

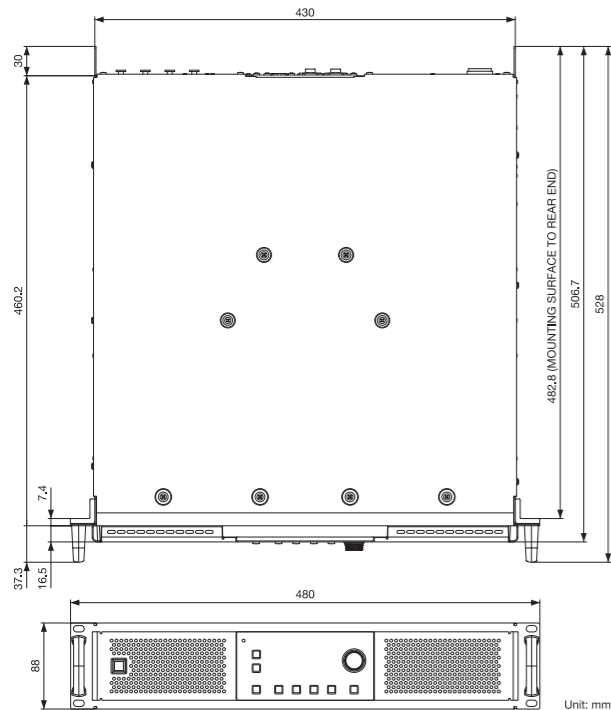
Specifications

General specifications		PC412-D	PC406-D	PC412-DI	PC406-DI
Output power 1kHz, non-clip, 20 msec burst, all channels driven	16Ω	600 W × 4	300 W × 4	600 W × 4	300 W × 4
	8Ω	1200 W × 4	600 W × 4	1200 W × 4	600 W × 4
	4Ω	1900 W × 4	900 W × 4	1900 W × 4	900 W × 4
	2Ω	2500 W × 4	1300 W × 4	2500 W × 4	1300 W × 4
	8Ω (BRIDGE mode)	3800 W × 2	1800 W × 2	3800 W × 2	1800 W × 2
	4Ω (BRIDGE mode)	5000 W × 2	2600 W × 2	5000 W × 2	2600 W × 2
	Hi-Z (70 V Mode)	-	-	1200 W × 4	600 W × 4
	Hi-Z (100 V Mode)	-	-	1200 W × 4	600 W × 4
Amplifier type (Output circuitry)		Class D, Single ended output			
THD+N	8Ω, 1 kHz, 10W, all channels driven	0.01%			
	4Ω, 1 kHz, half power, all channels driven	0.1%			
Frequency Response	8Ω, 1 W, 35 Hz – 20 kHz	+0.5 dB, -1.5 dB			
	100 V/70 V, 1 W, 40/80 Hz – 20 kHz	-		+0.5 dB, -1.5 dB	
Crosstalk	8Ω, 1 kHz, half power, input 150Ω shunt A-weighted	Less than -60 dB			
S/N ratio	8Ω, gain setting = 32 dB, A-weighted	112 dB	109 dB	112 dB	109 dB
Maximum input voltage		+28 dBu	+25 dBu	+28 dBu	+25 dBu
Input impedance		20 kΩ (balanced)			
Dante interface	Channel count	16 IN with Dante Redundancy, 16 OUT			
	Sampling frequency	96/88.2/48/44.1 kHz			
Power requirements	Voltage *1	100 – 240 V 50 Hz/60 Hz			
Dimensions (W x H x D)		480 × 88 × 528 mm			
Weight (with grill and handle)		16.0 kg	15.6 kg	16.0 kg	15.9 kg

*1 The unit has been verified to operate through a ±10% voltage variance from the rated power supply voltage.

*All specifications are tentative.

Dimensions



Lineup

PC412-D



PC412-DI



PC406-D



PC406-DI



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<http://www.yamahaproaudio.com/>

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NEWS

New Product Information

POWER AMPLIFIER

PC SERIES

Touring model Installation model

PC412-D

PC412-DI

PC406-D

PC406-DI



Power. Versatility. Control.

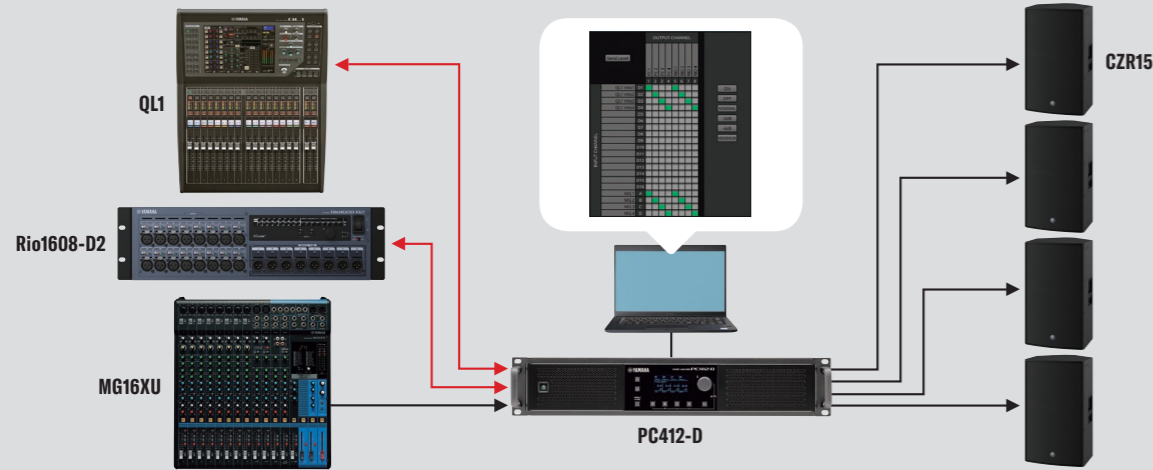
The PC series are so much more than just amplifiers—they are the first power amps ever to be capable of forming the core of a completely connected audio network for multi-zone installed or live sound applications. The ever-changing demands and rapid advances of amplifier technology and sound reinforcement in general require both versatility and power, and this series has plenty of both. Now you can leverage the power and flexibility of the most comprehensive matrix processing to be found on a power amplifier, all enhanced by the simplicity and ease of Dante connectivity, to create a fully integrated, effective sound solution. What's more, full compatibility with ProVisonaire gives you complete control over the entire network chain, from mixers through to amplifiers, processors, and speakers. In short, the PC series gives you what every sound engineer has always dreamed of—total control.

Powerful Matrix Functionality + Dante I/O = Superior Flexibility

The impressive 20 x 8 input matrix capability of PC Series amplifiers combines with Dante I/O to provide dramatic improvements to the versatility of any system. The PC Series can be used as a supplementary matrix to expand the overall system matrix, and even in systems without mixers or additional DSP, allows direct sound input from other analog devices or Dante-equipped gear to offer more flexible routing capabilities. The onboard Dante inputs and outputs also allow redundant connections for handling 16 input/16 output audio at up to 96 kHz with low latency, while combining the PC Series with remote software such as ProVisionaire Control provides even more flexibility and intuitive control.

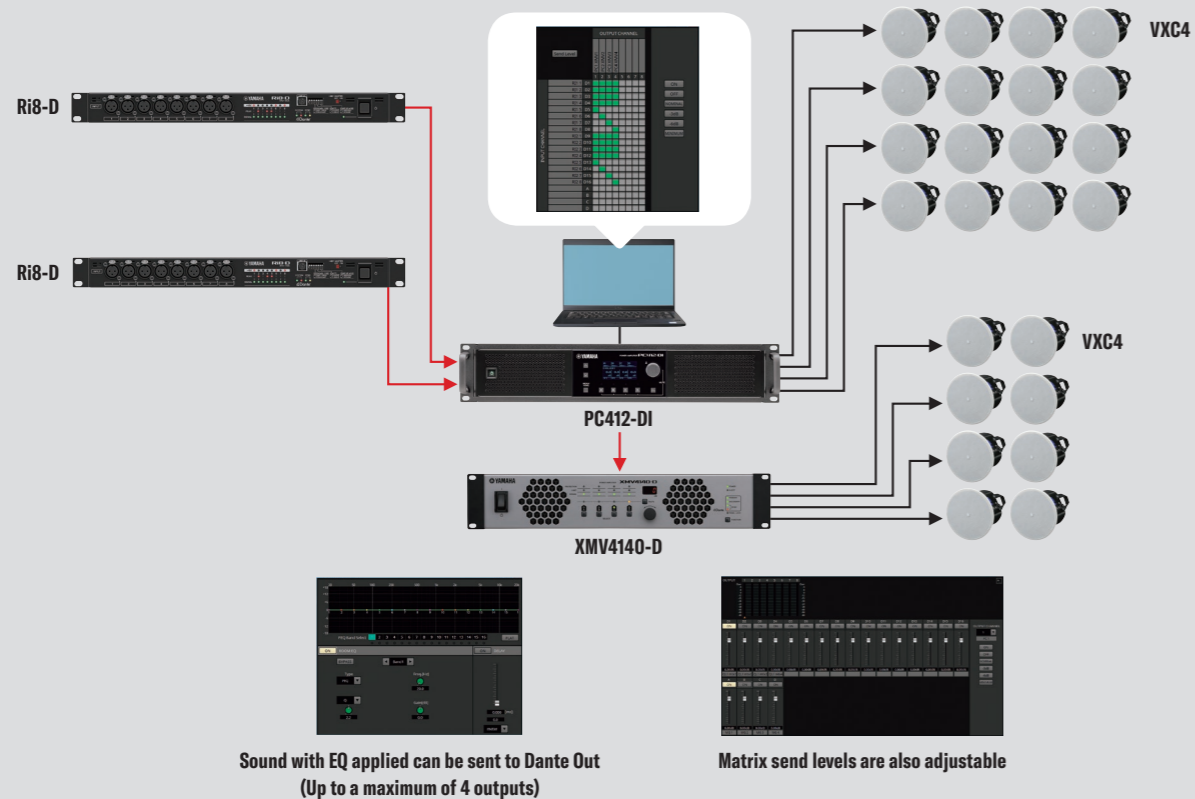
Sample 1 Using matrix applications for flexible routing

Sound from an analog mixer is input into a PC412-D, in addition to sound output from a digital mixer. Input matrix functionality can be used to output the combined sound to speakers or other Dante devices.



Sample 2 Constructing a mixer-less system

Sound is fed from Dante inputs into two devices to a PC406-D. Input matrix functionality is used to direct the combined sound to speakers. Additionally, Dante Out can be used to send sound with adjusted EQ to other amplifiers.



*All images and functions are from products that are in development.

Power you can count on

The PC Series feature highly efficient Class-D amplifiers that deliver supreme sound quality with outstanding precision and stability even under high-loads. There are 600 W and 1200 W versions of both the "D" touring models and the "DI" installation models, each with connectivity best suited to their respective applications. The DI models handle high-impedance connections with ease, allowing the construction of systems consisting of numerous speakers. All models come with detachable handles and replaceable filters.



Packed with processing power

Featuring powerful onboard speaker processors as standard, PC Series amplifiers offer processing such as 16-band PEQ, delay, peak limiting, and RMS limiting, as well as an FIR filter* that achieves linear phase, allowing users to tune speakers perfectly with precision and ease. Dante outputs can be used to transmit further parameter adjustments of EQ to other amps, allowing EQ for multiple amp channels to be adjusted centrally. The speaker preset library is well-stocked with optimized presets for the Yamaha CZR Series and others, making it effortless to achieve the perfect speaker tuning for your system.

*Available in future firmware release

Processing parameters can be adjusted from both the front panel or from software.



ProVisionaire Series... from start to finish

ProVisionaire Amp Editor is a dedicated software application for the PC Series that can be used to fine-tune individual settings, and also to group amps in order to set EQ and delay parameters and adjust volumes from a single control panel. PC Series are also compatible with ProVisionaire Touch and ProVisionaire Control, and we can provide customized remote controls if required.



Block diagram

