

SM11-S

Professional
digital monitoring
subwoofer



Exclusive acoustical technologies

• The "W" cone

Focal has been developing the technologies of composite sandwich cones for more than 15 years. The "W" process (Glass/Foam/Glass), first initiated in 1995 with the reference loudspeaker Grande Utopia, now provides a true optimization of the frequency response by fine tuning of mass, rigidity and damping parameters.

• Multi-ferrite magnet

The multi-ferrite technology was initiated by Focal years ago. It allows to adjust the height of the magnet so to accommodate the very high excursions demanded for very low frequency operation, while providing a high level of magnetic energy. In addition its vented structure improves the cooling of the voice coil.

• Low noise port

When developing this subwoofer special attention has been paid to the design of the port, experience having proven that it is a key point to the low frequency performance in a vented system. The curved shape of the port has been the result of both theoretical research and experiments, reducing dramatically air noises and aerodynamic compression at high levels.

Advanced digital technologies

• 24 Bits / 96kHz converters

In addition to a direct digital input, the SM11-S uses the latest high quality chipsets performing 24 Bits 96kHz A/D and D/A conversion.

• Multiple equalization facilities

The combination of very powerful DSP (Digital Signal Processor) devices and carefully designed algorithms allows multiple and very precise equalization.

• Control

The SM11-S can be controlled thanks to the "Focal Manager" software supplied. This software is compatible PC/Mac.

High performance amplification

The SM11-S uses a very innovative technology ("BASH"TM technology, patented by a third party) which combines very high efficiency and low distortion. It has been selected as offering the best solution for delivering 1000W of punchy and clear bass.



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Technical specifications

System		
Frequency response	20Hz - 250Hz	
Maximum SPL	125dB SPL (peak @ 1m)	
Input section		
Analog input	Type / Impedance	Electronically balanced/ 10kOhms
	Connector	XLR
	Sensitivity	Adjustable, + 4dBu or -10dBV
Digital input	A/D Converter	24 bits resolution, 96kHz sampling rate
	Format	AES (110 Ohms with transformer)
	Connector	XLR
Internal section	Sampling rates	44.1 ; 48 ; 88.2 or 96kHz (automatic detection)
	Processing	Internal DSP
	D/A Converter	24 bits resolution, 96kHz sampling rate
Dynamic range	> 110dB	
Amplification		
	1000W rms, BASH™ technology	
Interface		
System control	Switchable between	Serial RS-232 (PC/Mac) MIDI
Power supply	Mains voltage	230V (6.3A fuse rating) 115V (10A fuse rating)
	Connection	IEC inlet and detachable power cord
User controls and indicators		
Hardware controls	Analog input sensitivity switch Left / Right AES channel selection switch System control source (Interface) switch	
Software controls	Output level, EQ, Polarity, Input mode (LFE / 2.1), Presets, Delays	
Indicators	Power on/off LED	
Transducers		
Subwoofer	"W" cone, very long throw Focal 15W9753 406mm (16") drive unit	
Cabinet		
Construction	1 ^{3/16} " (30mm) MDF panels with internal braces	
Finish	Dark red veneer on sides, corners in stained solid wood "Slate grey" lacquer on other panels	
Dimensions (H x L x D)	19.7x20.9x 23.2" (500mm x 530mm x 590mm)	
Weight	121lb (55kg)	

The technical specifications of these products may be modified.