



# Fostex®

PD-6

PORTABLE LOCATION RECORDER

DV40

DVD MASTER RECORDER



# DV40

## DVD Master Recorder

# PD-6

## DVD Location Recorder



**24BIT**  
Audio quality

**FLEXIBLE RECORDING**  
The DV40 and PD-6 are capable of recording up to 24bit audio depending on recording mode used.

**UDF**  
File format

**UNIVERSAL DISC FORMAT**  
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.

**SYNC**  
word & video

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

**Fostex DVD**  
TIMECODE DVD-RAM RECORDING

## Removable media revolution

Having been a leading pioneer in the field of professional digital audio for over 16 years, it seemed only natural that Fostex, the inventors of timecode DAT and portable timecode DAT, should start the next revolution in digital recording - Timecode DVD-RAM.

### REMOVABLE DVD-RAM & RECORDING FORMATS

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 and PD-6 can record multiple channels of simultaneous audio (4 with the DV40 and no less than 6 with the PD-6), in a vast number of permutations and in BWF (PD-6 and DV40) or SDII (DV40 only) formats.

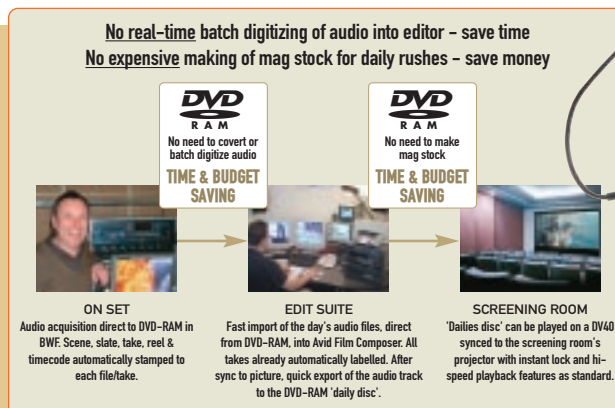
### IN A CLASS OF THEIR OWN

With the superb audio quality, up to 24-bit / 192kHz<sup>1</sup> available, the flexible and comprehensive timecode facilities and the sheer usability of both machines means that the PD-6 and DV40 are not just class leaders, they're in a class of their own.

<sup>1</sup>192kHz available on DV40 only  
<sup>2</sup>Dependent on version

## 'Magless Dailies'

Sound Mixer Chris Munro pioneered and developed the 'magless dailies' concept, originally with the Fostex PD-4 timecode DAT, and has refined it with the use of Fostex's DVD-RAM products. In fact, Chris was honoured with the Charles Parkhouse Award for his work in this area of production sound. The day's audio can be loaded into a non-linear editor such as Avid Film Composer<sup>2</sup> complete with all the automatically-generated scene, take, reel information and more in just a couple of minutes for each hour of audio directly from the DV40 or PD-6's 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 in no longer having to use (and store!) expensive mag stock, while wiping off hours from the whole post process.



# DVD-RAM

**Format of choice.  
Format of the future.**

DVD-RAM is robust, resilient, removable and has a longevity that a hard disc simply cannot offer. Quite simply it is the best professional mastering recording format available, as the rapid take up in the film industry shows.

However, the DVD-RAM technology needed a serious research and development process before it could handle the rigours and demands of multiple track, timecode-locked audio.

And that's exactly what Fostex undertook when developing the DV40, the world's first 4-track Timecode DVD-RAM master recorder.



## REFINING THE TECHNOLOGY - CONTINUOUS DEVELOPMENT

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. A machine which elegantly addresses the challenges presented by today's 'random access' requirements.

The reaction from sound mixers, post production facilities, broadcast professionals and recording houses was outstanding: they could see that the DV40 could save them time, could enhance their workflow, could improve their productivity.

But that was only the start - from the moment of launch, Fostex made it clear that the DV40 would benefit from continual development with users encouraged to request features and suggest improvements resulting in software updates being made available via the [www.fostexdvd.net](http://www.fostexdvd.net) web site.

## PORTABLE TIMECODE DVD-RAM

With the DVD-RAM technology 'proved' in a standalone machine, it was time for a portable solution. A PD-2 / PD-4 user survey and wide-ranging feedback from DV40 users yielded a wish list of features which included: Six audio tracks, highly accurate timecode, a minimum 10 second pre-record buffer, flexible power requirements and management, slate microphone, auxiliary send / return, power for mic receivers, a high quality mixer and a user interface in keeping with their existing DAT recorders.

Fostex listened to what the sound mixers wanted and involved them in the development process every step of the way.

The result is the PD-6 Location Recorder.

## In Action...

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...

## 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

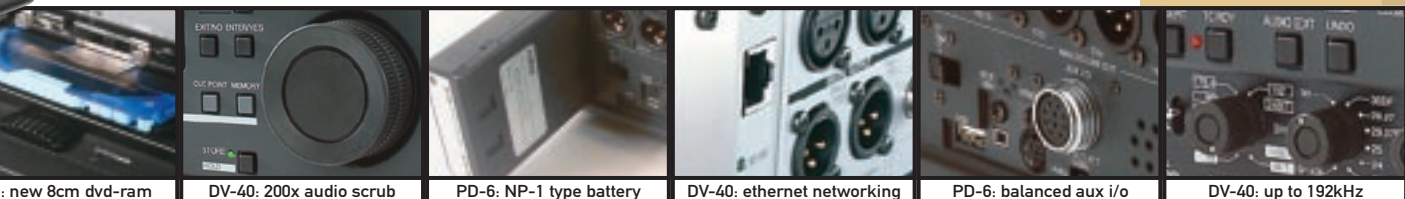
Jay has been a production sound mixer for the past 25 years and is one of three owners of Shooters Post & Transfer, a Philadelphia based production facility.

"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."



**hours, minutes, seconds  
& frames ahead of the rest.**



: new 8cm dvd-ram

DV-40: 200x audio scrub

PD-6: NP-1 type battery

DV-40: ethernet networking

PD-6: balanced aux i/o

DV-40: up to 192kHz

# 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 mounted & read instantly on both PC and Mac platforms
- 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 PD-6 can be imported directly into Avid Film Composer<sup>2</sup> 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
- Circle Take with dedicated key, to mark files/takes for easy identification leading to quick imports referenced in the EDL
- Up to 100 cue points per file/take
- Alpha numeric keypad for quick file/take & track naming, EDL manipulation, location, etc.
- Option of SDII™ and AIFF file recording modes are planned via software update
- 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 (utilise keyboard shortcuts, easy data entry etc.)
- 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 back-lit dot matrix display offers various modes including alternative level meter resolution indication modes
- Auxiliary bus input/output provides for remote camera working and monitoring (e.g. HD cam) with switchable output between +4dBu, -10dBu and -60dBu to cater for most camera manufacturers requirements. Provided on industry standard 10-pin Hirose connector
- Two auxiliary 12volt outputs on industry standard Hirose 4-pin connectors provide power for radio mic receivers, etc. to allow for truly self-contained operation on location
- Future software developments and updates via DVD-RAM cartridge and downloadable via PC from the dedicated web site: [www.fostexdvd.net](http://www.fostexdvd.net)
- 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. All accessed through just two rotary and one toggle switch

## PD-6 DVD Location Recorder

When Fostex embarked on the process to design a successor to the industry standard PD-2 and PD-4 portable timecode DAT machines, we knew we had set ourselves no easy task. Having invented both timecode and portable timecode DAT, Fostex location recorders had become, and still are, the most widely used and respected DAT machines for film & television sound production around the world, helping their users earn respect, gain work and to win many coveted international awards.

That's why we knew it was important to follow the design and philosophy processes that had made our previous machines the first choice of sound mixing professionals. Namely, to prove the technology in a stationary, stand-alone format and obtain comprehensive & wide-ranging user-feedback prior to taking it out into the field.

Every aspect was looked at and offered up for evaluation: the recording media, the functionality of the mixer, the interfacing connections, the timecode implementation and, of course, the user interface.

- 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
- NP-1 type battery provides an estimated 2 hours of operation
- External Word & Video sync inputs (auto selection) and Word Output plus parallel remote connector
- Optional AATON connector complies with ASCII & LTC I/O specifications for external loggers, timecode synchronisers, etc.
- Automated file/take naming routine speeds set-up time between takes complying to US and Euro standards. Individual track naming rolls through to next file/take until changed by user, if required
- Comprehensive software selectable UBIT output format combinations including Scene, Take, Event no., etc.
- Proprietary expansion connector to allow PD-6 to dock with planned Fostex rack-mounting full-size DVD-RAM & power supply unit for extended recording time on location



The result of this process in which some of the world's top sound mixers took part, is the new Fostex PD-6 Portable Location Recorder, a recorder which offers spectacular 24-bit / 96kHz audio quality and six independent audio tracks.

A recorder offering timecode-locked DVD-RAM recording to an easy to use 8cm removable media which answers all the new challenges for location recording today.

And a recorder featuring a full-function, feature-rich 6-channel mixer, 'easy access' monitoring and all the connectivity one would expect, and need, from a thoroughly professional unit.

The new PD-6 Portable Location Recorder. Nothing in the field comes close.

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*hours,  
minutes,  
seconds &  
frames ahead  
of the rest.*

# MEDIA

**REVOLUTIONARY REMOVABLE MEDIA**  
Location recorders need a removable media, it was one of the requests that we heard from the field again and again. Part of the success of the portable timecode DAT format was the fact that at the end of the shoot, the days work's there in your hand. We knew that normal DVD-RAM drives, are not really built for the rigours of location recording and certainly not suited to being slung over a shoulder. Therefore we decided upon a brand-new 8cm DVD-RAM

drive. A drive specially developed for the rigours of portable use and a drive designed from the ground-up to provide vibration stability, high speed access and most importantly, high reliability. Already proving itself in motion pictures, tv productions and outside broadcast, the removable 8cm DVD-RAM cartridges provide two 1.46GB sides, offering, for example, 108 minutes per disc of 4 track recording at 48KHz/16-bit. And the discs fit right into conventional DVD drives.

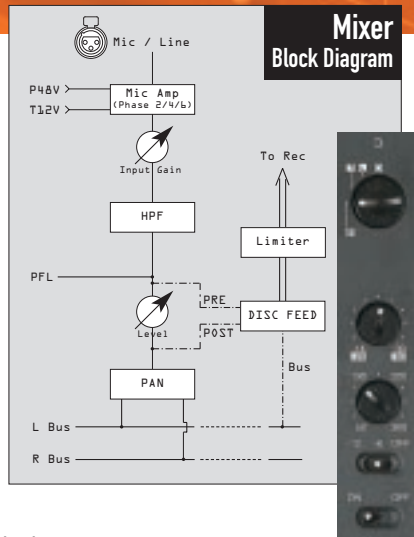


# MIXER

## 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 and variable high pass filter and an individual defeatable limiter, with software selectable characteristics and linking, suited to location recording. The most ingenious part of the mixer however is the routing capability: working in conjunction with each channel's level control mounted on the face of the PD-6, the 'Disc Feed' switch allows the recording section of the machine to derive its audio 'feed' PRE the channel level control, meaning levels are set once with the earlier trim pot, leaving the front level controls for bus mixing; POST of the channel level control providing for regular level adjustment on the easily-accessible controls; or from the Stereo Bus, routed by the PAN switch providing

not only simple stereo mixing of all six channels, but also by using a combination of the modes, parallel mix (guide) tracks can be made whilst recording of either five tracks (mono guide track) or four tracks (stereo guide track). We call these "1+5" and "2+4" recording modes as separate BWF files are created. Additional features such as PFL monitoring and peak led indication on each channel complete this very flexible mixer.



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# Main Features

- BWF or SDII™ audio file formats in 16-bit or 24-bit resolution (on the same disc)
- Fostex Verify/Write feature constantly examines data being recorded to DVD-RAM (not 96kHz/4tr or 192kHz/2tr)
- UDF (Universal Disc Format) on DVD-RAM allows discs to be mounted & read instantly on both PC and Mac platforms
- Mono, stereo or 4-track recording modes. Full on-board copy, paste, insert, cut and erase features with high precision scrubbing
- Full timecode facilities
- Avid™ compatibility. BWF files recorded on the DV40 can be imported directly into Avid Film Composer (depending on software version) along with information about Scene, Take, Reel Number, Event, etc. being transported and read from the files Metadata. The Metadata area is user-editable for future expansion
- Circle Take to mark files/takes for easy identification leading to quick imports and EDL references
- Up to 100 cue points per file/take
- Alpha numeric keypad for quick file/take & track naming, EDL manipulation, location, etc.
- Large high-resolution (200 pulses per rotate) jog/shuttle dial and clever digital tracking technology result in super-accurate audio scrubbing
- EDL management built-in to create & edit multiple ALE (Avid™ Log Exchange) compatible edit decision lists per DVD-RAM.
- Large multi-function fluorescent display, oversized illuminated transport keys
- Future software developments and updates implemented via CD or DVD and built-in Ethernet via PC available for download from the dedicated web site: [www.fostexdvd.net](http://www.fostexdvd.net)
- Excellent compatibility - can read other manufacturers DVD-RAM discs containing FAT16 formatted BWF files
- External Word & Video sync inputs and Word Output plus parallel remote connector
- Dedicated ADR (Automatic Dialogue Replacement) software features built-in
- Comprehensive I/O including 24 bit/192kHz on balanced XLR and 1/4" phone jacks; AES/EBU digital
- 10/100 BASE-T Ethernet networking for easy integration into production networks
- DAT 'cloning'. Monitors timecode input during recording of DAT to DVD-RAM and creates a new file automatically whenever timecode goes 'discontinuous'
- Automated file/take naming routine speeds set-up time between takes complying to US and Euro standards. Individual track naming rolls through to next file/take until changed by user, if required
- Comprehensive software selectable UBIT output format combinations including Scene, Take, Event no., etc.

## DV40 DVD Master Recorder

Working hand-in-hand with post production facilities, sound mixers, radio stations and ADR suites, Fostex's continual development of the DV40 mastering machine means that it's ready to handle every application and exception in today's, and tomorrow's, constantly changing and challenging audio environments.

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.

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 LA to London.



- **Optional Model 5050**  
With the new optional Model 5050 card fitted, the DV40 can read the 6 track files created by the PD-6 simply by removing the 8cm DVD-RAM from its case and placing it in the DV40's tray.



In addition, analog outputs 5 & 6 are provided on balanced XLR connectors as well as AES/EBU on XLR. A software update provided with Model 5050 allows the meters to be switched between all six channels.

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

Continuous development has seen the recent introduction of the Model 5050 card which allows the DV40 to read the 6 track files created by the PD-6, new 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.



*hours,  
minutes,  
seconds &  
frames ahead  
of the rest.*

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## DV40 AND PD-6

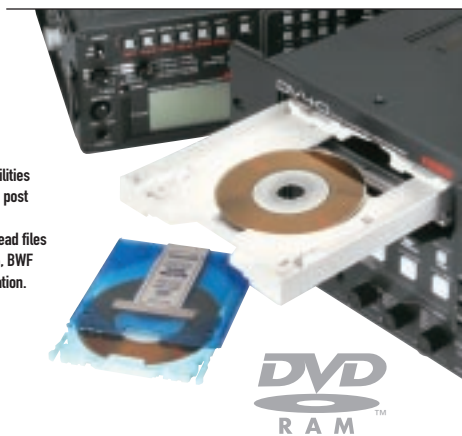
### SEAMLESS INTEGRATION

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. It's this kind of simple and seamless integration which makes the PD-6 / DV40 such a formidable production team.

The DV40 provides high precision scrubbing for PD-6 DVD-RAM discs, easy ethernet networking plus extensive audio / timecode manipulation.

Plus, with it's on-board Ethernet networking capabilities recorded files can easily be transferred around the post house's media network.

In addition to UDF PD-6/DV40 files, DV40 can also read files created on other manufacturers recorders in FAT16, BWF Interleaved format complete with timecode information.



## AUDIO scrubbing

### JUST LIKE TAPE

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

It really is just like using tape.

**24 BIT**  
Resolution  
**192 kHz**  
frequency

### FLEXIBLE 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 7)

16bit / 44.1kHz, 16bit / 48kHz, 24bit / 44.1kHz, 24bit / 48kHz, 24bit / 88.2kHz, 24bit / 96kHz and 24bit / 176.4kHz

## INTERFACING

### INCREDIBLY WELL CONNECTED

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.

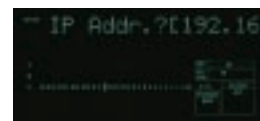
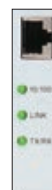
Flexible headphone monitoring is provided on the front panel with switchable source selection for Track 1+2, Track 3+4, Track 1+3/2+4 and each track individually. Digital input and output for all four channels is taken care of via the AES/EBU format (doubling up for 176.4/192kHz)

on XLR connectors, while the standard complement of timecode, video sync and word clock inputs and outputs are also present. Interoperability and system integration is taken care of via 9 and 15 pin RS-422 connectors, the latter also providing a 12V 400mA power source for future remote control applications. Both these interfaces comply to the Sony 9-Pin protocol for standard VTR emulation and Fostex's own extended instruction set.

The 10Base-T/100-Base-TX Ethernet (RJ-45) port and a firmware-selectable GPI (General Purpose Interface) for remote control, fader starts and file search rounds off this most comprehensive set of interface capabilities.



FRONT MONITORING selector



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.



Specifications

# PD-6

GENERAL	
Recording Device	E-IDE DVD-RAM (8cm)
Recording Format	BWF (SDI™ & 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	6, Timecode x1
Track Mode	2tr 44.1 / 48 / 88.2 / 96kHz
(verify write : on)	4tr 44.1 / 48kHz
	5tr 44.1 / 48kHz
	6tr 44.1 / 48kHz
	2+4tr 44.1 / 48kHz
	1+5tr 44.1 / 48kHz

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) -60 ~ -24dBu (+/-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)

# DV40

GENERAL	
Recording Medium	E-IDE DVD-RAM (optional 2.5" hard disk is mountable)
File Format	SDI™ / 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 Track	see chart on previous page

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.GND / 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.GND / 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)

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), auto selection
Output Format	IEC60958 (S/P DIF) or IEC60958 (AES/EBU), auto selection

LTC INPUT	
Connector	XLR-3-31 type (Pin2:Hot), balanced
Format	SMPTE/EBU
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	SMPTE/EBU
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

AATON INPUT / OUTPUT (Option)	
Connector	LEMO 5pin
Format	Complies to ASCII & LTC I/O

IEEE1394	P1394a Draft 2.0 4 pin
USB	Serial A Receptable

HEADPHONE OUTPUT	
Connector	SOLO 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)

Digital Input (Tr 1 - 2, Tr 3 - 4)	
Connector	XLR-3-31 type (Balanced) (1.GND / 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.GND / 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.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

TC Thru (Direct output of input TC)	
Connector	XLR-3-32 type (Balanced) (1.GND / 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
Rated Input Level	TTL level

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.-18dB, fs:48kHz) typical

Dynamic Range	
100dB (ADC-DAC, 24bit, ref.-18dB, fs:48kHz) typical	
T.H.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-15B/C
	DC 12V - 18V

Power Consumption	25W
Dimension	334 (W) x 109 (H) x 241 (D)mm
Weight	3.5kg (w/o battery)

OPTIONAL ACCESSORIES	
ZP-6	Carrying Case
AD-15B/C	AC Adaptor
ATC-4	AATON Interface

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 port x2	Mouse port for PC & Keyboard port

PERFORMANCE	
R/P Frequency Response	20Hz to 20kHz +/- 1dB (fs: 44.1/48kHz) 20Hz to 40kHz +/- 1dB (fs: 88.2/96kHz) 20Hz to 80kHz +/- 3dB (fs: 176.4/192kHz)

Signal to Noise Ratio	110dB (typical)
Dynamic Range	110dB (typical)
Pitch Control	0.0% ~ 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

## DVD Recording Times

	16-BIT			24-BIT				
	DV40	44.1kHz	48kHz	44.1kHz	48kHz	88.2kHz	96kHz	192kHz
4.7GB	838	770	558	513	279	256	128	
MONO	419	385	279	256	139	128	*64	
2-TRK	209	192	139	128	69	*64	N/A	

	16-BIT			24-BIT			
	PD-6	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	
5-TRK	39	36	26	24	N/A	N/A	

All times are in minutes per-side of a DVD-RAM disc

\* without Verify-Write

**Fostex DVD**  
TIMECODE DVD-RAM RECORDING

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