



CONTROL CONTRACTOR

SCALABLE, INTEGRATED, INSTALLED AUDIO SOLUTIONS



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About JBL

POWER AND VERSATILITY IS ONLY THE BEGINNING.

When it comes to the listening experience, JBL never ceases to push the boundaries. From its inception over 75 years ago, the brand has grown to become synonymous with epic sound. And while the enjoyment is instinctive, the science behind each and every innovation is precise and methodical. Passionate and gifted engineers and designers around the world devote themselves to developing JBL products and solutions that take listening to the next level - and they've been doing it since day one.

Today, JBL professional solutions encompass recording studios, movie theatres, tour sound, installed sound, arenas and stadiums, and much more. At the heart of each of these solutions is a meticulous attention to detail, a willingness to develop everything from the ground up, and an absolute dedication to giving artists outstanding sound, whether they're performing at a major music festival or busking on a street corner. And the technologies that JBL develops for its professional audience benefit all of JBL's listeners as they are distilled into smaller form factors, allowing people everywhere to enjoy professional quality sound at a convenient size and an affordable price.

Over the decades, JBL has contributed a remarkable number of industry firsts and technical innovations that further cemented its reputation as an audio pioneer, garnering Grammy® awards, Academy awards, and widespread

recognition from the world's most celebrated musicians and consumers along the way.

Expertly blending a bold vision of the future with the passion and talent of its engineers and designers, JBL develops its own solutions, invents its own technologies, and creates its own tools with a pioneering spirit that has defined the brand for the past 75 years. Today, JBL is present in more than 130 countries, encompasses an increasingly diverse range of next-level products and solutions, and has over 300 patents to its name, such as VGC™ transducer technology, Slip Stream™ low frequency port, Progressive Transition™ (PT) waveguides, and Plus One™ woofer cone technology.

Thanks to a truly exceptional dedication to constantly delivering exactly what customers desire, JBL sound has become part of the fabric of people's lives. Whether it's cinema sound that makes the movie-going experience more immersive, soundbars that transform the living room into a concert hall, portables that let listeners enjoy their favourite tunes wherever they go, gaming headsets that make players swear they've just stepped into the game, or in-car audio technology that turns the daily commute into a moment of pure listening pleasure, JBL fills listeners' lives with sound as it was meant to be heard.



A Journey of Engineering Excellence

Audio technology is at the core of everything JBL does. For over 75 years they have employed the best methodology and tools, developing everything from the ground up, guaranteeing their efforts exceed the needs and expectations of audio professionals throughout the world. Never straying from this exacting formula, this journey has produced a prolific list of audio achievements, ground-breaking technologies, revolutionary advances in the art and science of professional audio, many patents, and many awards. It's a journey that is legendary worldwide and has positioned JBL as the world leader in professional audio. Not just as a brand, but as a company known for consistently blending creativity and science as a manifestation of their passion for sound and commitment to those who create it.

Transducers.

The technology of transducers is truly the starting place for the entire JBL engineering legacy. Building on founder James B. Lansing's historic foundation, JBL engineers continue to break ground on new and better ways to design transducers, reaching beyond what is commonly understood as possible and consistently setting new performance benchmarks for the audio industry. Starting from scratch and often developing patents in the process, has resulted in technologies such as Differential Drive woofers,

CMCD Cone Midrange drivers, and the D2 Dual Voice Coil Compression Driver, that cover the entire practical bandwidth of professional audio devices. Simultaneously addressing performance-robbing challenges such as power compression, heat dissipation, distortion, component weight, and physical footprint, JBL has created a range of transducers that are unparalleled in their ability to deliver extraordinary performance throughout a wide range of applications.

Differential Drive®

JBL's exclusive dual voice coil, dual magnetic gap Differential Drive technology reduces weight while enhancing all critical performance parameters including better heat dissipation, lower power compression and higher dynamic range versus conventional single-coil designs. This allows very high output with minimal power compression, resulting in deep distortion-free bass even at very high SPL. Differential Drive® technology is now at the core of a full range of woofer models incorporated in many JBL loudspeaker systems from touring sound and fixed installation, to studio and cinema sound.

D2 Dual Diaphragm Dual Voice Coil Compression Driver

The revolutionary D2 Dual Driver dramatically improves the sound and performance of high frequencies, providing an extreme output advantage over conventional systems with significantly higher array power, reduced

distortion, double the number of voice coils and more than double the power handling. This results in a dramatic increase in pure high frequency sound pressure levels in the same physical footprint with a 30% reduction in weight.

Directivity.

Building better loudspeakers is only the first of many performance challenges that face all audio design engineers. Controlling the sound as it leaves the speaker enclosure is as critical to the performance of the system as the quality of the source component. The goal is always the same: create a consistent sound pattern throughout the desired vertical and horizontal plane without introducing artifacts, while ensuring the full bandwidth and SPL capability of the transducers, and providing a seamless transition from high frequency to low frequency components. JBL engineers relentlessly test new shapes and develop new materials to achieve the desired performance, often inventing new testing methodologies to ensure that nothing is left out of a thorough and rigorous examination of the design. The resulting technology has produced such ground-breaking designs as the Progressive Transition Waveguide, Image Control Waveguide, Slip Stream Port, Radiation Boundary Integrator, and Constant Curvature Waveguide. With multiple patents, and many successful installations in use worldwide, this critical component of JBL technology continues to evolve through our continuous pursuit of better, more accurate sound.

Radiation Boundary Integrator™ (RBI)

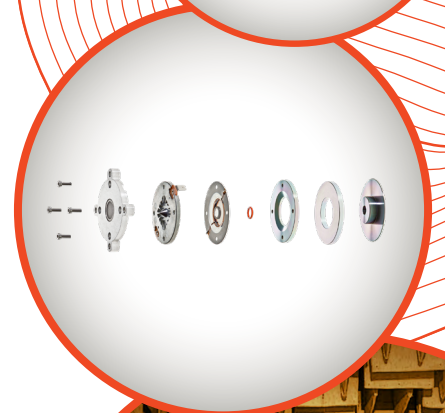
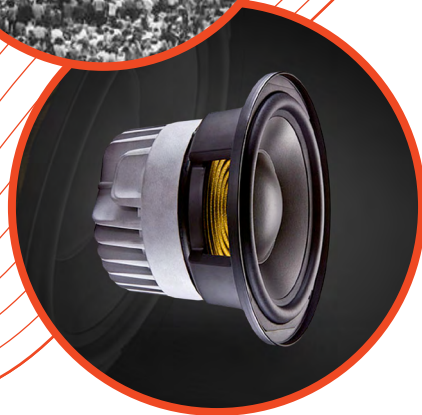
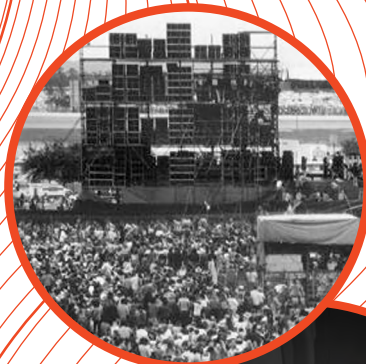
JBL's patented Radiation Boundary Integrator combines the high frequency and mid-range so the transition across each band is uninterrupted, undistorted and seamless. A patented,

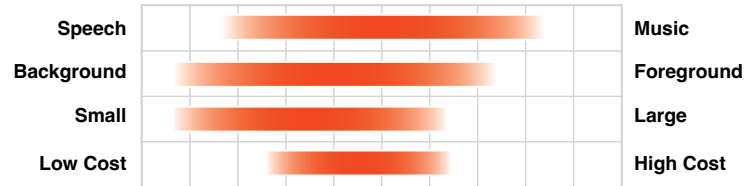
tuned resonant chamber is integrated into the waveguide itself, effectively eliminating throat-related cancellations due to back pressure from the mid-range section. Our refined RBI waveguide implementation provides improved horizontal coverage - broader and more stable.

Testing.

All audio products have a useful life, and JBL engineers are committed to making that as long as possible, not only in terms of reliability, but also in terms of how good the sound is the very first time a system is turned on. Every JBL Professional product undergoes stringent testing above and beyond what the product would face when deployed in the real world.

JBL has multiple application specific anechoic testing chambers, and has developed the only known 'Speaker Shuffler' that allows rapid and precise re-positioning of speaker systems in the exact same space for truly accurate A/B testing. This rigorous, uncompromising adherence to testing results in continuous breakthroughs in performance and ensures that JBL users worldwide can always work with confidence.





Control 10 Series

Blind-Mount Small Format Ceiling Loudspeakers

Control 10 Series in-ceiling loudspeakers meet the increased market demand for superior sound quality, installation-friendly features, and value, delivering a level of sonic performance unmatched by comparably priced products. They are ideal for applications where excellent sound quality is needed for medium-volume music playback and paging. Control 10 Series models feature wide bandwidth, wide coverage, and combined 70V/100V and 8-ohm operation in each loudspeaker. Dual conduit clamp allows separate strain reliefs for the input and loop out cables. VA versions with EN54 certification available, as well as high humidity grilles for Control 12, 14 and 16 models.



Black / White

Control 12C/T

3" Compact Ceiling Loudspeaker

Frequency Range (-10dB):
68 Hz to 17 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
20 W

Impedance / Transformer:
8 ohms / 15 W

EN 54-24 Compliant Version
Available (Control 12C-VA)



Black / White

Control 14C/T

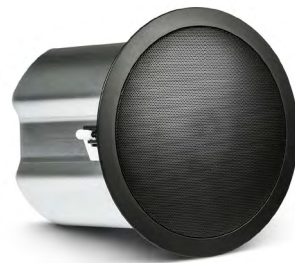
Two-Way 4" Coaxial Ceiling Loudspeaker

Frequency Range (-10dB):
74 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
30 W

Impedance / Transformer:
8 ohms / 25 W

EN 54-24 Compliant Version
Available (Control 12C-VA)



Black / White

Control 16C/T

Two-Way 6.5" Coaxial Ceiling Loudspeaker

Frequency Range (-10dB):
62 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
50 W

Impedance / Transformer:
8 ohms / 30 W

EN 54-24 Compliant Version
Available (Control 12C-VA)



Black / White

Control 18C/T

Two-Way 8" Coaxial Ceiling Loudspeaker

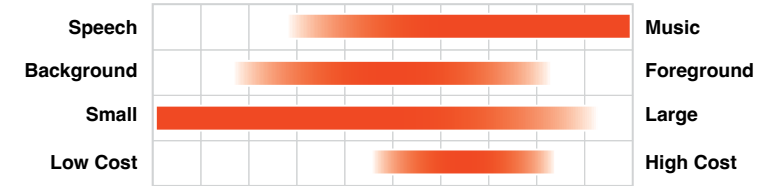
Frequency Range (-10dB):
58 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
90 W

Impedance / Transformer:
8 ohms / 60 W



Park Hyatt Bangkok, Thailand



Control 47LP

Two-Way 6.5" Coaxial Low-Profile Ceiling Loudspeaker

Frequency Range (-10dB):
68 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
75 W

Impedance / Transformer:
8 ohms / 60 W



Control 40CS/T

8" Ceiling Subwoofer with Crossover

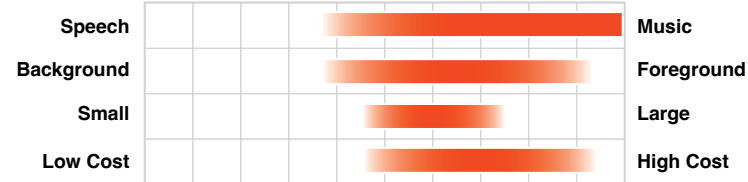
Frequency Range (-10dB):
32 Hz to 300 Hz

Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 80 W

High Impedance Version Available
(Control 19CST)

Impedance / Transformer:
8 ohms / 80 W



White

Control 226C/T

6.5" Coaxial Ceiling Loudspeaker with HF Compression Driver

Frequency Range (-10dB):
47 Hz to 19 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 68 W



White

Control 227C

6.5" Coaxial Ceiling Loudspeaker with HF Compression Driver

Frequency Range (-10dB):
43 Hz to 19 kHz

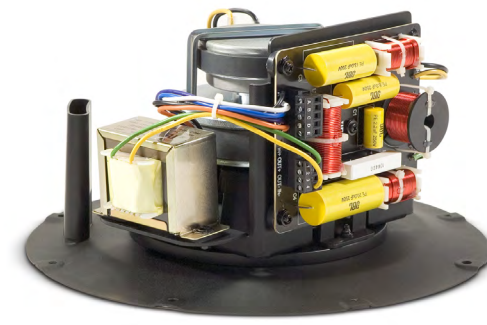
Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 68 W

Control 200 Series

Medium-Format Ceiling Loudspeakers

Control 226C/T, 227C and 227CT are premium in-ceiling loudspeakers designed to meet the increasing market demand for premium quality sound in ceiling-mount applications. The Control 200 Series loudspeakers incorporate breakthrough performance features such as best-in-class constant-directivity pattern control to provide a consistent sound throughout the listening area. Especially wide coverage allows fewer loudspeakers to cover the space, reducing both the material and labor cost for the installation. The high-power Kevlar™-reinforced 6.5" (165 mm) low-frequency driver along with the titanium-diaphragm compression driver and advanced-technology steep-slope crossover provide superb, wide-bandwidth sound quality.



White

Control 227CT

6.5" Coaxial Ceiling Loudspeaker with HF Compression Driver

Frequency Range (-10dB):
43 Hz to 19 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 68 W

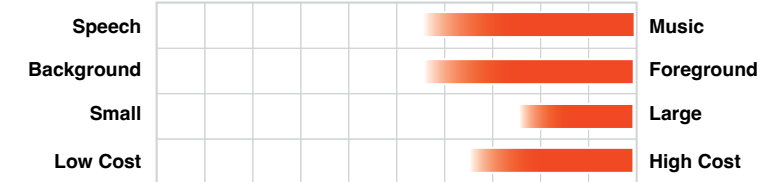
High Impedance Version Available (227CT)

For Use with Pre-Install Backcan

Control 300 Series

Large-Format Ceiling Loudspeakers

Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any system performance requirements. Premium components include Kevlar™-reinforced cones, low-saturation transformers and legendary JBL compression drivers. Constant-directivity coverage, advanced high-slope crossover networks, low system distortion and smooth frequency response provides full, natural music along with exceptional speech intelligibility.



White

Control 321C (CT)

12" Coaxial Ceiling Loudspeaker with HF Compression Driver

Frequency Range (-10dB):
34 Hz to 18 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
200 W

Impedance / Transformer:
5.6 ohms / 68 W

High Impedance Version Available (Control 321CT)

For Use with Pre-Install Backcan



White

Control 322C (CT)

High-output 12" Coaxial Ceiling Loudspeaker

Frequency Range (-10dB):
32 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
250 W

Impedance / Transformer:
8 ohms / 100 W

High Impedance Version Available (Control 322CT)

For Use with Pre-Install Backcan



White

Control 328C (CT)

8" Coaxial Ceiling Loudspeaker with HF Compression Driver

Frequency Range (-10dB):
45 Hz to 18 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
150 W

Impedance / Transformer:
8 ohms / 68 W

High Impedance Version Available (Control 328CT)

For Use with Pre-Install Backcan



White

Control 312CS

High-Output 12" Ceiling Subwoofer Loudspeaker

Frequency Range (-10dB):
30 Hz to 4.5 kHz

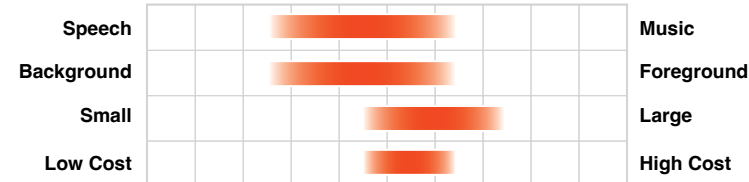
Power Capacity
Cont. Pink Noise (100 hrs):
250 W

Impedance / Transformer:
8 ohms / NA

For Use with Pre-Install Backcan



VANs Showcase Store, South Korea



○ White

Control 126 W (WT)

6.5" In-Wall Loudspeaker

Frequency Range (-10dB):
38 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
50 W

Impedance / Transformer:
8 ohms / 30 W

High Impedance Version Available (Control 126WT)

Control 100 Series

In-Wall Loudspeakers

The Control 100 Series are in-wall loudspeakers designed for applications where minimal visual impact and premium sound quality is required. The Control 100 Series loudspeakers are voiced similarly to other JBL Control Contractor models, allowing mixing with surface-mount and in-ceiling loudspeakers within a single listening space. The sound quality makes these loudspeakers ideal for critical listening environments.



○ White

Control 128 W (WT)

8" In-Wall Loudspeaker

Frequency Range (-10dB):
30 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
60 W

Impedance / Transformer:
8 ohms / 50 W

High Impedance Version Available (Control 128WT)

Control Pro Series

Compact Loudspeaker Systems

The classic look of the JBL Control Series installation monitors stem from their initial development as recording studio reference monitors. Offering well-balanced sound, these loudspeakers are ideal for any installation requiring classic professional control monitor performance from a compact source.



● Black / White

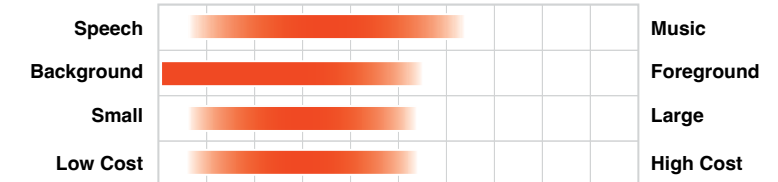
Control 1 Pro

Two-Way 5.25" Professional Compact Loudspeaker System

Frequency Range (-10dB):
80 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (2 hrs):
150 W

Impedance / Transformer:
4 ohms / NA



● Black

Control 2P

Two-Way 5.25" Compact Powered Reference Monitors

Frequency Range (-10dB):
80 Hz to 20 kHz

Max SPL:
111 dB



● Black / White

Control 5

Compact 6.5" Passive Two-Way Loudspeaker System

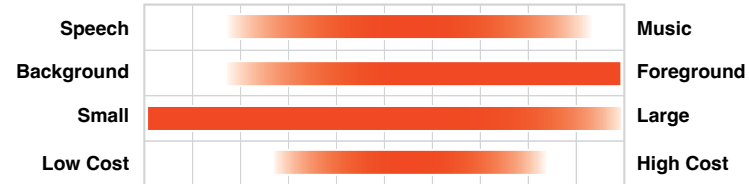
Frequency Response (+/-3dB):
75 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (2 hrs):
175 W

Impedance / Transformer:
4 ohms / NA



RYU Bar, India



 Black / White

Control 23-1 (L)

Two-Way 3" Ultra-Compact Surface-Mount Loudspeaker

Frequency Range (-10dB):
70 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
40 W

Impedance / Transformer:
8 ohms / 15 W

8-Ohm Low Impedance Only Version Available (Control 23-1L)

 **Black / White**

Control 25-1 (L)

Two-Way 5.25" Compact Surface-Mount Loudspeaker

Frequency Range (-10dB):
60 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
75 W

Impedance / Transformer:
8 ohms / 30 W

8-Ohm Low Impedance Only
Version Available (Control 25-1L)

 **Black / White**

Control 28-1 (L)

Two-Way 8" High-Output Surface-Mount Loudspeaker

Frequency Range (-10dB):
45 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
90 W

Impedance / Transformer:
8 ohms / 60 W

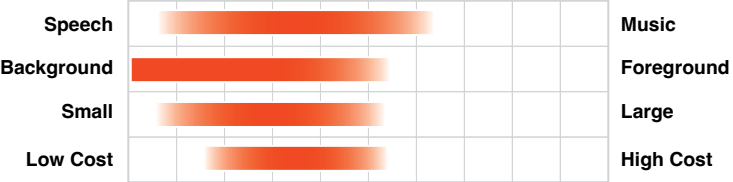
8-Ohm Low Impedance Only
Version Available (Control 28-1L)



Outdoor capabilities can be further enhanced with optional high-IP WeatherMax™ and/or Marine Kit grilles.



Nam Nghi Resort's Rock Island Club, Vietnam



Black / White

Control CRV

Dual 4” Versatile High Design Loudspeaker

Frequency Range (-10dB):
80 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
60 W

Impedance / Transformer:
4 ohms / 30 W

Control CRV

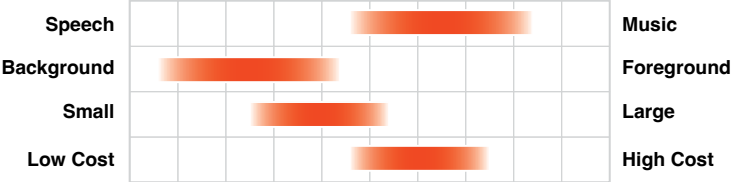
Architectural Loudspeaker

The Control CRV brings high design and versatility to high-finish commercial venues that require a fashionable look. JBL Control CRV loudspeakers are exceedingly versatile, with multiple installation possibilities -- wall-mounted aimed straight out, angled down at a 45° aiming axis, mounted spanning the junction of a wall and ceiling, or spanning the junction of two walls. Two, three, or four (with optional PMB pole-mount bracket) Control CRV loudspeakers can be joined together to create loudspeaker solutions for a wide variety of coverage, appearance, and mounting requirements.

Control HST

Wide-Coverage Loudspeaker with HST Technology™

The Control HST utilizes JBL’s patent pending Hemispherical Soundfield Technology™ to achieve extremely wide coverage of the listening space along with eliminating the primary wall reflection that tends to cause inconsistent sound when loudspeakers are attached to a wall. The wide hemispherical sound field covers from wall to wall, allowing a single loudspeaker to provide full-range sound to a large listening area. This can reduce the number of loudspeakers needed for covering a space, lowering the overall cost for a sound system.



Black / White

Control HST

Wide-Coverage Loudspeaker with 5.25” LF and Dual Tweeters

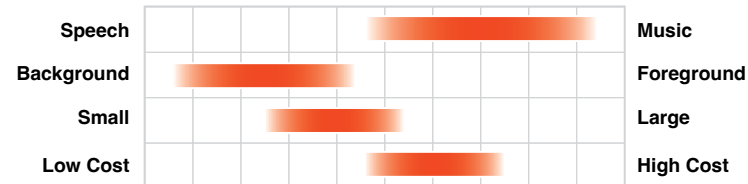
Frequency Range (-10dB):
50 Hz to 20 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
75 W

Impedance / Transformer:
8 ohms / 60 W



Coal Drops Yard, UK



 Green

Control 85M

Two-Way 5.25" Coaxial Mushroom Landscape Loudspeaker

Frequency Range (-10dB):
55 Hz to 18 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
45 W

Impedance / Transformer:
8 ohms / 30 W



 **Green**

Control 88M

Two-Way 8" Coaxial Mushroom Landscape Loudspeaker

Frequency Range (-10dB):
47 Hz to 16 kHz

Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 60 W



 Green

Control 89MS

8" Mushroom Landscape Subwoofer Loudspeaker with Low-Pass Crossover

Frequency Range (-10dB):
40 Hz to 150 Hz

Power Capacity
Cont. Pink Noise (100 hrs):
100 W

Impedance / Transformer:
8 ohms / 80 W

Control 80 Series

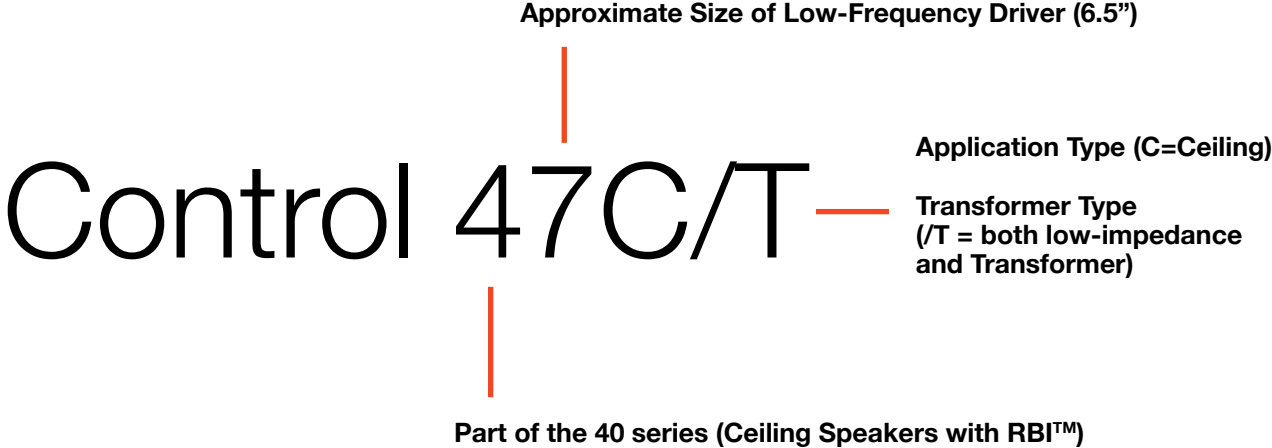
Landscape Loudspeakers

The Control 80 Series mushroom-type landscape loudspeakers feature high fidelity performance for outdoor on-ground use in applications such as hotels, restaurants, and shopping complexes. A wide frequency response and 360° of horizontal coverage ensure coverage of outdoor spaces with top-quality music and/or intelligible paging. Color is infused throughout the enclosure case to minimize the visual impact of the nicks and scratches that can happen with outdoor loudspeakers. The Control 80 Series are IP-56 rated as per IEC529. The Control 89MS can be added into a system to augment the low-frequency performance.

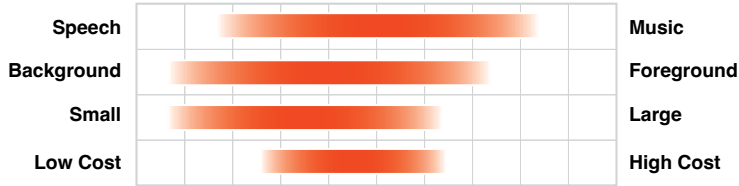


Park Lane Hotel, Cyprus

Understanding Control Contractor



Annotations



* Speech/Music range based on frequency response.

* Any music-capable speaker is also speech capable.

* Ratings based on best used of the speaker line's capabilities.

* Background/Foreground range based on SPL capability for music content along with typical listening distances.

* Small/Large range based on physical size.

* Low-Cost/High-Cost range based on product's form-factor market.

* For full technical specifications please refer to the product Spec Sheet which can be found on <https://jblpro.com/en>

Suffix and Prefix Guide

(not all accessories are shown in brochure):

C	Ceiling Speaker
CT	Ceiling Speaker with non-bypassable transformer, for 100V or 70V distributed speaker line
C/T	Ceiling Speaker with bypassable transformer, for either low-impedance or 100V/70V distributed speaker line
LP	Low-Profile Speaker (shallow, for use in ceilings with limited space above ceiling surface)
HC	High-Ceiling Speaker (narrow coverage, which works better for high ceiling applications)
P	Pendant Speaker
P/T	Pendant Speaker with bypassable transformer, for either low-impedance or 100V/70V distributed speaker line
S	Subwoofer (in most cases)
C-VA	Voice Announcement (special certification for use in voice announcement systems)
LS	UL Life Safety (may also have VA certification)
AV	Audio-Video Shielded (for use close to magnetically sensitive equipment)
W	In-Wall Speaker
WT	In-Wall Speaker with non-bypassable transformer, for 100V or 70V distributed speaker line
MTC	Mounting Bracket or accessory
WMG and MK	WeatherMax™ Grille and Marine-Kit (for extreme weather locations)
UB	U-Bracket
CM	Ceiling-Mount Adapter Arm (for surface-mount speakers)
NC	New-Construction Installation Bracket
MR	Plaster ("Mud Ring") Installation Bracket
BB	Backbox (or backcan)
SG	Square Grille
RG	Round Grille
TB	Tile Bridge
TR	Trim Ring



CONTROL CONTRACTOR

SCALABLE, INTEGRATED, INSTALLED AUDIO SOLUTIONS

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