



03_H 02_M 52_S 05_F 43_{SF}

DVD-RAM Location Recording, Multitrack and Mastering Solutions

PD-6

DVD Location Recorder

DV824

DVD Multitrack Recorder

DV40

DVD Master Recorder



Fostex®



Movie Production



TV Production



Theatre Sound Playback



Location Recording



Live Stage Recording

PD-6

Portable Location Recorder



40GB INTERNAL HARD DRIVE - MODEL 9056
Model 9056 is a service-centre fitted 40GB 1.8" hard drive partitioned into 1.46GB areas, providing the equivalent of 27 'mini' DVD-RAMs-worth of audio file/tape storage. This makes it ideal for extended recording periods away from base and for having a redundant copy available within the PD-6 itself. When recording direct to the 40GB hard drive, the PD-6 can be set to DDR (Dual Disk Recording), making for the quick handover of audio files to the edit suite at the end of a days shooting. With the unique Fostex metadata provided as standard in the BWF files the whole post production process is even quicker and more cost-effective than ever.



DOCKING STATION - MODEL EX12
The EX12 docking station provides an additional two media choices: 'full-size' DVD-RAM and an additional 2.5-inch 40GB hard drive. The EX12 hard drive sports 8 x 4.7GB partitions to match the format of a single-sided DVD-RAM disc and it or the DVD-RAM can be selected as the primary recording medium, with file/exchange, DDR (Dual Disk Recording) to both hard drive and DVD-RAM functions available. With the longer recording times, the EX12 is ideally suited for use in sound mixers carts, on sound stages or in edit suites. The unit can be rackmounted, and can provide power to the docked PD-6. IEEE1394 and USB1.1 ports are provided to allow external computer access to the DVD-RAM drive.



8cm DVD-RAM



NP-1 type battery

The New Industry 'On-Cart' Standard

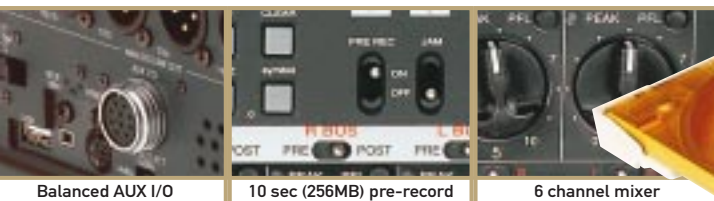
The Fostex PD-6 is the new standard for multitrack portable location recording on set or in the field. Offering 6-channel recording at 24-bit / 96kHz with timecode on 8cm DVD-RAM or optional internal hard drive, the PD-6 is the answer to all of the new challenges for location recording today. In addition, it features a full-function, high-specification 6-channel mixer, 'easy access' monitoring and all the connectivity one would expect, and need, from a thoroughly professional unit.

Removable or Internal Media

Designed from the ground-up for location recording and to provide vibration stability, high speed access and most importantly, high reliability, the PD-6 is already proving itself in motion pictures, TV productions and outside broadcast. It can record to 8cm DVD-RAM or an internal hard disk with DDR (Dual Disk Recording where data is recorded direct to both DVD-RAM and hard drive making for quick handover of the days audio files to the edit suite), and Auto Copy (immediate and background modes) functions present. Plus, by adding the EX12 docking station, even more media recording choices are available.

Fully Featured On-Board Mixer

The six channel mixer accepts either microphone level, with both T-Power (12V) and phantom power (48V) available, or line level. Phase reverse is provided on the three even channels while each channel features adjustable input gain. A generous defeatable



Balanced AUX I/O

10 sec (256MB) pre-record

6 channel mixer

and variable high pass filter and an individual defeatable limiter, with software selectable characteristics and linking, are also provided. The most ingenious part of the mixer however is the routing capability: working in conjunction with each channel's level controller, the 'Disc Feed' switch allows the recording section of the machine to derive its audio 'feed' from three different sources.

1. PRE the channel level control, meaning levels are set once with the earlier trim pot, leaving the front level controls for bus mixing
2. POST the channel level control providing for regular level adjustment on the easily accessible controls
3. From the Stereo Bus, routed by the PAN switch

These three modes provide simple stereo mixing of all six channels and by using a combination of modes, mono or stereo parallel mix (guide) tracks can be made.

Rock Solid Timecode

Add to this the 'easy access' monitoring, rock solid timecode functions, new EX12 docking station for multi-format recording and all the connectivity one would expect and it's easy to see why the PD-6 is becoming the new 'on-cart' industry standard.



Movie Production

Paul Brincat - Sound Mixer
From the tropical jungle to the desert wastelands of Tatooine, 30-year veteran and award-winning sound recordist Paul Brincat has enjoyed a career that has led him to all corners of the globe. Paul used a Fostex PD-6 on the recent Star Wars III shoot and his experiences are relayed to Audio Technology Magazine in an excellent article which is available to view online at www.fostexdvd.net



Soundscape Project

Brian Laurence - Sound Designer & Producer
Brian pioneered the 6-channel full-surround audio format first seen at the Australian Pavilion at EXPO in Spain. Recently he was commissioned to record the audio for the Lions section at Werribee Open Range Zoo on the outskirts of Melbourne, requiring him to capture sound on location in Botswana. "It all worked perfectly, under reasonably extreme conditions of heat, dust and bumpy vehicle tracks. The ability to 'pre-record' was great for nature recording, where you can wait hours for a single lion roar." "The 6-channel format also fits easily into the Dolby Digital 5.1 format, providing rich, involving true-to-life atmospheres, for just about any scene."

Main Features

- BWF recording file format (interleave 1 file mode) in either 2, 4, 5 & 6 track modes along with simultaneous two file recording modes of 1+5 and 2+4 tracks for guide track audio
- Fostex Verify/Write feature constantly examines data being recorded to DVD-RAM
- UDF (Universal Disc Format) on DVD-RAM allows discs to be read by both PC and Mac platforms
- *Dual Disk Recording (Mirroring): records to both HD and 8cm DVD-RAM simultaneously. Even file edits performed on either disk after recording will be reflected (mirrored) to the other one
- *Two Auto Copy modes:
(1) Auto Copy (Immediate). Recording to HD with immediate copy to 8cm DVD-RAM disk
(2) Auto Copy (Background). Audio recorded to HD is copied to 8cm DVD-RAM automatically while PD-6 is idling (i.e. not in record).
- Manual Copy is also available where a file or a whole partition (disk) can be copied between a partition and DVD-RAM, or two partitions in the HD at anytime.
- On-board timecode generator with +/-1ppm accuracy and built-in backup offers all frame rates including 23.976 and 29.97+ drop and pull-up/down.
- Generator can be 24H, Rec Run, Free Run or external complete with jam. Repro or generator output
- Avid™ compatibility. BWF files recorded on the PD-6 can be imported directly into Avid Film Composer along with information about Scene, Take, Reel Number, Event, etc. being transported and read from the file's, user-editable Metadata
- Circle Take with dedicated key, to mark files/takes for easy ID leading to quick imports referenced in the EDL. Up to 100 cue points per file/take
- EDL management built-in to create & edit multiple ALE (Avid™ Log Exchange) compatible edit decision lists per DVD-RAM.
- IEEE1394 (FireWire) interface for fast mirror and restore. When interfaced to a PC, PD-6 DVD-RAM discs can be mounted on desktop
- USB port for keyboard connection
- Pre Record enables PD-6 to constantly buffer up to 10 secs of audio (no more missed takes)
- 128 x 64 highly visible, low power consumption backlit dot matrix display. Alternative level meter resolution indication on display
- Auxiliary bus input/output provides for remote camera working and monitoring (e.g. HD cam) with switchable

*When 9056 installed or EX12 connected

- output between +4dBu, -10dBu and -60dBu to cater for most camera manufacturers requirements.
- Industry standard 10-pin Hirose connector
- Two auxiliary 12volt outputs on Hirose 4-pin connectors provide power for radio mic receivers, etc. to allow for self-contained operation on location
- Slate microphone and tone generator on-board
- Digital I/O software selectable between AES/EBU or S/PDIF with auto and manual input sensing, switchable in pairs: 1+2, 3+4 and 5+6
- Flexible monitoring through headphones and/or built in speaker & amplifier. All track combinations can be monitored post-disc either individually, in summed mono or stereo modes. MS monitoring as standard. Aux return and stereo bus live monitoring is provided plus individual channel PFL.
- External Word & Video sync inputs (auto selection) and Word Output plus parallel remote connector
- Optional AATON connector (ASCII & LTC I/O compliant) for external loggers, timecode synchronisers, etc.
- Automated file/take naming speeds set-up time between takes complying to US and Euro standards
- Comprehensive selectable UBIT output format combinations including Scene, Take, Event no., etc.

DV824

DVD Multitrack Recorder



Standard 12cm DVD-RAM



8 Track Digital Recording Direct to DVD-RAM

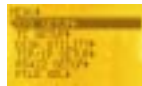
The next generation of standalone multitrack recorders is here, and provides supreme quality 8-track recording to standard-size DVD-RAM discs in a unique package representing the very forefront of multitrack recorder design.

But, then again, you would expect nothing less from Fostex.

Main Features

- Up to 8-track simultaneous recording at 24bit/48kHz
- Up to 4-track simultaneous recording at 24bit/96kHz
- Slim line chassis - just 2U high - for easy handling & installation
- Analog balanced XLR inputs and outputs for all 8 channels
- AES/EBU digital inputs and outputs for connection to analog and digital audio mixers
- Flexible AC or DC (for location use) power operation. Supplied with AC adapter (AD-15C) as standard.
- BWF file format and UDF disk format combine for excellent PC/Mac compatibility
- Playback of disks recorded on both DV40 and PD-6.
- 132x64 dot-matrix LCD display
- Large LED time display and 18-bar level meters.
- High-speed 10/100Base-T Ethernet port for data transfer via the media network
- Multiple DV824's can be controlled by a master DV824 through the 9-pin remote connector
- Dedicated front-panel USB keyboard input for easy file naming and editing.
- Flexible programmable playback function
- Interface expansion via card-frame system with optional cards

- 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 9057) allows for Dual Disk Recording as well as Auto Backup functions
- Optional IEEE1394/USB 2.0 card (Model 8370) will be available for fast data transfer to/from PC/Mac.



EASY ACCESSIBLE FUNCTIONS:
DV824's easy to use menu system and large 135 x 64 dot LCD matrix display aids usability.

Market Leaders

Starting with the 8-track D80 almost 10 years ago and continuing with today's acclaimed 24-track D2424LV, Fostex have been driving the standalone HD-based multitrack market forward through innovation and refinement. Now, with the experience gained in implementing state-of-the-art DVD-RAM recording technology into the revolutionary DV40 Master Recorder and industry standard PD-6 DVD Location Recorder, Fostex present the new D824 DVD-RAM based multitrack.

DVD-RAM Technology

The DVD-RAM format has fast become the format of choice among audio, video and film professionals around the world. It has built-in error correction, (enhanced by 'Verify/Write' technology which constantly examines the recorded data being stored on DVD-RAM), is





RS-485 port for PC keyboard

Large time display

Balanced I/Os

...durable, and has longevity. It therefore seemed only natural to use the technology for a brand new breed of multitrack recorder.

Innovative Modular Approach

Fostex have identified that different applications require different interfacing options. For example, TV show recording will require timecode facilities, whereas live stage recording will not.

Taking a leaf out of desktop computer design and to broaden the appeal of the machine across multiple applications and environments, the DV824 employs a unique modular card-frame approach.

Primary recording and playback functions, along with metering, user interface and disc management, are all handled by the powerful mainframe, with additional functionality, (such as timecode), available via plug-in cards.

This allows the DV824 to be tailored precisely to accommodate diverse applications with plug-in options available for Timecode / Bi-phase facilities, IEEE1394 interface for direct data transfer to/from PC or Mac, and internal Hard Disk for dual disk recording with auto backup. - With the DV824 you only pay for the features and functionality you actually need. However, there is a lot more to the DV824 than its unique card-frame construction.

Predictable Sonic Quality

First there is the excellent audio quality offered by the high-definition recording engine which offers multitrack recording in one of six audio formats up to 24bit / 96kHz.

Then there's the full compliment of balanced analog I/O and AES/EBU digital I/O, the programmable playback feature (ideal for telecine playback), the comprehensive headphone monitoring, the smart file administration and Ethernet networking.

In addition, the DV824 can be powered via AC or DC current, making it ideal for on-cart location applications, and it employs the same BWF file format and UDF disk format as other Fostex DVD-RAM machines for excellent PC/Mac compatibility.

Finally, there's the intuitive operation, thanks to a user interface which combines a 132 x 64 dot LCD display, positive-action buttons / switches, large LED time indicator, 18-bar level metering and intelligently written software.

Supremely Versatile

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 new Fostex DV824 is probably the most versatile multitrack ever designed.



TV Studio Recording

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



Stage Recording

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.



Theatre Sound

For large-scale theatre and 'event' sound, the 8 track DV824 provides a number of exciting possibilities including programmable playback functions.



On-Cart Location

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



DV-40

DVD Master Recorder



New Industry Standard

The DV40 was, and is, a revelation. Here is a rackmount unit which can record up to 4 tracks of digital audio to removable DVD-RAM UDF discs in either BWF or SDII formats and with full timecode facilities. And a machine which elegantly addresses the challenges presented by today's 'random access' requirements. Post production facilities, sound mixers, radio stations and ADR suites have welcomed the DV40 with its large scale Jog/Shuttle wheel, ultra-ledgeable LED screen and mutiple front panel controls which make for fast 'hands-on' use. - Most of the DV40 functions are just a single button push away.

4 Track Master Recording

Able to record four simultaneous non-destructive audio tracks to DVD-RAM at up to 24 bit / 192kHz resolution and with its elegant timecode implementation, the DV40 has quickly become the machine of choice for many film and tv productions in the US, Europe and beyond helping to streamline the production process and hence reduce costs.

Universal Disc Format

Post production houses too have warmed to the DV40. The handy Universal Disc Format (UDF), which allows DV40 media to be mounted and read by Macintosh and PC workstations, easy media network integration and ultra-fast, rock solid synchronisation, is revolutionising many productions from Los Angeles to London.

Of course what really sets the DV40 apart is its elegant handling of timecode as it addresses the challenges presented by today's 'random

Main Features

- Universal Disc Format on DVD-RAM. Discs can be mounted instantly on both PC and Mac platforms
- Record Mono, Stereo or Multi (4 track) at various frequencies (44.1 / 48 / 88.2 / 96 / 176.4 / 192kHz)
- Two recording modes (Insert and Tape) • Built in I/O options
- Analog audio scrubbing by using high precision/ tracking JOG/Shuttle encoder dial
- On-board timecode generator with +/-1ppm accuracy and built-in backup offers all frame rates including 23.976 and 29.97+ drop and pull-up/down. Generator can be 24H, Rec Run, Free Run or external complete with jam, while output can be repro or generator derived
- Avid™ compatibility. BWF files recorded on the DV-40 can be imported directly into Avid Film Composer along with information about Scene, Take, Reel Number, Event, etc. being transported and read from the file's Metadata. The Metadata area is user-editable for future expansion
- PD-6 8cm DVD-RAM discs can be played out on a DV-40 by simply removing them from the caddy and placing in the DVD-RAM tray

access' requirements: able to synchronise with both external word and video signals, the built-in timecode generator is fully featured and even includes the new 23.976 frame HD camera mode.

Continuing Development

Fostex continue to develop the platform: Model 5050 card allows the DV40 to read the 6 track files on 8cm DVD-RAM created by the PD-6 and adds analog outputs 5 & 6 are on balanced XLR connectors as well as AES/EBU on XLR; enhanced 'take' (file) naming complying with US and European clapper board standards and EDL management tools allowing ALE (Avid Log Exchange) compatibility.

The perfect production partner to a PD-6 or the ultimate timecode master recorder. The DV40 is all this.

And more.

STANDARD ETHERNET
DV40 is equipped with 10/100Base-T Ethernet as standard. Once the IP address is set DV40 files will be available via your media network.

BALANCED I/O
Each of the four audio channels feature balanced XLR inputs individually switchable between +4dBu and -10dBV and the highest quality 24bit/192kHz AD converters. The outputs are provided on both balanced XLR again with 24bit/192kHz DA converters as well as 1/4" unbalanced phone jacks for easy monitoring hook-up.

24-BIT / 192KHZ RECORDING
The DV40 is capable of recording up to 24bit / 192kHz depending on recording mode used. In addition, other formats offered: (see chart on page 8) 16bit / 44.1kHz, 16bit / 48kHz, 24bit / 44.1kHz, 24bit / 48kHz, 24bit / 88.2kHz, 24bit / 96kHz and 24bit / 176.4kHz

AUDIO SCRUBBING
The large high-resolution (200 pulses per rotate) jog/shuttle dial and clever digital tracking technology result in incredible audio scrubbing.

FLEXIBLE MONITORING
Headphone monitoring is provided with switchable source selection for Track 1+2, Track 3+4, Track 1+3/2+4 and each track individually.

SYSTEM INTEGRATION
Interoperability and system integration is taken care of via 9 and 15 pin RS-422 connectors. Both interfaces comply to the Sony 9-Pin protocol for standard VTR emulation and Fostex's own extended instruction set.



TIMECODE DVD RAM

The Removable Media Revelation



Fostex Timecode DVD-RAM recorders are currently being used in major film, TV and post production applications in the USA, Europe and beyond. Fostex actively encourages user feedback and continually develops the products incorporating new features and enhancing usability...

The New Industry Standard

Fostex started a revolution 18 years ago inventing timecode DAT and portable timecode DAT and now they're doing it all over again with the new revelation in digital recording - Timecode DVD-RAM.

Removable DVD-RAM

Fostex chose DVD-RAM as the most suitable successor to DAT after extensive research and testing. DVD-RAM has excellent reliability and has already established itself as the film industry's preferred media format due to its built-in error correction and longevity. This security is enhanced by the Fostex's proprietary 'Verify/Write' technology which constantly examines the recorded data being stored on DVD-RAM, in real-time, for error-free recording. Plus, ensuring compatibility throughout the industry and maximising the DVD-RAM technology, the DV40, PD-6 and new DV824 can record multiple channels of simultaneous audio (4 with the DV40, 6 with the PD-6 and no less than 8 with the new DV824), in a vast number of permutations and in BWF (PD-6, DV40 and DV824) or SDII (DV40 only) formats.

In a class of their own

With superb audio quality, up to 24-bit / 192kHz¹ available, flexible and comprehensive timecode facilities and 'common sense'

usability, Fostex DV40, PD-6 and DV824 Timecode DVD-RAM machines are not just class leaders, they're totally in a class all of their own.



SYNC AT ALL STANDARD REFERENCES
All the standard clock references of word and video are included with the ability to resolve to incoming timecode.

24-BIT AUDIO QUALITY FOR FLEXIBLE RECORDING
The DV40, PD-6 and DV824 are capable of recording up to 24bit audio depending on recording mode used.

UDF (UNIVERSAL DISC FORMAT) VERSATILITY
As the UDF (Universal Disc Format) is utilized, discs can be read by any computer OS (Windows, Mac, etc.) which makes for easy transfer of audio files to and from the recorders for external editing.

¹192kHz available on DV40 only
²Dependent on version



Movie Production

Chris Munro - Sound Mixer
One of the world's leading Production Sound Mixers and a BAFTA and Oscar™ award winner, Chris used Fostex Timecode DVD-RAM technology for audio acquisition on the latest James Bond hit 'Die Another Day'. Chris has pioneered the 'magless dailies' process, (see bottom left), which saved the production a small fortune. Always in demand, Chris is recognised as setting quality standards in the film industry.



TV Production

Joe Kenworthy - NYPD Blue
Sound mixer Joe uses Fostex Timecode DVD-RAM machines for audio acquisition on the ever-popular NYPD Blue TV series. "The big thing for me is that I get a digital file from the beginning, and all our digital editing machines can take those files and begin to work, with less transfer time. We are using a first-generation signal all the way through the chain, which keeps quality high, and it's quicker, with no conversions involved."



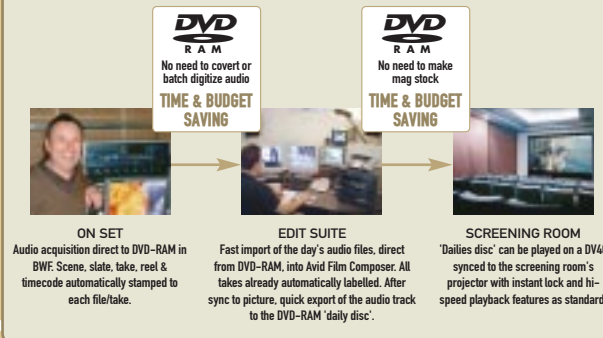
Post Production

Jay Hartigan - Shooters Post
Jay has been a production sound mixer for the past 25 years and is one of three owners of Shooters Post & Transfer, a Philadelphia based production facility. "Every day we transfer 1/4" production sound to our DV-40 for film transfer. It turns what was once a slow, tedious sync session into a fast easy job. Once the field sound is on DVD-RAM we no longer have to wait for the audio to sync. It's always right there."

'Magless Dailies'

Sound Mixer Chris Munro pioneered the 'magless dailies' concept, originally with the Fostex PD-4 DAT, and has refined it with the use of Fostex's DVD-RAM products and was honoured with the Charles Parkhouse Award for his work in this area. The day's audio can be loaded into a non-linear editor complete with all auto-generated scene, take, reel info and more, in just a couple of minutes for each hour of audio directly from the DVD-RAM disc, with no additional software! After syncing to picture, an export to another DVD-RAM disc produces the 'daily disc'. The editor gets all his labelling done for him by the acquisition machine, along with a guide audio track; the production team watch rushes in original digital audio; and most importantly, the production saves tens of thousands of dollars by not having to use (and store!) expensive mag stock, and wiping off hours from the post process.

No real-time batch digitizing of audio into editor - save time
No expensive making of mag stock for daily rushes - save money



Ken McLaughlin
On the set of 'Meet the Fockers', the sequel to 'Meet the Parents'.



Ken Fuller
TV shows including Superman, Homefront, Crossing Jordan and others.



Art Rochester
Works on most Jack Nicholson movies including 'Some Things Gotta Give'.



Dave Macmillan
Winner of 3 Oscars: Including Apollo 13 with Tom Hanks, and Speed.

PD-6 Specifications

GENERAL	
Recording Medium	ATAPI DVD-RAM (8cm)
	40GB Internal Hard Drive
Recording Format	BWF (SDII™ & AIFF planned future option)
Recording Medium	8cm DVD-RAM
Sampling Frequency	44.1 / 48 / 88.2 / 96kHz
Quantization	16bit (44.1 / 48kHz)
	24bit (44.1kHz / 48 / 88.2 / 96kHz)
Recording Tracks	See chart below
INPUT / OUTPUT CONNECTORS (0dBu = 0.775Vrms)	
ANALOG AUDIO INPUT	CH. 1-6 (Line/Mic selectable)
Connector	XLR-3-31 type (Pin2.Hot)
Input Level	-30 ~ +4dBu (+/-5dB, Line)
	-80 ~ -26dBu (+/-5dB, Mic)
Maximum Input Level	+24dBu (Line) / -40dBu (Mic)
Input Impedance	More than 10k ohm
ANALOG AUDIO OUTPUT	TR. 1 - 6
Connector	XLR-3-32 type (Pin2.Hot)
Reference Output Level	+4dBu
Maximum Output Level	+24dBu
Output Load Impedance	More than 10k ohm
AUX INPUT / OUTPUT	
Connector	10pin - male / balanced (Hirose)
Reference Input Level	+4dBu
Maximum Input Level	+24dBu
Input Impedance	More than 10k ohm
Reference Output Level	+4dBu / -10dBu / -60dBu (switchable)
Maximum Output Level	+24dBu
Output Load Impedance	More than 10k ohm
DIGITAL INPUT / OUTPUT CONNECTOR	
Connector	D-sub 25pin (auto software selection)
Input Format	IEC60958 (S/P DIF) or IEC60958 (AES/EBU)
Output Format	IEC60958 (S/P DIF) or IEC60958 (AES/EBU)
LTC INPUT	
Connector	XLR-3-31 type (Pin2.Hot), balanced
Format	SMPT/E/BU
Reference Input Level	2Vp-p
Minimum Input Level	0.25Vp-p
Input Impedance	More than 20k ohm
LTC OUTPUT	
Connector	XLR-3-32 type (Pin2.Hot), balanced
Format	SMPT/E/BU
Reference Output	2Vp-p
Output Impedance	Less than 1k ohm
Output Load Impedance	More than 600 ohm
VIDEO / WORD INPUT	
Connector	BNC (auto software selection)
Reference Input Level	TTL level (w/ 75ohm termination SW)
WORD OUTPUT	
Connector	BNC
Output Level	TTL level
AUTON INPUT / OUTPUT (Option)	
Connector	LEMO 5pin
Format	Complies to ASCII & LTC I/O
IEEE1394	P1394a Draft 2.0 4 pin
USB	Serial A Receptacle
HEADPHONE OUTPUT	SOLD or STEREO MONO: 1+2, MS, 3/5+4/6, 1/3/5+2/4/6, 3/5+2/4/6, 1/3+2/4, ST. AUX IN, ST. BUS
Connector	6mm dia stereo phone jack
Load Impedance	More than 32 ohm
Maximum Output Level	200mW (at 32 ohm)
PARALLEL REMOTE	
Connector	MINI DIN 8pin female
DC12V - 18V IN	
Connector	XLR-4-32 type
DC12V OUT	
Connector	HR10A-7R-4S (Hirose 4pin female) x2
Max.	0.5A (Total combined)
PERFORMANCE	
R/P Frequency Response	20Hz to 20kHz +/-1dB (fs: 44.1 / 48kHz)
	20Hz to 40kHz +/-1dB (fs: 88.2 / 96kHz)
Signal to Noise Ratio	
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.-18dB, fs.48kHz) typical
TH.D.	Less than 0.01% (1kHz, -1dB, ADC-DAC, 24bit, ref.-18dB, fs.48kHz) typical
Reference Recording Level	-18 / -20dB (switchable)
Cue Point Chunk	100
Power Life	2 hours continuous operation estimated, NP-1 type Li-ion
PHYSICAL	
Power Requirement	NP-1 type battery
	AC Adaptor - option model AD-15C
Power Consumption	DC 12V - 18V
Dimension	25W
Weight	329 (W) x 110 (H) x 245 (D)mm
	3.5kg (w/o battery)
OPTIONAL ACCESSORIES	
EX-12 Docking Station	40GB Hard Drive, 12cm DVD-RAM Drive, PSU
	For full specification see right
ZP-6	Carrying Case
AD-15B/C	AC Adaptor
ATC-4	AATON Interface
9056	Optional Hard Disk

DV40 Specifications

GENERAL	
Recording Medium	ATAPI DVD-RAM
	(optional 2.5" hard disk is mountable)
File Format	SDII™ BWF
Sampling Frequency	44.1 / 48 / 88.2 / 96 / 176.4 / 192kHz
Quantization	16bit (44.1/48kHz)
	24bit (44.1 / 48 / 88.2 / 96 / 176.4 / 192kHz)
Recording Tracks	See chart below
INPUT / OUTPUT (0dBu=0.775Vrms, 0dBV=1Vrms)	
Reference Input Level	+4dBu / -10dBV (Balanced)
ANALOG INPUT (TR 1-4)	
Connector	XLR-3-31 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Input Impedance	10k ohm or more
Rated Input Level	+4dBu
Max. Input Level	+24dBu
ANALOG OUTPUT (TR 1-4)	
Connector	XLR-3-32 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Output Load Impedance	600 ohm or more
Rated Output Level	+4dBu
Max. Output Level	+24dBu
MONITOR OUTPUT (TR 1-4)	
Connector	Ø 6mm phone jack (Unbalanced)
Output Load Impedance	10k ohm or more
Rated Output Level	-10dBV
Max. Output Level	+10dBV
HEADPHONES OUTPUT	
Connector	Ø 6mm stereo phone jack
Load Impedance	8 ohm or more
Max. Output Level	100mW (at 32ohm)
DIGITAL INPUT (TR 1-2, TR 3-4)	
Connector	XLR-3-31 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Format	IEC60958 (S/P DIF) or IEC60958 (AES/EBU)
DIGITAL OUTPUT (TR 1-2, TR 3-4)	
Connector	XLR-3-32 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Format	IEC60958 (S/P DIF) or IEC60958 (AES/EBU)
GPI IN (ON/OFF SELECTABLE)	
Connector	DIN 5 pin
GPI OUT (ON/OFF SELECTABLE)	
Connector	DIN 5 pin
TC INPUT	
Connector	XLR-3-31 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Format	SMPT/E / EBU
Rated Input	2Vp-p
Transfer Rate	2.4kbit / sec (SMPT/E)
Input Impedance	20k ohm or more
Min. Input Level	0.25Vp-p
TC OUTPUT	
Connector	XLR-3-32 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
Format	SMPT/E / EBU
Rated Output	2Vp-p
Output Impedance	1k ohm or less
Load Impedance	600 ohm or more
TC THRU (DIRECT OUTPUT OF INPUT TC)	
Connector	XLR-3-32 type (Balanced) (1.6ND / 2.HOT / 3.COLD)
VIDEO INPUT (WITH 75 OHM TERMINATE SW)	
Connector	BNC
Rated Input Level	1V p-p
VIDEO THRU (DIRECT OUTPUT OF INPUT VIDEO SIGNAL)	
Connector	BNC
WORD INPUT (WITH 75 OHM TERMINATE SW)	
Connector	BNC
Rated Input Level	TTL level
WORD OUTPUT	
Connector	BNC
Rated Output Level	TTL level
WORD THRU (DIRECT OUTPUT OF INPUT WORD)	
Connector	BNC
9P-REMOTE (RS-422)	
Connector	D-sub 9 pin
Protocol	Sony 9 pin protocol (Controlled)
15P-REMOTE (RS-422)	
Connector	D-sub 15 pin
Protocol	Sony 9 pin protocol (Controlled)
ETHERNET	
Connector	RJ-45
Format	IEEE802.3 (10BASE-T & 100BASE-TX standard)
PS/2 part x2	Mouse part for PC & Keyboard part
PERFORMANCE	
R/P Frequency Response	20Hz to 20kHz +/-1dB (fs: 44.1/48kHz)
	20Hz to 40kHz +/-2dB (fs: 88.2/96kHz)
	20Hz to 80kHz +/-3dB (fs: 176.4/192kHz)
Signal to Noise Ratio	110dB (typical)
Dynamic Range	110dB (typical)
Pitch Control	0.01 - max. 200.0% (0.1% step)
Reference Record Level	-12dB / -18dB / -20dB (switchable on software)
Crossfade	10msec (default)
LOCATE MEMORY	
Main Memory	100
Cue Point/File Memory (per file)	100
PHYSICAL	
Power Handling	120VAC / 230VAC
Dimensions	482 (W) x 141 (H) x 381 (D)mm
Weight	7.4kg
OPTIONAL ACCESSORIES	
5050	6-track Playback Card
9055	Optional Hard Disk

DV824 Specifications

GENERAL	
Recording Medium	ATAPI DVD-RAM
	(optional 2.5" hard disk is mountable)
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) (1.6ND/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) (1.6ND/2.HOT/3.COLD)
Output Load Impedance	10k ohm or more
Rated Output Level	+4dBu
Max. Output Level	+24dBu
HEADPHONES OUTPUT	
Connector	Ø 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 IEC60958 (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)
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 0348, optional)	
TC INPUT	
Connector	XLR-3-31 type (balanced) (1.6ND/2.HOT/3.COLD)
Format	SMPT/E/BU
Rated Input	2Vp-p
Transfer Rate	2.4kbit/sec (SMPT/E)
Input Impedance	20k ohm or more
Min. Input Level	0.25Vp-p
TC OUTPUT	
Connector	XLR-3-32 type (balanced) (1.6ND/2.HOT/3.COLD)
Format	SMPT/E / 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 (4.70 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 (T.B.A.)	
IEEE1394 (for PC communication)	1. FireWire 400 (4pin)
IEEE1394 (for PC communication)	2. FireWire 400 (6pin)
Connector	FireWire 400 (6 pin)
USB (for PC communication)	
Connector	USB Series "B" Receptacle
OPTIONAL ACCESSORIES	
9057	Optional Hard Disk



EX12 Specifications

GENERAL	
Recording Medium	12cm DVD-RAM / 2.5" hard disk
INPUT/OUTPUT	
DC12V OUT (for PD-6)	Connector XLR-4-31 type (1.6ND/2.NC/3.NC/4.+12-18V)
IEEE1394 PORT (for PC communication)	Connector 1. FireWire 400 (4pin)
	2. FireWire 400 (6pin)
USB PORT (for PC communication)	Connector USB Series "B" Receptacle
PHYSICAL	
Power Handling	AC100-240V / DC12V
Dimensions	386 (W) x 94 (H) x 231 (D) mm
Weight:	4.3kgs

DV40	16-BIT			24-BIT		
	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

* without Verify-Write

PD-6	16-BIT			24-BIT		
	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz
1-46GB	118	108	78	72	39	36
2-TRK	59	54	39	36	N/A	N/A
4-TRK	47	43	31	28	N/A	N/A
6-TRK	39	36	26	24	N/A	N/A

EX12*	16-BIT			24-BIT		
	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz
4-TRK	419	385	279	256	139	128
2-TRK	209	192	139	128	N/A	N/A
5-TRK	167	154	111	102	N/A	N/A
6-TRK	140	128	93	85	N/A	N/A

* with PD-6

DV824	16-BIT			24-BIT		
	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

Fostex

www.fostex.co.jp

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

Recording Times
All times in minutes