FOSTEX

PD Series Professional DVD / HD Location Recorders

DV824 Multitrack DVD Recorder

PD204

PD606

Portable Locati

It's all about professional pedigree

Back in 1991, Fostex revolutionised the world of professional location recorders with the world's first timecode digital unit - the acclaimed PD-2.

In 1995, the PD-4 was launched and quickly established itself as the industry standard timecode DAT recorder.

In 2003, Fostex moved the game on with the innovative PD-6, the world's first portable recorder offering 6-track recording to DVD-RAM.

And now, with the launch of the the PD606 and PD204 recorders, Fostex is again leading the way. 8-track (PD606) or stereo (PD204) poly-file recording, intelligent dual battery management, USB 2.0 interface, recording to either built-in hard drive or standard 12cm DVD discs, etc. - The innovations just keep on coming.

FOSTEX®

Feature films

Documentary

Broadcast

TV

PD Series

Portable Professional DVD / HD Location Recorders

Carrying on from the revered PD-6, Fostex are proud to announce the new PD606 and PD204 professional location recorders - the culmination of years of market research canvassing opinion from our professional users, listening to their needs and acting upon their experience.

Designed from the ground up to excel in 'real-world' applications, both offer spectacular audio quality, flexible multi-drive recording options, rock solid timecode implementation, extended battery life, loads of 'instant access' knobs, buttons and switches plus a whole battery of interface options.

But impressive features are only part of the script. Fostex's unrivalled pedigree in designing and manufacturing world class location recorders for over 16 years and our unique understanding of the broadcast, film, tv and audio acquisition environments means that these new recorders aren't just the best PD recorders ever, they're simply the best professional location recorders available today.

on Recorders

The new PD machines can record to either internal hard disc drive, DVD-RAM, or both simultaneously.

HD and DVD recording

Direct recording at 24bit/192kHz to either internal hard drive, standard 12cm DVD-RAM discs or both at the same time.*

Up to 8 tracks

The PD606 can record up to 8 tracks of audio simultaneously (6 channels analog + stereo mix tracks or 8 channels digital), to industry standard BWF files. The PD204 can record 2 tracks from 4 channels of analog or 2 channels of digital.

Real knobs and switches

Both the PD606 and PD204 feature an army of real knobs, switches and buttons. The 'analog' nature is a direct result of our dialog with professional users who value the ability to control and use their machines without scrolling through multiple menus on a screen.

Extended battery life

New for the PD606 and PD204 are V-Mounts for mounting Endura battery cells. With each battery offering up to 4 hours of operation and intelligent power management, these recorders are always ready for that important take.

USB 2.0 data transfer

The new PD series offer a high-speed USB 2.0 port for easy data transfer of files to a PC or Mac for further audio editing.

Timecode and sync

Typically with a professional Fostex machine, timecode implementation is exemplary with ±1ppm (0.0001%) accuracy for recording and playback of SMPTE format timecode. Jam Sync, VIDEO, WORD, DIGITAL and Tri-Level sync also available.

*Direct recording to DVD-RAM requires the unit to be mounted horizontally on a stable surface.
Mirror recording up to 48kHz/8trk or 96kHz/2trk

Portable Location Recorders

PD204 Main Features

2 track simultaneous recording
4 ch Analog inputs (XLR)
2 ch Analog outputs (XLR),
2 ch AES/EBU Digital I/O's (XLR)

Recording to (user replaceable) 1.8" 80GB HDD (Model EX-HD1) and 12cm DVD-RAM

Backup to DVD-RAM, -R and -RW disc.

Approx. 256 min recording at 24bit/ 48kHz per 4.7GB DVD-RAM or HDD partition

Recording across multiple HD partitions

Mirror recording to HD and DVD*

BWF file format files - easily imported into PC editing software with TC.

24bit audio at 44.1/ 48/ 88.2/ 96/ 176.4/ 192kHz, 16bit audio at 44.1/ 48kHz

Digital Mixer with Analog like operation. Equipped with channel link, HPF and limiter

0.1% Fs pull up/down

Automatic file closing every 60 seconds

10 seconds (max) of pre record to minimises the risk of missing the start of a take

USB 2.0 interface for mounting HDD partitions as well as DVD-RAM contents on PC desktop

Two battery V-Mounts (up to 4 cells mounted)

AUX input for headphone monitoring of audio from a camcorder

9 pin remote port enabling connection of a 2nd PD606 or PD204 for simultaneous recording†

Fully functional SMPTE Timecode generator with jam sync to external TC

VIDEO, Tri-Level and WORD sync available

PD204

The PD204 offers identical timecode implementation and smart battery management as the PD606, but can only record to 2 tracks simultaneously.

Recording to 80GB HD and 12cm DVD

Both the PD204 and PD606 records audio to the internal (user replaceable) 1.8-inch 80GB hard disc drive (HDD) and standard-size 12cm DVD-RAM discs. In addition simultaneous recording to both media is available either by mirroring or auto-copy. Further confidence is offered with an intelligent 'background mode' which automatically copies recorded audio from the HDD to DVD when the machine is idling. The DVD drive can also write to DVD-R/RW and CD-R/RW discs for easy data copy / backup.

Digital mixing and 8-track recording

Following Fostex's philosophy of 'real knobs and buttons are better', recording, mixing and routing on these new recorders is an intuitive experience. No multiple button pushes and complex menus to change a level, just turn a knob. Yet don't confuse ease of use with a lack of features as these units offer a multitude of mixing options and recording sophistication. The PD606 for example offers flexible 8 track simultaneous recording via AES/EBU, (6 channels when using the analog XLR inputs), full 8 channel analog outputs and the ability to digitally store monitor mix settings.

Intelligent battery management

Battery life is perhaps one of the most important features of a location recorder and it's here these new machines really show their class. Not one, but two standard V-mounts are offered for with the user being in control of power management. Choose BATT.1, BATT.2 or External DC power. A smart function switches which battery is used when the primary source voltage falls below user-definable level.

High speed data transfer to PC / Mac

When connected to a host computer via the USB 2.0 interface, the recorder can be directly mounted on the

* Mirror recording up to 48kHz/6trk or 96kHz/2trk. † Future firmware update

PD606

desktop for easy drag and drop data copying. Future enhancements will include the ability to use USB 2.0 flash memory pens. A standard QWERTY keyboard can also be connected for easy file name editing.

Sophisticated timecode facilities

These being Fostex recorders, the implementation of timecode is beyond reproach with an incredible ±1ppm accuracy. That's 0.0001% accuracy for both recording and playback of IEC format timecode with Jam Sync also available. Four modes of timecode are offered: 24H RUN (sync to the internal clock); REC RUN; FREE RUN; and EXT RUN with 7 frame rates (23.97, 24, 25, 29.97ND, 29.97DF, 30ND, 30DF).

Professional operation, rugged reliability

Use a PD606 or PD204 in the field and you're immediately aware that Fostex know a thing or two about professional location recording. At almost every point in the acquisition process there are clues: Automatic file closing in the background every 60 seconds means fast data recovery in the event of a power outage, 10 seconds (max) of pre-record means never missing the beginning of a take, the 99 cue point memory, an Avid™ compatible EDL file (ALE) can be created and edited, a 9pin remote connector for simultaneous recording using two PD606 or PD204s, the crystal clear 16 segment LED metering, the slate tone generator with hold mode, etc., the list goes on.
These units are also tough, being manufactured from ultra-durable materials specifically designed for a busy life in the field.

Up to 24bit / 192kHz audio

No MP3. No compression. No short cuts. No compromise. The new PD606 and PD204 simply feature sonically superior recording at up to 24-bit / 192kHz resolution.

PD606 Main Features

- 8 track poly file recording. 6 individual tracks + 2 stereo mix tracks or straight 8 track recording via 6 ch Analog I/O (XLR) or 8 channel AES/EBU Digital I/O's (D-sub25pin)
- Using the Stereo Bus output (XLR-5pin) together with the 6 channel discrete analog outputs creates 8 simultaneous analog outputs
- Recording to (user replaceable) 1.8" 80GB HDD (Model EX-HD1) and 12cm DVD-RAM
- Backup to DVD-RAM, -R and -RW disc.
- Approx. 85 min recording at 24bit/ 48kHz per 4.7GB DVD-RAM or HDD partition
- Recording across multiple HD partitions
- Mirror recording to HD and DVD*
- BWF file format files - easily imported into PC editing software with TC.
- 8 track recording using 24bit/16bit, 44.1/48kHz, 6 track recording using 24bit, 88.2/96kHz (HDD only), 2 track recording using 24bit, 176.4/192kHz
- Digital Mixer with Analog like operation. Equipped with channel link, HPF and limiter
- 0.1% Fs pull up/down
- Automatic file closing every 60 seconds
- 10 seconds (max) of pre record to minimises the risk of missing the start of a take
- USB 2.0 interface for mounting HDD partitions as well as DVD-RAM contents on PC desktop
- Two battery V-Mounts (up to 4 cells mounted)
- 9 pin remote port enabling connection of a 2nd PD606 or PD204 for simultaneous recording†
- Fully functional SMPTE Timecode generator with jam sync to external TC
- VIDEO, Tri-Level and WORD sync available

The PD606 displays no shortage of interface options with full 6 channel analog I/O, AES-EBU digital I/O, timecode and more.

Specifications

PD606 Specifications

RECORDING / PLAYBACK	
Recording Medium	HD/DVD-RAM/DVD-R/DVD-RW
Recording Time	approx. 85 min. (48kHz/24bit/6trk)
	HD partition or DVD-RAM)
File Format	BWF (Broadcast Wave Format)
Sampling Frequency	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Quantization	16-bit linear (44.1 / 48 kHz)
	24bit linear (44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz)
No. of Recording Track	1 – 8 tracks (4trk – 88.2/96kHz, 2trk – 176.4/192kHz)
Recording/Reproduction Frequency	20 Hz - 20 kHz +-1dB (FS 44.1/48kHz)
	20 Hz - 40 kHz +-2dB (FS 88.2/96kHz)
	20 Hz - 70kHz +-3dB (FS 176.4/192kHz)
Dynamic Range	more than 110dB (typical)
T.H.D.	less than 0.008% (1kHz, -1dBFS,typical)
Reference Level	-20dB
AUDIO INPUTS / OUTPUTS	
Analog In	
Connector	XLR-3-31 type (balanced) x 6
Input Level	-32 to +4dBu (LINE) / -70dBu (MIC)
Max Input Level	+24dBu (LINE) / -14dBu (MIC)
Input Impedance	more than 10k ohm (LINE) / more than 2k ohm (MIC)
Analog Out	
Connector	XLR-3-32 type (balanced) x 6
Ref Output Level	+4dBu
Max Output Level	+24dBu
Load Impedance	more than 10k ohm
Stereo Buss (TRK7~8) Out	
Connector	XLR-5-32 type (balanced)
Ref Output Level	+4dBu / -10dBu / -60dBu (selectable)
Max Output Level	+24dBu
Load Impedance	more than 10k ohm
Digital I/O	
Connector	D-sub25pin
Format	AES/EBU(IEC60958) or S/P DIF(IEC60958)
SYNC INPUTS / OUTPUTS	
Timecode In	
Connector	XLR-3-31 type
Format	SMPTE/EBU
Ref Input Level	2Vp-p
Min Input Level	0.25Vp-p
Input Impedance	more than 20k ohm
Timecode Out	
Connector	XLR-3-32 type
Format	SMPTE/EBU
Ref Output Level	2Vp-p
Output Impedance	less than 1k ohm
Load Impedance	more than 600 ohm
WORD/VIDEO In	BNC type (automatic)
	Ref Input Level: TTL with 75 ohm terminator SW
WORD Out	BNC type
	Ref Output Level: TTL
USB	
For PC	Connector B type (USB2.0)
For HOST	Connector A type (Keyboard USB1.1, Device USB2.0)
Phones	
Connector	6.3mm dia. Stereo Phone
Maximum Output	more than 200mW (32 ohm loaded)
Load Impedance	more than 32k ohm
Parallel Remote	Mini DIN 8pin
9PIN Remote	D-SUB 9pin, Protocol: Sony 9pin (P2)
DC In (DC11.5 ~ 24V)	XLR4-32 type
DC Out	Hirose 4pin (HR10A-7R-4S, female), Max 0.5A
GENERAL	
Dimensions	116.5(H) x 325(W) x 234(D) mm
Weight	Approx. 3.4kgs
Power Requirement	IDX Endura V-mount battery
	AD-15C (optional)
Power Consumption	16W

PD204 Specifications

RECORDING / PLAYBACK	
Recording Medium	HD/DVD-RAM/DVD-R/DVD-RW
Recording Time	approx. 256 min. (48kHz/24bit/2trk)
	HD partition or DVD RAM)
File Format	BWF (Broadcast Wave Format)
Sampling Frequency	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Quantization	16-bit linear (44.1 / 48 kHz)
	24bit linear (44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz)
No. of Recording Track	2 tracks
Recording/Reproduction Frequency	20 Hz - 20 kHz +-1dB (FS 44.1/48kHz)
	20 Hz - 40 kHz +-2dB (FS 88.2/96kHz)
	20 Hz - 70kHz +-3dB (FS 176.4/192kHz)
Dynamic Range	more than 110dB (typical)
T.H.D.	less than 0.008% (1kHz, -1dBFS,typical)
Reference Level	-20dB
INPUTS / OUTPUTS	
Analog In	
Connector	XLR-3-31 type (balanced) x 4
Input Level	-32 to + 4dBu (LINE) / -70dBu (MIC)
Max Input Level	+24dBu (LINE) / -14dBu (MIC)
Input Impedance	more than 10k ohm (LINE) / more than 2k ohm (MIC)
Analog Out	
Connector	XLR-3-32 type (balanced) x 2
Ref Output Level	+4dBu
Max Output Level	+24dBu
Load Impedance	more than 10k ohm
AUX In	
Connector	XLR-5-31 type (balanced)
Ref Input Level	+4dBu / -10dBu / -60dBu (selectable)
Max Input Level	+24dBu
Load Impedance	more than 10k ohm
Digital I/O	
Connector	XLR-5-31 type (Input) / XLR-3-32 type (Output)
Format	AES/EBU(IEC60958) or S/P DIF(IEC60958)
SYNC INPUTS / OUTPUTS	
All timecode and sync specifications as per PD606	
GENERAL	
Dimensions	116.5(H) x 325(W) x 234(D) mm
Weight	Approx. 3.3kgs
Power Requirement	IDX Endura V-mount battery
	AD-15C (optional)
Power Consumption	13W

Optonal Accessories (for PD606 and PD204)

Fostex Accesories

EX-HD1
Pre-formatted 80GB HDD unit

AD-15C
AC Adapter

EX-BP1
Replacement V-connector Panel for IDX A-NH2E

ZP-62
PortaBrace™ Carrying Case for PD606 / PD204

EX-HD1

IDX Accesories

ENDURA-10 (E-10) 98Wh
ENDURA-7 (E-7) 71Wh
Lithium Ion V-Mount Battery Packs with Power Link*

NH-100
Single NP Battery Holder

IDX A-NH2E
V-Mount Adaptor Plate for NP/BP battery holder*

NH-100
Single NP Battery Holder*

IDX NH-100

IDX A-NH2E

IDX ENDURA-7 (E-7)

** IDX products are not supplied from Fostex. For details, visit www.idx.tv*

Recording Times

All times are in minutes

PD606	16-BIT		24-BIT					
4.7GB	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz	176.4kHz	192kHz
MONO	838	770	558	513	279	256	139	128
2-TRK	419	385	279	256	139	128	69	64
4-TRK	209	192	139	128	69	64	-	-
6-TRK	140	128	93	85	*46	*42	-	-
8-TRK	105	96	70	64	-	-	-	-

3,5,7TRK omitted
*HDD recording only

PD204	16-BIT		24-BIT					
4.7GB	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz	176.4kHz	192kHz
2-TRK	419	385	279	256	139	128	69	64

DVD Multi Drive

PD606 and PD204 both feature a DVD multidrive. In additions to recording direct to DVD-RAM discs, the drive also backs up and copies data to DVD-R/RW and CD-R/RW.

Digital Mixing

PD606 and PD204 both feature on-board digital mixers with rotary controls for gain and buss send and pan. The PD606 also has the ability to select and store channel combinations to output from Monitor.

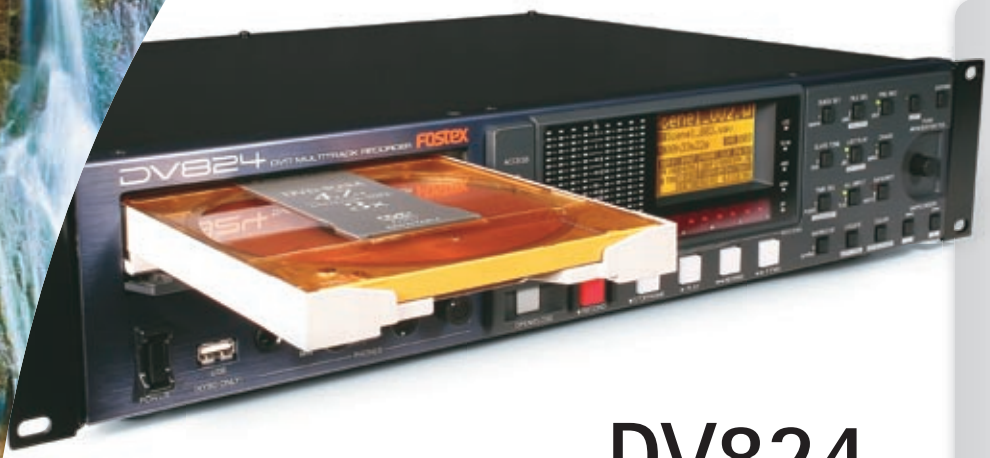
Channel LED Indicators

PD606 features individual metering for each channels for more precise mixing.

Dual Battery V-mounts

Both recorders are equipped with dual V-mounts and intelligent battery management with auto cell switching on low voltage levels. Fostex recommends Endura™ cells from IDX Co., Ltd. Conventional NP-type batteiers can be used with the dedicated holder from IDX with the optional EX-BP1 attachment.

DVD Multitrack Recorder



DV824

Recording to DVD-RAM and HD

The DV824 provides supreme quality 8-track recording to standard 12cm DVD-RAM disks (or optional internal hard disk), in a unique package representing the very forefront of multitrack recorder design. Able to record up to 8 channels of simultaneous audio in BWF format, supporting the FAT32 disc format in playback and the universal nature of UDF formatted discs means that the DV824 offers seamless integration into the daily acquisition, editing and screening 'rushes' process.

Predictably with Fostex, excellent audio quality is assured thanks to the high-definition recording engine which allows multitrack recording in one of seven audio formats up to 24bit / 96kHz. There's a full compliment of balanced analog I/O and AES/EBU digital I/O, a programmable playback feature (ideal for telecine playback), comprehensive headphone monitoring, smart file administration and Ethernet networking.

Plus, as the DV824 can be powered via AC or DC current, it's ideally suited to on-cart location applications.

Intuitive operation, wide-ranging applications

Fostex multitrack recorders have always been intuitive in operation and the DV824 is no exception. The large 132 x 64 dot LCD display, the positive-action buttons / switches, a large LED time indicator, 18-bar level metering and intelligently written software all aid the ease of use.

Ready for TV show recording, live stage recording, small event playback, large scale live theatre SE playback, on-cart location sound recording, telecine playback, and more, the Fostex DV824 is probably the most versatile multitrack ever designed.

DV824 Main Features

- Up to 8-track simultaneous recording at 24bit/48kHz. Up to 4-track simultaneous recording at 24bit/96kHz
- New v2 software allows recording across multiple HD partitions
- Analog balanced XLR inputs and outputs for all 8 channels
- AES/EBU digital I/O for connection to analog and digital audio mixers
- Flexible AC or DC (for location use) power operation
- BWF file format and UDF disk format combine for excellent PC/Mac compatibility
- Playback of disks recorded on both Fostex PD204, PD606, DV40 and PD-6.
- High-speed 10/100Base-T Ethernet
- Flexible programmable playback function
- Interface expansion available via optional cards (fitted at a Fostex service centre)
- Optional Timecode/Sync (Model 8348) card allows for both internally-generated and external timecode with +/-1ppm accuracy to be integrated into the recording process. An LTC offset can be set independently for each file
- Bi-Phase input included on Timecode/Sync card for synchronization to film projectors
- Optional Hard Drive (Model 9058) allows for Dual Disk Recording as well as Auto Backup functions
- Optional IEEE1394/USB 2.0 (Model 8370) for fast data transfer to/from PC/Mac

Easy integration with PC / Mac

Fast transfer to computer-based audio editing packages is a snap.
With the model 8370, USB/Firewire card, the DV824's internal hard disc (if fitted), can be mounted on a PC or Mac desktop via USB2.0 or Firewire in addition to the DVD media.

Specifications

DV824 Specifications

GENERAL	
Recording Medium	12cm DVD-RAM
	(optional internal 2.5" hard disk)
File Format	BWF
Sampling Frequency	22.05/44.1/48/88.2/96kHz
Quantization	16bit (22.05/44.1/48kHz)
24bit (44.1/48/88.2/96kHz)	
Recording Tracks	See chart below

INPUT/OUTPUT (0dBu=0.775Vrms, 0dBV=1Vrms)	
Reference Input Level	+4dBu
Analog Input (Tr 1 – 8)	
Connector	XLR-3-31 type (balanced) (1:GND/2:HOT/3:COLD)
Input Impedance	10k ohm or more
Rated Input Level	+4dBu
Max. Input Level	+24dBu
Analog Output (Tr 1-8)	
Connector	XLR-3-32 type (balanced) (1:GND/2:HOT/3:COLD)
Output Load Impedance	10k ohm or more
Rated Output Level	+4dBu
Max. Output Level	+24dBu
Headphones Output	
Connector	6mm stereo phone jack
Load Impedance	8 ohm or more
Max. Output Level	100mW (at 32ohm)
Digital Input (Tr 1 – 8)	
Connector	D-sub 25 pin (balanced)
Format	IEC60958 (AES/EBU) or IEC69058 (S/P DIF)
Digital Output (Tr 1 – 8)	
Connector	D-sub 25 pin (balanced)
Format	IEC60958 (AES/EBU) or IEC60958 (S/P DIF)
9P-REMOTE / ES BUSS (RS422)	
Connector	D-sub 9 pin
Protocol	Sony 9 pin protocol / ES BUSS
9P-REMOTE / ES BUSS Thru Out	
Connector	D-sub 9 pin
Parallel Remote	
Connector	Mini-DIN 8 pin
USB (for Keyboard only)	
Connector	USB Series "A" Receptacle
Ethernet	
Connector	RJ-45
Format	IEEE802.3 (10BASE-T & 100BASE-TX standard)

Recording Times

All times are in minutes

DV824	16-BIT		24-BIT			
4.7GB	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz
MONO	838	770	558	513	279	256
2-TRK	419	385	279	256	139	128
4-TRK	209	192	139	128	69	64
5-TRK	167	154	111	102	N/A	N/A
6-TRK	140	128	93	85	N/A	N/A
8-TRK	105	96	70	64	N/A	N/A

PERFORMANCE	
R/P Frequency Response	20Hz to 20kHz +/- 1dB (fs: 44.1/48kHz)
	20Hz to 40kHz +/- 2dB (fs: 88.2/96kHz)
Signal to Noise Ratio	105dB (typical)
Dynamic Range	105dB (typical)
Reference Record Level	-12dB / -18dB / -20dB (switchable on software)

PHYSICAL	
Power Handling	120VAC / 230VAC
Dimensions	482 (W) x 98.5 (H) x 345 (D) mm
Weight	5.7kg

TC SYNC Card (Model 8348, optional)	
TC Input	
Connector	XLR-3-31 type (balanced) (1:GND/2:HOT/3:COLD)
Format	SMPTE/EBU
Rated Input	2Vp-p
Transfer Rate	2.4kbit/sec (SMPTE)
Input Impedance	20k ohm or more
Min. Input Level	0.25Vp-p
TC Output	
Connector	XLR-3-32 type (balanced) (1:GND/2:HOT/3:COLD)
Format	SMPTE / EBU
Rated Output	2Vp-p
Output Impedance	1k ohm or less
Load Impedance	600 ohm or more
Bi-Phase In	
Connector	D-sub 9 pin
Level	5V (470 ohm) or 24V (2k ohm) switchable
Word/Video Input	
Connector	BNC
Rated Input Level	1Vp-p (with 75 ohm terminator SW)
Word Output	
Connector	BNC
Rated Output Level	TTL Level
IEEE1394/USB Card	(Model 8370 optional)
IEEE1394 (for PC communication)	
Connector	FireWire 400 (6 pin)
USB (for PC communication)	
Connector	USB Series "B" Receptacle

OPTIONAL ACCESSORIES
9058 Hard Disk Drive
8370 USB / Firewire Interface Card
8348 TC/Sync Card

DV824 Interfacing

8 channels of balanced analog I/O, AES/EBU digital I/O, 100BaseT Ethernet and RS422 Sony 9-pin.
Timecode and sync facilities along with USB/Firewire card ports available as optional extras.

TV Studio Recording

On-Cart Location

Stage Recording

TV / Movie Production

Versatile Applications

Perfect for today's surround TV sound recording requirements, the DV824 provides a full 8 channels of 24-bit recording and Timecode/Sync facilities with Model 8348 card fitted.

The DV824 also fits right into the location recording and outside broadcast acquisition environments. Full timecode facilities are available with the Timecode/Sync card fitted.

And being able to record 8-tracks simultaneously, the DV824 is well suited for recording live stage audio. Balanced XLR inputs are present for all 8 recording tracks.

FOSTEX

www.fostex.jp

Distributor / Authorised Dealer

Fostex Company, 3-2-35 Musashino, Akishima, Tokyo, Japan 196-0021
Tel: +81 (0)42-546-4974 Fax: +81 (0)42-546-9222