

# CONTROL<sup>®</sup> CONTRACTOR

LOUDSPEAKER SYSTEMS





*JBL Control Contractor Series are built from the ground up with exclusive JBL components that benefit from over 60 years of JBL research and development – the benchmarks for audio performance in all professional loudspeaker applications.*



## The JBL Control® Heritage

The goal of any professional sound installation is to provide the best Performance, Reliability and Value. Installations built on the solid foundation of the JBL heritage meet these goals because nowhere else can the professional contractor achieve the flexibility, adaptability and superb sound quality of the JBL Control® Contractor line.

Spanning a complete range of surface mount, in-ceiling and in-wall models, the variety of solutions offered by the Control Contractor Series give you complete mastery of any architectural, aesthetic or system performance requirement.

JBL engineers have made the art and science of loudspeaker specification and installation easy to manage. Simply select the JBL Control Contractor loudspeaker appropriate for the architectural, form factor and sonic requirements. The resulting sound system will always deliver on its promise of Performance, Reliability and Value.

## Design Flexibility

All JBL Control Contractor systems are constructed with a similar sonic signature allowing mixing and matching of any of the various models while maintaining smooth, even coverage throughout. You can easily design a system for a restaurant, retail store, hotel, club, house of worship or any commercial space regardless of size, configuration, architectural design or budget.

# CEILING LOUDSPEAKERS

Not just another of the myriad of ceiling speakers in a crowded, often confusing market, the JBL Control Contractor Ceiling Speakers are designed and built from the ground up with both you and your client's needs in mind. Backed by our decades of experience in developing the right products for the installation industry, these ceiling speakers allow you to concentrate on ensuring a successful installation and a satisfied client.

## All-In-One Speaker Assembly

JBL ceiling speakers are packaged as complete assemblies, including integral backcan, front grille, above-ceiling backing and tile bridge support hardware. Constant voltage models include transformers pre-installed inside the speaker assembly. Optional rough-in brackets are available for new-construction projects.

## Convenient Installation

Installation is easy. The entire installation can be accomplished without requiring access above the ceiling. Bracketry for suspended ceiling is included. Inputs are attached to an included, removable locking connector with separate loop-out terminals that can be pre-wired allowing ultra-fast snap-on installation. The input terminal plate provides strain relief for either bare wire, plenum cable or flexible conduit.

## Safety Approved

JBL ceiling speakers are UL1480 agency listed for use in air handling spaces. The securely enclosed terminal box meets safety codes.



## Comprehensive Line

The Control 24C Micro models feature low-profile backcans to fit into restricted depth ceilings. Low distortion and a smooth natural sound make these ideal for a wide variety of applications.

JBL's Control 24C and 26C redefine fidelity in compact in-ceiling speakers. Computer-optimized vented enclosures deliver warm, smooth bass response, and combined with the system's full spectrum frequency response and low distortion, customer comfort is assured throughout the listening area. Low impedance versions are at 16 $\Omega$ , allowing paralleling of up to 4 speakers on a 4 $\Omega$ -capable amplifier. Optional Control 24CT and 26CT add 70V/100V multi-tap transformers for use in distributed line systems.

The Control 19CS in-ceiling subwoofer advanced proprietary technology such as our Linear Dynamics™ port and Nested Chamber™ design delivers powerful bass response from an amazingly compact enclosure. The optional Control 19CST includes a special low-saturation subwoofer band multi-tap transformer for 70V/100V systems.

# SURFACE-MOUNT LOUDSPEAKERS

Anchoring the JBL Control Contractor Series are the most versatile line of surface-mount models anywhere, offering features and quality you expect from JBL. High versatility, ease of installation, weather resistance, overload protection, variety of finishes, and JBL premium high fidelity sound quality position these speakers as the very best in the field.

## Constant Voltage Versions

In addition to standard 8Ω models, built-in transformers in 70V/100V dedicated versions allow these models to be used in distributed speaker systems. The versatile Control 25AV, 29AV and 30 are capable of both 8Ω and 70V/100V operation, all in one.

## Match Any Décor

At the heart of the industrial design is the flexibility to fit into any architectural environment. Speakers are paintable and textured surfaces are designed to match any décor.

## SonicGuard™ Overload Protection

JBL's exclusive SonicGuard™ Overload Protection guards against damage from overpowering. Incorporated in all non-transformer models, SonicGuard's inaudible protection ensures that each speaker will deliver full fidelity sound throughout its full power range.

## Weather Resistant

All models are built with a high degree of weather resistance\*. Advanced materials add years to speaker life outdoors. An extra level of outdoor capability is built into the Control 25AV, 29AV, 30 and SB210, which feature a protective cover for input connections, stainless steel or thermoset-composite grilles and multi-layer WeatherMax™ grille backing on the Control 30 and SB210 to protect against driving rain.

\*SB-2 is for indoor only.



## InvisiBall® Mounting System & Installation Versatility

JBL's exclusive, patented InvisiBall® Mounting System (most models) allows for quick, easy, theft-resistant installation with the built-in mount secured by a few turns of a standard hex wrench. Ceiling-mount adapters are available for Control 23, 25, 28, 29AV and 30. In addition, Control 29AV, 30 and SB210 contain suspension points, and optional U-brackets provide ultimate versatility of installation.



## Surface-Mount Subwoofers

JBL's surface-mount subwoofers include all the features necessary to create extended-spectrum sound when combined with other Control Contractor Series models.

Control SB-2 works with a stereo left/right source. The built-in crossover with high-pass L/R satellite outputs works especially well with Control 23 satellite speakers. No electronic crossover or additional power amps are needed. Mounting brackets are available for corner, wall or ceiling suspension.

- CCS6000 System – Combining a Control SB-2 with four Control 23 satellite speakers creates a full spectrum system with a 38 Hz – 22 kHz frequency response.

Control SB210 dual 10" subwoofer provides maximum subwoofer output and weather resistance, accommodating either mono or stereo systems. For versatility, three optional input modules are available:

- MTC-210-SAT contains built-in crossover allowing connection of satellite speakers, either stereo or mono, and selection for either 4Ω or 8Ω satellite loading. This system matches superbly with Control 28 and Control 29AV as satellite speakers.
- MTC-210T allows sub to be driven from a 70V or 100V distributed line.
- MTC-210T-SAT combines both 70V/100V input and built-in crossover for 4Ω or 8Ω satellite loudspeakers, resulting in subwoofer/satellite modules within a distributed speaker system.

## IN-WALL LOUDSPEAKERS

Control 126W and 128W are premium in-wall loudspeakers designed for applications where top performance from a loudspeaker with minimal visual impact is required.

The high-performance polymer-coated aluminum woofer, aimable pure titanium dome tweeter and sophisticated crossover network provide natural sound, even coverage and smooth, wide frequency response. These speakers fit into the wall space of typical stud wall construction. Rough-in frames are available for new construction projects.



## SOUNDZONE® CONTROLLERS

JBL's Soundzone® Business Music Zone Controllers provide the successful commercial sound installation with unparalleled control and fidelity. Soundzone controllers are ideal for businesses, restaurants, health clubs, retail stores and any environment where quality sound and ease of use are essential. Z32S provides three input sources with two output zones. Model Z21S handles two input sources with one output zone.



- Easy to Use, the user simply selects the music source and volume for each zone. Other functions are hidden behind a security plate or are automatic. Controls are intuitive - no special user training is required.
- AutoWarmth® is an exclusive JBL dynamic EQ function that automatically compensates for the ear's tendency to hear the bass balance differently at different volumes. Unique to the Soundzone controllers, AutoWarmth creates enhanced wide bandwidth fidelity at all volume levels.
- LevelGuard™ keeps the music level optimal despite excessive level changes from the sources.
- Built-in Subwoofer Crossovers make it easy to include a Control Contractor subwoofer in the sound system at any time.
- Extra Advanced Features include adjustable duck-for-page, remote wallplates for volume and/or source selection, stereo-capable zones, and switchable highpass filters for satellite speaker outputs. Z32S includes all-call input, music emergency override mute, variable-time priority hold and assignable pages between output zones.





# SPECIFICATIONS

## CEILING SPEAKERS

### Control 24C Micro Shallow-Depth Ceiling Speaker

Components:	4.5" Woofer, .5" Tweeter
Frequency Range:	85 Hz – 25 kHz
Power Capacity:	30 Watts Continuous Program 15 Watts Continuous Pink Noise
Sensitivity:	86 dB, 1W, 1m
Coverage:	150°
Nominal Impedance (C24C Micro):	8Ω
70V/100V Taps (C24CT Micro):	8W, 4W, & 2W, & 1W, (plus 0.5W at 70V)
Termination:	Screw-down barrier strip
Dimensions (H x Dia):	106 x 195 mm (4.2 x 7.7 in)



### C24CT MicroPlus High Output Shallow-Depth Ceiling Speaker

Components:	4" Woofer, .5" Titanium Tweeter
Frequency Range:	80 Hz – 25 kHz
Sensitivity:	85 dB, 1W, 1m
Coverage:	150°
70V/100V Taps:	25W & 12W, (plus 6W at 70V)
Termination:	Screw-down barrier strip
Dimensions (H x Dia):	106 x 195 mm (4.2 x 7.7 in)



### Control 24C Compact Ceiling Speaker

Components:	4" Woofer, .75" Titanium Tweeter
Frequency Range:	80 Hz – 20 kHz
Power Capacity:	80 Watts Continuous Program 40 Watts Continuous Pink Noise
Sensitivity:	86 dB, 1W, 1m
Coverage:	130°
Nominal Impedance (C24C):	16Ω
70V/100V Taps (C24CT):	30W, 15W, & 7.5W, (plus 3.7W at 70V)
Termination:	Removable locking terminals in sealed compartment with cable strain relief
Dimensions (H x Dia):	200 x 195 mm (7.9 x 7.7 in)



### Control 26C High Output Ceiling Speaker

Components:	6.5" Woofer, .75" Titanium Tweeter
Frequency Range:	75 Hz – 20 kHz
Power Capacity:	150 Watts Continuous Program 75 Watts Continuous Pink Noise
Sensitivity:	89 dB, 1W, 1m
Coverage:	110°
Nominal Impedance (C24C):	16Ω
70V/100V Taps (C24CT):	60W, 30W, & 15W, (plus 7.5W at 70V)
Termination:	Removable locking terminals in sealed compartment with cable strain relief
Dimensions (H x Dia):	210 x 252 mm (8.3 x 9.9 in)



### Control 26-DT Driver Assembly

Components:	8" Compatible Woofer, .75" Titanium Tweeter
Frequency Range:	70 Hz – 20 kHz
Sensitivity:	89 dB, 1W, 1m
Coverage:	90°
70V/100V Taps:	60W, 30W, & 15W, (plus 7.5W at 70V)
Termination:	Screw locking barrier strip
Dimensions (H x Dia):	Standard 8" driver mounting, 120 mm (4.8 in) deep



### Control 19CS In-Ceiling Subwoofer

Components:	8" Low Frequency Driver
Frequency Range:	42 Hz – 200 kHz
Power Capacity:	200 Watts Continuous Program 100 Watts Continuous Pink Noise
Sensitivity:	95 dB, 1W, 1m
Nominal Impedance (C19CS):	8Ω
70V/100V Taps (C19CST):	60W, 30W, & 15W, (plus 7.5W at 70V)
Termination:	Removable locking terminals in sealed compartment with cable strain relief
Dimensions (H x Dia):	345 x 345 mm (13.6 x 13.6 in)



## IN-WALL SPEAKERS

### Control 126W

Components:	6.5" Woofer, 1" Tweeter
Frequency Range:	38 Hz – 20 kHz
Power Capacity:	100 Watts Continuous Program 50 Watts Continuous Pink Noise
Sensitivity:	88 dB, 1W, 1m
Nominal Impedance:	8Ω
Termination:	Screw-down Euroblock
Dimensions (H x W x D):	280 x 215 x 105 mm (11 x 8.5 x 4.1 in)



### Control 128W

Components:	8" Woofer, 1" Tweeter
Frequency Range:	30 Hz – 20 kHz
Power Capacity:	120 Watts Continuous Program 60 Watts Continuous Pink Noise
Sensitivity:	90 dB, 1W, 1m
Nominal Impedance:	8Ω
Termination:	Screw-down Euroblock
Dimensions (H x W x D):	334 x 257 x 110 mm (13.1 x 10.1 x 4.3 in)



# SURFACE-MOUNT SPEAKERS

All available in Black or White (except Control SB-2)

## Control 23 & 23T Ultra-Compact Speaker

Components:	3.5" Woofer, .5" Titanium Tweeter
Frequency Range:	85 Hz – 22 kHz
Power Capacity:	50 Watts Continuous Program 25 Watts Continuous Pink Noise
Sensitivity:	86 dB, 1W, 1m
Nominal Impedance (C23):	8Ω
70V/100V Taps (C23T):	5W at 70V, 10W at 100V
Termination:	Spring Terminals
Dimensions (H x W x D):	193 x 140 x 111 mm (7.6 x 5.5 x 4.4 in)

## Control 25 & 25T Compact Speaker

Components:	5.25" woofer, .75" titanium tweeter
Frequency Range:	80 Hz – 16 kHz
Power Capacity:	150 Watts Continuous Program 75 Watts Continuous Pink Noise
Sensitivity:	88 dB, 1W, 1m
Nominal Impedance (C25):	8Ω
70V/100V Taps (C25T):	30W, 15W & 7.5W, (plus 3.7W at 70V)
Termination:	Spring Terminals
Dimensions (H x W x D):	236 x 188 x 149 mm (9.3 x 7.4 x 5.8 in)

## Control 25AV Indoor/Outdoor Monitor Speaker

Components:	5.25" Woofer, .75" Titanium Tweeter
Frequency Range:	70 Hz – 23 kHz
Power Capacity:	200 Watts Continuous Program 100 Watts Continuous Pink Noise
Sensitivity:	87 dB, 1W, 1m
Nominal Impedance & 70V/100V Taps:	8Ω and 60W, 30W, & 15W, (plus 7.5W at 70V)
Termination:	Screw Terminals, plus included weather cover for terminal panel.
Dimensions (H x W x D):	236 x 186 x 159 mm (9.3 x 7.4 x 6.3 in)

## Control 28 & 28T-60 High Output Speaker

Components:	8" Woofer, 1" Titanium Tweeter
Frequency Range:	60 Hz – 16 kHz
Power Capacity:	175 Watts Continuous Program 87 Watts Continuous Pink Noise
Sensitivity:	92 dB, 1W, 1m
Coverage:	120° x 85° with rotatable horn
Nominal Impedance (C28):	8Ω
70V/100V Taps (C28T-60):	60W, 30W, & 15W, (plus 7.5W at 70V)
Termination:	Spring Terminals
Dimensions (H x W x D):	380 x 280 x 220 mm (15.0 x 11.0 x 8.6 in)

## Control 29AV High Output Indoor/Outdoor Monitor Speaker

Components:	8" LF Driver, 1" Titanium Compression Driver
Frequency Range:	40 Hz – 19 kHz
Power Capacity:	300 Watts Continuous Program 150 Watts Continuous Pink Noise
Sensitivity:	92 dB, 1W, 1m
Coverage:	120° x 110°
Nominal Impedance & 70V/100V Taps:	8Ω and 110W, 55W, & 28W, (plus 14W at 70V)
Termination:	Screw terminals, plus included weather cover for terminal panel.
Dimensions (H x W x D):	520 x 306 x 277 mm (20.5 x 12.0 x 10.9 in)

## Control 30 Indoor/Outdoor 3-Way Maximum Bandwidth Speaker

Components:	10" LF Driver, 5" Midrange, 1" Titanium Compression Driver
Frequency Range:	38 Hz – 17 kHz
Power Capacity:	500 Watts Continuous Program 250 Watts Continuous Pink Noise
Sensitivity:	93 dB, 1W, 1m
Nominal Impedance & 70V/100V Taps:	8Ω and 150W, 75W, & 38W, (plus 19W at 70V)
Termination:	Screw terminals, plus included weather cover for terminal panel.
Dimensions (H x W x D):	593 x 372 x 345 mm (23.3 x 14.6 x 13.5 in)

## Control SB-2 Stereo Subwoofer

Components:	10" Low Frequency Driver
Frequency Range:	38 Hz – 160 Hz
Power Capacity:	170 Watts Continuous Program x 2 88 Watts Continuous Pink Noise x 2
Sensitivity:	100 dB, 1W, 1m (both inputs driven, on-wall)
Nominal Impedance:	8Ω x 2
Termination:	Spring terminals
Dimensions (H x W x D):	394 x 585 x 343 mm (15.5 x 23.0 x 13.5 in)

## Control SB210 High Power Dual 10" Subwoofer

Components:	Two 10" Low Frequency Drivers
Frequency Range:	42 Hz – 200 Hz
Power Capacity:	400 Watts Continuous Program x 2 200 Watts Continuous Pink Noise x 2
Sensitivity:	96 dB, 1W, 1m (both inputs driven, on-wall)
Nominal Impedance:	8Ω x 2
Termination:	Screw terminals, plus included weather cover for terminal panel.
Dimensions (H x W x D):	355 x 590 x 570 mm (14 x 23.3 x 22.5 in)

# ACCESSORIES



MTC-xxUB\* U-Brackets



MTC-xxCM\* Ceiling Brackets



MTC-xxH\* Horizontal Array Brackets



MTC-xxV\* Vertical Array Brackets



Three MTC-xxH\* as Cluster Module Bracket

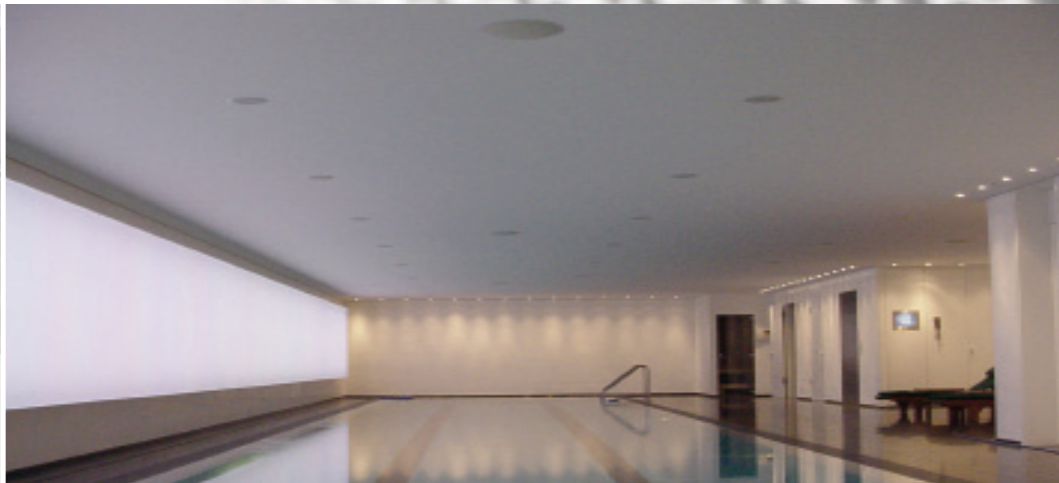


SB-2 Brackets

\* These accessories come in different sizes. Not available for all models.



Retail Stores  
Restaurants  
Hotels  
Houses of Worship  
Convention Facilities  
Music Cafes  
Leisure Venues  
Boardrooms  
Sports Bars & Lounges  
Delay / Fill Systems  
Theme Parks



Fitness Clubs  
Professional Offices  
Underbalcony  
Lobbies  
Reception / Waiting Rooms  
Airports  
Ancillary Areas  
Cruise Ships  
Museums



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