

Main features

- Ideal for live recording with machines D2424/D1624
- High quality 8ch AD converter for adding an additional 8 analog inputs to D1624 via ADAT and an additional 8 (total 16 additional) to D2424 with optional Model 5045
- Can also be used to add useful analog inputs to PC based digital recorders
- ADAT / S/P DIF selectable optical output
- Selectable unbalanced / balanced inputs (-10dBV / +4dBu), input reference level selectable (-12, -18, -20dB).
- 4 digital output formats: 24-bit / 44.1kHz, 24-bit / 48kHz, 24-bit / 88.2kHz (S/P DIF), 24-bit / 96kHz (S/P DIF)
- Word I/O for sync
- Utilizes the same high quality 24bit AD/DA converters as the Fostex D-Series recorders (AD: AK5393)
- With optional Model 8355 AES/EBU card, 8 analog inputs can be converted into 8 channels of 24-bit / 96kHz digital audio
- Easy to use front panel controls



(24bit 96kHz)

AC2496

Analog to ADAT / S/P DIF converter

adat
OPTICAL

24BIT
Resolution

96KHZ
Frequency

4 DIGITAL FORMATS
In addition to the 24bit / 96kHz capability, the AC2496 features 3 other digital formats (24bit / 44.1kHz, 24bit / 48kHz and 24bit / 88.2kHz), making it incredibly flexible in operation.

The new 8 channel Fostex AC2496 Analog to ADAT / S/P DIF converter offers users of Fostex Digital Multitracks the flexibility of more analog inputs.

This is particularly useful in a 'live' recording application where the number of simultaneous recording tracks (from analog sources) can be maximized. And in the case of the

D2424, that means recording on all 24 tracks simultaneously (with optional Model 5045). Each analogue input can accommodate balanced or unbalanced signals, with 4 digital output formats available.

Options include Model 8355 AES/EBU Card (to enable 8ch recording in 24-bit/96kHz), and Model 5045 8ch AD Card . (see below).

24BIT
A/D Converter

128x
Oversampling

EXCEPTIONAL QUALITY
The AC2496 features the same high quality A/D converters as seen in the acclaimed Fostex D-Series recorders. 128 times oversampling delta-sigma 24bit AD/DA converters (AD-AK5393). If you're serious about your audio you should accept nothing less.

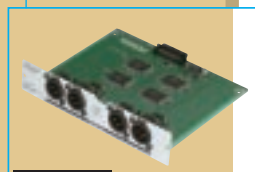


FRONT PANEL

1. Word Clock control Off / On
2. Word Clock control Internal / External
3. Digital format selector:
ADAT (44.1, 48kHz)
S/P DIF (44.1, 48, 88.2, 96kHz)
4. Reference input level selector:
Balanced (-12, -18, -20dB)
Unbalanced (-12, -18, -20dB)
5. Analog input mode:
1-2, 1-4, 1-8

REAR PANEL

6. Bay for adding optional plug-in cards
7. 8 balanced / unbalanced inputs
8. S/P DIF / ADAT optical out
9. Word Sync I/O



Optional Cards

8355 AES/EBU Card

- 8 AES/EBU outputs enabling 8 track simultaneous recording at 24-bit / 96kHz & connection to professional studio gear and PC-based audio recorders

5045 ADDITIONAL 8 ANALOGUE INPUTS

- Adds an additional 8 balanced / unbalanced analogue inputs of 6mm TRS jacks

Specs

INPUT / OUTPUT	
Analog Input (1-8)	TRS phone jack x 8 (balanced/unbalanced selectable)
Reference Level	-12dB / -18dB / -20dB selectable
Input Level	+4dBu (balanced) / -10dBV (unbalanced)
Impedance	> 10k ohm
Digital Out Format	optical x 1 IEC 60958 S/P DIF, Alesis Proprietary Multi Channel Digital Interface (ADAT)
Word Input:	BNC connector, TTL level, 75ohm (terminate on/off)
Word Output:	VNC connector, TTL level, 75ohm
PERFORMANCE	
Sampling Frequency	44.1kHz / 48kHz / 88.2kHz (S/P DIF) / 96kHz (S/P DIF) selectable
Quantization	24bit
Frequency Response	20 - 20kHz +/- 1dB (fs=44.1kHz) > 43kHz +/- 2dB (fs=96kHz)
S/N Ratio	> 110dB (typical) at Balanced, Reference Input -12dB
Dynamic Range	> 110dB (typical) at Balanced, Reference Input -12dB
T.H.D.	< 0.002% at Balanced, Reference Input -12dB, 1kHz *
PHYSICAL	
Dimensions	482(w) x 44 (h) x 220 (d) mm
Weight	2.0 kgs.

AC2496

*typical

Main features

- Affordable ADAT Optical / Analogue converter
- 20-bit AD/DA performance
- S/P DIF / Analogue conversion
- Selectable clock - Internal (44.1kHz), Optical, Word
- (32-48kHz) enables seamless integration with digital equipment
- Input Mode select (2/4/8 buss) for easy combination with any analogue mixer
- Word In for sync
- Utilizes high quality 20bit AD/DA converters

SUGGESTED APPLICATIONS

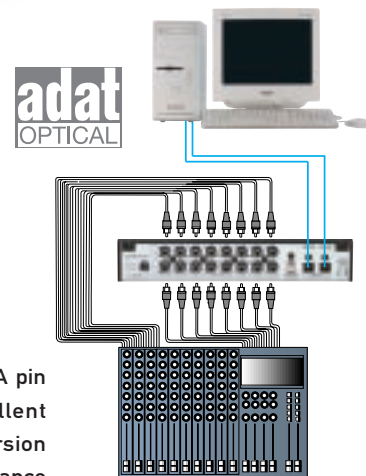
- Add analogue I/Os to digital recorders such as D824, D1624, D2424 to maximize the number of simultaneous recording tracks
- Add 8 high quality analog inputs and outputs to a PC sound card equipped with ADAT optical connection



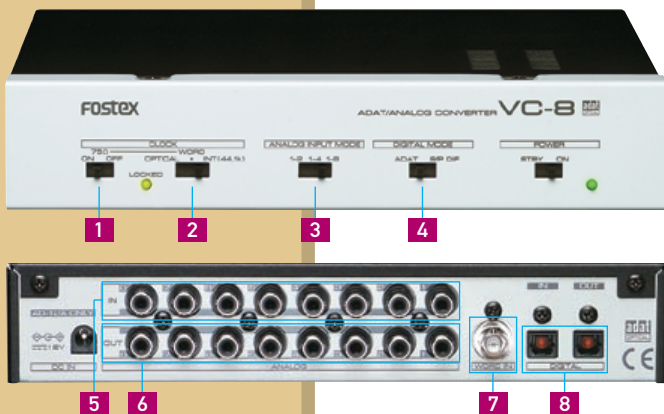
VC-8 Analog/ADAT Converter

The 8 channel Fostex VC-8 Analog/ADAT converter offers users of Fostex Digital Multitracks and PC soundcard users the flexibility of adding more analog inputs and outputs. This is particularly useful in a 'live' recording application where the number of simultaneous recording tracks (from analog sources) can be maximized.

Inputs and outputs are via RCA pin connectors and utilize excellent quality 20-bit A/D D/A conversion with 32-48kHz digital performance available enabling seamless integration with digital equipment. Interfacing to an analog mixer is made simple using the bus selector which can operate in 2, 4 and 8-bus modes.



EXAMPLE APPLICATION
In this example, the VC-8 is used to add an 8 analog inputs and outputs to a PC soundcard recording set-up allowing for easy 8-track recording and external mixing. (The soundcard must be equipped with optical I/O)



- FRONT PANEL**
1. Word Clock control: Off / On
 2. Word Clock control : Internal (44.1kHz), Optical, Word
 3. Analog input mode: 1-2, 1-4, 1-8
 4. Digital format selector: ADAT, S/P DIF

- REAR PANEL**
5. 8 unbalanced inputs
 6. 8 unbalanced outputs
 7. Word Sync In
 8. ADAT / S/P DIF In/Out

Specs

INPUT / OUTPUT	
Analog Input (1-8)	RCA pin jack
Input Level	-10dBV
Input Impedance	>20k ohm
Analog Output (1-8)	RCA pin jack
Output Level	-10dBV
Load Impedance	>10k ohm
Digital Data In/Out	Optical (x 2)
Format (Switched to 1 or 2.)	1. IEC60958 (S/P DIF) 2. Alesis Proprietary Multi Channel Optical Interface
Word Input	BNC connector, TTL level
Input Impedance	75 ohm (terminate on/off)
PERFORMANCE	
Sampling Frequency	INT mode : 44.1kHz, OPTICAL/WORD mode : 32 - 48kHz
AD	20 bit 64 times over sampling modulation
DA	20 bit 128times over sampling modulation
Total Harmonic distortion	0.008% (@ 1kHz, Typical)
Dynamic Range	96dB (Typical)
PHYSICAL	
Dimensions	220 (w) x 43 (d) x 180 (h) mm
Weight	1.0kg (Excluding accessories)