the Motion Corder Model.)	
Trigger Modes:	Start, Centre, End, Random Activation: Control panel, external input (TTL) or switch closure	

Recording Time and Frame Storage: Recording Time (Sec.) / Frame Storage

Colour Model	Recording Rate (fps)	Image Output Resolution (pixels)	Standard Memory	Memory Upgrade Option 2	Memory Upgrade Option 3
SR-500-C	30	512 x 480	18.2 / 546	45.4 / 1,360	72.8 / 2,184
	60	512 x 480	9.1 / 546	22.7 / 1,364	36.4 / 2,184
	125	512 x 480	4.4 / 546	10.9 / 1,364	17.5 / 2,184
	250	512 x 480	2.2 / 546	5.4 / 1,364	8.7 / 2,184
	500	512 x 240	2.2 / 1,092	5.4 / 2,730	8.7 / 4,368
SR-1000-C	1,000	256 x 240*	2.2 / 2,184	5.5 / 5,460	8.7 / 8,738
SR-Ultra-C	2,000	256 x 120	2.2 / 4,368	5.4 / 10,922	8.7 / 17,476
	3,000	128 x 120*	2.9 / 8,736	7.2 / 21,844	11.6 / 34,952
	5,000	128 x 80	2.6 / 13,104	6.5 / 32,768	10.4 / 52,428
	10,000	128 x 34	3.0 / 30,832	7.7 / 77,088	12.3 / 123,360

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

Other Features:	**Lens mounting:**	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
	***Electronic zoom:**	Full video zoom

Data Display:

- Rec. Rate
- ID NR
- Date/Time
- Rec. Status
- Playback standard
- Exposure
- Record mode
- Frame count
- MCDL
- Trigger mode
- Download mode
- X Y reticle position

External Data Input:	Accepts 2 analog and 6 digital data inputs via KODAK Multi Channel Data Link Option
Digital Data Output:	24 bit colour TIFF file export via SCSI-2 connected personal computer

Dimensions (mm):	**Main unit:**	160(w) x 330(l) x 180(h) mm; 8.2 kg (excluding handle)
	Camera head:	51(w) x 114(l) x 51(h) mm; 0.8 kg (excluding lens)
	Power Supply:	168(w) x 330(d) x 63(h) mm; 2.6 kg
Power Requirements:	**Voltage:**	12 VDC (110 or 240 Volt with optional power supply)
	Power:	60 Watt without lights
		210 Watt with lights
Operation Temperature:	0ºC to +35ºC (non-condensing)	
Storage Temperature:	-20ºC to +70ºC (non-condensing)	
Emission:	Meets all applicable international standards	
Safety:	Meets all applicable international standards	

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MotionCorder Representative