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# CONTROL CONTRACTOR

SCALABLE, INTEGRATED, INSTALLED AUDIO SOLUTIONS

**2023**





# Contents Guide

About JBL.....	2-5
<b>Ceiling Loudspeakers</b> .....	6-11
Control 10 Series Blind-Mount Small Format.....	6
Control Contractor 20 Series Small Format.....	8
Control 40 Series Constant-Directivity.....	9
Control 200 Series Medium-Format.....	10
Control 300 Series Large-Format.....	11
CSS Commercial Series.....	12
8100 Series with Stylized Grille.....	13
<b>Pendant Loudspeakers</b> .....	16-17
Control 60 Series.....	16-17
<b>In-wall Loudspeakers</b> .....	18
Control Contractor 100 Series.....	18
<b>Surface mount</b> .....	19-33
Control Pro Series.....	19
Control Contactor 20 Series.....	22-23
Control 50 Series Subwoofer/Satellite.....	25
Control CRV Architectural.....	28
Control HST Wide-Coverage.....	29
SLP Series Sleek Low-Profile.....	30-31
<b>Landscape Loudspeakers</b> .....	32-37
Control 80 Series.....	32-33
GSF Series Garden Ground-Stake.....	34-35
GSB Series Garden In-Ground Subwoofers.....	36-37



# 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-robust 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)

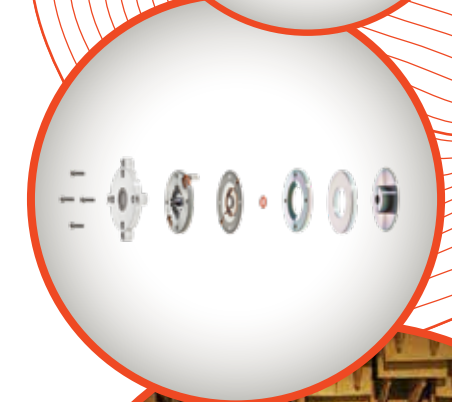
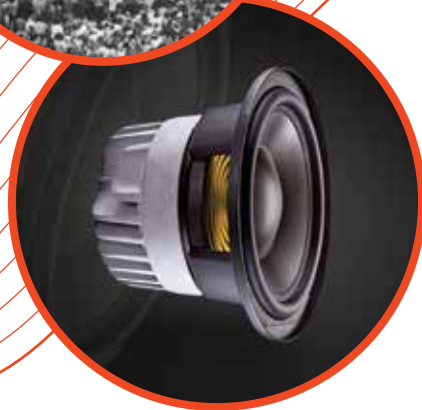
JBL's patented Radiation Boundary Integrator combines the high frequency and mid-range so the transition across each band is uninterrupted, undistorted and seamless. A patented,

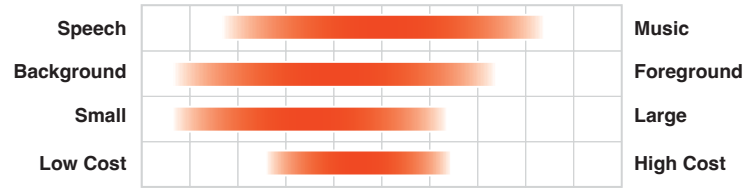
tuned resonant chamber is integrated into the waveguide itself, effectively eliminating throat-related cancellations due to back pressure from the mid-range section. Our refined RBI waveguide implementation provides improved horizontal coverage - broader and more stable.

## 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.

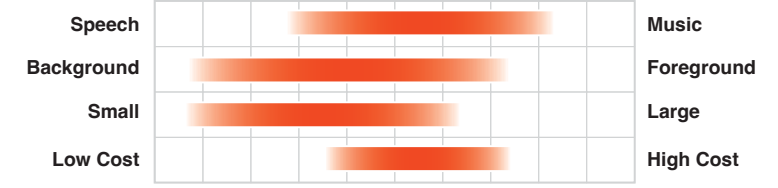




# Control 10 Series

## 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.



# Control 20 Series

## Small Format Ceiling Loudspeakers

JBL Control Contractor 20 Series small-format ceiling loudspeakers provide full-range, high-fidelity sound reinforcement for music and music-plus-paging systems. Innovative features like titanium-coated tweeters and JBL's proprietary diffraction-horn loading technology deliver wide even coverage. Models are packaged as complete assemblies including grille, backcan and tile rails, and can be installed without accessing areas above the ceiling. All loudspeakers feature JBL's exclusive SonicGuard™ overload protection, enabling higher operational levels and improved reliability.



White

## Control 24CT MicroPlus

### Two-Way 4.5" Ceiling Loudspeaker

**Frequency Range (-10dB):**  
80 Hz to 25 kHz

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

**Impedance / Transformer:**  
NA / 25 W



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 14C-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 16C-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



White

### Control 24C (CT) Micro

#### Two-Way 4.5" Ceiling Loudspeaker

**Frequency Range (-10dB):**  
85 Hz to 25 kHz

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

**Impedance / Transformer:**  
8 ohms / 9 W

High Impedance Version Available (Control 24CT Micro)



White

### Control 24C (CT)

#### Two-Way 4" Coaxial Ceiling Loudspeaker

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

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

**Impedance / Transformer:**  
16 ohms / 30 W

High Impedance Version Available (Control 24CT)

CT version available Black and white



White

### Control 26 (CT)

#### Two-Way 6.5" Coaxial Ceiling Loudspeaker

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

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

**Impedance / Transformer:**  
16 ohms / 60 W

High Impedance Version (Control 26CT) & UL Life Safety Compliant Version Available (Control 26CT-LS)



White

### Control 19CS (CST)

#### 8" Ceiling Subwoofer

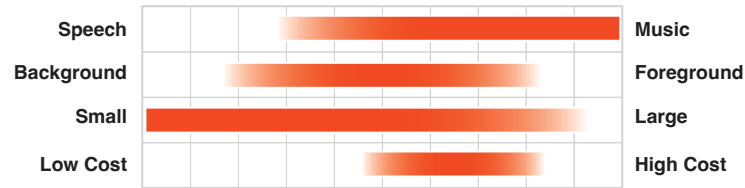
**Frequency Range (-10dB):**  
42 Hz to 200 Hz

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

**Impedance / Transformer:**  
8 ohms / 75 W

High Impedance Version Available (Control 19CST)





# Control 40 Series

## Constant-Directivity Ceiling Loudspeakers

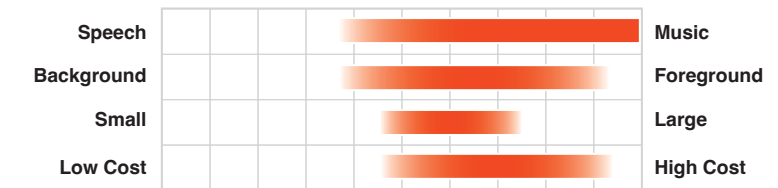
The Control 40 Series ceiling loudspeakers feature JBL-exclusive RBI Radiation Boundary Integration™ technology. Adapted from high-end concert systems, RBI provides true constant-directivity coverage eliminating spots that are extra-bright or too dull. Exceptionally wide patterns reduce the number of loudspeakers needed to cover a space.

A special narrow-coverage high-ceiling model provides improved clarity in high ceiling applications. And a 60mm (2.5") ultra-compact satellite loudspeaker and in-ceiling subwoofer can be intermixed with other loudspeaker form factors (on-wall or pendant) to accommodate a full range of applications and architectures.

# 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 42C

**2.5" Ultra-Compact Ceiling Satellite Loudspeaker**

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

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

**Impedance / Transformer:**  
16 ohms / NA



White

### 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



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 45C/T

**Two-Way 5.25" Coaxial Ceiling Loudspeaker**

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

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

**Impedance / Transformer:**  
8 ohms / 60 W



White

### Control 47C/T

**Two-Way 6.5" Coaxial Ceiling Loudspeaker with Extended Bass**

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

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

**Impedance / Transformer:**  
8 ohms / 60 W



White

### Control 47HC

**Two-Way 6.5" Coaxial Ceiling Loudspeaker, Narrow Coverage for High Ceilings**

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

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

**Impedance / Transformer:**  
8 ohms / 60 W



White

### 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



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



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

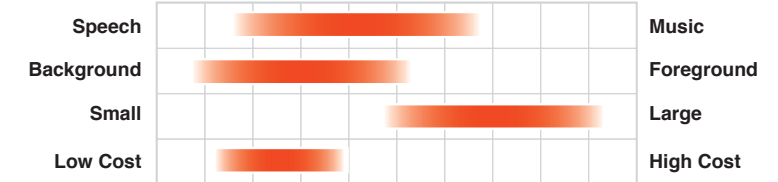
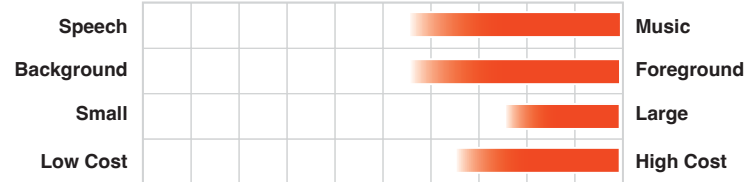
Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any system performance requirements. Premium components include Kevlar™-reinforced 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.

# LCT81C/TM

## Lay-In Ceiling Loudspeaker

JBL-LCT 81C/TM is a full-range ceiling speaker designed to lay into a 600 mm x 600 mm metric suspended grid ceiling, with no cutting of ceiling tiles required, making for an easy and cost-effective installation with a minimum of mess. The low profile depth of only 103mm allows the speaker to fit in locations where deeper loudspeakers do not.

This loudspeaker is designed to provide excellent performance for voice reinforcement and light-to-medium music in a wide variety of applications, including education classrooms, business music systems, retail stores, music/paging systems, airports, reception/waiting rooms, lounges, courtrooms, meeting rooms, and more.



White

LCT81C/TM

### Low-Profile Lay-In Ceiling Speaker

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

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

**Impedance / Transformer:**  
8 Ohms / 10 W



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**

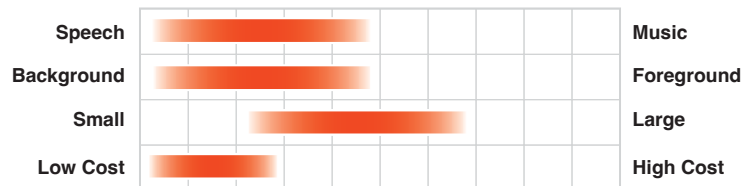
**Frequency Range (-10dB):**  
30 Hz to 4.5 kHz

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

**Impedance / Transformer:**  
8 ohms / NA

For Use with Pre-Install Backcan





# CSS Commercial Series

## Ceiling Loudspeakers

CSS Commercial Series provide excellent performance for paging and background music applications including retail stores, restaurants, schools and other public facilities. High sensitivity speakers provide maximum sound level even at low tap settings, and wide dispersion ensures excellent coverage. The drivers all feature a full 25 mm (1 in) diameter voice coil with a Kapton™ coil-former and high-temperature wire for superior power dissipation and long-term reliability.



White

CSS8004

100 mm (4 in) Ceiling Speaker

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

Transformer:  
5 W



White

CSS8008

200 mm (8 in) Ceiling Speaker

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

Transformer:  
5 W



White

CSS8018

200 mm (8 in) Ceiling Speakers

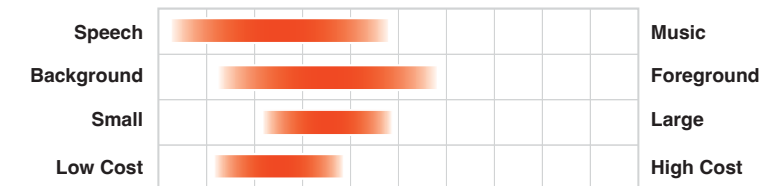
Frequency Range (-10dB):  
50 Hz to 17 kHz

Transformer:  
10 W

# 8100 Series

## Ceiling Speakers with a Stylized Grille

High-fidelity performance at a cost-effective price point, the 8100 Series is an easy to install loudspeaker solution for a wide variety of commercial sound applications. The 8100 Series feature high sensitivity drivers that deliver maximum sound levels using minimal amplifier power. With its contemporary grill design, 70V/100V taps and open-back design, the 8100 series brings elegance and performance to basic commercial sound systems, or any application not requiring a backcan for installation.



White

8124

4-inch, Full-range In-Ceiling Loudspeaker

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

Transformer:  
6 W



White

8128

8-inch, Full-range In-Ceiling Loudspeaker

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

Transformer:  
6 W



White

8138

8-inch Full-Range In-Ceiling Loudspeaker for use with Pre-Install Backcans

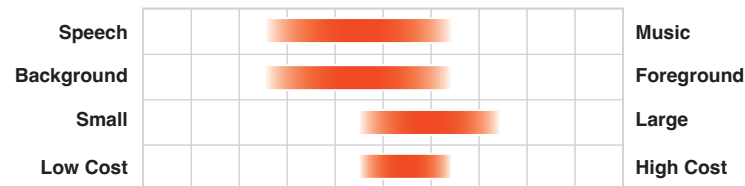
Frequency Range (-10dB):  
95 Hz to 18 kHz

Transformer:  
6 W









# 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

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 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

### 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 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

### 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



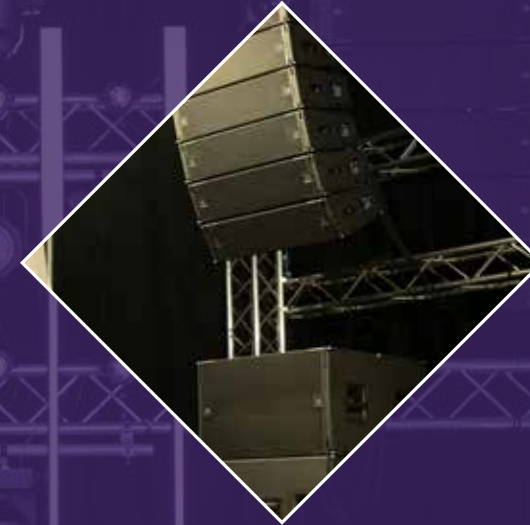
Demo facility

Subject to soc

# Visit our Professional Audio and Lighting demo facility

Located at our offices in Letchworth Garden City, Hertfordshire, our demo facility provides an ideal environment to listen to a comprehensive selection of the HARMAN Professional portfolio - including the JBL Control Contractor range and Crown amplification.

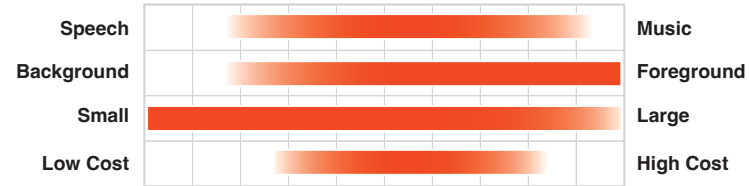
For more information or to make an appointment, contact the Midwich Audio team on **0161 868 1240 / [audio@midwich.com](mailto:audio@midwich.com)** or ask your account manager.



GSF3

- > 3" woofer
- > 60W pro
- > Multi-tap
- & 8 ohm input
- > IP56 rating
- Includes ground stake and L-bracket
- > Available in white, black or tan
- Our Part #: JBL-1240





# Control Contractor 20 Series

## Surface-Mount Loudspeakers

Control Contractor 20 Series surface-mount loudspeakers and subwoofers deliver full, rich sound, deep bass extension, high SPL output, and wide consistent coverage for retail stores, restaurants, health clubs, theme parks, educational facilities or any application demanding top-quality sound reinforcement in a rugged, compact package. Built-in JBL Invisiball® mounting technology makes installation a breeze. Control Contractor surface-mount loudspeakers are voiced similarly to other JBL Control Contractor models, allowing them to be combined with in-wall and in-ceiling loudspeakers in a single listening space.



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

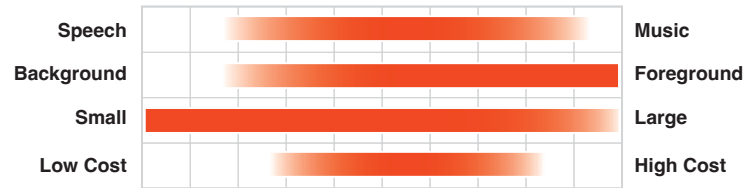
**Impedance / Transformer:**  
8 ohms / 60 W

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.





# Control Contractor 20 Series

## Surface-Mount Loudspeakers

The Control Contractor 20 Series balances superior fidelity with versatility, ease-of-installation, and contemporary styling.



Black / White

### Control 25AV

#### Two-Way 5.25" Video Shielded Compact Surface-Mount Loudspeaker

**Frequency Range (-10dB):**  
70 Hz to 23 kHz

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

**Impedance / Transformer:**  
8 ohms / 60 W



Black / White

### Control 25AV-LS

#### Two-Way 5.25" Life Safety Compact Surface-Mount Loudspeaker

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

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

**Impedance / Transformer:**  
8 ohms / 60 W

EN-54 Compliant  
and UL Life Safety



Black / White

### Control 29AV-1

#### Two-Way 8" Surface-Mount Loudspeaker

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

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

**Impedance / Transformer:**  
8 ohms / 110 W



Black / White

### Control 30

#### Three-Way 10" Surface-Mount Loudspeaker

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

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

**Impedance / Transformer:**  
4 ohms / 150 W



Black / White

### Control 31

#### Two-Way 10" Surface-Mount Loudspeaker

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

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

**Impedance / Transformer:**  
8 ohms / 150 W



Black / White

### Control SB2210

#### Dual 10" Compact Subwoofer

**Frequency Range (-10dB):**  
38 Hz to 500 Hz

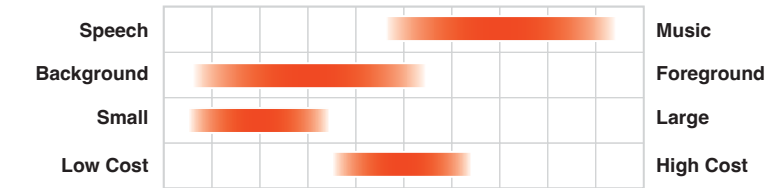
**Power Capacity**  
Cont. Pink Noise (100 hrs):  
400 W

**Impedance / Transformer:**  
8 ohms / 300 W

# Control 50 Series

## Subwoofer-Satellite Loudspeaker System

The Control 50 Series subwoofer-satellite loudspeaker system provides high fidelity sound in any location where full-range high fidelity foreground/ background music is required from a surface-mount system. The Control 50S/T subwoofer can be utilized with either two of four Control 52 satellite loudspeakers. The Control 50 system is mono. Both the Control 50S/T and Control 52 can be intermixed in systems along with the in-ceiling and pendant subwoofer and satellite models to match the form factor requirements of a wide variety of applications and architectures.



Black / White

### Control 50 PACK

#### Surface-Mount Subwoofer-Satellite Loudspeaker System

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

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

**Impedance / Transformer:**  
4-8 ohms / 80 W



Black / White

### Control 52

#### Surface-Mount Satellite Loudspeaker

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

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

**Impedance / Transformer:**  
16 ohms / NA



Black / White

### Control 50S/T

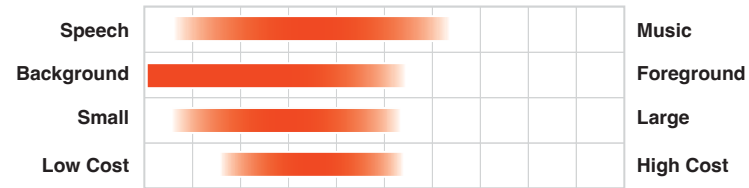
#### Surface-Mount Subwoofer

**Frequency Range (-10dB):**  
32 Hz to 200 Hz

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

**Impedance / Transformer:**  
8 ohms / 80 W





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

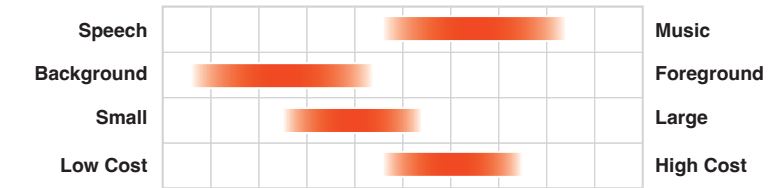
## Architectural Loudspeaker

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, London

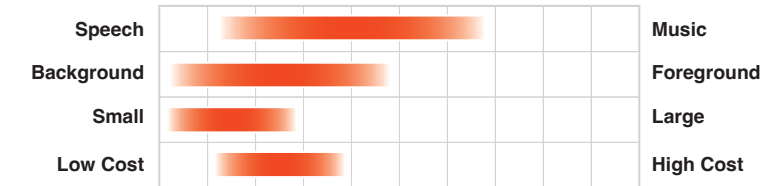




# SLP Series

## Sleek Low-Profile Speakers

SLP sleek, low-profile full-range on-wall loudspeakers provide superior sound and broad, consistent coverage in a sleek, low-profile enclosure that deliver the legendary sound that JBL is known for. These elegantly finished speakers complement any décor and are available in black or white finishes. These stylish, low-profile speakers feature a downward tilt to their aim, allowing them to be installed flat to the wall, making them perfect for venues such as high-finish restaurants, hotels, resorts, retail stores, and any installation application calling for a discreet yet elegant look.



Black / White

### SLP 12/T

**Sleek, Low-Profile On-Wall Loudspeaker**

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

**Power Capacity**  
**Cont. Pink Noise (100 hrs):**  
20 W (80 W Peak)

**Impedance / Transformer:**  
8 ohms / 15 W



Black / White

### SLP 14/T

**Sleek, Low-Profile On-Wall Loudspeaker**

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

**Power Capacity**  
**Cont. Pink Noise (100 hrs):**  
30 W (120 W Peak)

**Impedance / Transformer:**  
8 ohms / 25 W











# GSF Series

## Garden Ground-Stake Full-Range Speakers

Weather-resistant JBL GSF garden ground-stake full-range speakers provide superior fidelity and wide coverage in a range of outdoor commercial applications. Available in hunter green and tan finishes, these speakers are the perfect sound solution for diverse outdoor applications including shopping malls, theme parks, sports venues, hospitality venues, and any application calling for a stylish, robust, great-sounding landscape speaker system.

(includes L-bracket and ground stake)

Speech	[Progress bar]										Music
Background	[Progress bar]										Foreground
Small	[Progress bar]					[Progress bar]					Large
Low Cost	[Progress bar]										High Cost



Green / Tan

**GSF3**

**Ground-Stake Landscape Loudspeaker**

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

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

**Impedance / Transformer:**  
8 ohms / 15 W



Green / Tan

**GSF6**

**Ground-Stake Landscape Loudspeaker**

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

**Power Capacity**  
**Cont. Pink Noise (100 hrs):**  
30 W (120 W Peak)

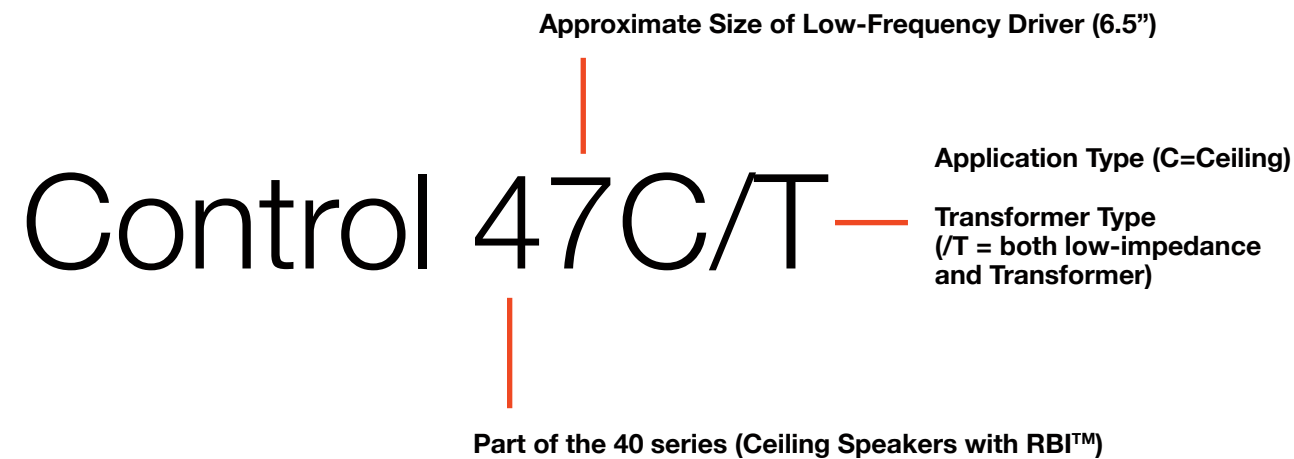
**Impedance / Transformer:**  
8 ohms / 30 W



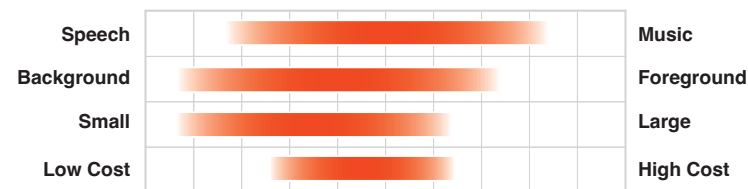




# Understanding Control Contractor



## 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

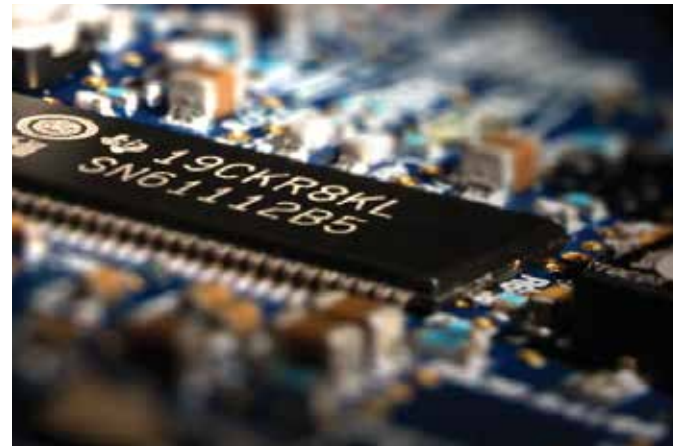


# About Crown

Part of HARMAN since 2000, Crown designs and manufactures innovative amplification solutions for the installed audio, performance audio and portable PA markets, such as the DCi and CDi DriveCore series, the ITech-HD range, and the XLS Series.

These products and more embody the reliability and innovativeness that have long been the manufacturer's hallmarks.

Crown products can be paired with any brand of speaker, but its place in the HARMAN family means the integration with JBL loudspeakers is second-to-none, with custom presets for many of the JBL product series including Control Contractor.



## DRIVECORE TECHNOLOGY

Crown's exclusive DriveCore amplifier technology seamlessly integrates the amplifier drive stage into the power output stage fusing everything into a chip the size of a penny.

By reducing the part count by over 500, DriveCore™ greatly reduces design complexity compared to that of traditional amplifiers. That makes DriveCore™ amps more efficient and more reliable than those of its competitors.

## XLS DriveCore 2

### Powerful, reliable amplification

Crown's XLS DriveCore 2 Series amplifiers flexibility includes multiple inputs along with several system setup configurations. The integrated crossovers and switch-mode power supply produce superior sound, and PeakX™ limiters protect your speakers.

Class-D amp with ultra-efficient DriveCore technology. Speakon® and binding post outputs. DSP including PeakX™ limiter and PureBand™ crossover. Protection against short circuit, no-load, on/off thumps and RF interference.



<b>XLS 1002</b>	<b>XLS 1502</b>	<b>XLS 2002</b>	<b>XLS 2502</b>
350W per channel @ 4Ω 215W per channel @ 8Ω 1100W bridge @ 4Ω	525W per channel @ 4Ω 300W per channel @ 8Ω 1550W bridge @ 4Ω	650W per channel @ 4Ω 375W per channel @ 8Ω 2100W bridge @ 4Ω	775W per channel @ 4Ω 440W per channel @ 8Ω 2400W bridge @ 4Ω

# CDi DriveCore Series

## Feature-rich installation amplifiers

The CDi DriveCore Series is an evolution in amplification, providing an impressive mix of high-performance, rich feature set, and competitive cost. Using technology derived from the Crown DriveCore Install series, the CDi DriveCore range offers streamlined functionality to work in almost any small/medium sized installation.

Designed for ease-of-use in a variety of applications, CDi DriveCore are 2, 4 or 8 channel amplifiers that include network control/monitoring, high-level DSP, front-panel interface, and support for driving up to 100Vrms speaker loads without requiring a transformer. BL models include BSS Audios' Blu-link interface for direct connection to Soundweb processors.

The entire CDi DriveCore line comes pre-loaded with JBL speaker tunings to help make installations quicker and easier.



<b>CDi 2i300 (BL)</b>	<b>CDi 2i600 (BL)</b>	<b>CDi 2i1200 (BL)</b>
Two channels 300W per channel @ 4Ω 300W per channel @ 8Ω 300W per channel @ 70/100V	Two channels 600W per channel @ 4Ω 600W per channel @ 8Ω 600W per channel @ 70/100V	Two channels 1200W per channel @ 4Ω 1200W per channel @ 8Ω 1200W per channel @ 70/100V



<b>CDi 4i300 (BL)</b>	<b>CDi 4i600 (BL)</b>	<b>CDi 4i1200 (BL)</b>
Four channels 300W per channel @ 4Ω 300W per channel @ 8Ω 300W per channel @ 70/100V	Four channels 600W per channel @ 4Ω 600W per channel @ 8Ω 600W per channel @ 70/100V	Four channels 1200W per channel @ 4Ω 1200W per channel @ 8Ω 1200W per channel @ 70/100V

# ComTech DriveCore Series

## Compact fan-less amplification

ComTech DriveCore™ is ideal for installations that require premium sound quality, multi-channel configurations, compact dimensions, and zero ambient fan noise.



<b>CT475</b>	<b>CT875</b>	<b>CT4150</b>	<b>CT8150</b>
Four channels 75W per channel @ 4Ω 75W per channel @ 8Ω	Eight channels 75W per channel @ 4Ω 75W per channel @ 8Ω	Four channels 150W per channel @ 4Ω 150W per channel @ 8Ω	Eight channels 150W per channel @ 4Ω 150W per channel @ 8Ω

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**audio team**

**Our team of experts are here to support  
you on your audio journey**

Whether it's advice on the latest products or an end-to-end solution, our highly trained specialists deliver expert guidance to save you time and money.

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- Demonstrations
- System design and specification service
- Site surveys
- Product training available in-house or by manufacturer
- Large stock holding enabling next day delivery
- Introductions to and collaborations with other technical divisions within the Midwich Group
- After sales support

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**www.midwich.com**