

# SM9

## Professional analog monitoring speaker



**This monitoring speaker establishes itself as a reference thanks to the precision of the stereo image, its capacity to reproduce each of the micro details of the audio signal, as well as unconditional respect of the original dynamics.**

### • Two monitors in one!

One of the major SM9 innovations lies in the fact of offering 2 monitoring speakers in only one and unique cabinet. The SM9 is thus composed of 2 monitors:

- a 3-way monitor (Beryllium tweeter + 6.5" "W" woofer + 8" "W" subwoofer + 11" passive radiator). This monitor offers a frequency response from 30Hz to 40kHz for total control of the audio signal permitting extremely precise work.

- a 2-way monitor (Beryllium tweeter + 6.5" "W" woofer). This monitor offers a frequency response from 90Hz to 40kHz, permitting to check the mix transfer quality on systems with limited frequency response in the bass frequencies for example TV sets, computers, cars, iPod docks or any multimedia system. This monitor also permits to check the midrange register, very hard to equalize and balance in terms of sound level compared to the other information contained in the audio signal. The activation of this monitor is made by setting off the FOCUS mode on the side panel.

### Exclusive acoustic technologies

#### • Pure Beryllium inverted dome tweeter

The inverted dome tweeter is a hallmark of Focal. Introduced more than twenty years ago, this tweeter produces a high output, but without requiring high energy input and without increasing directivity.

The introduction of the pure Beryllium dome, capable of covering 5 full octaves from 1,000 to 40,000Hz constitutes a new decisive advance regarding new audio formats. This tweeter capacity to reproduce high frequencies with unmatched speed and transparency. This tweeter allows an unprecedented price/performance ratio. To finish with, the new TB872 tweeter delivers outstanding dynamics thanks to its amazing magnet field (2.1 teslas).

#### • The "W" cone

Focal has been developing the technologies of composite sandwich cones for more than 15 years. The «W» process (Glass/Foam/Glass) 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 basis of the outstanding sound neutrality of our speakers.

#### • Passive radiator

In order to reproduce the lowest frequency range within a very small volume without any air flow noises, the SM9 is equipped with a no compromise, custom designed "W" passive radiator.

#### • High performance tailor-made amplification

The SM9 uses low distortion class AB power stages for low (400W), mid (100W) and high frequency (100W) channels, entirely respecting the dynamics of the low level audio signal and ensuring total transparency.



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### Technical specifications

<b>PERFORMANCE</b>		
Frequency response	3-way mode	30Hz - 40kHz (+/- 3dB)
		40Hz - 20kHz (+/- 1dB)
Maximum SPL	2-way mode (Focus)	90Hz - 20kHz (+/- 3dB)
	3-way mode	116dB SPL (peak @ 1m)
	2-way mode (Focus)	106dB SPL (peak @ 1m)
<b>ELECTRONIC SECTION</b>		
Input	Type / Impedance	Electronically balanced / 10 kOhms
	Connector	XLR
	Sensitivity	Adjustable, +4dBu or -10dBV
Bass		400W, class AB
Midrange		100W, class AB
Treble		100W, class AB
Power supply	Local supply	230V (3.15A fuse) 115V (6.3A)
	Connection	IEC inlet and detachable power cord
User controls and indicators	Rear panel	Input sensitivity selector (+4dBu / -10dBV) High-pass crossover (full range, 45, 60, 90Hz @ -6dB) Low frequency shelving (+/- 3dB from 30 to 250Hz per step of 0.5dB) High frequency shelving (+/- 3dB from 4.5 to 40kHz per step of 0.5dB) Low frequency EQ (+/- 3dB per step of 0.5dB @ 50Hz, Q factor = 2) Low-mid frequency EQ (+/- 3dB per step of 0.5dB @ 160Hz, Q factor = 1) Mid frequency EQ (+/- 3dB per step of 0.5dB @ 1kHz, Q factor = 0.6)
	Side panel	Stand By / On switch Direct switch Focus switch
Light indicator		Power On, clipping and default on front panel LED
<b>TRANSDUCERS</b>		
Passive radiator		11WPP52, 11" (27cm) Focal "W" composite sandwich cone piston, extra wide inverted surround radiator
Subwoofer		8W7571, 8" (20cm) Focal "W" composite sandwich cone driver
Midrange		6W0452, 6.5" (16.5cm) Focal "W" composite sandwich cone driver
Tweeter		TB872, 1" pure Beryllium inverted dome tweeter
<b>CABINET</b>		
Construction		0.88" (22mm) and 1.2" (30mm) panels with internal braces
Finish		Black natural veneering top and bottom panels, black body
Dimensions (HxLxD)		12.8" x 19.6" x 15.6" (320mm x 490mm x 390mm)
Weight		77lb (35kg)

The technical specifications of these products may be modified.

