

# XMV Series

## Multi-channel Power Amplifiers



XMV8280



XMV8140



XMV4280



XMV4140



XMV8280 Rear Panel



XMV8280-D



XMV8140-D



XMV4280-D



XMV4140-D



XMV8280-D Rear Panel

Multi-channel power amplifiers with features designed specifically to benefit installation sound systems.

- Four-channel or eight-channel power amp that can operate in both high-impedance (70V/100V line) or low-impedance (4Ω/8Ω) modes simultaneously.
- 70V or 100V mode can be assigned to every pair of channels without affecting the number of available output channels.
- The newly developed Double Power Mode function effectively doubles the output power of selected channels.
- Equipped with either YDIF\* digital audio format or Audinate's digital audio network Dante for simple and fast system configuration.
- Easy setting such as the mute on/off or attenuator changes with MTX Editor when used in system with MTX Series.
- An innovative, new, patent pending circuit improves the already highly efficient Class D circuit topology, bringing the efficiency level of the amplifier's output stage up to over 90%.
- Feature a Power Factor Correction equipped switching power supply, ensuring harmonic control and decreasing the amount of current draw while maintaining the same output power.
- Powerful, intelligent protection features for more reliable operation.

\*YDIF: the newly developed digital transmission format; a unique propriety Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ether cable.

## GENERAL SPECIFICATIONS

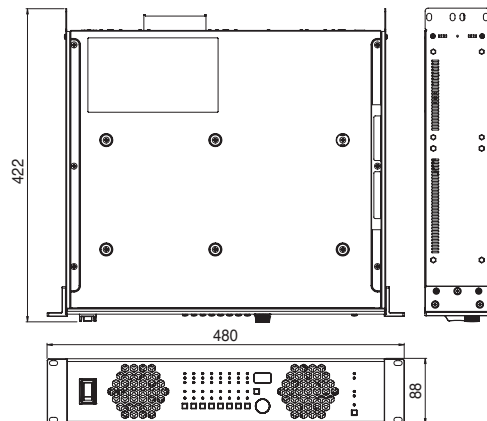
Model		XMV8280	XMV8140	XMV8280-D	XMV8140-D	XMV4280	XMV4140	XMV4280-D	XMV4140-D
Output Power	1kHz, 4Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4
	THD+N = 1% 8Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4
	4Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2
	8Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2
High impedance	100V line	250W x 8	125W x 8	250W x 8	125W x 8	250W x 4 / 40Ω	125W x 4 / 80Ω	250W x 4 / 40Ω	125W x 4 / 80Ω
	70V line	250W x 8	125W x 8	250W x 8	125W x 8	250W x 4 / 20Ω	125W x 4 / 40Ω	250W x 4 / 20Ω	125W x 4 / 40Ω
Voltage Gain	RL=8Ω	31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB
	RL=8Ω / Double Power Mode	34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB
	100V	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB
	70V	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB
Input Sensitivity	RL=8Ω	+4dBu							
S/N Ratio	A-weighted	≥ 100dB							
Power Consumption	1/8 power (4Ω pink noise)	450W	250W	450W	250W	250W	150W	250W	150W
	Idle (4Ω)	73W	73W	73W	73W	37W	37W	37W	37W
	Standby	23W	23W	23W	23W	18.5W	18.5W	18.5W	18.5W
THD+N	1kHz, half power	≤ 0.2%							
Frequency Response	RL=8Ω, 100V/70V, Po=1W, 20Hz - 20kHz	0dB, ±1.0dB							
Crosstalk	1kHz, half power, 8Ω, Att. max, input 150Ω shunt	≤ -60dB							
Maximum Input Level		+24dBu							
Input Impedance		20kΩ (balanced), 10kΩ (unbalanced)							
Connectors	Analog Input	Euroblock x 4 (6P, balanced)				Euroblock x 2 (6P, balanced)			
	Digital Input / Output	RJ45 x 2 (YDIF IN / OUT)		RJ45 x 2 (Dante PRIMARY / SECONDARY)		RJ45 x 2 (YDIF IN / OUT)		RJ45 x 2 (Dante PRIMARY / SECONDARY)	
	Speaker Output	Barrier strip x 8 pairs				Barrier strip x 4 pairs			
	Network	RJ45 x 1		Shared with Dante ports		RJ45 x 1		Shared with Dante ports	
	Remote, Fault Output	Euroblock (3P) x 1				Euroblock (3P) x 1			
	AC IN	AC Inlet x 1				AC Inlet x 1			
Load Protection		POWER switch on/off: Output mute, DC-fault: Power supply shuts down, Clip limiting							
Amplifier Protection		Thermal: Output mute (heatsink temp ≥90°C) (Restored automatically), Overcurrent: Output mute (Restored automatically), Low load impedance: Output mute (Restored automatically)							
Power Supply Protection		Thermal: Amplifier shuts down automatically (heatsink temp ≥100°C), Integrated power: Gain reduction (Restored automatically)							
Cooling Fan		3-Speed fan x 2, front-to-back airflow							
Power Requirements		100V, 120V, 230V-240V; 50Hz/60Hz							
Dimensions (WxHxD)		480 x 88 x 422mm (18.9" x 3.5" x 16.6")				480 x 88 x 422mm (18.9" x 3.5" x 16.6")			
Weight		10.1kg (22.3lbs)				8.1kg (17.9lbs)			

\* Half power = 1/2 power output level

## DIMENSIONS

unit : mm

XMV8280 / XMV8140 / XMV8280-D / XMV8140-D



XMV4280 / XMV4140 / XMV4280-D / XMV4140-D

