

# 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 notation

## 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)<br>24-bit linear (44.1 / 48 / 88.2 / 96)<br>MP3 192bps (stereo)         |
| No. of Recording Track           | 2 tracks (stereo)   |
| No. of Simultaneous Rec.         | 2 tracks (stereo)   |
| Recording/Reproduction Frequency | 20 Hz - 20 kHz $\pm$ 2dB (FS 44.1/48kHz)<br>20 Hz - 40 kHz $\pm$ 3dB (FS 88.2/96kHz)                  |
| S/N (ADC-DAC, 24bit, 48kHz)      |   |
| 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, 24it, 48kHz)    |   |
| Line                             | less than 0.008% (at 1kHz - 1dB, typical)   |
| Mic (trim max)                   | less than 0.01% (at 1kHz - 1dB, typical)  |
| Channel Separation               | more than 90dB (at 1kHz 0dB) (24bit, -20BFS, 48kHz)   |
| Reference Level                  | -12dBFS   |
| Locate Memory                    | 99 Cue points per file  |
| Battery Operation Time           | approx. 8 hours (Tamiya RC3600HV, Ni-MH battery)<br>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-3-31 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<br>shoulder strap, remote control and carry pouch |
| Dimensions | 57(H) x 206(W) x 132(D) mm  |
| Weight     | 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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