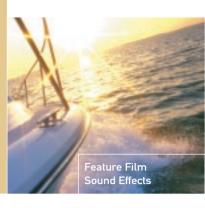


FR-2 Field Memory Recorder





EASY TO LISE CONTROLS Taking its cue from the PD-6 timecode DVD location recorder and Fostex's excellent pedigree in portable timecode DAT recording. the FR-2 is ergonomically designed so that all controls fall easily to hand. The large 132 x 64 dot matrix display provides clear and concise information at all times, while innovative features such as automated file/take naming enhance still further the usability.



INTERFACING The FR-2 is very well connected: the two analog inputs switchable between Mic & line on XI R connections link to top quality microphone pre-amps with selectable phantom power, while analog out is offered on RCA connectors. Digital I/O is selectable between AES/EBU and S/P-DIF, again on balanced XLR The USB ports allow direct connection to PC and MAC with an additional port allowing for an external keyboard to be used to aid file naming and operation



ROBUST DESIGN.
TOUGH
CONSTRUCTION
Designed from the
ground up to withstand
the rigours of in-thefield use, the FR-2 is
constructed out of highgrade materials and tried
& tested components.

High Quality Sound Recording

The new Fostex FR-2 has been designed specifically for location sound recording; high quality sound effects acquisition; TV & radio documentary; in fact any application where quality audio recording is required. With excellent quality (up to 24-bit / 192KHz recording - a first for a CF recorder), huge feature list and a cost-effective price point, the FR-2 offers users of portable DAT and other formats the opportunity to make the switch to a more flexible, higher quality audio acquisition machine without sacrificing features.

Main Features

- Recording industry standard, PCcompatible BWF files (stereo/mono) on a FAT32 media format
- Up to 24-bit/192kHz uncompressed recording
- Includes a unique 22.05kHz sampling frequency setting for extended recording
- Records to both Type II CompactFlashTM cards and PCMCIA 1.8" hard disk drives*1
- Fostex's "File per Take" system with auto scene & take naming/increment
- Two balanced XLR microphone inputs with switchable phantom power and top quality, high headroom mic pre-amps
- 132 x 64 dot matrix LCD screen for ease of use & high visibility in the field
- Uses AA-sized rechargeable NiMH batteries which are widely available due to the popularity of digital cameras. 8 AA cells will provide approximately 2.5 hours operation when recording to a CF card
- Easy file transfer to PC/Mac via PCMCIA, CF

^{*1} May require software update for PCMCIA HD operation *2 Complies with









adaptor or standard on-board USB connection for data editing and/or backup*2

- Quick and easy on-board file naming or via external keyboard through standard USB keyboard port
- "Pre-record" loop buffer of approximately 10 seconds*3
- Easy software update via CF or PCMCIA card with downloads from the internet
- Optional timecode generator / reader card

Excellent Audio Compatibility

In adopting the BWF Broadcast WAV file format, the FR-2 offers what is now the most popular choice for professional recording. It can be set to record mono or stereo files with 16 or 24-bit quantisation over a vast range of frequencies from 22.05kHz for extended recording time up to 192kHz for the highest quality audio acquisition. Transferring files for editing and/or backup is fast and simple via a Compact Flash reader attached to a computer; a PCMCIA slot and/or a CF adaptor ideal for those editing with a laptop; or indeed the on-board

Professional Features

USB port.

The FR-2 incorporates a number of features developed through Fostex's work in location DVD-RAM recording with the PD-6 and DV40.

Automated file/take naming speeds up time spent naming files between takes on location and complies with both US and Euro clapper board standards. In addition, the inclusion of a 'prerecord' buffer (user adjustable) means there should never be another missed take or lost soundbite!

Timecode

The FR-2 can be retrofitted with an optional, fully featured timecode card offering both reader and generator thus turning it into the ideal production and location recorder, whether it be used as a master or backup machine.

All Bases Covered

Excellent audio integrity, fully flexible recording, top quality mic amps, extensive interfacing plus optional timecode prove the Fostex FR-2 has all bases covered.

RECORDING TIME EXAMPLES: A 1GB CF card offers 86 minutes of stereo recording at 16bit/48kHz and 28 minutes at 24bit/96kHz.

A 5GB hard disk offers 434 minutes of stereo recording at 16bit/48kHz and 144 minutes at 24hit/96kHz



FR-2

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CHOICE OF MEDIA The FR-2 can record to Type II CompactFlash cards and the new breed of PCMCIA 1.8-inch hard disk drives (up to fs 96kHz), offering maximum flexibility and choice.

The new 1.8-inch Type II PC Card hard disk drives pack high capacity into a very compact format. Their powerful, lightweight design makes them an ideal acquisition media offering, for example 289 minutes of stereo recording at 24-bit/48kHz. For operation confirmed media, visit the fostex web site



Specifications

GENERAL					
Recording Media	CompactFlash card, PCMCIA HD				
Recording Format	BWF				
Number of Channels	Stereo / Mono				
Sampling Frequency	22.05 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192kHz				
Quantization	16 bit (22.05 - 48kHz), 24 bit (44.1 - 192kHz)				
PHYSICAL					
Power Requirement	8 x AA type dry cell (NiMH recommended)				
	AC adaptor (optional)				
	DC 12V				
Power Consumption	approx. 5W				
Dimension	250(W) x 77(H) x 220(D) mm				
Weight	1.5kg (w/out battery)				
PERFORMANCE					
R/P Frequency Response	20Hz to 10kHz +/-1dB (fs: 22.05kHz)				
	20Hz to 20kHz +/-1dB (fs: 44.1 / 48kHz)				
	20Hz to 40kHz +/-2dB (fs: 88.2 / 96kHz)				
	20Hz to 80kHz +/-3dB (fs: 176.4 / 192kHz)				
S/N	(ADC-DAC, 24-bit, ref: -20dB, fs:48kHz)				
	Line (input gain: +4dBu): 100dB (typical)				
	Mic: (input gain: -60dBu): 87dB (typical)				
Dynamic Range	100dB (ADC-DAC, 24bit, ref:-20dB, fs:48kHz) typical				
T.H.D.	(ADC-DAC, 24-bit, ref:-20dB, fs:48kHz)				
	Line (input gain: +4dBu): Less than 0.005% (at 1kHz, -1dB typical)				
	Mic (input gain: -60dBu): Less than 0.008% (at 1kHz, -1dB typical)				
Power Life	approx. 2 hours 30 min.				
	(8 x AA NiMH type/2300mAH)				

INPUT / OUTPUT CONNECTORS						
ANALOG AUDIO INPUT	L/R					
Connector	XLR-3-31 type (Pin2: Hot)					
LINE						
Input Impedance	More than 6k ohm					
Reference Input Level	+4dBu					
Maximum Input Level	+24dBu (Trim: +4dBu, at the prefader stage)					
MIC						
Input Impedance	More than 6k ohm					
Input Level	-60dBu					
Maximum Input Level	-40dBu (Trim: +4dBu, at the prefader stage)					
Phantom Power	P48					
ANALOG AUDIO OUTPUT	L(Mono)/R					
Connector	RCA pin type					
Output Load Impedance	more than 10k ohm					
Nominal Output Level	+4dBu					
HEADPHONE OUTPUT	50 + 50mW (32 ohm)					
MAX SPEAKER OUTPUT LEVEL	1W					
DIGITAL INPUT/OUTPUT (except f	or 176.4. 192kHz)					
Connector	XLR					
Input Format	S/P DIF / AES/EBU automatic					
Output Format	S/P DIF / AES/EBU switchable					
USB	x 2 (keyboard / PC only)					
TIMECODE CARD (OPTIONAL, T.B.	Δ)					
LTC Input/Output	I FMN					
Frame Rate	23.976/24/25/29.97DF/29.97ND/30DF/30ND					
Gen Mode	24H RUN / REC RUN / FREE RUN / EXT RUN					
	Z					



OPTIONS

Model 8347 Timecode Card

The FR-2 can be retrofitted with an optional timecode reader/generator card. Using a standard 5-pin locking Lemo connector, the card can be fully configured though FR-2's front panel display to provide all standard frame rates including 23.976 and 29.97drop; pull-up and pull-down and jam sync. The generator can work in 24 hour, Rec Run, Free Run or external, with output being set to repro or gen. The addition of the timecode card allows FR-2 to be used for location recording where portability is key and on sets not requiring an high number of independent tracks. Also FR-2 will become an ideal addition to a sound mixers arsenal also finding a use as a timecode backup machine to his/her main recorder.

Model AD12-1300 AC adaptor
An AC adaptor is also available for mains power operation.



Drive	Resolution		16 BITS				24	BITS		
Capacity	Fs (kHz)	22.05	44.1	48	44.1	48	88.2	96	176.4	192
1GB	MONO	376	187	172	124	114	61	56	30	27
1GB	STERE0	188	94	86	62	57	31	28	15	14
5GB	MONO	1888	943	867	628	577	313	288	156	143
5GB	STERE0	944	472	434	314	289	157	144	78	72

FOSTEX

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