

FR-2LE

Field Recorder with 24bit 96kHz recording to CompactFlash™



Elegant Professional Recording

With a location recording pedigree which includes the original portable timecode DAT machines (PD-2, PD-4), and more recently the innovative PD-6 DVD-RAM recorder, it was only natural that Fostex should develop the FR-2, the acclaimed professional CompactFlash-based field recorder.

And now, it seems, Fostex have done it again with the launch of the new FR-2LE - a compact audio recorder designed from the ground-up to meet the needs of professionals in the field.

For a start, the FR-2LE records to CompactFlash in Broadcast WAV Format (BWF) at 24bit 96kHz quality. It's equipped with two professional phantom powered XLR microphone inputs (XLR-phone combo) complete with precise control over the recording level. It features a 1 take = 1 file recording system which eliminates overwrites and the 2 second 'pre-record' buffer means there should never be a missed take or lost soundbite. There's even an MP3 mode and built-in stereo microphones designed for interviews.

Feature rich and elegant in operation, the pedigree of the new FR-2LE looks assured.



Effect acquisition



Interview



Musical notepad

FR-2LE main features

- Recording on Type II CompactFlash™ card
- Light weight, yet tough with a highly rigid chassis
- FAT32 file system & BWF Stereo file format
- MP3 recording/playback
- Up to 24 bit 96kHz audio performance
- 2 x professional phantom powered XLR mic inputs with precise recording level adjustment control
- ALC (Off/On/Limiter) and HPF (On/Off, 100Hz -12dB/Oct)
- Built-in stereo microphones for quick memo recording
- USB 2.0 for high speed file transfer to PC
- 2 second Pre Rec buffer
- 1 take = 1 file system (eliminates overwrites)
- Approx. 8 hours battery operation
- Wired remote controller with mic attachment belt



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FR-2LE Highlights

Long battery life

The FR-2LE can run up to 8 hours on standard off-the-shelf NIMH batteries

Extended recording times

Over 12 hours @ 16bit 44.1kHz recording on an 8GB CompactFlash card

Professional inputs

Dual XLR inputs (XLR-phone combo) with top quality microphone pre-amps, trim control and phantom power. Analog out is offered on RCA connectors

BWF or MP3 recording

Record up to 24bit 96kHz audio

Tough construction

Manufactured from high-grade materials and specifically designed for professional location recording



RECORDING / PLAYBACK

GENERAL

Recording Medium	Compact Flash Card
Recording Time	see "Recording Time Chart" below
File Format	BWF (Broadcast Wave Format), MP3 (MPEG Layer-3)
Sampling Frequency	44.1 / 48 / 88.2 / 96 kHz
Quantization	16-bit/linear (44.1 / 48 kHz) 24-bit linear (44.1 / 48 / 88.2 / 96 kHz) MP3 122bps (stereo)
No. of Recording Track	2 tracks (stereo)
No. of Simultaneous Rec.	2 tracks (stereo)
Recording/Reproduction Frequency	20 Hz - 20 kHz ±2dB (FS 44.1/48kHz) 20 Hz - 40 kHz ±3dB (FS 88.2/96kHz)
S/N (ADC-DAC 24bit, 48kHz)	95dB (typical)
Line (Input Gain: +4dBu)	95dB (typical)
Mic (Input Gain: +60dBu)	85dB (typical)
Dynamic Range	95dB (typical) (ADC-DAC, 24bit, 48kHz)
T.H.D. (ADC-DAC 24bit, 48kHz)	less than 0.008% (at 1kHz - 1dB, typical) less than 0.01% (at 1kHz - 1dB, typical)
Line	more than 90dB (at 1kHz 0dB) (24bit, -20BFS, 48kHz)
Mic (Trim max)	-12dBFS
Channel Separation	99 Cue points per file
Reference Level	Battery Operation Time
Locate Memory	approx. 8 hours (Tamiya RC3600HV, Ni-MH battery)
	approx. 4 hours (4 x AA Alkaline / Ni-MH battery)

INPUTS / OUTPUTS

Analog In (L/R)

Connector	XLR-Phone Combo Type
Line In	
Connector	6mm dia TS Phone Jack (unbalanced)
Input Impedance	more than 10k ohm
Reference Input Level	-10dBV
Maximum Input Level	+2dBV
Mic In	
Connector	XLR-3-pin Type (balanced, 2-pin hot)
Input Impedance	more than 6k ohm
Reference Input Level	-50dBu to -10dBu
Maximum Input Level	+2dBu
Phantom	P48
Monitor Out <L, R>	
Connector	RCA Pin Jack (unbalanced)
Load Impedance	more than 10k ohm
Reference Output Level	-10dBV
Phones	
Connector	Stereo Mini Phone Jack
Load Impedance	more than 32 ohm
Maximum Output Level	15 + 15mW (32 ohm)
USB 2.0 (for PC)	
Connector	Series "B" Receptacle
Built-in Speaker	
Maximum Output	300mW

PHYSICAL

Included	CF card (128MB), AC Adaptor shoulder strap, remote control and carry pouch
Dimensions	57(H) x 206(W) x 132(D) mm
Weight	Approx. Approx. 0.8kgs (w/o battery)

Fail Safe Recording

In addition to a 1 take = 1 file system to eliminate overwrites, the FR-2LE also features Auto File Closing which closes files at one minute intervals, thus preserving the data in the event of a power failure.

USB 2.0

The USB 2.0 port allows direct connection to PC and MAC for easy file transfer.

Card Capacity	16 BITS		24 BITS			MP3 192kbps	
	44.1	48	44.1	48	88.2 / 96		
128MB	12	11	8	7	4	3	85
256MB	24	22	16	14	8	7	173
512MB	48	44	32	29	16	14	349
1GB	94	86	62	57	31	28	687
2GB	188	173	125	115	62	57	1382
4GB	377	347	251	231	125	115	2771
8GB	755	694	503	462	251	231	5549

Recording Times

* Approximate times in minutes

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