D2424LV Digital 24-Track

FOSTEX

Removable Hard Disk Recorder

Main Features

- Record 24 tracks simultaneously - ideal for live performance recording
- 24 TRS balanced jacks for all analog I/Os. Balanced/unbalanced selectable (ref. level: I2dB/-20dB)
- 56 track digital recording with no compression (24 tracks plus 32 additional 'ghost tracks'/ 8 tracks plus 48 additional tracks for 24bit/96k)
- 6 recording formats: 24bit / 96kHz, 24bit / 88.2kHz, I6bit / 44.IkHz, I6bit / 48kHz, 24bit / 44.IkHz, & 24bit / 48kHz)
- I28 times oversampling delta-sigma 24bit AD/DA
- ADAT I/O (S/P DIF switchable)
- Program Chain Play mode
- Twin drive bays. Secondary bay may be fitted with optional 2nd hard drive or DVD-RAM drive for back-up
- Export & import .WAV song files
- Level envelope display aids easy audio with undo & redo
- Non-destructive 99-time Copy/Paste & Move/Paste editing across programs (songs)
- Virtual timecode track function
- Unlimited chronological editing UNDOs (dependent disc space)
- 6 point edit memory & 99 locate point memory
- MTC/MMC & FEX implemented for external MIDI control
- Multiple tempo and signature changes per song
- Word I/O
- MIDI clock with song position pointer
- Handy 'All Input' & 'All Ready' feature
- RS-422 remote connector
- Optional Ethernet and timecode cards

24 BIT Resolution

96 KHZ Frequency

SIX RECORDING FORMATS
In addition to the 24bit / 96kHz capability, the D2424LV features 5 other recording formats (24bit / 88.2kHz I6bit / 44.1kHz, 16bit / 48kHz, 24bit / 44.1kHz, and 24bit / 48kHz), making it the most flexible digital multitrack recorder available. And as it records without quality–sapping compression, the D2424LV is also the best sounding too.

24 BIT A/D & D/A

128× Oversampling

STUNNING AUDIO QUALITY
The incredible quality of the digital audio the D2424LV is capable of, is due in part to the fact that this machine uses state–of–art 128 times oversampling techniques and reliable A/D and D/A converters. If you're serious about your audio you should accept nothing less.

BALANCED 24 analog I/Os

The D2424LV is equipped with 24 individual TRS jacks for each input and output. These can be switched to function unbalanced or balanced. When balanced each TRS is configured (T:HOT, R:COLD, S:GND)

A computer-based digital multitrack set-up might be fine for studio use, where you can work around limited inputs and complex operational issues, but when it comes to live recording they simply don't cut it.

There's only one chance to capture the performance. One chance to capture the magic.

You need a solution which is tough, reliable, proven, rack-mountable, expandable and with enough inputs for the whole band.

In short, you need the new Fostex D2424LV.

This ultra-high specification 24 track digital recorder is simply the most capable, most flexible, best sounding, and easy to use digital multitrack ever.

INCREDIBLE EASE OF USE

The performance is about to start and the last thing you need is a machine which is difficult to use.
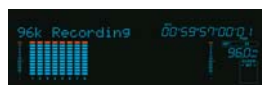
Don't worry, as thanks to the clear and concise interface which enables intuitive access to the facilities on offer, the D2424LV is incredibly easy to get to grips with. The front-panel remote control, for example, can be located up to I0 metres from the recorder (with optional Model 855IB x 2 fitted), while individual tracks can be named and exchanged with ease. Usability is enhanced futher still, with the 'All Input' and 'All Ready' functions which allow you to check all input signals and make all tracks ready with single button pushes.

Location facilities incorporate Recall Locate to the 99 locate memories using the jog/shuttle wheel and Prev/Next Locate by simply pressing the Prev/Next key. Other 'studio' features include a Mark/Stop function which allows the D2424LV to stop automatically at a preset Mark point, Program Chain Play which allows for a compilation of programs to be played back in a certain order, and footswitch control for start/stop as well as punch in/out functions.

Backing up recordings can be to external SCSI-2 media, DAT, ADAT or to an optional secondary internal hard drive or optional DVD-RAM drive. Whether in the studio or on the road, the D2424LV delivers rock solid performance.

HARD DRIVE CAPACITY / RECORDING TIME CHART		
CAPACITY	Total Time (16bit/44.1kHz)	Total Time (24bit/96kHz)
30Gb	approx 5667 track minutes	approx 1735 track minutes
40Gb	approx 7557 track minutes	approx 2313 track minutes
60Gb	approx 11336 track minutes	approx 3471 track minutes

8 track simultaneous recording is available when selecting 24bit / 96kHz mode.

Track Name: Each track can be given an individual name making them easier to manage.

The D2424LV is equipped with 56 recording tracks. 24 plus 32 'ghost' tracks.

Program Chain Mode: Programs (songs) can be played back in a pre–determined order.

24-TRACK 24BIT / 96KHZ MULTITRACK RECORDER

JOG SHUTTLE WHEEL
'Fast forward' or 'rewind' through a
recording with full audio monitoring –
without altering the pitch.
The inner wheel & the audio scrub
continuously loops around a very small
section of audio allowing you to
pinpoint an edit start point precisely.

ENVELOPE DISPLAY
Scrubbed audio is displayed
graphically for easier editing in
envelope mode.

2ND DRIVE BAY
choose hard drive or dvd-ram for file back-up

The 2nd internal drive bay may be fitted with a 2nd hard drive or a Fostex supplied DVD–RAM drive
(Model 9046) for back–up purposes. This feature offers peace of mind and security – essential for live
multitrack recording where there is only one chance to capture the performance.

Specifications

RECORDER SECTION

Recording medium	3.5inch, E-IDE type hard disk*
Recording format	FDMS-3 version 3
Save/Load format	SCSI, FDIO-1 version 2
Sampling frequency	44.1kHz, 48kHz, 88.2kHz, 96kHz (selectable)
Quantisation	16bit / 24bit
Data Save/Load	E-IDE HD, DVD-RAM or SCSI
A/D & D/A converters	24bit Delta Sigma 128 times over sampling
No. of recording tracks	56 (24 plus 32 additional tracks)
Simultaneous Recording Tracks	24 (8 at 24bit/96kHz, 24bit/88.2kHz)
Simultaneous Playback Tracks	24 (8 at 24bit/96kHz, 24bit/88.2kHz)
No. of programs	99
No. of locate memories	99
Pitch control	± 6% (0.1% step)
Crossfade	10msec, (5msec at 24bit/96kHz, 24bit/88.2kHz)
R/P frequency response:	20Hz - 20kHz ±1dB (20Hz to 43kHz ±2dB at fs:96kHz)
Dynamic range	> 105dB (typical)
Channel Separation	> 80dB (at 1kHz, 0dB, 24bit)
T.H.D.	< 0.04% (1kHz, -12dB) (typical)

INPUT/OUTPUT

Analog Input (1-24)	TRS phone jack x 24 (balanced)
Impedance	>10kΩ
Input level	balanced: +4dBu, unbalanced: + 10dBV
Analog Output (1-24)	TRS phone jack x 24 (balanced)
Impedance	>600Ω
Output level	balanced: +4dBu, unbalanced: - 10dBV
Data In/Out	Optical x 6
Format	IEC 60958 Part 3 (=S/P DIF), Alesis Proprietary
	Multichannel Optical Digital Interface (ADAT)
	(selectable by setup mode)
WORD Input	BNC connector. TTL level
WORD Output	BNC connector. TTL level
RS422	D-sub 9pin. Sony 9 pin protocol ES buss
RS422 THRU	D-sub 9pin. Direct output of RS-422
MIDI In / Out / Thru	DIN 5 pin x 3
Punch In/Out	Phone jack x 1 (for option model 8051)
SCSI Port	D-SUB 50pin (half pitch)

PHYSICAL

Dimensions (mm)	482 (w) x 148 (h) x 381 (d) mm
Weight	Approx. 7.0kg (with controller)
Power requirements	120V AC, 230V AC - (50W)

Rear Panel

1   2   3

4   5   6   7   8   9
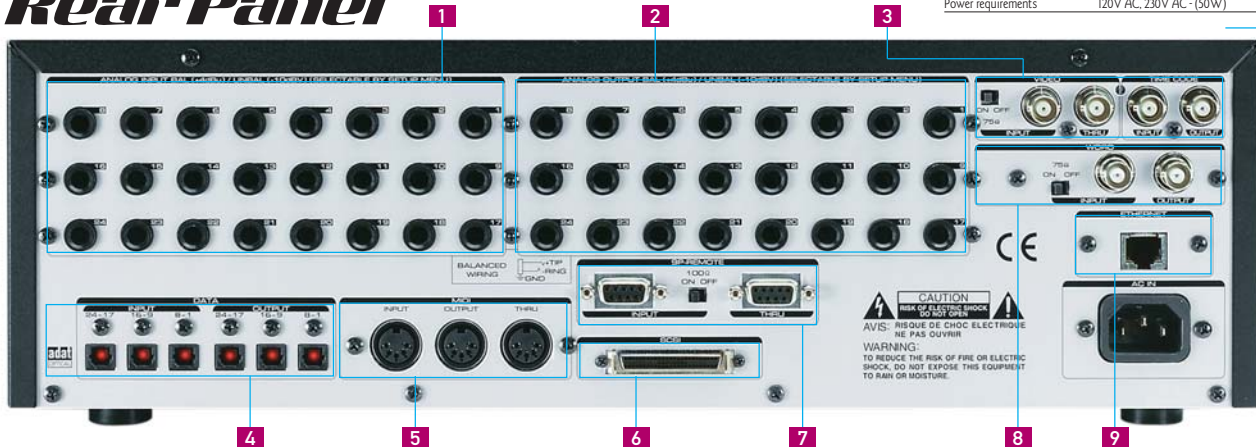
1. 24x balanced / unbalanced analog inputs
2. 24x balanced / unbalanced analog outputs
3. Optional Timecode card
4. ADAT/S/P DIF interface optical interface
5. MIDI IN, OUT, THRU
6. SCSI–2 interface
7. RS422 interface (IN & THRU)
8. Word I/O
9. Optional Ethernet card

Optional Extras

8346 TIMECODE/SYNC CARD
■ Sync to external VIDEO/WORD (10 preset sync patterns)
■ Slave to external LTC running across 0h point. Offset can be set to external timecode
■ Timecode can be recorded from internal or external sources to a 'virtual timecode track' keeping all recording tracks free for audio.
■ Internal timecode address can be output as LTC

■ Timecode converted from ABS or recorded timecode can be output as LTC
■ Independent timecode function generates timecode from 24hr clock or any designated timecode address. FORCE JAM also possible. Generated timecode via the output.
■ 24, 25, 30ND, 30DF, 29.97ND & 29.97DF timecode rates
■ Sync to Video feature for system integration with various video editors compliant with the P2 protocol

9043 EMPTY HARD DRIVE CADDY
■ Robust empty caddy for housing 3rd party IDE hard drives (see Fostex website for the latest drive recommendation)

9044 DRIVE CADDY & MOUNTING KIT
■ Complete assembly for adding a 2nd caddy-held hard drive for back–up and archive

9046 DVD-RAM Drive
■ 4.7GB DVD–RAM drive (for back–up and archive) fits into the 2nd internal bay

Distributor / Authorized Dealer

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