

AD8HR

AD Converter with Remote Preamplifier



AD8HR



1U

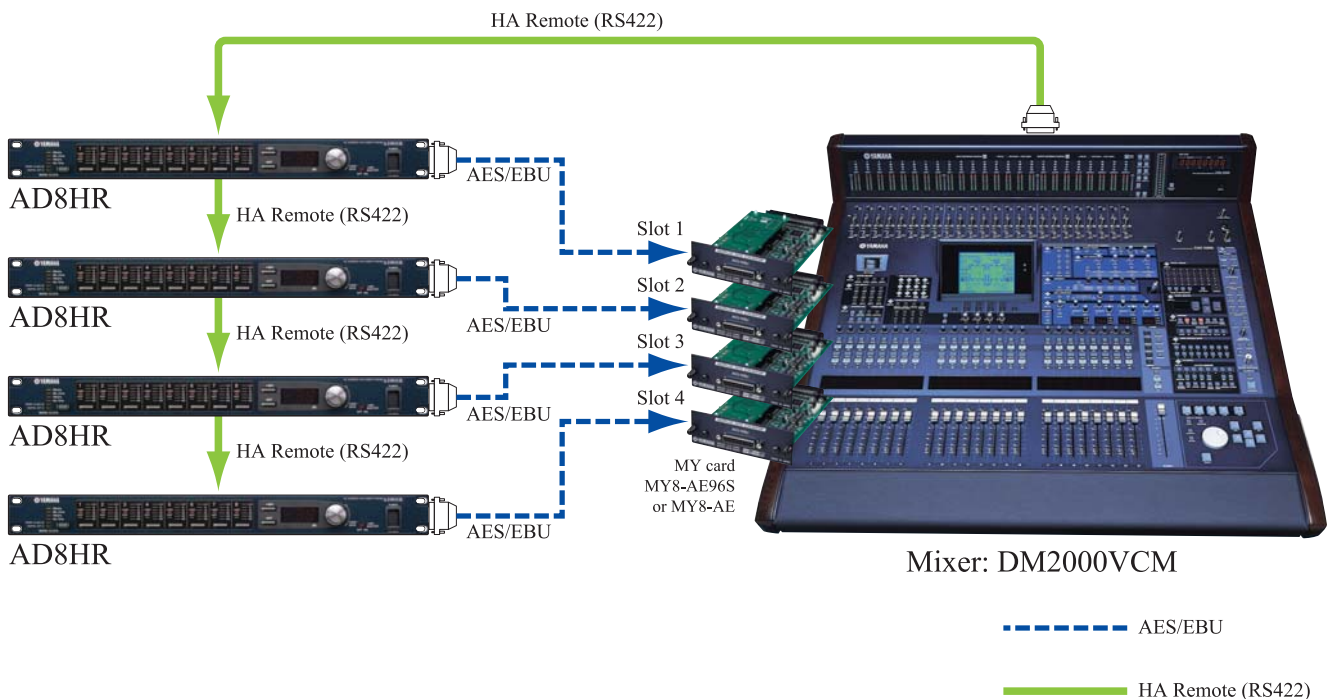
Rear Panel



Remotely controllable 8-channel AD converter and preamplifier with 96 kHz processing.

- Microphone preamplifier technology inherited from the PM5000 analog live sound console for unsurpassed sound quality.
- Microphone preamplifier gain can be remotely controlled in steps of 1 dB from compatible Yamaha digital mixing consoles.
- High-pass filter with remotely controllable cutoff frequency on each channel.
- Remotely switchable phantom power supply.
- Up to 255 AD8HRs can be daisy-chained for massive input capacity.
- AES/EBU digital connection to digital mixing console minimizes the need for analog cabling.
- Eight XLR connectors and D-Sub AES/EBU terminals in a compact 1U design.
- Dual output connectors enable 2 x 8-channel digital audio output in the AES/EBU format.
- Remote control can be implemented via RS422 or switchable PC/RS422 nine-pin terminals.

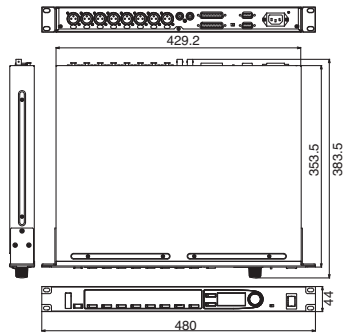
SYSTEM EXAMPLE



GENERAL SPECIFICATIONS

Frequency response (INPUT1 to 8 to DIGITAL OUT1 to 8)	20Hz to 20kHz @44.1kHz,48kHz +1,-3dB 20Hz to 40kHz @88.2kHz,96kHz +1,-3dB (GAIN:-62dB)
Total harmonic distortion	Less than 0.05%, -1dBfs @-62dB, 1kHz, Less than 0.01%, -1dBfs @+10dB, 1kHz
Equivalent input noise	-128dB (Rs=150ohms,GAIN:-68dB)
Dynamic range	110dB
Crosstalk	-80dB @1kHz
Phantom voltage	+48V
Sampling frequency rate	44.1kHz, 48kHz, 88.2kHz, 96kHz
Power requirements	Japan: AC100V, 50/60Hz, 35W North America: AC120V, 60Hz, 35W Other Areas: AC230V, 50Hz, 35W
Dimensions (W x H x D)	480mm x 44mm x 355mm (18.9" x 1.73" x 13.9"), 1U
Weight	5.0kg (11lbs)

DIMENSIONS



unit : mm

ANALOG INPUT SPECIFICATIONS

Input Terminal	Gain	Actual Load Impedance	For Use With Nominal	Input Level		Connector
				Sensitivity	Max. before Clip	
INPUT 1-8	-62dB	3kΩ	50-600Ω Mics & 600Ω Lines	-62dBu	-42dBu	XLR3-31 Type
	+10dB			+10dBu	+30dBu	

* XLR-3-31 type connectors with latches are balanced. (1=GND, 2=HOT, 3=COLD)

* 0 dBu=0.775 Vrms.

*AD converters are 24-bit linear, 128-times oversampling.

DIGITAL INPUT AND OUTPUT SPECIFICATIONS

Output Terminal	Format	Level	Connector
INPUT 1/2 (W.C. only) OUTPUT 1-8 x 2	AES/EBU	RS422	D-sub 25 pin
COM A,B	-	RS422	D-sub 9 pin
WORD CLOCK IN	-	TTL/75Ω	BNC
WORD CLOCK OUT	-	TTL/75Ω	BNC

* Input 1/2 on DIGITAL OUT A can be selected for word clock master.

*Fs= 44.1, 48, 88.2 and 96 kHz is supported.

*Double Channel mode is supported (Fs= 88.2, 96 kHz).

*When locked to the word clock received via WORD CLOCK IN, the word clock will be output from WORD CLOCK OUT.