

Sub6

Professional analog monitoring subwoofer



The Sub6 is an active subwoofer (1 x 350W RMS built-in amplifier - BASH technology) for professional monitoring systems. The driver is an 11" Focal with a "W" sandwich composite cone loaded by a large section laminar port. It can be used both as LFE channel in a surround system or as a bass or sub-bass complement in a stereo system (2.1 or 2.2). The Sub6 was designed to permit optimum acoustic coupling with professional monitoring speakers. Therefore, it includes all the features to achieve this task, such as stereo high pass filter (75 or 100Hz) for the left and right satellites, low pass filter (adjustable) with mono summation, phase inverter, phase fine tuning, mute switch, 2.1 bypass with a footswitch remote control (not included), as well as a wiring panel rich in possibilities.

• The "W" cone

Focal has been developing the technologies of composite sandwich cones for more than 15 years. The "W" process (Glass/Foam/Glass), used on the SM11, SM8 and SM6 lines, provides a true optimization of the frequency response by fine tuning of mass, rigidity and damping parameters. The balance between these 3 fundamental and often contradictory parameters is at the base of the outstanding sound neutrality of our speakers.

The 10^{5/8"} (27cm) Focal speaker is equipped with a high excursion system to enable accurate and extended reproduction in the bass/infra bass register. The 2^{5/8"} (66mm) diameter and 1^{1/4"} (32mm) height voice coil ensures a perfect mechanical coupling and a total control of the driver even at high sound level. The magnetic construction made of double ferrite and large field and back plates offers high symmetrical magnetic field to keep dynamics even at very low frequency.

• A custom designed amplification stage

Designing an amp to be integrated inside a speaker requires a very different set of rules than for a traditional amp. Speaker size and cooling concerns are often in contradiction with the high quality and high power requirements of a sonically transparent speaker. Our engineers used the BASH® technology to develop the bass/medium amplification circuit for the SM6 professional line of speakers. This was the only way to exploit the best of class AB style circuits (for exceptional quality) with a class D type yield, which is crucial when housing a 150W RMS circuit in such a small space (300W RMS for the Twin6 Be and 350W RMS for the Sub6).



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BP 374 - 108, rue de l'Avenir - 42353 La Taubaudière cedex - France - Tel. (+33) 04 77 43 57 00 - Fax (+33) 04 77 43 57 04



Technical specifications

Performance		
Frequency response	30Hz - 250Hz	
Maximum SPL	116dB SPL (peak @ 1m)	
Electronic section		
Inputs	Type / Impedance	Right, left, LFE
	Connector	Electronically balanced / 10 kOhms
	Sensitivity	XLR 3 points socket Adjustable
Outputs (towards satellites)	Type/Impedance	Right, left
	Connector	Electronically balanced / 50 Ohms XLR 3 points plug
Amplification	350W rms, BASH® technology	
Signal internal treatment and functions	Subwoofer section	Mono right/left summation LFE + mono low-pass 24dB / octave Phase adjustment Polarity selection switch Switch high-pass filter, cut-off frequency selection
	Satellite section	24dB / octave
Control	Adjustable subwoofer level	
	Low-pass cut-off frequency setting	
	Phase adjustment	
	Polarity adjustment	
	Subwoofer switch (mute)	
	2.1 "Bypass" (external remote control)	
	High-pass frequency selection Releasable high-pass	
Visualization (LED)	Power On	
	Subwoofer switch (mute)	
	Released high-pass	
Power supply	Local supply	230V (1.6A fuse) or 115V (3.15A fuse)
	Connection	Removable CEI supply wire
Transducers		
Subwoofer	11W7670, 10 ^{5/8"} (27cm) Focal "W" composite sandwich cone driver	
Cabinetwork		
Construction	7 ^{1/2"} (19mm) MDF panels	
Finish	Dark red natural veneering side panels, black body	
Dimensions (HxLxD)	14 ^{15/16"} x 13 ^{9/16"} x 17 ^{5/16"} (380mm x 344mm x 440mm)	
Weight	50.7lb (23kg)	

The technical specifications of these products may be modified.