# ShowMatch™ SM10 DeltaQ™ array loudspeaker





#### **Product Overview**

Bose Professional ShowMatch™ DeltaQ™ SM10 full-range array modules provide 10° nominal vertical coverage with included field-changeable waveguides offering choice of 70° or 100° horizontal coverage. Replace single waveguide panel to form horizontal asymmetrical patterns. The 2-way module requires external power amplifiers (2- channels) and DSP to provide full-range response from 59 - 18,000 Hz with peak array output up to 145 dB.

## **Key Features**

- DeltaQ™ technology defines the next-generation in loudspeaker array design with selectable coverage patterns that more precisely direct sound to audience areas for improved sound quality and vocal clarity with fewer boxes versus line arrays.
- Replaceable waveguides ships with 100° waveguides installed with 70° panels included to allow coverage change. Largest-in-class size provides better coverage and vocal clarity. Change single panel for asymmetrical patterns.
- Compact, portable enclosure Versatile design allows both fixed install and portable applications, from small clubs and houses of worship to the largest performing arts centers and AV productions.
- Tour-sound output level 4x Bose EMB2S compression drivers, improved with more HF output, and 2x 8-inch neodymium high-power woofers allow peak array output up to 145 dB SPL.
- 3-point "quick pin" rigging Fast, easy setup with up to 24 full-range modules and 10:1 design factor.
- Removable side guards provide rigging guard and hand holds for portable applications. Easily removed for permanent installs to reduce width and improve sight lines.

### **Technical Specifications**

SINGLE MODULE PERFORMANCE					
Frequency Response (+ / -3 dB) (1)		69 - 16,000 Hz			
Frequency Range (-10 dB)		59 - 18,000 Hz			
Recommended High-Pass Protection Filter		70 Hz with minimum 12-dB / octave filter			
Nominal Coverage Pattern	10	100° H x 10° V (includes waveguides for 70° H x 10° V)			
Recommended Crossover	750 Hz (acoustic; requires active, 2-way crossover in DSP)				
	Bose extended	Bose extended-lifecycle test (4)		AES transducer test (5)	
	Low Frequency	High Frequency	Low Frequency	High Frequency	
Power Handling, long-term continuous	450 W	100 W	600 W	125 W	
Power Handling, peak	1800 W	400 W	2400 W	500 W	
Sensitivity (SPL/1W @ 1 m) (2)	94 dB	106 dB	94 dB	106 dB	
Calculated Maximum SPL @ 1 m <sup>(3)</sup>	121 dB	126 dB	122 dB	127 dB	
Calculated Maximum SPL @ 1 m, peak	127 dB	132 dB	128 dB	133 dB	

TRANSDUCERS	
Low Frequency	2 x Bose SM8 neodymium 8-inch woofers (3-inch voice coil)
High Frequency	4 x Bose EMB2S extended-HF neodymium compression driver (2-inch voice coil)
Nominal Impedance	8 ohms + 6 ohms (LF/HF)

PHYSICAL		
Enclosure Material	Baltic birch plywood	
Finish	Two-part spray polyurethane coating, black	
Grill	16-gauge (1.5 mm) perforated steel, powder-coated finish, black	
Environmental	IPx4	
Connectors	2 x Neutrik® NL4 wired parallel	
Suspension / Mounting	integrated 3-point quick-pin rigging	
Dimensions (H x W x D)	11.1" x31.2" x18.3" (282 x 793 x 465 mm) / W: 29.8" (757 mm) side guards removed	
Net Weight	65.5 lbs (29.7 kg)	
Shipping Weight	75 lbs (34.0 kg)	
Accessories	rigging frames, pullback bar, waveguides, ground stack bracket, short quick pins	

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- Footnotes
  (1) Frequency response and range measured on-axis in an anechoic environment, with recommended bandpass and EQ.
  (2) Sensitivity measured with indicated boundary conditions, recommended bandpass and EQ, referenced to IW/m.
  (3) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
  (4) Bose extended-lifecycle test using pink noise filtered to IEC268-5, 6-dB crest factor, 500-hour, full-power duration.
  (5) AES standard component power handling test: pink noise 60-18000 Hz bandpass, 6-dB crest factor, 2-hour duration.