



CONTROL 88M

8" Two-Way Co-axial Mushroom Landscape Speaker

Professional Series

Key Features:

- ▶ Components:
 - 8" highly weather-resistant driver
 - 1" soft-dome highly weather-resistant tweeter
- ▶ 120W Pink Noise Power Handling (240W program) in direct 8Ω setting, plus built-in 60V 70V/100V multi-tap transformer
- ▶ Tough polyethylene highly weather resistant enclosure
- ▶ Fully isolated center chamber for wiring protection
- ▶ High fidelity sound character with broad frequency range of 47Hz - 16kHz

Applications:

The Control 88M Mushroom-Style Landscape Speaker is a two-way highly weather resistant speaker offering excellent full-range sound quality and 360 degree coverage of the listening space. Designed to be mounted on or in the ground, the Control 88M can be used in a wide variety of applications including hotels, casinos, pool areas, shopping malls, theme parks, sports venues, resorts, restaurants, hospitality and leisure venues, entranceways, and anywhere a high quality music and/or paging speaker landscape speaker is required.

Its compact size allows the speaker to blend into landscaping and shrubbery, while its tough hunter green polyethylene enclosure resists abuse from lawn care equipment and the elements. The enclosure color extends throughout the material so the speaker will maintain color even when scraped or scratched.

The two part enclosure is designed to open with a twist for wiring and then close securely. The bottom base section of the enclosure can be pre-installed and then wired to the top speaker section of the enclosure. When assembled, the bottom base section becomes a fully isolated chamber, keeping the speaker and transformer (in the speaker section) highly isolated from the possibility of intruding moisture. Multiple locations on the bottom and sides are provided for the mounting of the exterior gland nut (installed by drilling a 22 mm (0.875 in, 7/8 in) diameter hole in the chosen location), and a second gland nut is positioned between the bottom base and the top speaker sections, to keep the speaker system highly weather tight. Included gland nuts maintain a water-tight seal

only when used with round-jacketed cable with outside diameter between 4.0 and 9.0 mm (0.16 and 0.35 inches).

All external hardware is stainless steel, and the powder-coated stainless steel grille resists rusting. The Control 88M can be secured to the ground via third-party ground stakes using the three attachment points that extend out from the bottom section of the speaker.

The 200 mm (8.0 in) diameter low-frequency driver features a Kapton former with 38 mm (1.5 in) voice coil for high power handling and superior long term reliability. The polypropylene cone and polyurethane surround provide high strength and superior moisture resistance. The 25 mm (1.0 in) high frequency driver utilizes a polyetherimide dome, providing high rigidity, strength, and high temperature resistance. The high slope crossover provides natural sonic character and SonicGuard™ protected HF driver ensures long-term reliability from occasional overdriving.

In addition, the speaker contains a high-quality 60 Watt multi-tap transformer for use on 70V or 100V distributed loudspeaker lines, and is switchable for 8 ohm voice-coil direct operation. The speaker handles 120 Watts Continuous Pink Noise (240W Program, 480W Peak) in the 8 ohm mode.

The Control 88M is UL certified, per UL1480.



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Preliminary Specifications:

Frequency Response (-10 dB):	47 Hz - 16 kHz
Frequency Response (± 3 dB):	60Hz - 15 kHz
Power Rating ¹ :	240 W Continuous Program (2 hrs) 120W (480W peak), Continuous Pink Noise (2 hrs) 100W (400W peak) Continuous Pink Noise (100 hrs)
Maximum Input Voltage:	28.0 V
Sensitivity ² :	87 dB, 1W @ 1m (ave. 80Hz - 16kHz)
Nominal Coverage Angle:	360° horizontal, 160° vertical (primary listening 10° to 50° up from ground).
Directivity (Q):	2.1
Directivity Index (DI):	3.2 dB
Rated Maximum SPL ³ :	108 dB @ 1m
Nominal Impedance:	8 Ω (at 8 Ω setting)
Minimum Impedance:	6.6 Ω at 9.5kHz
Transformer Taps:	70V: 60W, 30W, 15W & 7.5W 100V: 60W, 30W, 15W
Insertion Loss:	<0.5 dB at any tap setting
Thru Setting:	8 Ω nominal
Crossover Type:	2 nd Order LPF on LF and 2 nd Order HPF on HF
Recommended Protective High-Pass:	45 Hz for 8 Ω operation, 24 dB/oct 80 Hz for 60W tap, 24 dB/oct 50 Hz for 30W, 7.5W, and 7.5W taps, 24 dB/oct
Transducer:	
Low Frequency Driver:	200 mm (8.00 in) diameter LF driver, Kapton [®] former, 38mm (1.5 in) voice coil, polypropylene cone and polyurethane surround.
High Frequency:	25mm (1.0 in) diameter HF driver Polyetherimide (PEI) dome.
Physical:	
Enclosure Material:	LDPE Polyethylene plastic, 6 mm wall thickness, UL94V-0 rated.
Grille:	Powder coated stainless steel.
Environmental:	IP-55 rating per IEC529 (dust protected and protected against jets of water). Exceeds MilSpec 810 for humidity, salt spray, temperature & UV. Passes Mil-Std-202F for salt spray. Enclosure UL94V0 rated.
Agency Ratings:	UL1480, Transformer UL Recognized per UL1876, ROHS compliant.
Terminals:	Bare wire with dielectric-gel-filled wire nuts (internal to top speaker section)
Wiring:	Water ingress protected by two stages of gland nuts, one mounted on outside of enclosure (installed by installer via drilling 22 mm (0.875 in, 7/8 in) hole in any of multiple provided locations) and one between the bottom base and top speaker sections. Included gland nuts require round-jacketed wire with outside diameter between 4.0 mm and 9.0 mm (0.16" in and 0.35" in). For Installation instructions, see Installation Guide (#IS-C80MLS).
Colors:	Hunter Green, RAL6018
Dimensions (H x W x D):	524 x 355 x 355 mm (20.7 x 14 x 14 in.)
Net Weight:	7.8 kg (17 lb)
Shipping Weight:	10.5 kg (23 lb)
Included Accessories:	(2) wire nuts, (2) gland nuts, (1) right-angle screwdriver
Installer-Supplied Required Tools:	22mm (0.875 in, 7/8 in) twist-type drill bit (or other type suitable for plastic) for installing gland nut into enclosure.

¹ Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB crest factor. Continuous program power is defined as 3 dB above the Continuous Pink Noise Rating. In 8 ohm mode.

² Half-space, 2m loading (in-ground recessed), 360° horizontal, vertical averaged 10 to 50 degrees from ground.

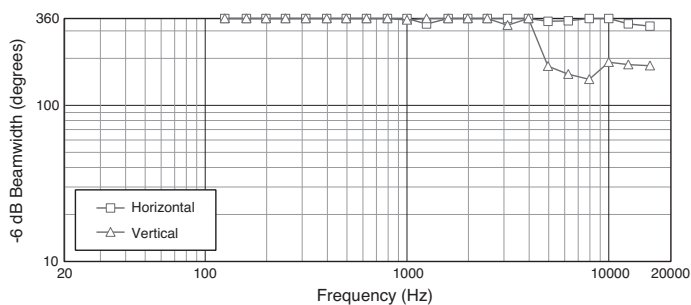
³ 8 ohm mode, calculated from sensitivity and power handling, exclusive of power compression.

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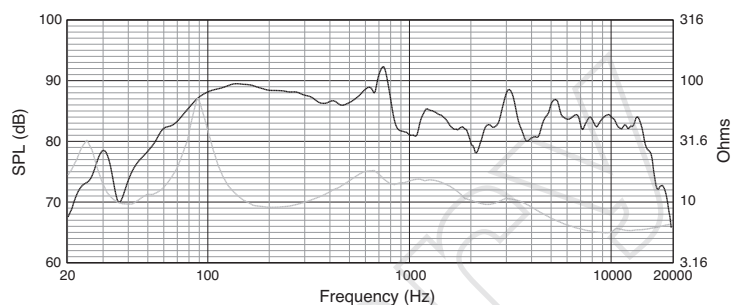
Beamwidth:

-6 dB coverage by frequency

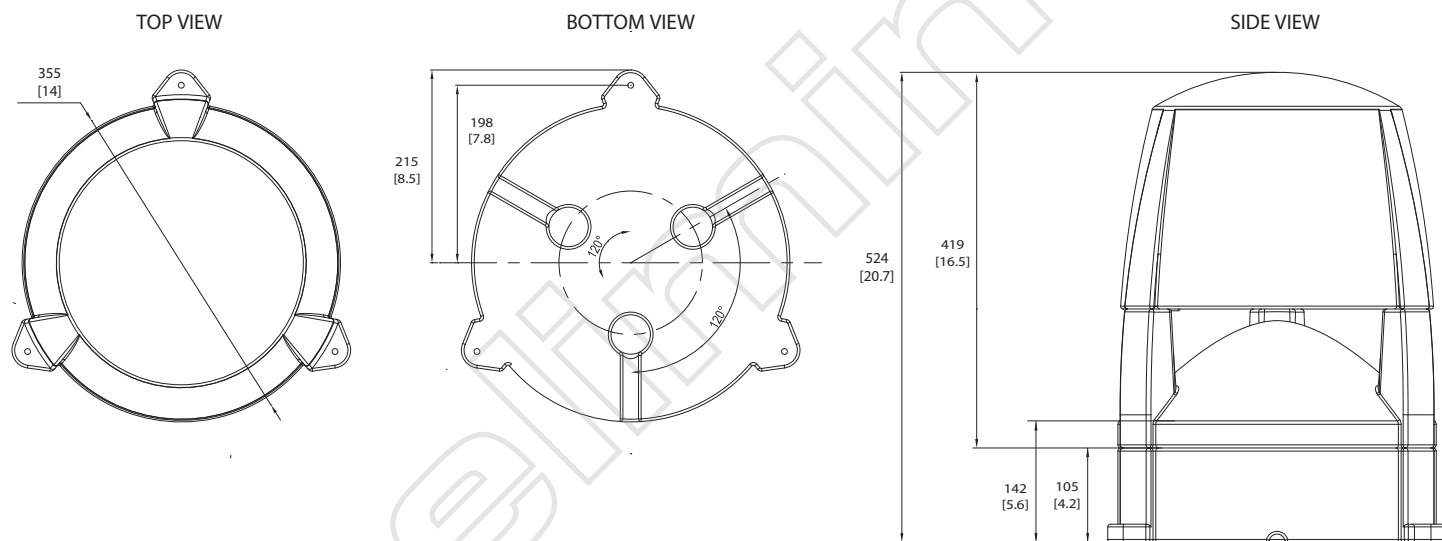


Frequency Response:

In half-space (2π , in ground), plus impedance curve
[Frequency response, Impedance graph]



Dimensions:



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