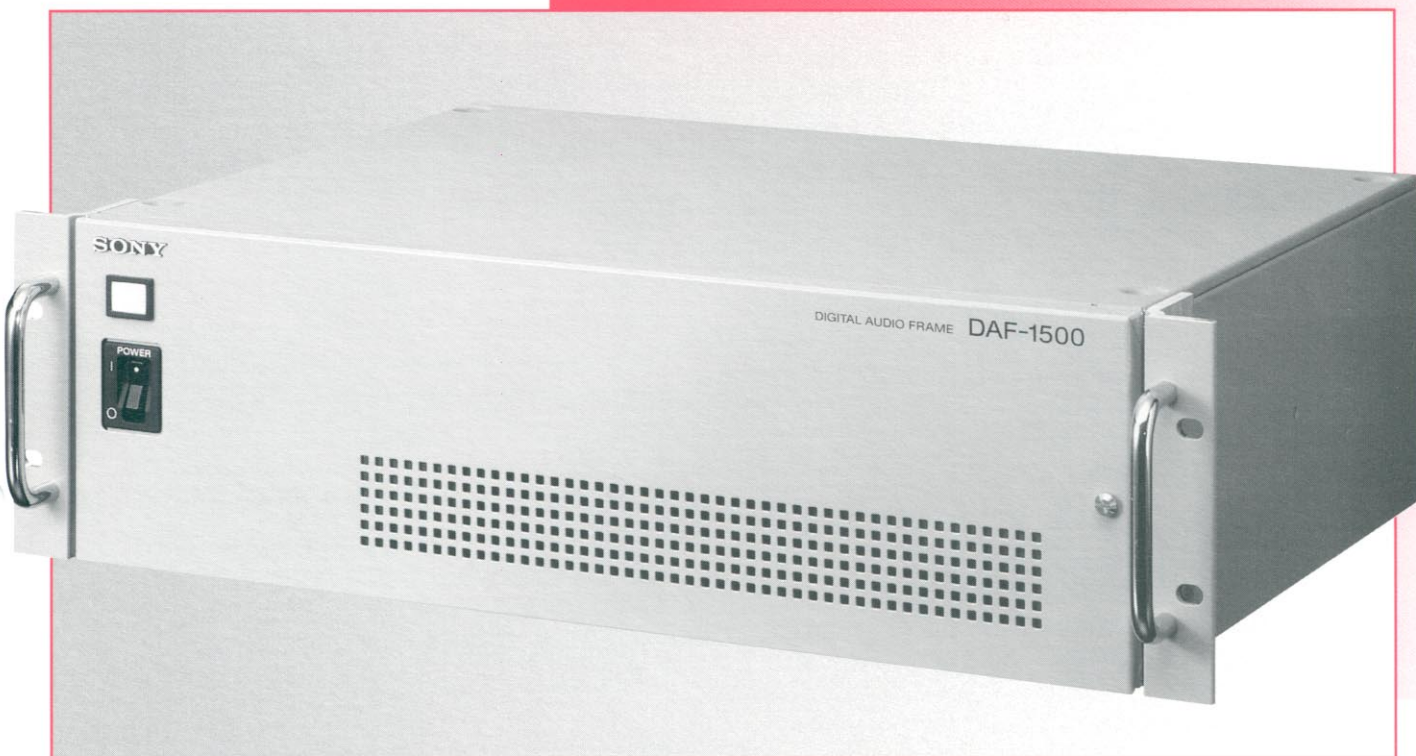


# SONY®

Audio Converter Unit

# DAF-1500



The DAF-1500 System is an audio converter unit which holds up to eight of the following, easily installed, optional boards in any combination. It is 3 units high, 19-inch EIA standard rack mountable frame.

- DABK-1511** A/D Converter Board
- DABK-1512** D/A Converter Board
- DABK-1513** ID Inserter Board
- DABK-1514** Sampling Rate Converter Board
- DABK-1515** Word Sync Distribution Board

\*Word clock and AES/EBU DI sync board fitted as standard, but this can be replaced by an optional DABK-1510 Video Sync board.

**Digital  
Processing  
Equipment**

# DAF-1500 SYSTEM

## Features

### DABK-1510 Video sync board

- Can be installed into a DAF-1500 digital audio frame in place of the word clock and AES/EBU DI sync board.
- Locks the AES/EBU output signals to an NTSC/PAL video signal, either composite video or black burst, or to an HDVS video signal.

### DABK-1511 A/D converter board

- Converts two balanced analog audio signals into the AES/EBU signal format at 20 bits/sample.
- Sampling frequency selectable from 48kHz, 47.952kHz, 44.1kHz or 44.056kHz.

### DABK-1512 D/A converter board

- Converts an AES/EBU signal into two balanced analog audio signals at 20 bits/sample.
- Accepts signals with sampling frequencies of 48kHz, 47.952kHz, 44.1kHz or 44.056kHz.

### DABK-1513 ID inserter board

- Adds source/destination data to the channel status of the AES/EBU digital output signal from a DABK-1511 A/D converter board and DABK-1514 sampling rate converter board.
- Interface with up to eight DABK-1511 and DABK-1514 boards.
- Source/destination data input via an RS-232C connector.

### DABK-1514 Sampling rate converter board

- Converts any sampling frequency between 22.03kHz and 64kHz into any one of the following frequencies; 44.056kHz, 44.1kHz, 47.952kHz and 48kHz
- The digital input signal is selectable from AES/EBU or IEC-958 format by the "INPUT" switch on the front panel of the DABK-1514. The output signal is in AES/EBU format, and the output sampling frequency can be selectable from 44.056kHz, 44.1kHz, 47.952kHz or 48kHz either by the switch on the front panel of the word clock board or on the optional video sync board.

Acceptable Input Fs Range	
Output Fs	Input Fs Range
44.056kHz	22.03kHz to 64kHz
44.1kHz	22.05kHz to 64kHz
47.952kHz	23.98kHz to 64kHz
48kHz	24kHz to 64kHz

- Delay time for conversion can be selectable either approx. 700µs or approx. 3ms by the "DELAY" switch on the front panel of the DABK-1514.

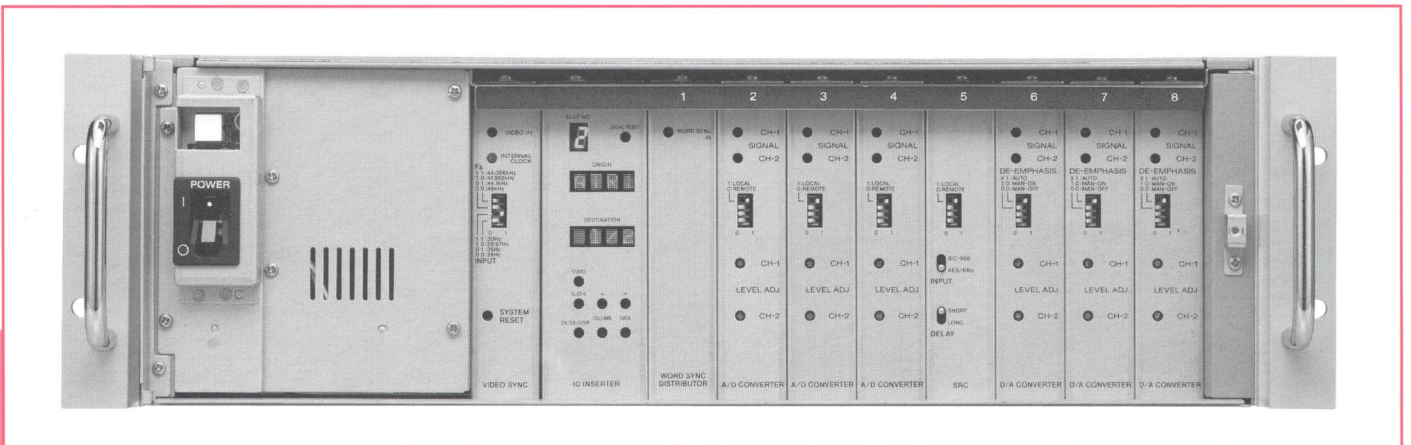
### DABK-1515 Word sync distribution board

- Equipped with a word sync input connector with loop-through and four distribution output connectors. All connectors are BNC type.
- Built-in green LED indicator to confirm word sync input is present.

### DABK-1517 Redundant power supply unit

- Connects to the DC input connector of a DAF-1500 frame with a supplied 0.7m DC cable.
- 1 unit high, 19-inch EIA standard, rack mountable frame.

## DAF-1500 Front Panel



## Specifications

General	
Dimensions:	424(W) x 133(H) x 350(D) mm (16 3/4 X 5 1/4 X 13 7/8 Inches)
Weight:	11.5 kg (25 lb 7 oz) maximum
Power requirements:	AC 100 to 240V, 50/60Hz
Power consumption:	AC 150VA maximum
Inputs/Outputs	
ANALOG IN (DABK-1511):	2ch, +4dBu(+24dBu max.), adjustable from -10dBu to +8dBu, 10kΩ or 600Ω, balanced XLR-3-31 type (X2)
ANALOG OUT(DABK-1512):	2ch, +4dBu(+24dBu max.), adjustable range from -10dBu to +8dBu, less than 50Ω, balanced XLR-3-32 type (X2)
DIGITAL IN (DABK-1512):	2ch, AES/EBU, XLR-3-31 type (x1)
DIGITAL OUT (DABK-1511):	2ch, AES/EBU, XLR-3-32 type (x1)
Word sync:	TTL compatible, 75Ω BNC, loop-through
AES/EBU sync:	XLR-3-31 type/XLR-3-32 type, buffered through
Reference video (DABK-1510):	Black burst/composite sync/composite video (525/59.94, 625/50, 525/60), BNC loop-through, switchable 75Ω termination

## Audio Performance

### DAF-1500: Digital Audio Frame

Quantization:	20bits/sample
Frequency response:	20Hz of 20kHz +0.2dB/-0.3dB
Total harmonic distortion:	Less than 0.03% at 1kHz
Signal-to-noise ratio:	More than 100dB at maximum input level
Crosstalk:	Less than -90dB at 1kHz
Emphasis:	50μs/15μs (ON/OFF selectable)
Sampling frequency:	48kHz, 47.952kHz, 44.1kHz or 44.056kHz selectable

### DABK-1514: Sampling Rate Converter Board

Digital Inputs:	2ch, AES/EBU, XLR-3-31 type (x1) with transformer 2ch, IEC-958, RCA-pin type (x1), w/o transformer
Digital Outputs:	2ch, AES/EBU, XLR-3-32 type (x1) with transformer
Frequency response:	20Hz of 20kHz, +0.2dB/-0.3dB
Input sampling frequency:	22.03kHz to 64kHz
Total harmonic distortion:	Less than 0.02%
Dynamic range:	More than 100dB (AES/EBU I/O, 20-bit sampling)
Processing time:	Approx. 3ms (long mode) Approx. 700μs (short mode)

### DABK-1515: Word Sync Distribution Board

Sampling frequency:	44.056kHz, 44.1kHz, 47.952kHz or 48kHz
Output level:	TTL compatible

### DABK-1517: Redundant Power Supply Unit

Dimensions:	424(W) x 44(H) x 250(D)mm (16 3/4 x 1 3/4 x 9 7/8 inches)
Weight:	5kg (11 lb)
Power requirements:	AC100V to 240V, 50/60Hz
Power consumption:	AC 200VA

## DAF-1500 Rear Panel

