

DSP-AX1

Digital Home Theater Amplifier



DSP-AX1 Oil-Damped Hidden Control Panel

The World's Finest Amplifier, with Unrivalled Performance and Amazing Capabilities.

- 44-Bit CINEMA DSP LSIs (Yamaha Original YSS-910 x 2)
- High-Performance D/A Converters for All 10 Channels
- Digitally Regulated Volume Control
- 54 Surround Programs with 31 CINEMA DSP and 18 HiFi DSP Programs
- Quad-Field CINEMA DSP for 6.1-Channel Digital Surround
- Processor Direct Switch
- SILENT CINEMA for Headphone Play
- Massive, Anti-Resonance, Aluminum-Extruded, Naturally Cooled Heat Sinks
- Copper-Plated Bottom Cover and Shielding Cases
- Custom Installation Compatibility with RS-232C Interface and Zone 2 Out
- Direct Access (Macro-Command, Learning-Capable and Preset) Remote Control Unit with LCD Display



Black finish available



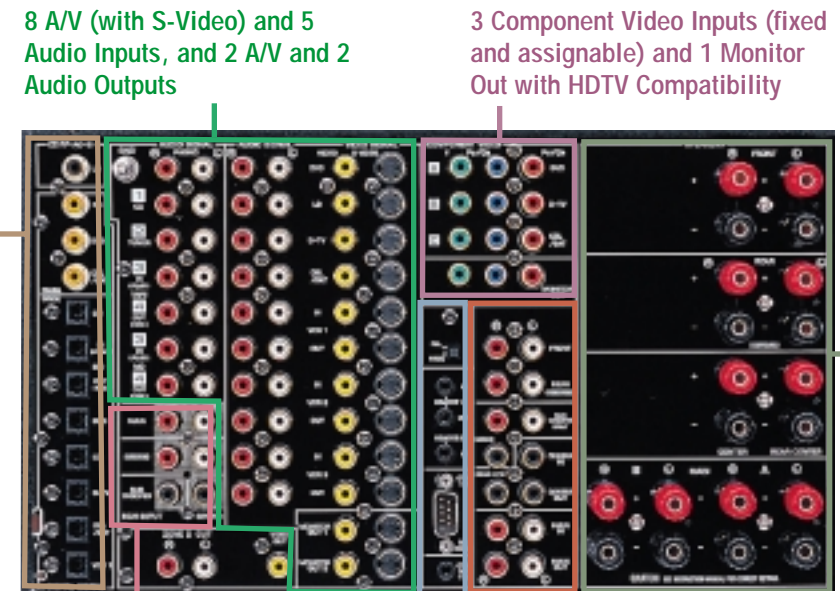
DSP-AX1 Surround Programs

HiFi DSP Programs	Matrix 6.1 Decoder Off	Matrix 6.1 Decoder On
HALL 1	Hall A in Europe Hall B in Europe Hall C in Europe	
HALL 2	Hall D in U.S.A. Hall E in Europe Live Concert	
CHURCH	Tokyo Freiburg Royaumont	
JAZZ CLUB	Village Gate Village Vanguard The Bottom Line	
ROCK CONCERT	The Roxy Theatre Warehouse Loft Arena	
ENTERTAINMENT	Disco Party Game/Amusement	
Programs	18 Programs	
Surround Programs	Matrix Decoder Off	Matrix Decoder On
	Dolby Pro-Logic Normal	
	Dolby Digital Normal	Dolby Digital/Matrix 6.1
	DTS Digital Sur. Normal	DTS-ES
Programs	3 Programs	2 Programs

CINEMA DSP Programs	Matrix 6.1 Decoder Off	Matrix 6.1 Decoder On
CONCERT VIDEO 1	Pop/Rock DJ	
CONCERT VIDEO 2	Classical/Opera Pavilion	
TV THEATER	Mono Movie Variety/Sports	
MOVIE THEATER 1	70mm Spectacle Dolby Digital Spectacle DTS Digital Sur. Spectacle 70mm Sci-Fi	Dolby Digital Spectacle 6.1 DTS Digital Sur. Spectacle ES Dolby Digital Sci-Fi 6.1 DTS Digital Sur. Sci-Fi ES
MOVIE THEATER 2	70mm Adventure Dolby Digital Adventure DTS Digital Sur. Adventure 70mm General Dolby Digital General DTS Digital Sur. General	Dolby Digital Sci-Fi 6.1 DTS Digital Sur. Sci-Fi ES Dolby Digital Adventure 6.1 DTS Digital Sur. Adventure ES Dolby Digital General 6.1 DTS Digital Sur. General ES
DOLBY/DTS SURROUND	Dolby Pro-Logic Enhanced Dolby Digital Enhanced DTS Digital Sur. Enhanced	Dolby Digital Enhanced 6.1 DTS Digital Sur. Enhanced ES
Programs	21 Programs	10 Programs
Program Total	42 Programs	12 Programs
Grand Total	54 Programs	

Remarks: ■ HiFi DSP Programs ■ A/V Programs ● CINEMA DSP ● Tri-Field CINEMA DSP ● Quad-Field CINEMA DSP
 • All DSP programs are available in the SILENT CINEMA and Virtual CINEMA DSP modes.

Versatile Digital Inputs/Outputs:
 7 Optical/3 Coaxial/
 1 RF (AC-3) Digital
 Inputs and 1 Optical
 Output



8 A/V (with S-Video) and 5 Audio Inputs, and 2 A/V and 2 Audio Outputs

3 Component Video Inputs (fixed and assignable) and 1 Monitor Out with HDTV Compatibility

6-Channel External Decoder Input for Future Sound Formats

Custom Installation Capability with RS-232C Interface and Zone 2 Out

Premain and Center Couplers, and Preout Terminals for Rear Effect, Rear Center and Front Effect Channels, and 2 Split/Mono Subwoofer Out

150W x 6
 +
 45W x 2
 (MAX)

2-Way Binding-Post Speaker Terminals (banana-plug compatible, all terminals)

Recommended Speaker Combination

- Main Speakers NS-300
- Center Speaker NS-C300
- Rear Effect Speakers NS-100
- Rear Center Speaker NS-100S
- Front Effect Speakers NS-100
- Subwoofers YST-SW800 x 2



● This system is also offered with a cherry finish.

	DSP-AX1	DSP-AX2	RX-V3000
Quad-Field CINEMA DSP	Yes	Yes	Yes
Digitally Regulated Volume Control	Yes (all channels)	Yes (all channels)	Yes (all channels)
Surround Program	54 programs	49 programs	49 programs
On-Screen Display	Yes	Yes	Yes
Virtual CINEMA DSP	Yes	Yes	Yes
Convenient "Set Menu"	Yes	Yes	Yes
Maximum Output Power			
Main Ch	150 W + 150 W	140 W + 140 W	140 W + 140 W
Center Ch	150 W	140 W	140 W
Rear Effect Ch	150 W + 150 W	140 W + 140 W	140 W + 140 W
Rear Center Ch	150 W	140 W	140 W
Front Effect Ch	45 W + 45 W	35 W + 35 W	35 W + 35 W
Dynamic Power/Ch (Main Ch)	4 ohms: 240 W 2 ohms: 340 W	220 W 320 W	220 W 320 W
Linear Damping	Yes	Yes	Yes
Damping Factor (8 ohms, 20-20,000 Hz)	200 (main ch)	200 (main ch)	200 (main ch)
Frequency Response (8 ohms)	10-100,000 Hz +0, -3 dB	10-100,000 Hz +0, -3 dB	10-100,000 Hz +0, -3 dB
A/V Rec Out Selector	Yes	Yes	Yes
Subwoofer Output Terminals	Yes (mono/split)	Yes (mono x 2)	Yes (mono x 2)
Preout Terminals	Premain/center couplers, and rear effect, rear center and front effect preout terminals	Premain coupler, and center, rear effect, rear center and front effect preout terminals	Premain coupler, and center, rear effect, rear center and front effect preout terminals
Bass Extension	Yes	Yes	Yes
6-Channel External Decoder Input	Yes	Yes	Yes
Signal-to-Noise Ratio (CD, 250 mV)	100 dB	100 dB	100 dB
Dimensions (W x H x D)	471 x 211 x 473 mm	449 x 191 x 468 mm	449 x 191 x 468 mm
Weight	28 kg	22 kg	22 kg

DSP-AX1 Inputs and Outputs

	Analog		Digital		Video	
	In	Out	In	Out	In	Out
PHONO						
CD						
TUNER						
MD						
TAPE						
DVD						
LD						
D-TV						
CBL/SAT						
VCR 1						
VCR 2						
VCR 3						
VIDEO AUX						
MONITOR 1						
MONITOR 2						
ZONE 2						

Fixed (■) and Assignable (□) Terminals.
 * Component Video

Fixed and Assignable Terminals
 Only Yamaha offers terminals that can be either independently assigned to channels or defaulted to fixed settings.

HDTV Compatible Component Video Monitor Out
 Frequency response of Component Video Monitor Out signal is DC - 100MHz, making it compatible with HDTV monitors.