

Fostex

D-5

DIGITAL MASTER RECORDER



Hersteller
Archiv Michael Otto
HiFi-Classic.de

© beim Hersteller
Archiv Michael Otto
HiFi-Classic.de

D-5

The Fostex D-5 Digital Master Recorder. Our Rock Solid Basic DAT Master Recorder!

The new Fostex D-5 digital master recorder satisfies the demands of the consumer and semiprofessional market. The D-5 can record or playback four hours of music. And, it includes optical input and output complying to S/P DIF and TOC functions that are as easy to use as a CD player.

Plus, the D-5 is equipped with basic pro-features such as ID editing function, 300 times max-speed locate and search functions, AES/EBU digital interface, and GPI and XLR type connectors.

Add a clean clock circuit, high quality A/D D/A converters for superior linearity, minimum conversion error and ultra-low S/N ratio and you have superb sound.

The D-5 offers outstanding quality sound and construction with a wide range of features at a price break-through.



Three selectable sampling frequencies and LP (Long Play) mode

The D-5 can record or reproduce audio with 32kHz/44.1kHz/48kHz in standard (SP mode). Because the D-5 is also equipped with a long play mode (LP mode) at 32 kHz, up to 4 hours of continuous recording or playback on 120 minute cassettes is possible. (Please see Fig. 1)

Fig. 1

		REC		PLAY	
		SP	LP	SP	LP
48kHz	Digital	○	×	○	×
	Analog	○	×	○	×
44.1kHz	Digital	○	×	○	×
	Analog	○	×	○	×
32kHz	Digital	○	○	○	○
	Analog	×	○	○	○

TOC facilitates operations like CD player

This function can record up to 50 songs. TOC holds and displays:

- 1) number of total songs
- 2) total time
- 3) time of each song
- 4) start time of each song and
- 5) remaining time.

The TOC function makes your working environment as easy as a CD.

Professional XLR type connectors

The D-5 is equipped with XLR type input and output connectors for both digital and analog signal. An AES/EBU digital interface is employed which is indispensable for professional use. Optical (S/P DIF) is also available for consumer/semiprofessional use. Furthermore, the analog input has a +4dBu/-10dBV (balanced) select switch, input level control and L/R balance control. The D-5 can accept a variety of input sources.

Substantial IDs function

The D-5 can edit (record, erase, renumber) S-ID, SKIP-ID, END-ID and Program Number (P-NO). Because an AUTO-ID recording function is also available (detecting level: -50dB), the D-5 can record S-ID/P-NO and audio simultaneously.

High speed AI search with fast and accurate operation

The D-5 will direct locate to an S-ID or P-NO at approximately 200 times play speed in the SP mode, and approximately 400 times in the LP mode. In addition, the D-5 is equipped with an AI Search mode which learns the S-ID/P-NO location recorded in the TOC area and locates directly at 300 times play speed in the SP mode and up to 600 times play speed in the LP mode.

CD-Q code sync ID recording function enables precise music start up

When the D-5 recognizes the CD-Q code during digital signal transfer from compact disk through its optical input, it precisely records S-IDs according to the track number and index information of the CD-Q code. Even if there is a break in the middle of a song or there isn't a non-recorded section between two songs, because the S-IDs are recorded correctly, you could locate to the S-ID location (eg. beginning of song) precisely.

Copy ID

The D-5 does not contain a copy ID function. Analog signals recorded by the D-5 are copy-free. If a copy ID is input into the D-5, it is written accordingly but the D-5 does not output this ID.

Last memory function

Last Memory function will hold the D-5's status (auto ID mode, input mode and etc...) before turning off the power.

Highly reliable sendust head

The D-5 employs a specially processed sendust head with improved wear characteristics as well as stable tape running. The D-5 will withstand the severe use of professional environments with high reliability.

A/D & D/A converters with quality sound

Using a 1-bit wide range linear A/D converter and high speed pulse flow 1-bit D/A converter, the D-5 has superior linearity and minimal

conversion error. The D-5 is a high quality audio recorder and reproducer.

Ultimate S/N, low distortion ---- clean clock circuit

Since the D-5's system control clock runs independently of the analog and digital circuits, a clean clock signal is generated. As a result, the D-5 has the ultimate signal to noise ratio and low distortion when reproducing audio.

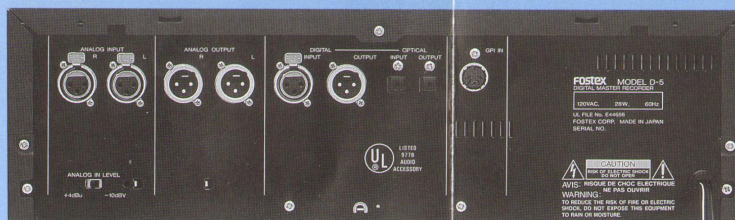
Operation indicator

The D-5's FL display shows the following machine status;

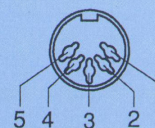
- 1) A-Time
- 2) P-time
- 3) Tape remaining time
- 4) Tape counter
- 5) P-NO
- 6) Margin
- 7) Error rate
- 8) ID mode
- 9) Level
- 10) Input mode
- 11) Sampling rate and etc...

Other features

- PCM error check function
- Cueing at maximum 5 times of play speed (max. 10 times of play speed at LP mode)
- SKIP play
- End search
- Blank search
- On/Off of infrared remote controller (Model 8314)
- Headphone output with independent volume control
- REC mute
- Up to 30 songs of programing with Model 8314 remote controller
- 3U, EIA rack mount size



GPI PIN assignment



- 1 GND
- 2 STOP
- 3 PLAY
- 4 S-ID Search >>
- 5 S-ID Search <<

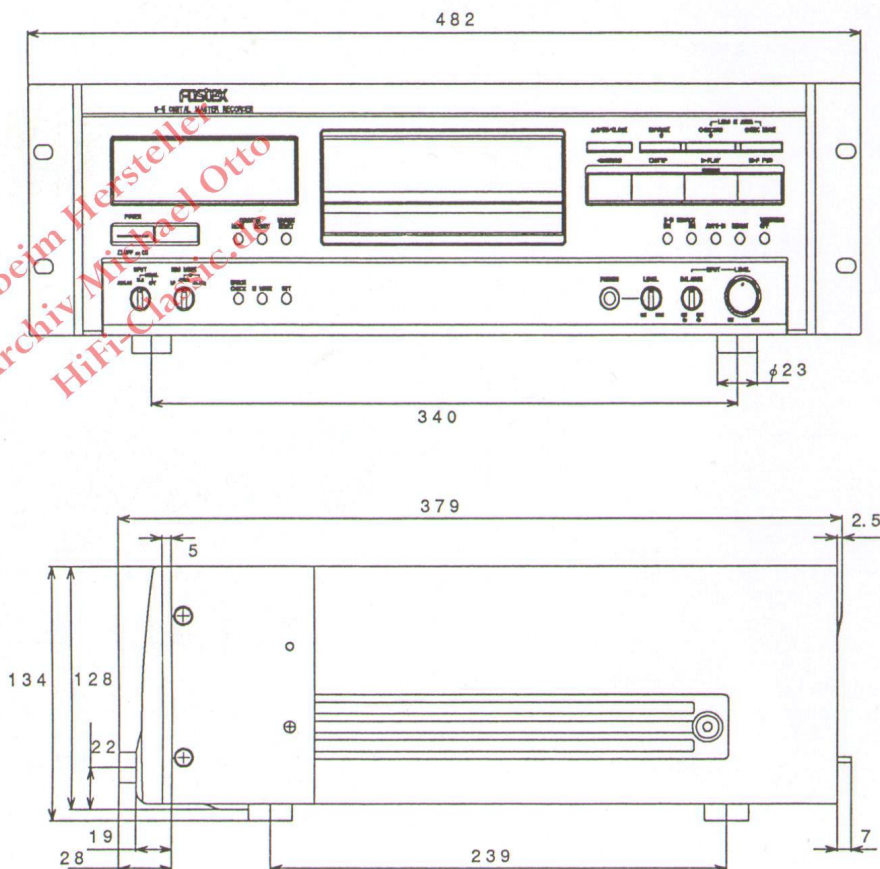
GPI input which supports "Fader Start"

Because the D-5 is equipped with the DIN 5PIN GPI IN connector, "PLAY", "STOP", "S-ID search >>" and "S-ID search <<" operation can be implemented through commands from an external device.

D-5 Specifications

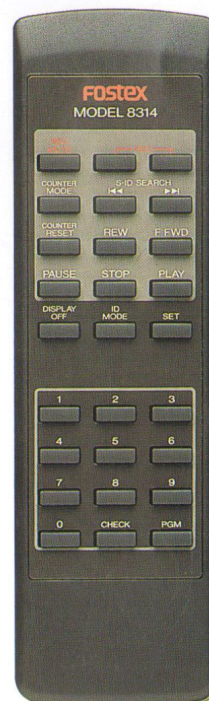
Recording Format	:IEC DAT Standard	Analog Audio Input (XLR-3-31, Pin No. 2:Hot)	Reference Input Level	:+4dBu/-10dBV (Switchable)
Head Configuration	:Cylinder 2-head	Input Impedance	:10k Ω	
Channel Number	:2 channel / Stereo	Analog Audio Output (XLR-3-32, Pin No. 2:Hot)	Reference Output Level	:+4dBu
Tape Speed	:8.15mm/s (SP mode) 4.075mm/s (LP mode)	Output Load Impedance	:600 Ω or more	
Recording Time (for 120 min. tape)	:Max. 120 minutes (SP mode) Max. 240 minutes (LP mode)	Headphone Output (ϕ 6 stereo phone jack)	Max. Output Level	:40mW or more (at 32 Ω)
Sampling Frequency	:48kHz, 44.1kHz, 32kHz	Output Load Impedance	:8 Ω or more	
Quantization	:16 Bit Linear (SP mode) 12 Bit Non-linear (LP mode)	Digital Input (XLR-3-31, Pin No. 2:Hot)	Input Format	:Complies with AES/EBU Standard
Power Requirements	:120VAC, 60Hz, 28W 230V~, 50/60Hz, 28W	Digital Output (XLR-3-32, Pin No. 2:Hot)	Output Format	:Complies with AES/EBU Standard
Dimensions	:482(W) x 134(H) x 379(D)mm	Optical Input	Input Format	:Complies with IEC Consumer
Weight	:6.8kg	Optical Output	Output Format	:Complies with IEC Consumer
Fast Wind Time	:Less than 60 seconds (for 120min. tape)	GPI Output (DIN 5PIN)		:PLAY, STOP, S-ID search >>, S-ID search << PNP transistor input, Low Active (4.7k Ω /5V, Pull Up)
Error Correction	:Double Encoded Reed Solomon Code			
Reference Recording Level	:-12dB			
R/P Frequency Response	:20Hz ~ 20kHz \pm 1dB 20Hz ~ 14.5kHz \pm 1dB			
S/N	:More than 90dB			
THD	:Less than 0.05% (1kHz, +4dBu)			
Wow & Flutter	:Less than measurement limit (\pm 0.001% WTD PEAK)			

D-5 Dimensional Drawings



Function of Model 8314 infrared remote controller

- Transport control of the D-5
- S-ID search
- ID mode selection
- ID editing
- Up to 30 songs of programing
- Checking of song programing
- On/Off of the D-5's display
- Counter reset
- Switching of display mode
- REC mute



Fostex

For full information on any Fostex products, and for details of your nearest Fostex dealer, please contact your national distributor.

FOSTEX CORPORATION, 3-2-35, Musashino, Akishima, Tokyo, Japan 196
FOSTEX CORPORATION OF AMERICA, 15431 Blackburn Avenue, Norwalk, CA90650, USA