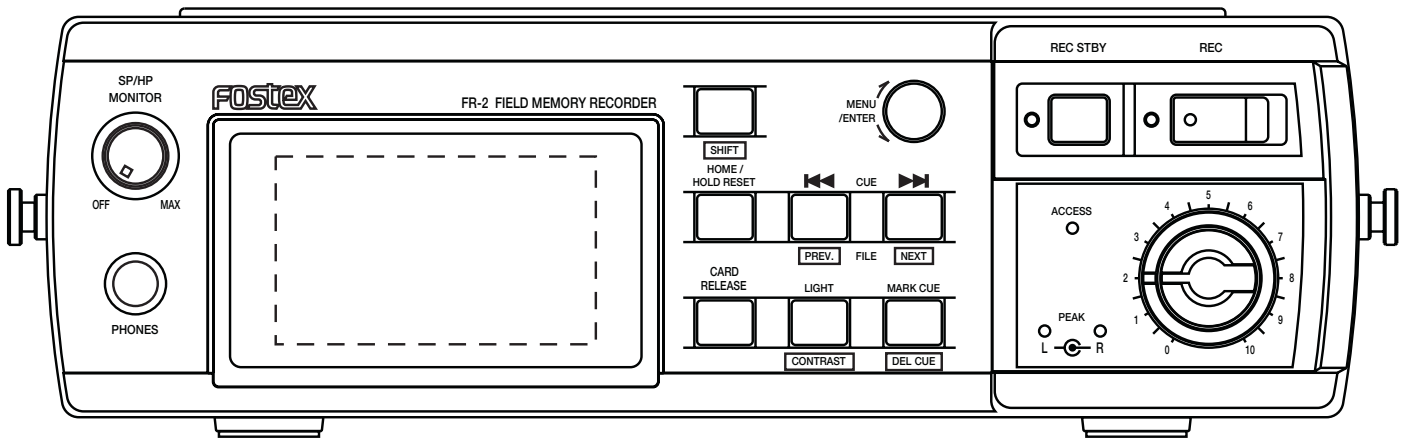


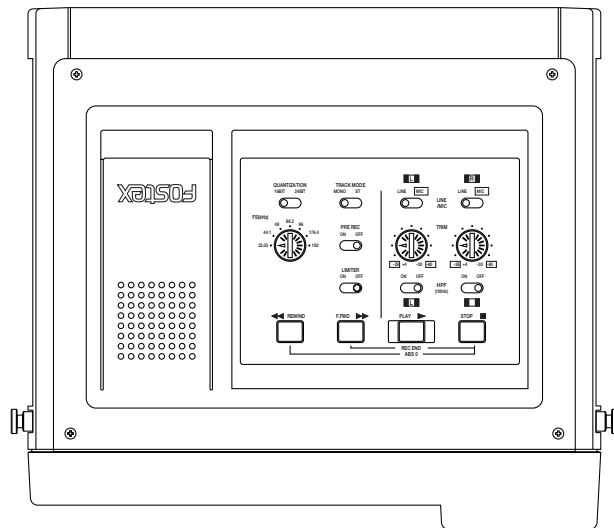
FR-2

Field Memory Recorder

High Quality
ACQUISITION
Television & Radio
DOCUMENTARY
Location Sound
RECORDING

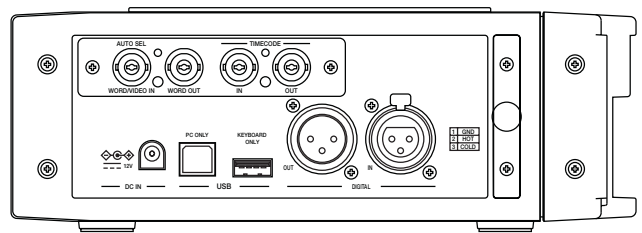
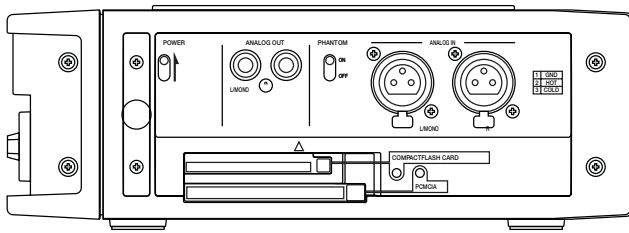


Designed specifically for location sound recording; broadcast & sound effects acquisition; TV & radio documentary; and in fact any application where high quality audio recording is required, the Fostex FR-2 sets a new price performance ratio in the compact portable two track recorder market. Flexibility is the keyword with the FR-2. Recording industry-standard Broadcast Wav Files (BWF) to either PCMCIA 1.8" hard drives or Type II Compact Flash cards, the FR-2 brings many features from Fostex's experience as a long-term leader in digital location recording such as a 10 second pre-record buffer; battery power; on-board limiter; and phantom powered balanced mic inputs. Of particular note is the file per take system with scene & auto take naming which was developed on the industry acclaimed PD-6 & DV40. Specific 'firsts' on the FR-2 include the ability to record up to 24-bit 192KHz, making it the first choice where the highest quality sound effects acquisition is required; and the optional timecode card which has a fully-featured reader/generator, including 23.976, and external word/video references, making it an ideal basic production or location back-up recorder.



Main Features

- Records to innovative PCMCIA 1.8" hard disk drives and Type II Compact Flash
- Industry-standard BWF format. Stereo/mono selectable
- "File per Take" system with scene & auto take naming/increment
- Up to an 'industry-first' 24-bit 192KHz recording in the field
- 132 x 65 dot matrix LCD for ease of use & high visibility in the field
- Takes 'off-the-shelf' AA-size NiMH batteries for approx. 2 hours field operation (Compact Flash)
- Easy file transfer to PC/Mac via PCMCIA, CF adaptor or standard on-board USB connection
- Quick file naming on-board or via external keyboard (USB port as standard)
- Pre-recording loop buffer of approx. 10 seconds ensures no soundbite is ever missed
- Tough rigid housing designed for the rigors of location use
- Optional fully-featured timecode generator/reader card



FR-2 Specifications

GENERAL

Recording Media	PCMCIA: CompactFlash, ATA Flash card, ATA type Hard disk
Recording Format	BWF
Number of Channels	Stereo / Mono
Sampling Frequency	22.05 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192kHz
Quantization	16 / 24 bit

PHYSICAL

Power Requirement	4 x AA type dry cell (NiMH recommended) AC adapter (optional) DC 12V
Power Consumption	approx. 5W
Dimension	240(W) x 100(H) x 210(D)mm
Weight	2kg (w/o battery)

PERFORMANCE

R/P Frequency Response	20Hz to 10kHz +/-1dB (fs: 22.05kHz) 20Hz to 20kHz +/-1dB (fs: 44.1 / 48kHz) 20Hz to 40kHz +/-1dB (fs: 88.2 / 96kHz) 20Hz to 80kHz +/-1dB (fs: 176.4 / 192kHz)
S/N	(Line) 100dB (ADC-DAC, 24bit, ref:-20dB, fs: 48kHz) typical (Mic) 87dB (ADC-DAC, 24bit, ref:-20dB, fs: 48kHz) typical
Dynamic Range	100dB (ADC-DAC, 24bit, ref:-20dB, fs:48kHz) typical
T.H.D.	(Line) less than 0.005% (1kHz, -1dB) typical (Mic) less than 0.008% (1kHz, -1dB) typical
Channel Separation	More than 90dB (1kHz, 0dB, 24bit, ref:-20dB, fs: 48kHz)
Phase Difference	within 20° (20kHz) between channel
Reference Recording Level	-20dB
Click	less than -30dBV (-16dBu) peak @ power on/off
Power Life	2 hours continuous operation estimated (4 x AA NiMH type)

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	
MIC		
Input Impedance	More than 6k ohm	
Input Level	-60dBu	
Maximum Input Level	-40dBu	
Phantom Power	P48	

ANALOG AUDIO OUTPUT		L/R
Connector	RCA pin type	
Output Load Impedance	more than 10k ohm	
Reference Output Level	-10dBV	

HEADPHONE OUTPUT	50 + 50mW (32 ohm)
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SPEAKER OUTPUT	1W
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DIGITAL INPUT/OUTPUT (except for 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.A.)	
LTC INPUT	BNC
LTC OUTPUT	BNC
SYNC IN	BNC (VIDEO/WORD automatic)
WORD OUT	BNC

Frame Rate	23.976/24/25/29.97DF/29.97ND/30DF/30ND
Gen Mode	24H RUN / REC RUN / FREE RUN / EXT RUN

Recording Times (examples)

* All times in minutes

	16bit/48kHz		24bit/96kHz	
	Mono	Stereo	Mono	Stereo
5GB	868	434	289	144
1GB	173	86	57	28
512MB	88	44	29	14

PCMCIA Hard Drive

UN-COMPRESSED RECORDING

The FR-2 is designed to utilise the new 3rd party 1.8" HDD Type II PC Cards which pack a high capacity in the tiny PC card format. Its powerful & lightweight design make it the ideal media for cost-effective location audio recording and later file transfer into the user/reporters editing environment. Currently available in a 5GB format, the capacity of these drives is planned to expand over a coming period.



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