

5.3 Two-way stereo operation with a crossover, full-range loudspeakers and subwoofers

This example applies to the VP1800S in combination with the full-range loudspeakers (VP1220, VP1520, and VP2520).

Using an external active crossover, the main output signal of a mixing console is split into two signals. One signal covers the lower frequency range and the other signal covers the mid and high frequency range. The recommended crossover frequency is 150 Hz. Then, the mid-high frequency signal is connected to a stereo power amplifier. A VP series loudspeaker is connected to each of the amplifier outputs. The low-frequency signal is connected to an additional power amplifier, which powers two VP1800S subwoofers.

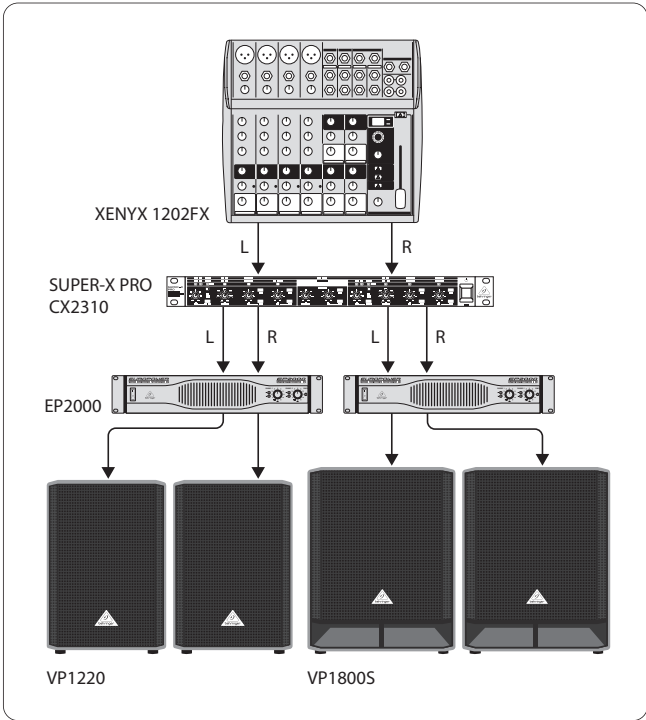


Fig. 5.3: Two-way stereo operation with subwoofers

6. Specifications

VP2520

System Data	
Continuous Power (IEC 60268-5)	500 W
Peak Power	2000 W
Type	2 ½-way full-range loudspeaker
Frequency Response	40 Hz – 20 kHz
Impedance	4 Ohms
Sound Pressure Level (SPL)	96 dB (Full space, 1 W @ 1 m)
Dispersion	70° x 50°
Crossover Frequency	2.2 kHz
Rigging Fittings	ergonomically shaped handle

Components	
HF Driver	1.75" titanium-diaphragm compression driver
LF Driver	2 x 15" / 385 mm

Dimensions/Weight	
Width	18.7" / 475 mm
Height	41.9" / 1065 mm
Depth	20.1" / 510 mm
Weight	87.7 lbs / 39.8 kg

VP1800S

System Data

Continuous Power (IEC 60268-5)	400 W
Peak Power	1600 W
Type	Subwoofer
Frequency Response	35 Hz – 250 Hz
Impedance	8 Ohms
Sound Pressure Level (SPL)	100 dB (Half space, 1 W @ 1 m)
Dispersion	n/a
Crossover Frequency	LP 150 Hz
Rigging Fitting	ergonomically shaped handle; 35 mm pole socket

Components

HF Driver	—
LF Driver	18" / 460 mm

Dimensions/Weight

Width	20.9" / 530 mm
Height	25.6" / 650 mm
Depth	24.2" / 615 mm
Weight	91.3 lbs / 41.4 kg

VP1520

System Data

Continuous Power (IEC 60268-5)	250 W
Peak Power	1000 W
Type	2-way full-range loudspeaker
Frequency Response	45 Hz - 20 kHz
Impedance	8 Ohms
Sound Pressure Level (SPL)	94 dB (Full space, 1 W @ 1 m)
Dispersion	70° x 50°
Crossover Frequency	2.5 kHz
Rigging Fittings	ergonomically shaped handle; integral tripod/stand adapter

Components

HF Driver	1.75" titanium-diaphragm compression driver
LF Driver	15" / 385 mm

Dimensions/Weight

Width	17.9" / 455 mm
Height	27.0" / 685 mm
Depth	18.3" / 465 mm
Weight	49.8 lbs / 22.6 kg

VP1220F

System Data	
Continuous Power (IEC 60268-5)	200 W
Peak Power	800 W
Type	2-way full-range loudspeaker
Frequency Response	55 Hz - 20 kHz
Impedance	8 Ohms
Sound Pressure Level (SPL)	93 dB (Full space, 1 W @ 1 m)
Dispersion	70° x 50°
Crossover Frequency	2.5 kHz
Rigging Fittings	ergonomically shaped handle

Components	
HF Driver	1.75" titanium-diaphragm compression driver
LF Driver	12" / 307 mm

Dimensions/Weight	
Width	17.3" / 440 mm
Height	16.9" / 430 mm
Depth	22.6" / 575 mm
Weight	35.7 lbs / 16.2 kg

VP1220

System Data	
Continuous Power (IEC 60268-5)	200 W
Peak Power	800 W
Type	2-way full-range loudspeaker
Frequency Response	50 Hz - 20 kHz
Impedance	8 Ohms
Sound Pressure Level (SPL)	93 dB (Full space, 1 W @ 1 m)
Dispersion	70° x 50°
Crossover Frequency	2.5 kHz
Rigging Fittings	ergonomically shaped handle; integral tripod/stand adapter

Components	
HF Driver	1.75" titanium-diaphragm compression driver
LF Driver	12" / 307 mm

Dimensions/Weight	
Width	14.6" / 370 mm
Height	23.6" / 600 mm
Depth	16.9" / 430 mm
Weight	39.5 lbs / 17.9 kg

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