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JBL Professional is the premium loudspeaker choice for the world's most electrifying dance club experiences. Combining state-of-the-art technology with revolutionary engineering designs, it's no wonder top dance club owners rely on JBL Professional to rock their house.

**Uncompromising Reliability**
The night-after-night demands of dance club sound can be brutally punishing on a loudspeaker system. That's why JBL Professional maintains the highest reliability standards in the industry, subjecting all its loudspeaker designs to a rigorous 100-hour torture test, with peak power of 4 times the continuous rated power. Subjecting the speaker to more stress and strain than a loudspeaker would ever experience in actual use, all JBL Professional designs on the market must survive this grueling test. No one in the industry uses a more demanding standard.

**Total Selection**
As you glance through this booklet you will see that JBL has a speaker for every dance club need. From ear-splitting mega dance floors to tranquil VIP lounges; from eclectic chill rooms to complex sound booths. The Dance5, Dance3 and CBT Supertweeter Arrays, designed specifically for the extreme requirements of large and mega-size clubs, are the best dedicated dance club loudspeakers in the industry. AE Series features scalable systematic loudspeaker designs for smaller venues, while the VerTec Series brings the live concert experience to the dance club featuring tour-proven loudspeakers used by top musicians from around the world. And the Control Contractor Series, ideal for tight corners and tough angles, combines high performance and rugged construction with compact design. JBL has the answer for all your dance club needs.
DANCE CLUB EXAMPLES

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Roxy: New York, NY.......................................................Page 6
P1: Munich, Germany.....................................................Page 6
**Copacabana: New York, NY**
The world famous Copacabana, the most elegant nightclub in New York boasts a 1200 square meters (13,000 square feet) main area with a 540 square meters (5840 square feet) dance floor, VIP seating area and stage, along with a separate 440 square meters (4800 square feet) Disco Room. JBL product includes: VerTec, Custom Subwoofers, Dance 5, AE Series and Control 29AV.

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**Ministry of Sound: Bangkok, Thailand**
The Ministry is split across three floors comprising a separate dance area on the ground floor, a vast main arena on the first floor and a VIP room on the balconied second floor. JBL product includes: VerTec, Installation Range (now updated to AE Series) and Control Contractor Series. Installed by Satellite Pro A/V.

“This club raises the standard for Bangkok's fast-paced entertainment industry. When you first encounter the sound system in the main room, you are blown away by the physical power, but the real beauty is its finesse. Even at maximum 120 dB output you can still hold a conversation - which is a sign of the low distortion and the headroom built into the design. What you have is a very high fidelity club experience - a big hi-fi set with massive bass.”

Kenny Jackel of Bangkok-based Satellite Pro A/V
(Mondo*dr May/June 2002)

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**The Highlands: Hollywood, CA**
Located at the historical corner of Hollywood Boulevard and Highland Avenue, the Highlands nightclub is a state-of-the-art, multi-faceted venue spanning two floors and 2800 square meters (30,000 square feet). The club can entertain up to 1300 guests and boasts four separate dining areas, seven bars, two dance floors, two performance stages and four outdoor patios that offer stunning views of the Los Angeles basin. JBL product includes: Dance 5s with AE Series subwoofers for the main dance floor, Control 29AVs and 30s for seating, outdoor restaurant and entrance/queue area.

“We were looking to set ourselves a notch above the competition. We chose JBL because we knew that the performance, reliability, and sound of the speakers would be excellent. Our customers are constantly commenting on how awesome the system sounds. We have a sound system that is on a whole new level all by itself. There is no doubt, because we chose JBL.”

- Billy Thornton, Production Manager, Highlands, Hollywood, CA.
Capitale: New York, NY
The new Capitale event facility in New York is a multi-room venue including a 1500-person capacity ballroom dance area, 160-person restaurant, four private rooms and two executive rooms. JBL product includes: VerTec and AE Series. Installed by Trio Audio.

“Out of the five brands I auditioned, JBL sounded the best, with clean sharp presence in the highs, definitive mids without the distortion or ‘honkiness’, and a tight low end without boominess. Plus, when you buy a JBL speaker system, you get JBL drivers!” -Sam Yee of Trio Audio Inc, Designer and Installer, Capitale, New York.

TJ’s: Eastbourne, UK
TJ’s is an intimate 375 capacity, independently owned club, which has been in business for the last 20 years. It’s one of the best known and most respected landmark venues in the area and is the first UK venue to receive JBL's powerful, new, low profile AE series installation speakers. Installed by Accord Audio.

Delighted with the sonic results, TJ’s manager Andy Malyon stated, “Loads of customers have commented how great it sounds since we had the system installed - and you can’t get better endorsement than that!” (Lighting & Sound International, Feb. 2003)

Roxy: New York, NY
New York's best venue for dancing and roller-skating, the Roxy is a roller-rink turned superclub. This legendary club also offers an exciting facility for hosting corporate events and concerts. JBL product includes: JBL-loaded Phazon speakers. Installed by Walter Mosetter of Philadelphia Sound and renowned engineer Steve Dash.

P1: Munich, Germany
Opened originally as an Officers Club for the US Army in 1949, P1 is one of the most prestigious clubs in Germany. Located in the Haus der Kunst (House of Arts), the club is open 365 days a year and has only been closed 3 days over the last 20 years due to renovations. JBL products include: Custom Shop, AE Series and Control Series. Installed by Licht-Ton-Elektrotechnik.
DANCE CLUB TEMPLATES

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Template #1: Small Dance Floor  
(less than 30 sq meters / 320 sq ft)

Recommended Products

Full-Range Speakers

AM4212/00  
medium-power, 12", 2-way loudspeaker

or

AC2212/00  
compact, 12", 2-way loudspeaker

Subwoofers

ASB6128  
high-power, dual 18", subwoofer
Template #2: **Medium Dance Floor**
(30-100 sq meters / 320-1100 sq ft)

**Full-Range Speakers**

AM4215/95
medium-power, 15" 2-way loudspeaker

or

AC2215/95
compact, 15" 2-way loudspeaker

**Subwoofers**

ASB6128V
extended response, high-power, dual 18", sub

or

ASB6128
high-power, dual 18" subwoofer

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Simplified layout
design not to scale

Recommended Products
Template #3: Large Dance Floor
(100-200 sq meters / 1100-2200 sq ft)

Recommended Products

**Full-Range Speakers**
- **AM6340/95**
  - high-power, 4 x 10", 3-way loudspeaker
  - or
  - **Dance3**
    - high-output, side-mounted dual 15", 3-way loudspeaker
    - or
    - **Dance5**
      - high-output, dual 8" MF, 3 x 14" LF, 3-way loudspeaker

**Subwoofer**
- **ASB6128V**
  - extended response, high-power, dual 18", subwoofer
  - or
  - **ASH6118**
    - high-power, 18", horn-loaded subwoofer

**Low-Frequency Speaker (optional)**
- **AL6125**
  - high-power, dual 15", LF loudspeaker

**Supertweeter (optional)**
- **CBT4** (ceiling suspended)
  - multiple, ultra-high frequency horns
  - or
  - **CBT3** (stacked)
    - multiple, ultra-high frequency horns

*Dance3 and Dance5 models are built to order*
Template #4: *Mega Dance Floor*
(over 200 sq meters / 2200 sq ft)

**Recommended Products**

**Full-Range Speakers**
- **Dance3**
  - high-output, side-mounted dual 15”, 3-way loudspeaker
  - or
- **Dance5**
  - high-output, dual 8" MF, 14" LF, 3-way loudspeaker
  - or
- **VT4889**
  - high-power, dual 15”, 3-way line array loudspeaker
  - or
- **VT4888**
  - compact, high-power, dual 12”, 3-way line array loudspeaker

**Low-Frequency Speakers (optional)**
- **AL6125**
  - high-power, dual 15”, low-frequency loudspeaker

**Subwoofers**
- **ASH6118**
  - high-power, 18”, horn-loaded subwoofer
  - or
- **ASB6128V**
  - extended response, high-power, dual 18”, subwoofer

**Supertweeter (optional)**
- **CBT4** (ceiling suspended)
  - multiple, ultra-high frequency horns
  - or
- **CBT3** (stacked)
  - multiple, ultra-high frequency horns

Optional:
ASH6118 subwoofers can be oriented horizontally. With multiple ASH6118 units, place horn mouths together for optimum performance.

*Recommended Products*

*Note: Dance3 and Dance5 models are built to order*
Template #5: Live Performance System

Recommended Products

**Full-Range Speakers**
- VT4888
  - compact, high-power, dual 12", 3-way line array loudspeaker
  - or
- AM6340/95
  - high-power, 4 x 10", 3-way loudspeaker

**Subwoofers**
- VT4880
  - high-power, dual 18", arrayable subwoofer
JBL Products for Ancilliary Areas

**Bar Fill / VIP Lounge**

*Very High Level*
AC2212/00
compact, 12", 2-way loudspeaker
or
AM6212/00
high-power, 12", 2-way loudspeaker

*High Level*
Control 30
compact, 10", 3-way loudspeaker
or
Control 29AV
high-power, 8", 2-way loudspeaker

*Low Level*
Control 25AV
compact shielded, 5.25", 2-way monitor speaker

*Ceiling Speakers*
Control 26CT
high-power, 6.5", 2-way ceiling speaker

*Private VIP Rooms*
SMS1 System
premium self-contained business music sound system

**Booth Monitors**

*Small*
EON10 G2
self-powered, 10", 2-way, portable loudspeaker

*Medium*
EON15 G2
self-powered, 15", 2-way, portable loudspeaker

*Large*
AM6215/95
high-power, 15", 2-way, loudspeaker

**Chill Room**

Control 25AV
compact shielded, 5.25", 2-way monitor speaker
or
Control 26CT
high-power, 6.5", 2-way ceiling speaker

**Entranceway / Queue Area**

Control 25AV
compact shielded, 5.25", 2-way monitor speaker
System Example:
The Copacabana in New York City

3-D View

Top View

DJ Booth

Stage

Entrance

Hallway to Separate Room

Mega Dance Floor
44 ft x 82 ft

Seating Area 1

Seating Area 2

Bar

A Control 29AV
B Dance5
C AM6215/95
D VT4889 (x3)
Typical Superclub Signal Flow Diagram
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Dance5

Dedicated Dance Club Design
High Output Three-Way System
Horn-loaded Mid and High
Dual 8” Cone Midrange Horn
Triple 14” Low Frequency

Key Features:

- Three 2217H 14” VGC (Vented Gap Cooled™) LF transducers
- Dual Horn-loaded 2169H NDD (Neodymium Dual Drive™) 8” cone midrange drivers
- 2384 PT (Progressive Transition™) HF Waveguide
- 2451H Neodymium magnet, 4” diaphragm compression driver
- Cutaway top enclosure allows mounting closer to ceiling
- Full complement of suspension points simplify installation

The Dance5 is a premier member of JBL’s purpose-designed dance club family of products. Designed with enough low frequency horsepower to rock any house, smooth sweet sounding horn-loaded cone midrange and the extreme high frequency performance that JBL is famous for.

When combined with JBL subwoofers, the Dance5 forms the core of a world-class large-club system

The Dance5 can be flown using integral suspension attachment points or ground-stacked atop subwoofers

The Dance5 is designed for tri-amplified use. Use of the BSS Soundweb, dbx Driverack or similar digital controller for crossover, signal alignment, limiting and equalization is required for optimum performance.

The Dance5 is built when ordered. Contact the your local sales representative for information on lead time.

Specifications:

System:
- Frequency Range (-10 dB): 35 Hz - 18 kHz
- Frequency Response (±3 dB): 50 Hz - 16 kHz
- Horizontal Coverage Angle (-6 dB): 90° averaged 500 Hz to 16 kHz
- Vertical Coverage Angle (-6 dB): 50° (±20°, -30°) averaged 500 Hz to 16 kHz

Transducers:
- Low Frequency: 3x 2217HPL, 355 mm (14 in) dia., 100 mm (4 in) edge wound ribbon voice coil
  - Nominal Impedance: 8 Ohms each
  - 3.2 Ohms with 3 drivers wired in parallel
  - Power Rating: 600 Watts AES, 2400 Watts peak each driver
  - 1800 Watts AES, 7200 Watts peak total
  - Sensitivity: 101 dB SPL, 1W @ 1m (3.3 ft)
  - Calculated Maximum Peak SPL: 140 dB SPL @ 1m (3.3 ft)
- Mid-Frequency: 2x 2169H, 200 mm (8 in) dia., NDD, 2x 76 mm (3 in) edge wound ribbon voice coil
  - Nominal Impedance: 4 Ohms
  - Power Rating: 700 Watts AES, 2800 Watts peak
  - Sensitivity: 108 dB SPL, 1W @ 1m (3.3 ft)
  - Calculated Maximum Peak SPL: 142 dB SPL @ 1m (3.3 ft)
- High Frequency: 2451H, 100 mm (4 in) diaphragm and voicecoil, 38 mm (1.5 in) throat; 2384 PT Waveguide
  - Nominal Impedance: 8 Ohms
  - Input Power Rating: 75 Watts AES; 300 W Peak
  - Sensitivity: 114 dB, 1 W @ 1 m (3.3 ft)
  - Calculated Maximum SPL: 139 dB @ 1 m (3.3 ft)

Physical:
- Enclosure: Rectangular with 15° top angle; birch plywood
- Suspension Attachment: 18 points - 4 top & each side, 5 bottom, 1 rear; M10 thread pattern
- Finish: Black Duraflex coating (white optional)
- Grille: Black powder coated 16 gauge perforated steel with black foam backing (white optional)
- Input Connector: Barrier strip & Neutrik Speakon
- Dimensions (H x W x D): 1130 mm x 1213 mm x 476 mm
  - (44.5 in x 47.75 in x 18.75 in)
- Net Weight: 88.6 kg (195 lb)

1 Anechoic sensitivity, within normal bandpass of system or section of system, in free field; does not assume any additional sensitivity gain from boundary loading.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.  5/2/03   ATR
Dedicated Dance Club Design

Maximum Output/Minimum Size
Three-Way System
Horn-loaded Mid and High
Dual 15° Low Frequency

Key Features:
- Two 2226H 15" VGC (Vented Gap Cooled™) LF transducers
- Horn-loaded CMCD™ (Cone Midrange Compression Driver™)
- PT (Progressive Transition—) MF/HF Multiband Waveguide
- 2431H Neodymium magnet, 3” diaphragm compression driver
- Unique end-firing LF evenly distributes energy & minimizes enclosure size

The Dance3 is a premier member of JBL’s purpose-designed dance club family of products. With amazing low frequency power, smooth CMCD midrange and the extreme high frequency performance that JBL is famous for, combine with JBL subwoofers for the ultimate mid-size system.

The unique end-firing LF design of the Dance3 assures wide, even coverage of low frequencies while allowing for an enclosure that is much smaller than otherwise possible. The perforated steel grille of the Dance 3 wraps completely around both ends of the enclosure for a high-tech, yet understated appearance.

Dance3 is intended to be suspended overhead. The compact, vertically trapezoidal enclosure allows sufficient headroom even in low-ceiling applications.

Dance3 is designed for bi- or tri-amplified use. Use the BSS Soundweb, dbx Driverack or similar digital controller for optimum performance.

The Dance3 is built when ordered. Contact your local sales representative for information on lead time.

Specifications:

**System:**
- Frequency Range (-10 dB): 45 Hz - 18 kHz
- Frequency Response (+3 dB): 60 Hz - 16 kHz
- Horizontal Coverage Angle (-6 dB): 90°
- Vertical Coverage Angle (-6 dB): 50°

**Transducers:**
- **Low Frequency:**
  - LF transducers: 2x 2226H, 380 mm (15 in) dia., 100 mm (4 in) edge wound ribbon voice coil
  - Nominal Impedance: 4 Ohms
  - Power Rating: 1200 Watts AES, 4800 Watts peak
  - Sensitivity: 100 dB SPL, 1W @ 1m (3.3 ft)
  - Calculated Maximum Peak SPL: 137 dB SPL @ 1m (3.3 ft)
- **Mid-Frequency:**
  - CMCD-81H, 200 mm (8 in) dia., NDD, 2x 76 mm (3 in) edge wound ribbon voice coil
  - Nominal Impedance: 8 Ohms
  - Power Rating: 350 Watts AES, 1400 Watts peak
  - Sensitivity: 108 dB SPL, 1W @ 1m (3.3 ft)
  - Calculated Maximum Peak SPL: 139 dB SPL @ 1m (3.3 ft)
- **High Frequency:**
  - 2431H; 75 mm (3 in) diaphragm and voice coil, 36 mm (1.5 in) throat
  - Nominal Impedance: 8 Ohms
  - Input Power Rating: 75 Watts AES; 300 W Peak
  - Sensitivity: 113 dB, 1 W @ 1 m (3.3 ft)
  - Calculated Maximum SPL: 138 dB @ 1 m (3.3 ft)

**Physical:**
- Enclosure: Vertically trapezoidal with 15° top & bottom angles; birch plywood
- Suspension Attachment: 6 points - 2 each top, bottom & rear; M10 thread pattern
- Finish: Black DuraFlex coating (white optional)
- Grille: Covers front & wraps around both ends of enclosure; Black powder coated 16 gauge perforated steel with black foam backing (white optional)
- Input Connector: Barrier strip & Neutrik Speakon
- Dimensions (H x W x D): 540 mm x 889 mm x 502 mm
  - (21.25 in x 35 in x 19.75 in)
- Net Weight: 56.8 kg (125 lb)

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1 Anechoic sensitivity, within normal bandpass of system or section of system, in free field; does not assume any additional sensitivity gain from boundary loading.

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Application:
The VT4889 Three-Way Line Array Element is designed to deliver high-quality reinforcement of music and speech in a variety of applications including concert audio and corporate A/V presentations of all types.

Key Features:
- Advanced technology components: Neodymium Differential Drive®, neodymium magnet, dual voice coil, Direct Cooled™ cone transducers for low weight and high output
- Industry's smallest, lightest, most powerful 1.5˝ exit, 3˝ diaphragm high-frequency compression driver
- WaveFormer™ units couple to create precision HF vertical slot aperture
- Advanced construction techniques and hybrid materials provide exceptionally rigid, lightweight enclosure construction
- Rugged DuraFlex™ exterior finish; weatherized components
- Integrated S.A.F.E.™ suspension system: premium heat-treated alloys provide rigid, reliable hanging arrays

The above features come together in a line array system with performance advantages offering benefits for both portable system users and fixed-venue installations. The VT4889 combines time-tested acoustical physics with JBL’s innovative transducer research and design in a premium-grade system package. JBL’s Vertec (Vertical Technology) builds on proven line array theory as demonstrated in JBL’s line array systems in the early 1970’s.

The VT4889 is a rugged, lightweight enclosure housing two 15˝ woofers, four 8˝ midrange radiators, and three high-frequency compression drivers. These advanced components provide the highest power-to-weight ratio of any speaker system in its class.

The above features come together in a line array system with performance advantages offering benefits for both portable system users and fixed-venue installations. The VT4889 combines time-tested acoustical physics with JBL’s innovative transducer research and design in a premium-grade system package. JBL’s Vertec (Vertical Technology) builds on proven line array theory as demonstrated in JBL’s line array systems in the early 1970’s.

The VT4889 is a rugged, lightweight enclosure housing two 15˝ woofers, four 8˝ midrange radiators, and three high-frequency compression drivers. These advanced components provide the highest power-to-weight ratio of any speaker system in its class.

Enclosure / Suspension Hardware
- Box Construction: Wedge frustum, 5 degree side angle composite enclosure, DuraFlex finish, 8 handles
- Suspension System: S.A.F.E. hardware, integral hinge bars nest in rigging frames on box ends. Quick release pins with restraining lanyards
- Grille: Separate LF and HF, black, perforated steel. LF grilles foam-backed
- Input Connectors: NL8, 2 each
- Dimensions (H x W x D): 489 mm x 1213 mm x 546 mm (19.25” x 47.75” x 21”)
- Net Weight: 72 kg (159 lbs.) incl. rigging frames & hinge bars
- Shipping Weight: 91 kg (200 lbs.) incl. Dolly, Cover, packaging

Specifications:

<table>
<thead>
<tr>
<th>Line Array Element</th>
<th>Freq. Response (± 3 dB):</th>
<th>45 Hz - 16 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Horizontal Coverage Angle (± 6 dB):</td>
<td>90 deg. nominal, 250 Hz - 16 kHz</td>
</tr>
<tr>
<td></td>
<td>Vertical Coverage Angle (± 6 dB):</td>
<td>Varies with array size and configuration</td>
</tr>
<tr>
<td></td>
<td>Maximum Peak Output:</td>
<td>136 dB to 146 dB @ 1m</td>
</tr>
<tr>
<td>Recommended Signal Processing:</td>
<td>Digital System Controller: dbx 480, BSS 366, XTA 226 also supported</td>
<td></td>
</tr>
</tbody>
</table>

Transducer Sections
- Low Frequency:
  - Nominal Impedance (each driver): 8 ohms, independently wired
  - Input Power Rating: 1200W, AES, system bandpass (600W per driver)
  - Bandpass Sensitivity: 99 dB, 1w/1m (3.3 ft.)
- Mid Frequency:
  - Nominal Impedance (bandpass): 8 ohms, wired series parallel
  - Input Power Rating: 1200W, AES, system bandpass (300W per driver)
  - Bandpass Sensitivity: 102 dB, 1w/1m (3.3 ft.)
- High Frequency:
  - Nominal Impedance (bandpass): 8 ohms, wired series parallel
  - Input Power Rating: 225W, AES, system bandpass (75W per driver)
  - Bandpass Sensitivity: 116 dB, 1w/1m (3.3 ft.)

Enclosure / Suspension Hardware
- Box Construction: Wedge frustum, 5 degree side angle composite enclosure, DuraFlex finish, 8 handles
- Suspension System: S.A.F.E. hardware, integral hinge bars nest in rigging frames on box ends. Quick release pins with restraining lanyards
- Grille: Separate LF and HF, black, perforated steel. LF grilles foam-backed
- Input Connectors: NL8, 2 each
- Dimensions (H x W x D): 489 mm x 1213 mm x 546 mm (19.25” x 47.75” x 21”)
- Net Weight: 72 kg (159 lbs.) incl. rigging frames & hinge bars
- Shipping Weight: 91 kg (200 lbs.) incl. Dolly, Cover, packaging
Midsize Tri-Amplified
Three-Way High Directivity
Line Array Element

VerTEC™ Series

Application:
The VT4888 Three-Way Line Array Element is designed to deliver high-quality reinforcement of music and speech in a variety of applications including concert audio and corporate A/V presentations of all types for both portable users and fixed venue installations.

Key Features:
- Advanced technology components: Neodymium Differential Drive®, neodymium magnet, dual voice coil
- Direct Cooled™ cone transducers for low weight and high output
- Waveguide units couple to create precision HF vertical slot aperture
- Radiation Boundary Integrator® (RBI): Patented technology integrates output of individual bandpass elements
- Advanced construction techniques and hybrid materials provide exceptionally rigid, lightweight enclosure construction
- Rugged Duraflex™ exterior finish; weatherized components
- Integrated S.A.F.E.™ suspension system: premium heat-treated alloys provide rigid, reliable hanging arrays
- Pre-engineered to accept optional amplified electronics package. Rear-panel mechanical attachments and electrical connections ensure upgrade path for DrivePack™ self-powered system modules with integral signal processing
- For use in stand-alone arrays or in combination with other VäTiC system products

The VT4888 is a rugged, lightweight enclosure housing two 12” woofers, four 5” midrange radiators, and two high frequency compression drivers. Advanced components provide the highest power-to-weight ratio of any speaker system in its class.

Enclosure features foam-backed low frequency grilles, dense protective foam inserts for midrange apertures, and fine steel mesh grille to protect high-frequency apertures. Speaker cones are treated with weather-resistant compounds. Rigging tubes made of hard-black anodized 6061-T6 Aluminum. Hinge bars made from premium-grade chromoly alloy steel, with epoxy powder coating over zinc-plated surfaces. Cadmium-plated hinge pins and stainless steel quick-release pin lanyards to resist corrosion and weather damage.

VäTiC arrays are rigid for maximum support strength, yet flexible in design and application. The VT4888’s suspension hardware relies on quick-release pins and end-mounted metal tubes to couple adjacent VT4888’s together. Enclosure ships with integral front and rear hinge bar set. Protective grille cover/wheel board and soft cover to ensure handy transport for rough road conditions, purchased separately as VT4888-ACC.

Specifications:

<table>
<thead>
<tr>
<th>Line Array Element</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Response (±3 dB):</strong> 60 Hz – 16 kHz</td>
</tr>
<tr>
<td><strong>Frequency Range (-10 dB):</strong> 48 Hz – 18 kHz</td>
</tr>
<tr>
<td><strong>Horizontal Coverage:</strong> 90 deg. nominal (250 Hz – 16 kHz)</td>
</tr>
<tr>
<td><strong>Vertical Coverage:</strong> Angle (-6 dB)</td>
</tr>
<tr>
<td><strong>Max. Peak Output:</strong> 136 dB to 146 dB, 1m frequency/bandpass dependent</td>
</tr>
<tr>
<td><strong>Recommended Signal Processing:</strong> dbx 480, BSS 866, XTA 226 supported</td>
</tr>
</tbody>
</table>

**Transducer Sections**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Low Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bandpass Nominal Impedance</td>
<td>8 ohms each driver (each LF woofer individually wired)</td>
</tr>
<tr>
<td>Input Power Rating</td>
<td>200 W (1800 W peak) 4 hours</td>
</tr>
<tr>
<td>Bandpass Sensitivity</td>
<td>98 dB, 1 W, @ 1m (3.5 ft)</td>
</tr>
<tr>
<td>Mid Frequency</td>
<td>2100WPL, 50 mm (2 in) dia, voice coil</td>
</tr>
<tr>
<td>Bandpass Nominal Impedance</td>
<td>8 ohms (drivers wired series-parallel)</td>
</tr>
<tr>
<td>Input Power Rating</td>
<td>600 W (2400 W peak) 2 hours</td>
</tr>
<tr>
<td>Bandpass Sensitivity</td>
<td>102 dB, 1 W, @ 1m (3.5 ft)</td>
</tr>
<tr>
<td>High Frequency</td>
<td>2454H, 76 mm (3 in) aluminum diaphragm, 38 mm (1.5 in) throat diameter Neodymium drivers</td>
</tr>
<tr>
<td>Bandpass Nominal Impedance</td>
<td>16 ohm (drivers wired in series)</td>
</tr>
<tr>
<td>Input Power Rating</td>
<td>150 W (600 W peak)</td>
</tr>
<tr>
<td>Bandpass Sensitivity</td>
<td>114 dB, 1 W, @ 1m (3.5 ft)</td>
</tr>
</tbody>
</table>

**Enclosure**

| Box Construction | Wedge front, 5 degree side angle enclosure engineered wood composite structure, Duraflex finish, 6 handles |
| Suspension System | S.A.F.E. hardware, integral hinge bars nest in rigging tubes on box ends. Quick release pins with restraining lanyards |
| Grille | Black perforated steel, foam backed |
| Input Connectors | NLA, 2 each |

**Dimensions (H x W x D):** 355.6 mm x 990.6 mm x 508 mm (14 in x 39 in x 20 in)

**Net Weight:** 49 kg (108 lb)

**Shipping Weight:** 59 kg (130 lb)

1. AES Standard, one decade pink noise with 5 dB crest factor within device’s operational band, free air. Standard AES 2 hr rating, plus long term 100 hr rating are specified for cone transducers.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.
Key Features:
- 90° x 50° Coverage, rotatable for use in either vertical or horizontal orientation.
- Multiple LF Drivers extend pattern control into the LF Band.
- CMCD™ Cone Midrange Compression Driver™ provides low midrange distortion, increased sensitivity, extended bandwidth and improved phase coherency.
- PT™ Progressive Transition™ Waveguide for excellent pattern control with low distortion.
- Bi-Amp/Tri-Amp Switchable.
- Optional planar array frame kit (see AE Series Array Guide).

Applications:
- Performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Live clubs
- Dance-clubs/discotheques
- Sports facilities
- Themed entertainment venues

AM6340/95 is a high power 3-way full-range loudspeaker system comprised of four 250 mm (10 in) LF drivers, one 200 mm (8 in) CMCD Cone Midrange Compression Driver, and one 38 mm (1.5 in) exit/75 mm (3 in) voice-coil HF compression driver. The multi-band PT Progressive Transition mid-high frequency waveguide provides well-controlled 90° by 50° coverage and is rotatable for cabinet positioning in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and well-controlled off-axis response enhances arrayability.

The multiple LF driver design provides off-axis attenuation at the top end of the low frequency band. This model is ideal for use in conjunction with subwoofers for maximum pattern control in an exceptionally wide bandwidth system.

The cabinet is fitted with M10 threaded suspension points. Pre-engineered array bracketry is available.

AM6340/95 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th>Frequency Range (±10 dB)</th>
<th>50 Hz - 19 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frequency Response (±3 dB)</td>
<td>55 Hz - 17 kHz</td>
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<tr>
<td></td>
<td>Coverage Pattern</td>
<td>90° x 50° rotatable waveguide</td>
</tr>
<tr>
<td></td>
<td>Directivity Factor (100 kHz)</td>
<td>10 dB</td>
</tr>
<tr>
<td></td>
<td>Directivity Index (10 kHz)</td>
<td>10 dB</td>
</tr>
<tr>
<td></td>
<td>Crossover Modes</td>
<td>Tri-amp/Tri-amp switchable</td>
</tr>
<tr>
<td></td>
<td>Passive Crossover Slop</td>
<td>MF/HF Section in Bi-amp mode: 4th order (24 dB/oct) Linkwitz-Riley HP &amp; LF 2.1 kHz</td>
</tr>
<tr>
<td></td>
<td>Transducer Power Rating (AES)</td>
<td>LF: 1200 W (4800 W peak) 2 hours 1000 W (4000 W peak) 100 hrs MF: 550 W (1440 W peak) 100 hrs HF: 75 W (300 W peak) 2 hrs</td>
</tr>
<tr>
<td></td>
<td>Long Term System Power Rating (dB)</td>
<td>LF: 1000 W &lt;4000 W peak 100 hrs MF: 300 W (1440 W peak) 100 hrs</td>
</tr>
<tr>
<td></td>
<td>Maximum SPL</td>
<td>LF: 130 dB-SPL cont avg (120 dB peak) Tri-amp mode: 115 dB-SPL cont avg (120 dB peak) HF: 115 dB-SPL cont avg (120 dB peak) Bi-amp mode: 115 dB-SPL cont avg (120 dB peak)</td>
</tr>
<tr>
<td>System Sensitivity of Passive Section (1 kW @ 1 m)</td>
<td>MF/HF Section in Bi-amp mode: 108 dB SPL</td>
<td></td>
</tr>
</tbody>
</table>

Transducers:
- Low Frequency Driver
  - Nominal Impedance: 8 ohms
  - Sensitivity (1W @ 1m, with terminal on) | 99 dB SPL |
- Midrange Driver
  - JBL CMCD™ Cone Midrange Compression Driver with integral 200 mm (8 in) diameter NEXO™ Neodymium Differential Driver™ dual voice-coil neodymium driver
  - Nominal Impedance: 8 ohms
  - Sensitivity (1W @ 1m) | 106 dB SPL |
- High Frequency Driver
  - JBL 2413H, 30 mm (1.25 in) aluminum compression driver, 75 mm (3 in) voice coil
  - Nominal Impedance: 8 ohms
  - Sensitivity (1W @ 1m) | 115 dB SPL |

Enclosure: Trapezoidal with 15 degree side angles, 10 mm (5/8 in) exterior grade 13-ply birch plywood.

Suspension Attachment: 15 points (5 top, 5 bottom, 2 each side, 3 rear), M16 threaded hardware.

Finish: Black Duraplate™, White available upon request.

Grille: Powder coated 14 gauge perforated steel with acoustically transparent black from backing.

Input Connector: 3 x Neutrik Speakon™ and 3 x Speakon® Type 3F-1000M 2 ply 14 gauge speaker cable. Barrier terminal accept up to 5.2 sq mm (19 AWG) wire or max width 9 mm ( 3/8 in) spade lugs. Secured in parallel with harness clip for loop-through.

Environmental Specifications: Meets IEC 810: D-45 per IEC220.

Dimensions (H x W x D in vertical cabinet orientation): 1054 x 901 x 277 mm (41.5 x 35.5 x 11 in)

Net Weight: 57.2 kg (126 lbs)

Optional Accessories: M10 x 35 mm forged shoulder eyebolts with washers

Tri-amp mode with recommended active rating

Resistant engineered acoustical response of crossover network and components.

ABS standard, one decade pink noise with 6 dB crest factor within driver’s operational band, free air. Standard AES 2 hr rating plus long-term with 100% duty cycle. 100 hours. Tapered crossover section rated with IEC standard full bandwidth pink noise with 6 dB crest factor, 100 hours. Actively crossed section IEC standard in cabinet, 100 hrs.

Calculated based on power rating and sensitivity, exclusive of power compression.

Anchors, sensitivity in free field, no additional sensitivity gain from boundary loading.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
AM6215/95 High Power 2-Way Loudspeaker with 1 x 15" LF & Rotatable Horn

Key Features:
- 90° x 50° Coverage, rotatable for use in either vertical or horizontal orientation.
- Large PTM Progressive Transition® Waveguide for excellent pattern control with low distortion.
- Bi-Amp/Passive Switchable.
- Optional U-Bracket for easy installation (see AE Series Bracket Guide).

Applications:
- Performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Live clubs
- Dance-clubs/discoteques
- Sports facilities
- Themed entertainment venues
- Delay/fill locations of larger systems

AM6215/95 is a high power 2-way full-range loudspeaker system comprised of one 380 mm (15 in) VGC™ Vented Gap Cooled low frequency driver and one 38 mm (1.5 in) exit/75 mm (3 in) voice-coil compression driver. The large PT Progressive Transition waveguide provides well-controlled 90° by 50° coverage and is rotatable for cabinet positioning in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and well-controlled off-axis response enhances arrayability.

The cabinet is fitted with M10 threaded suspension points. Optional U-bracket is available for easy installation.

AM6215/95 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

**Physical**
- Enclosure: Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 11-ply birch plywood
- Suspension Attachment: 15 points (4 top, 4 bottom, 2 each side, 3 rear), M10 threaded hardware
- Finish: Black DuraFlex™ finish. White available upon request
- Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing
- Input Connector: NL1 Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5 sq mm (6 AWG) wire or max width 0.5 mm (0.02 in) gauge lugs. Speakon in parallel with barrier strip for keythrough
- Environmental Specifications: Meets IEC 810: IP-X4 per IEC60529
- Dimensions (H x W x D in): 763 x 422 x 304 mm (30 x 16.6 x 12 in)
- Net Weight: 29.7 kg (65 lb)
- Optional Accessories: M10 x 35 mm forged shoulder eyebolts with washers, U-Bracket STU-U

Bi-Amp mode, with recommended active tuning:
- Resultant engineered acoustical response of crossover networks and components.
- AES standard, one decade pink noise with 0 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.
- IECEC standard, full bandwidth pink noise with 0 dB crest factor, 100 hars.
- Calculated based on power rating and sensitivity, exclusive of power compression.
- Shock/impact, sensitivity in free field, no additional sensitivity gain from boundary loading.
- JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
Key Features:
- 90° x 50° Coverage, rotatable for use in either vertical or horizontal orientation.
- Large PTM Progressive Transition™ Waveguide for excellent pattern control with low distortion.
- Bi-Amp/Passive Switchable.
- Optional U-Bracket for easy installation (see AE Series Bracket Guide).

Applications:
- Small performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Sports facilities
- Themed entertainment venues
- Delay/fill locations of larger systems

AM4215/95 is a medium power 2-way full-range loudspeaker system comprised of one 80 mm (15 in) low frequency driver and one 38 mm (1.5 in) exit/38 mm (1.5 in) voice-coil compression driver. The large PTM Progressive Transition waveguide provides well-controlled 90° by 50° coverage and is rotatable for cabinet positioning in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and well-controlled off-axis response enhances arrayability.

The cabinet is fitted with M10 threaded suspension points. Optional U-bracket is available for easy installation.

AM4215/95 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th>Frequency Range (+10 dB)</th>
<th>40 Hz – 20 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frequency Response (+10 dB)</td>
<td>45 Hz – 18 kHz</td>
</tr>
<tr>
<td></td>
<td>Coverage Pattern</td>
<td>90° x 50°, rotatable waveguide</td>
</tr>
<tr>
<td></td>
<td>Directivity Factor (Q)</td>
<td>12.0</td>
</tr>
<tr>
<td></td>
<td>Directivity Index (DF)</td>
<td>12 dB</td>
</tr>
<tr>
<td></td>
<td>Crossover Modes</td>
<td>Bi-amp/Passive switchable</td>
</tr>
<tr>
<td></td>
<td>Passive Crossover Slopes</td>
<td>4th order (24 dB/oct) 4th-order Ritsch HF &amp; LF, 1.5 kHz</td>
</tr>
<tr>
<td></td>
<td>Transducer Power Rating (AES)</td>
<td>40 W (2000 W peak) 2.5 Hz 50 W (1400 W peak) 100 Hz</td>
</tr>
<tr>
<td></td>
<td>Long-Term System Power Rating (REC)</td>
<td>Passive mode 350 W 1400 W peak 150 Hz</td>
</tr>
<tr>
<td></td>
<td>Maximum SPL</td>
<td>Bi-amp mode LF 124 dB SPL, cont avg 130 dB peak</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m)</td>
<td>96 dB SPL</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m, within operational band)</td>
<td>78 dB SPL</td>
</tr>
<tr>
<td></td>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m)</td>
<td>115 dB SPL</td>
</tr>
<tr>
<td></td>
<td>System Sensitivity (1W @ 1m)</td>
<td>97 dB SPL</td>
</tr>
<tr>
<td>Transducers</td>
<td>Low Frequency Driver</td>
<td>1 x JBL 203H (80 mm (15 in) driver with 75 mm (3 in) voice coil)</td>
</tr>
<tr>
<td></td>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m)</td>
<td>97 dB SPL</td>
</tr>
<tr>
<td></td>
<td>High-Frequency Driver</td>
<td>JBL 2974/13A, 30 mm (1.5 in) exit compression driver, 38 mm (1.5 in) voice coil</td>
</tr>
<tr>
<td></td>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m)</td>
<td>115 dB SPL</td>
</tr>
<tr>
<td></td>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td></td>
<td>Sensitivity (1W @ 1m)</td>
<td>97 dB SPL</td>
</tr>
</tbody>
</table>

Physical

| Enclosure | TruPower with 35 degree side angles, 16 mm (5/8 in) exterior grade | 1-ply Finnish birch plywood |
| Suspensions | Attachment | 15 points (4 top, 4 bottom, 2 each side, 3 rear), M10 threaded hardware |
| Finishes | Black Duracell® finish. White available upon request |
| grille | Potters coated 14 gauge perforated steel, with acoustically transparent black foam backing |
| Input Connector | NCA Neutrik Speakon® and CEC-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 6 mm (1/4 in.) spade lugs. Speakon in parallel with barrier strip for loop-through. |
| Environmental Specifications | 50% Mop 140°C per IEC60529 |
| Dimensions (H x W x D) | 783 x 422 x 305 mm (vertical cabinet orientation) |
| Weight | 29.1 kg (64 lb) |
| Options | M10 x 35 mm forged shoulder bolts with washers |

Bi-amp mode: recommended active tuning.

*AE standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.*

*IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.*

*Anchors sensitivity in free field, no additional sensitivity gain from boundary loading.*

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
AM4212/00 2-Way Loudspeaker with 1 x 12" LF

Key Features:
- 100° x 100° Coverage, usable in either vertical or horizontal orientation.
- Large PT™ Progressive Transition™ Waveguide for excellent pattern control with low distortion.
- Bi-Amp/Passive Switchable.
- Optional U-Bracket for easy installation.

Applications:
- Small performing arts facilities
- Houses of worship
- Theatrical sound design
- Auditoriums
- Sports facilities
- Themed entertainment venues

AM4212/00 is a medium power 2-way full-range loudspeaker system comprised of one 300 mm (12 in) low frequency driver and one 38 mm (1.5 in) exit/38 mm (1.5 in) voice-coil compression driver. The large PT Progressive Transition waveguide provides well-controlled wide 100° by 100° coverage in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and well-controlled off-axis response enhances arrayability.

The cabinet is fitted with M10 threaded suspension points. Optional U-bracket is available for easy installation.

AM4212/00 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

System:
- Frequency Range (-6 dB): 55 Hz – 20 kHz
- Frequency Response (-6 dB): 70 Hz – 18 kHz
- Coverage Pattern: 100° x 100°
- Directivity Factor Q: 0.5
- Directivity Index COD: 8 dB
- Crossover Modes: Bi-amp/Passive switchable
- Passive Crossover Slopes: 4th order (24 dB/oct) Linkwitz-Riley HP & LP, 3.5 kHz
- Transducer Power Rating (AES): LF: 400 W (2000 W peak), 2 hrs 300 W (1200 W peak), 100 hrs HP: 85 W (140 W peak), 2 hrs
- Long-Term System Power Rating (IEC): Passive mode: 300 W (1200 W peak), 100 hrs

- Maximum SPL: Bi-amp mode:
  - LF: 120 dB-SPL, cont avg (126 dB peak)
  - HP: 125 dB-SPL, cont avg (131 dB peak)
- Nominal Impedance: 8 ohms

- System Sensitivity (1W @ 1m): Passive mode: 95 dB-SPL

Transducers:
- Low Frequency Driver: 1 x JBL 2024H 300 mm (12 in) driver with 75 mm (3 in) voice coil

- Nominal Impedance: 8 ohms
- Sensitivity (1W @ 1m, within operational Band): 95 dB-SPL

- High Frequency Driver: JBL CE531, 38 mm (1.5 in) exit compression driver, 58 mm (2.3 in) voice coil

- Nominal Impedance: 8 ohms
- Sensitivity (1W @ 1m): 110 dB-SPL

- Waveguide: PT40580

Physical:
- Enclosure: Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 1-ply Finnish birch plywood
- Suspension Attachment: 15 points (4 top, 4 bottom, 2 each side, 3 rear). M10 threaded hardware
- Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing
- Input Connector: Speakon and CE-compliant covered banana strip terminals. Banana terminals accept up to 5.2 sq mm (10 AWG) wire or 0.5 "S" style (0.75 mm) spade lugs. Speakon in parallel with banana strip for loop-through.

- Environmental Specifications: Standard 3.391, IP45 per IEC529
- Dimensions (H x W x D in): 71.4 x 57.1 x 40 in
- Vertical cabinet orientation: (28.3 x 14.6 x 18.1 in)
- Net Weight: 254 kg (66 lbs)
- Optional Accessories: 80 mm x 35 mm forged shoulder eyebolts with washers-U-bracket MTU-3

Bi-amp mode, with recommended active tuning.

AE Sound: One decade pink noise with 6 dB crest factor within device's operational bandwidth, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.

Calculated based on power rating and sensitivity, exclusive of power compression.

Anechoic sensitivity in free field, no additional sensitivity gain from boundary loading.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
AC2215/00 Compact 2-Way Loudspeaker with 1 x 15” LF

Key Features:
- 100° x 100° Coverage.
- PTM Progressive Transition Waveguide for good pattern control with low distortion.
- Bi-Amp/Passive Switchable.
- Optional U-Bracket for easy installation (see AE Series Bracket Guide).

Applications:
- Small performing arts facilities
- Houses of worship
- Theatrical sound design
- Auditoriums
- Sports facilities
- Themed entertainment venues

AC2215/00 is a compact 2-way full-range loudspeaker system comprised of one 580 mm (15 in) low frequency driver and one 38 mm (1.5 in) exit/44 mm (1.75 in) voice-coil compression driver. The PT Progressive Transition waveguide provides wide 100° by 100° coverage. High-slope passive crossovers minimize band overlap. The cabinet is fitted with M10 threaded suspension points. Optional U-bracket is available for easy installation.

AC2215/00 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th>Frequency Range (±10 dB)</th>
<th>42 Hz – 19 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Frequency Driver</td>
<td>1 x JBL M155-8A 580 mm (15 in) driver with 65 mm (2.5 in) voice coil</td>
<td></td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 ohms</td>
<td></td>
</tr>
<tr>
<td>Sensitivity (1 W @ 1 m, within operational band)</td>
<td>97 dB SPL</td>
<td></td>
</tr>
<tr>
<td>Low-Frequency Driver</td>
<td>JBL 2438H-E/MTA, 44 mm (1.75 in) voice coil</td>
<td></td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 ohms</td>
<td></td>
</tr>
<tr>
<td>Sensitivity (1 W @ 1 m)</td>
<td>105 dB SPL</td>
<td></td>
</tr>
<tr>
<td>Waveguide</td>
<td>PT-F1010HF</td>
<td></td>
</tr>
</tbody>
</table>

Physical:
- Enclosure: Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 1-ply Finnish birch plywood
- Suspension: 15 points (4 top, 4 bottom, 2 each side, 3 rear). M10 threaded hardware
- Finish: Black DuraFlex™ finish. White available upon request
- Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing
- Input Connector: NL4 Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (.357 in) spade lugs. Speakon in parallel with barrier strip for loop-through.
- Environmental Specifications: MIL-STD 810G – IPX3 per IEC-529
- Dimensions (H x W x D): 657 x 422 x 504 mm (25.8 x 16.6 x 19.9 in)
- Net Weight: 25.1 kg (55 lb)

Optional Accessories: M10 x 35 mm forged shoulder eyebolts with washers. U-Bracket MTU-2
AC2212/00 Compact 2-Way Loudspeaker with 1 x 12” LF

Key Features:
- 100° x 100° Coverage.
- PT™ Progressive Transition™ Waveguide for good pattern control with low distortion.
- Bi-Amp/Passive Switchable.
- Optional U-Bracket for easy installation.
- Optional planar array frame kit (see AE Series Array Guide).

Applications:
- Lecture halls
- Houses of worship
- Corporate learning centers
- Small performing arts facilities
- Theatrical sound design
- Auditoriums
- Sports facilities
- Themed entertainment venues

AC2212/00 is a compact 2-way full-range loudspeaker system comprised of one 300 mm (12 in) low frequency driver and one 38 mm (1.5 in) exit/44 mm (1.75 in) voice-coil compression driver. The PT Progressive Transition waveguide provides wide 100° by 100° coverage. High-slope passive crossovers minimize hand overlap.

The cabinet is fitted with M10 threaded suspension points. Optional U-bracket, as well as pre-engineered array bracketry is available for easy installation. Four threaded inserts located on back of the enclosure allow attachment of an Omnimount™ or similar mounting bracket.

AC2212/00 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.

Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (-10 dB)</td>
<td>LF: 50 Hz – 19 kHz</td>
</tr>
<tr>
<td>Frequency Response (0 dB)</td>
<td>HF: 250 Hz – 10800 Hz</td>
</tr>
<tr>
<td>Coverage Pattern</td>
<td>100° x 100°</td>
</tr>
<tr>
<td>Directivity Factor (0o)</td>
<td>7.1</td>
</tr>
<tr>
<td>Directivity Index (1o)</td>
<td>8.5 dB</td>
</tr>
<tr>
<td>Crossover Modes</td>
<td>Bi-Amp/Passive switchable</td>
</tr>
<tr>
<td>Passive Crossover Slopes</td>
<td>4th order 12 dB/octransitional HP &amp; LP 1.5 kHz</td>
</tr>
<tr>
<td>Transducer Power Rating</td>
<td>LF: 500 W (1100 W peak), 2 hrs</td>
</tr>
<tr>
<td>Long-Term System Power Rating</td>
<td>HF: 50 W (200 W peak), 2 hrs</td>
</tr>
<tr>
<td>Maximum SPL</td>
<td>Passive: 125 W (1000 W peak), 100 hrs</td>
</tr>
<tr>
<td>System Sensitivity</td>
<td>95 dB SPL</td>
</tr>
</tbody>
</table>

Transducers:

| Low Frequency Driver | 1 x JBL M1212-8 300 mm (12 in) driver with 65 mm (2.5 in) voice coil |
| Nominal Impedance | 8 ohms |
| Sensitivity (1W @ 1m) | 95 dB SPL |
| High Frequency Driver | JBL 2188L1-52A, 38 mm (1.5 in) exit compression driver, 41 mm (1.75 in) voice coil |
| Nominal Impedance | 8 ohms |
| Sensitivity (1W @ 1m) | 109 dB SPL |
| Wavelength | PT-1010BF |

Physical:

| Enclosure | Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 11-ply Finnish birch plywood |
| Suspension Attachment | 15 points (4 top, 4 bottom, 2 each side, 3 rear), M10 threaded hardware, 4 x 4, on rear for Omnimount® 100 Series |
| Finish | Black DuraFlex® finish. White available upon request |
| Grille | Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing |
| Input Connector | Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (0.35 in) spade lugs. Speaker in parallel with barrier strip for loop-through |
| Environmental Specifications | MIL-Std 810, IP-4X per IEC529 |
| Dimensions (H x W x D) | 495 x 575 x 452 mm (20 x 22.6 x 17.8 in) |
| Net Weight | 91.7 kg (202 lb) |

Optional Accessories:
- M10 x 55 mm forged shoulder eyebolts with washers U-Bracket MP1-U
- Optional planar array frame kit. See AE Series Bracket Guide

Bi-Amp mode, with recommended active equalization.

Resultant engineered acoustic response of crossover network and components.

AES standard, one decade pink noise with 0 dB crest factor within device’s operational band, for air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

IEC standard, full bandwidth pink noise with 0 dB crest factor, 100 hours.

Calculated based on power rating and sensitivity, exclusive of power compression.

Acoustic sensitivity in free field, no additional sensitivity gain from boundary loading.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are expressions of that philosophy.
Key Features:

- 1 x 18" 2242H SVG™ Driver.
- Designed to be used singly or in multiples (2 minimum, 4 optimum) with proximity placement or with proper boundary surface loading.
- Maximum low frequency output & sensitivity.
- Excellent “punch” with true sub-bass extension.

Applications:

- Performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Live clubs
- Dance-clubs/discotheques
- Sport facilities
- Themed entertainment venues

ASH6118 is a high power horn-loaded subwoofer system comprised of one 460 mm (18 in) SVG Super Vented Gap low frequency driver. The slow-expansion internal folded horn provides maximum sensitivity, output level and subwoofer impact.

ASH6118 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of applications.

Specifications:

System:

| Frequency Range (±3 dB) | 1 cabinet: 25 Hz – 250 Hz |
| 2 cabinets: 24 Hz – 250 Hz |
| 4 cabinets: 22 Hz – 250 Hz |

| Frequency Response (±3 dB) | 1 cabinet: 30 Hz – 200 Hz |
| 2 cabinets: 28 Hz – 200 Hz |
| 4 cabinets: 26 Hz – 200 Hz |

| Transducer Power Rating (AES)* | 1 cabinet: 1200 W (4800 W peak), 2 hrs, 800 W (5200 W peak), 100 hrs |
| 2 cabinets: 2400 W (9600 W peak), 2 hrs, 1600 W (6400 W peak), 100 hrs |
| 4 cabinets: 4800 W (19200 W peak), 2 hrs, 3200 W (12800 W peak), 100 hrs |

| Long-Term System Power Rating | 1 cabinet: 800 W (3200 W peak), 100 hrs |
| 2 cabinets: 1600 W (6400 W peak), 100 hrs |
| 4 cabinets: 3200 W (12800 W peak), 100 hrs |

| Maximum SPL | 50 Hz – 140 Hz |
| 1 cabinet: 115 dB-SPL cont avg (135 dB peak) |
| 2 cabinets: 116 dB-SPL cont avg (134 dB peak) |
| 4 cabinets: 114 dB-SPL cont avg (130 dB peak) |

| System Sensitivity (dB-SPL, 1W @ 1m) | 50 Hz – 190 Hz |
| 1 cabinet: 102 dB |
| 2 cabinets: 104 dB |
| 4 cabinets: 107 dB |

| Nominal Impedance | 8 ohms per cabinet |

Transducers:

| Low Frequency Driver | Per cabinet: 1 x JBL 2242H 460 mm (18 in) SVG™ driver with 100 mm (4 in) voice coil |

Physical:

| Enclosure | Rectangular cabinet, 18 mm (3/4 in) exterior grade 15-ply birch plywood |
| Suspension Attachment | None |

| Finish | Black Duralax™ finish. White available upon request |
| Input Connector | NL4 Neutrik Speaker® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (0.35 in) spade lugs. Speaker in parallel with barrier strip for loop-through |

Environmental Specifications:

| Dimensions (H x W x D) in horizontal cabinet orientation | 564 x 1550 x 1298 mm |
| Net Weight | 159.3 kg (351 lb) |

*AES standard, one decade pink noise with 6 dB crest factor within device’s operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers. |

*AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating. |

*Calculated based on power rating and sensitivity, exclusive of power compression. |

*Half-space (2m) loading, averaged in specified frequency band. |

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
Key Features:
- 2 x 18" 2258H NDD™ Neodymium Differential Drive® drivers in a folded baffle "V"-configuration.
- Driver motor structures outward for maximum cooling.
- Large vent area for high output with low distortion.
- Parallel/Discrete Switchable.
- Arrays with certain AE Series full-range models (see AE Series Array Guide).

Applications
- Performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Live clubs
- Dance-clubs/discotheques
- Sports facilities
- Themed entertainment venues

ASB6128V is a high power subwoofer system comprised of two 460 mm (18 in) NDD Neodymium Differential Drive low frequency drivers in "V"-loaded configuration. The compact cabinet provides a common height with some of the AE Series full-range loudspeaker models, for easy arrayability of multiple cabinets with the subwoofer in the center. The "V"-loaded baffle provides additional sensitivity in the deep-bass region as well as tighter clustering of drivers for better mutual coupling in arrays. A deep cabinet design allows sufficient internal volume for extended low frequency bandwidth with minimum frontal profile. The rectangular cabinet is fitted with M10 threaded suspension points. Pre-engineered array bracketry is available.

ASB6128V is part of JBL's AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of applications.

Specifications:

System:
- Frequency Range (-10 dB): 22 Hz - 300 Hz
- Frequency Response (-3 dB): 25 Hz - 300 Hz
- Input Mode: Drivers Parallel / Drivers Discrete
- Transducer Power Rating (AES): 2400 W @600 W peak, 2 hrs
- Long-Term System Power Rating: 1600 W @600 W peak, 100 hrs
- Maximum SPL: 132 dB-SPL cont. avg (138 dB peak)
- System Sensitivity (dB-SPL, 1W @ 1m): 80 Hz - 200 Hz, 132 dB
- Nominal Impedance: 4 ohms in parallel-drive mode
- 2 x 8 ohms in discrete-drive mode

Transducers:
- Low Frequency Driver: 2 x JBL 2258H 460 mm (18 in) NDD Neodymium Differential Drive transducers with dual 75 mm (3 in) voice coil

Physical:
- Enclosure: Rectangular cabinet, 16 mm (0.6 in) exterior grade 11-ply finish birch plywood
- Suspension Attachment: 13 points (3 top, 3 bottom, 2 each side, 3 rear), M10 threaded hardware
- Finish: Black Duraflex® finish, White available upon request
- Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing
- Input Connector: NL4 Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5 sq mm (1 AWG) wire or max width 9 mm (0.375 in) spade lugs. Speakon in parallel with barrier strip for loop-through.

Environmental Specifications:
- Dimensions (H x W x D in vertical cabinet orientation): 967 x 561 x 1215 mm (38.1 x 22.1 x 47.9 in)
- Net Weight: 89.8 kg (198 lbs)

Optional Accessories:
- M10 x 35 mm forged shoulder eyebolts with washers
- Optional planar array frame kit. See AE Series Bracket Guide

AES standard, one decade pink noise with 6 dB crest factor within device's operational band; free air, standard AES 2 hr rating plus long-term 100 hr rating.

AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

Calculated based on power rating and sensitivity, exclusive of power compression.

Half-space (1/2) loading, averaged in specified frequency band.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
Key Features:
- 2 x 18" 2242H SVG™ Driver.
- Large vent area for high output with low distortion.
- Parallel/Discrete Switchable input mode.
- Arrays with various AE Series models (see AE Series Array Guide).

Applications:
- Performing arts facilities
- Theatrical sound design
- Auditoriums
- Houses of worship
- Live clubs
- Dance-clubs/discotheques
- Sport facilities
- Themed entertainment venues

ASB6128 is a high power subwoofer system comprised of two 460 mm (18 in) SVG Super Vented Gap low frequency drivers in a front-loaded, vented configuration. The deep cabinet allows for extended low frequency bandwidth with minimum frontal profile. The rectangular cabinet is fitted with M10 threaded suspension points. Pre-engineered array bracketry is available.

ASB6128 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of applications.

<table>
<thead>
<tr>
<th>Specifications:</th>
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</thead>
<tbody>
<tr>
<td><strong>System:</strong></td>
</tr>
<tr>
<td>Frequency Range (±3 dB): 28 Hz – 1 kHz</td>
</tr>
<tr>
<td>Frequency Response (±3 dB): 35 Hz – 1 kHz</td>
</tr>
<tr>
<td>Input Modes: Drivers Parallel / Drivers Discrete</td>
</tr>
<tr>
<td>Transducer Power Rating (AES):</td>
</tr>
<tr>
<td>1500 W (600 W peak), 60 Hz</td>
</tr>
<tr>
<td>1000 W (400 W peak), 100 Hz</td>
</tr>
<tr>
<td>Long-Term System Power Rating:</td>
</tr>
<tr>
<td>50 Hz – 100 Hz: 150 dB-SPL cont avg (142 dB peak)</td>
</tr>
<tr>
<td>100 Hz – 500 Hz: 130 dB-SPL cont avg (142 dB peak)</td>
</tr>
<tr>
<td><strong>Transducers:</strong></td>
</tr>
<tr>
<td>Low Frequency Driver: 2 x JBL 2242H 460 mm (18 in) SVG™ drivers with 100 mm (4 in) voice coil</td>
</tr>
</tbody>
</table>

| **Physical:** |
| Enclosure: Rectangular cabinet, 16 mm (5/8 in) exterior grade 11-ply Finnish birch plywood |
| Suspension Attachment: 12 points (5 top, 3 bottom, 2 each side, 2 rear), M10 threaded hardware |
| Finish: Black Duralux™ finish. White available upon request |
| Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing. |
| Input Connector: NL4 Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (.35 in) spade lugs. Speakon in parallel with barrier strip for loop-through. |
| Environmental Specifications: |
| Dimensions (H x W x D in) 1094 x 561 x 810 mm |
| Vertical cabinet orientation: 45.1 x 22.1 x 32.2 in |
| Net Weight: 75.0 kg (165 lb) |
| Optional Accessories: M10 x 35 mm forged shoulder eyebolts with washers. Optional flange armz frame kit. See AE Series Bracket Guide |

*AES standard, one decade pink noise with 6 dB crest factor within device’s operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers. |
*Calculated based on power rating and sensitivity, exclusive of power compression.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
AL6125 High Power Dual 15”
Low Frequency Loudspeaker

Key Features:
► 2 x 15” 226H VGC™ Driver.
► Large vent area for high output with low distortion.
► Parallel/Discrete Switchable input mode.

Applications:
► Performing arts facilities
► Theatrical sound design
► Auditoriums
► Houses of worship
► Live clubs
► Dance-clubs/discotheques
► Sports facilities
► Themed entertainment venues

AL6125 is a high power, low frequency loudspeaker system comprised of two 380 mm (15 in) VGC™ Vented Gap Cooled low frequency drivers in a front-loaded, vented configuration. The rectangular cabinet is fitted with M10 threaded suspension points.

AL6125 is part of JBL’s AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of applications.

Specifications:

System:
- Frequency Range (-10 dB): 40 Hz – 2.5 kHz
- Frequency Response (±3 dB): 42 Hz – 2.1 kHz
- Input Modes: Drivers Parallel / Drivers Discrete
- Transducer Power Rating (AES): 2000 W (4800 W peak), 2 hrs
- Long-Term System Power Rating: 1200 W (4800 W peak), 100 hrs
- Maximum SPL: 125 Hz – 125 Hz: 130 dB SPL, cont avg (125 dB peak)
  125 Hz – 800 Hz: 129 dB SPL, cont avg (135 dB peak)
- System Sensitivity (dB-SPL, 1W @ 1m):
  50 Hz – 125 Hz: 103 dB
  125 Hz – 900 Hz: 102 dB
- Nominal Impedance: 4 ohms in parallel-drive mode
- 2 x 8 ohms in discrete drive mode

Transducers:
- Low Frequency Driver: 2 x JBL 226H 380 mm (15 in) VGC™ drivers with 100 mm (4 in) voice coil

Physical:
- Enclosure: Rectangular cabinet, 16 mm (5/8 in) exterior grade 31-ply Finnish birch plywood
- Suspension Attachment: 12 points (3 top, 3 bottom, 2 each side, 2 rear), M10 threaded hardware
- Finish: Black Duraflex™ finish. White available upon request
- Grille: Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing
- Input Connector: NL4 Neutrik Speakon™ and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (3/8 in) spade lugs. Speakon in parallel with barrier strip for loop-through.

Environmental Specifications:
- MB-8d 80° LP-85 per IEC529
- Dimensions: H x W x D in
  - 96.5 x 42.2 x 30.4 in
- Net Weight: 41.5 kg (91 lb)

Optional Accessories: M10 x 35 mm forged shoulder eyebolts with washers.

AES standard, one decade pink noise with 6 dB crest factor within device’s operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

Calculated based on power rating and sensitivity, exclusive of power compression.

Half-space (2x) loading, averaged in specified frequency band.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
CBT4

Dedicated Dance Club Design
Ultra-High Frequency Array
360 Degree Coverage

Key Features:
- PT (Progressive Transition®) High Frequency Waveguide Design
- Four 2407H Neodymium magnet, 1.75" diaphragm ring-radiator compression drivers
- Unique enclosure geometry allows coverage of the entire dance floor from a single point

The CBT4 is a premier member of JBL’s purpose-designed dance club family of products. Designed with a specific mission in mind: cover the entire dance floor with smooth, clean and extended high frequency energy from one central overhead position.

The CBT4 improves upon the performance of traditional “bullet tweeter” arrays through the use of a true compression driver, the 2407H, and JBL’s latest generation PT waveguides. The leading edge design of the 2407H, incorporating a rare earth Neodymium magnet structure and a center-clamped titanium diaphragm offers more high frequency output than pre-existing designs plus lower distortion and higher power handling. The broad, smooth coverage pattern of the PT waveguides serves to spread all of these extreme highs evenly about the room.

CBT4 is intended to be suspended overhead. The compact, low profile pyramidal enclosure allows for sufficient headroom even in low-ceiling applications.

CBT4 requires the use of an active crossover. BSS Soundweb, dbx Driverack or similar digital controller are required for optimum performance.

The CBT4 is built when ordered. Contact your local sales representative for information on lead time.

Specifications:

System:
- Frequency Range (-10 dB): 2 kHz - 23 kHz
- Frequency Response (±3 dB): 2.7 kHz - 20 kHz
- Horizontal Coverage Angle (-6 dB): 360°
- Vertical Coverage Angle (-6 dB): 50°

Transducers:
- High Frequency: 4x 2407H; 44.5 mm (1.75 in) diaphragm and voicecoil, 25 mm (1 in) throat
- Nominal Impedance: 8 Ohms
- Input Power Rating: 200 Watts AES; 800 W Peak
- Sensitivity: 113 dB, 1 W @ 1 m (3.3 ft)
- Calculated Maximum SPL: 142 dB @ 1 m (3.3 ft)

Physical:
- Enclosure: 16mm (5/8") Finnish birch plywood; truncated pyramidal shape
- Suspension Attachment: 4 points - located on top of enclosure; M10 thread pattern
- Finish: Black DuraFlex coating (white optional)
- Grille: None
- Input Connector: Barrier strip & Neutrik NL4 Speakon; located on top of enclosure
- Dimensions (H x W x D): 224 mm x 610 mm x 610 mm (8.8 in x 24 in x 24 in)
- Net Weight: 18.2 kg (40 lb)

1 Anechoic sensitivity, within normal bandpass of system or section of system, in free field; does not assume any additional sensitivity gain from boundary loading.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

4/30/03 ATR

Specifications:

3
3
3

8.8
24

Side

Bottom
Application:
Live sound reinforcement, speech, vocals, and music playback in entertainment, A/V, and institutional venues – especially when ease of use, audio quality and portability are important factors.

Amplification, mixing, and monitoring for electronic and electro-acoustic instruments.

Key Features:
- The second generation of one of the most successful and influential professional speaker systems ever.
- 10” Differential Drive® low frequency driver with neodymium magnet for light weight and reduced distortion.
- 1” JBL compression driver with titanium diaphragm and ferro-fluid cooling.
- 125 watt low-frequency and 50 watt high-frequency (bi-amplified) amplifiers – Actual power delivered to the drivers.
- Three inputs. One balanced, mic/line selectable input and one dual-channel, 1/4” TRS phone line-level input.
- Balanced loop/mix output. “Daisy-chain” additional EON speakers or send the mixed output to a mixing console.
- 60° x 90° (nominal) constant directivity horn.
- Thermomaster® Total Thermal Management System®. A single piece, cast-aluminum baffle integrates the woofer frame, horn, and amplifier heat sink. Air movement in the finned ports dissipates heat – no internal or external cooling fans are required.
- Rugged, lightweight, black co-polymer enclosure.
- Integral 35 mm pole mount receptacle with securing thumb screw.
- Multi-angle enclosure for front of house or stage monitor application.
- For more low-frequency power and performance, add the EONSUB G2.

Specifications
Freq. Range (-10 dB): 65 Hz - 18 kHz
Freq. Response (±3 dB): 90 Hz - 16 kHz
Horz. Coverage (-6 dB): 90° Nominal
Vert. Coverage (-6 dB): 60° Nominal
Rated Maximum SPL: 117 dB @ 1 m (3.3 ft)
Dimensions (H x W x D): 493 mm x 356 mm x 307 mm (19.4 in x 14.0 in x 12.1 in.)
Net Weight: 10.4 kg (23 lb)
LF Driver: Integral frame with one 10” (254 mm) driver, neodymium magnet, 1.5” Differential Drive voice coil
HF Driver: JBL 2412 1” compression driver, titanium diaphragm, ferro-fluid cooled.
Amplifier Power LF: 125 watts @ low-frequency driver impedance.
Amplifier Power HF: 50 watts @ high-frequency driver impedance
Input 1 Sensitivity: -48 dBu to 0 dBu for rated output (Mic/Line switch in MIC position)
-6 dBu to +20 dBu for rated output (Mic/Line switch in LINE position)
Input 2 & 3 Sensitivity: -12 dBu to +20 dBu for rated output
Output Level: +26 dBu (max), Loop/Mix switch in MIX position
Crossover Frequency: 2.7 kHz
Loop/Mix Out: XLR/M, balanced
AC Input: 110-230 VAC, 50-60 Hz, 110 watts rating per UI, detachable IEC power cable.
Application:
Live sound reinforcement, speech, vocals, and music playback in entertainment, A/V, and institutional venues - especially when ease of use, audio quality and portability are important factors.

Amplification, mixing, and monitoring for electronic musical instruments.

Key Features:
- The second generation of one of the most successful and influential professional speaker systems ever.
- 15˝ Differential Drive® low-frequency driver with dual neodymium magnet for light weight and reduced distortion.
- 1˝ (throat diameter) JBL compression driver with 1.75˝ titanium diaphragm and ferro-fluid cooling.
- 300 watts low-frequency and 100 watts high-frequency (bi-amplified) - actual power delivered to the drivers.
- Built in 3-input mixer. One balanced mic/line input, two 1/4˝ phone line-level inputs. Two-band equalization.
- Balanced loop-through/mix output. “Daisy-chain” additional EON speakers or send the mixed output to a mixing console.
- 60° x 90° (nominal) constant directivity horn.
- Thermomaster® Total Thermal Management System®. A single piece, cast-aluminum baffle integrates the woofer frame, horn, and amplifier heat sink. Air movement in the finned ports dissipates heat - no internal or external cooling fans are required.
- Rugged, light-weight, black co-polymer enclosure.
- Integral 35 mm pole mount receptacle.
- Multi-angle enclosure for front of house or stage monitor application.
- Tailored dynamic processing protects amplifiers and speakers from being over-driven without producing extreme changes in frequency response as level varies.
- Extended low-frequency performance
Delivers powerful bass down to 39 Hz.

Preliminary Specifications:
- Freq. Range (-10 dB): 39 Hz - 18 kHz
- Freq. Response (+/- 3 dB): 42 Hz - 17 kHz
- Horz. Coverage (+/- 3 dB): 90° Nominal
- Vert. Coverage (+/- 3 dB): 60° Nominal
- Rated Maximum SPL: 129 dB, @ 1 m (3.3 ft)
- Dimensions (H x W x D): 686 mm x 430 mm x 444 mm (27 in x 17 in x 17.5 in.)
- Net Weight: 21 kg (46 lbs.)
- LF Driver: Integral frame with one 15˝ (380 mm) driver, dual neodymium magnet, 2˝ differential drive voice-coil.
- HF Driver: JBL 2418H-1 1˝ (throat diameter) compression driver with 1.75˝ diameter titanium diaphragm. Ferro-fluid cooled.
- Amplifier Power LF: 300 watts @ low-frequency driver impedance.
- Amplifier Power HF: 100 watts @ high-frequency driver impedance.
- Input 1 Sensitivity: -44 dBu to -22 dBu for rated output (Mic/Line switch in MIC position)
- -12 dBu to +20 dBu for rated output (Mic/Line switch in LINE position)
- Input 2 & 3 Sensitivity: -18 dBu to +20 dBu for rated output
- Output Level: +20 dBu (peak), Loop/Mix switch in MIX position
- Audio Connectors:
  - Input 1: XLR/F, balanced
  - Input 2 & 3: 1/4˝ Phone, balanced (TRS)
- Crossover Freq: 1.5 kHz
- Limiting: Low frequency amplifier controlled by dynamic filter
- Loop/Mix Out: XLR/M, balanced
- EQ: High Frequency Shelving, +15 dB @ 5 kHz
- Low Frequency Shelving, +15 dB @ 120 Hz
- AC Input: 110 - 230 VAC, 50 - 60 Hz, 175 watts rating per UL, detachable IEC power cable
Professional Series

Key Features:
- Extended bandwidth, extremely smooth frequency response.
- Fully outdoor-capable design, featuring WeatherMax®.
- 120° x 110° HF coverage.
- 150 Watt transformer for 70V or 100V lines, with 8Ω thru.
- SonicGuard® overload protection
- 250 mm (10 in) fiberglass/Kevlar® cone LF woofer, with neodymium magnet coaxial 125 mm (5 in) anodized aluminum cone MB, and 25 mm (1 in) titanium diaphragm compression driver.
- Includes InvisiBall® mounting hardware, plus ten 6 mm attachment points for suspension and optional U-bracket.
- Sealed input panel cover and screw-down input terminals.

Applications
The Control 30 utilizes high power components, computer-optimized horn and coaxial component design, patent-pending cabinet manufacturing techniques, and a complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled, defined coverage from a compact loudspeaker.

A symmetrical mid-high frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and cone-midrange performance ensures excellent sound character throughout the frequency band, over the entire listening area.

The top-quality line distribution transformer, designed for minimal insertion loss and reduced saturation, allows use of either 70V or 100V distributed speaker lines. In bypass position, the 8Ω impedance allows use of multiple speakers on a loudspeaker line.

The included InvisiBall mounting system is simple to install, aims easily and provides a high degree of theft deterrence. InvisiBall allows horizontal rotation of up to 41° off-axis and vertical rotation of up to 36° (horn end inward) or 25° (woofer end inward). Attachment points for the optional MTC-30UB (-WH) U-bracket allows for compact installation and is particularly useful for low profile under-balcony applications.

Weather resistance has been maximized. The neodymium magnet LF woofer has a fiberglass and Kevlar composite cone, the surround is pure butyl rubber, and the basket is rear loaded to minimize exposure. The MB cone of the coaxial mid-high driver is anodized aluminum with a formulation EPDM rubber surround, and the HF compression driver's diaphragm is pure titanium.

The coaxial component is protected by an acoustically transparent screen. The grille is thermost composite coated and stands up very well to UV as well as humidity. The grille is backed with our WeatherMax multi-layer foam, which prevents the direct incursion of water. Nickel/zinc rust-resistant terminals ensure a secure input connection. An MTC-PC2 sealed-entrance cover is included to further protect the speaker's terminals.

JBL's exclusive SonicGuard overload protection is virtually inaudible to the listener, ensuring reliability while providing full fidelity sound.

Available in black or white (-WH), the cabinet will accept a variety of paints to match any decor.

Specifications:

<table>
<thead>
<tr>
<th>Frequency Range (Ω)</th>
<th>30 Hz - 10 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response (± 3 dB)</td>
<td>40 Hz - 10 kHz</td>
</tr>
<tr>
<td>100 Hz Power Capacity</td>
<td>50 Watts Continuous Program Power</td>
</tr>
<tr>
<td>Maximum SPL (dB)</td>
<td>123 dB Low, 117 dB High</td>
</tr>
<tr>
<td>Nominal Sensitivity</td>
<td>95 dB, 1W @ 1m (3.5 ft)</td>
</tr>
<tr>
<td>Nominal Coverage Angle</td>
<td>120° H x 110° V</td>
</tr>
<tr>
<td>Directivity Factor (Ω)</td>
<td>5.2, averaged 500 Hz to 10 kHz</td>
</tr>
<tr>
<td>Directivity Index (Ω)</td>
<td>2485, averaged 500 Hz to 10 kHz</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Crossover Type</td>
<td>3rd order Low Pass, 2nd order High Pass, 3rd order Low Pass MP, 3rd order High Pass, HF plus conjugate shaping crossover</td>
</tr>
<tr>
<td>Transformer Taps</td>
<td>70V, 150V, 70W, 100W, 150W, 75W, 30W</td>
</tr>
<tr>
<td>Tweeter Position</td>
<td>4Ω nominal</td>
</tr>
</tbody>
</table>

Recommended High Pass: See Chart

Transducers:
- Low Frequency: 250 mm (10 in) fiberglass/Kevlar® cone with pure butyl rubber surround, 50 mm (2 in) voice coil on fiberglass former, neodymium magnet
- Mid Frequency: 125 mm (5 in) anodized aluminum cone with EPDM rubber (TPE-4016) surround, 25 mm (1 in) voice coil on fiberglass former
- High Frequency: 19 mm (0.75 in) compression driver, pure titanium diaphragm with patented JBL diamond surround

Physical
- Enclosure Material: High-Impact Polypropylene (HIPS) with 10% glass fiber plus patented internal 5 mm framed polyethylene secondary mold
- Grille: Thermoset composite coated steel, WeatherMax multi-layer foam
- Overload Protection: SonicGuard full range power limiting to protect network and transducers
- Environmental: ELS 92-11-95 rating, exceeds Mil Spec 810 for humidity, salt spray, temperature & UV, Rasmus Mil Std 202F for salt spray
- Termination: Screw-down terminal strip, zinc-plated copper base, nickel plated metal screws/washers. Accepts up to 9 mm inside x 1 mm inside open lug (66, 68, or #10 lug), plus bare wire (up to 0.24 AWG, 2.5 mm²).
- Safety Agency Rating: Transformers: UL UL607
- Color: Black or white (-WH)
- Dimensions (H x W x D): 917 x 772 x 635 mm (32.3 x 14.5 x 25.5 in)
- Weight (Ω): 64.9 kg (143 lbs)
- Shipping Weight (Ω): 88.3 kg (194 lbs)
- Included Accessories: 1 pc MTC-PC2 input panel cover, InvisiBall mounting base, 6 mm x 605 mm InvisiBall HF wrench
- Optional Accessories: MTC-30UB (-WH) U-bracket, MTC-30UB (-WH) U-bracket to mount speaker down from the ceiling

In Half Space
- Continuous Pink Noise rating in IEC-shape pink noise with a 6-dB crest factor for 100 hours continuously. Continuous Program Power is defined as 3 dB below the Continuous Pink Noise Rating and is a conservative expression of the system's ability to handle normal speech and music program material.
- Calculated from sensitivity and power handling, exclusive of power compression.
- Half-space, averaged 100 Hz to 10 kHz

JBL continuously engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

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JBL's exclusive SonicGuard™ overload protection, ensuring reliability while providing full fidelity sound.

Key Features:
- Extended bandwidth, extremely smooth frequency response.
- 110° x 85° HF coverage, rotatable horn.
- 110 Watt transformer for 70V or 100V lines, with 8Ω thru.
- SonicGuard™ overload protection.
- 200 mm (8") Kevlar cone woofer, 25 mm (1") titanium diaphragm compression driver.
- Includes InvisiBall™ mounting hardware, plus ten 6 mm attachment points for suspension and optional U-bracket.
- Sealed input panel cover and screw-down input terminals.

The Control® 29AV utilizes high power components, computer optimized horn and cabinet design and complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker.

A rotatable high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Partial magnetic shielding allows use of the speaker as close as 230 mm (9") to video monitors.

The top-quality line distribution transformer, designed for minimal insertion loss and reduced saturation, allows use of either 70V or 100V distributed speaker lines. In bypass position, the high 8Ω impedance allows use of multiple speakers on a loudspeaker line.

The included InvisiBall mounting method is simple to install, aims easily and provides a high degree of theft deterrence. InvisiBall allows horizontal rotation of up to 410° off-axis and vertical rotation of up to 50° (horn end inward) or 25° (woofer end inward). Attachment points for the optional MTC-29UB U-bracket allows for compact installation and is particularly useful for low profile underbalcony applications.

Weather resistance has been maximized. The woofer's cone is made of kevlar, surround is pure butyl rubber, and the driver basket is rear loaded to minimize direct exposure. The compression driver's diaphragm is pure titanium. The grille is thermost composite coated and comes with foam to minimize incursion of water. Nickel/zinc rust-resistant terminals ensure a secure input connection. An MTC-PC2 sealed-entrance cover is included to further protect the speaker's terminals.

Available in black or white (-WH). The cabinet will accept a variety of paints to match any décor.

**Specifications:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (±3 dB)</td>
<td>40 Hz – 19 kHz</td>
</tr>
<tr>
<td>Frequency Response (± 3 dB)</td>
<td>45 Hz – 18 kHz</td>
</tr>
<tr>
<td>100V Power Capacity</td>
<td>200 Watts Continuous Program Power</td>
</tr>
<tr>
<td>Transformer Ratings: Transformer is listed per UL1876.</td>
<td></td>
</tr>
<tr>
<td>Minimum Impedance</td>
<td>6.3 ohms @ 230 Hz</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Frequency Response (±3 dB)</td>
<td>45 Hz – 18 kHz</td>
</tr>
<tr>
<td>Nominal Coverage Angle</td>
<td>110° x 85°, rotatable</td>
</tr>
<tr>
<td>Thru Position</td>
<td>8Ω nominal</td>
</tr>
<tr>
<td>Crossover Type</td>
<td>3rd order High Pass, 2nd order Low Pass with impedance compensation, 2.5 kHz crossover frequency</td>
</tr>
<tr>
<td>Thrush Position</td>
<td>8Ω nominal</td>
</tr>
<tr>
<td>Transformer Ratings:</td>
<td>Transformer is listed per UL1876.</td>
</tr>
</tbody>
</table>
| Environmental: | Passes Mil-Std-202F for salt spray.
| Enclosure Material: | High impact polystyrene |
| Grille: | Thermoset composite coated steel |
| Overload Protection: | Full-range power limiting to protect network and transducers. Serviceable internal fuse to protect during exceptional overload conditions. |
| Terminals: | Screw-down terminal strip, zinc plated copper base, nickel plated metal screws/washers. Accepts up to 9 mm outside 4 mm inside open lug (#6, #8 or #10 lug), plus bare wire (up to 12 AWG/2.5 mm²). |
| Safety Agency Rating: | Transformer is listed per UL1876. |
| Colors: | Black or White (-WH) |
| Dimensions (H x W x D): | 520 x 306 x 277 mm (20.5 x 12.0 x 10.9 in) |
| Weight (ea): | 14.0 kg (30.8 lbs) |
| Accessories: | Includes MTC-PC2 input panel cover, InvisiBall mounting base, 6 mm x 260 mm InvisiBall Hex wrench |
| Optional Accessories: | MTC-29UB to install speaker down from the ceiling |

**Additional Notes:**
- Continuous Pink Noise rating is IE3-shaped pink noise with a 3 dB crest factor for 100 hours continuously. Continuous program power is defined as 3 dB above the Continuous Pink Noise Rating and is a conservative expansion of the system’s ability to handle normal speech and music program material.
- Output power handling: Power compression not considered.
- Weather resistant: IEC 529 IP-X4 splashproof rating. Exceeds MilSpec 810 for humidity, salt spray, temperature & UV.
- JBL continually engages in research related to product improvements. Changes introduced into existing products without notice are an expression of that philosophy.

**Recommended Input Panel Cover: MTC-29CM**

**Physical:**
- Enclosure Material: High impact polystyrene
- Grille: Thermoset composite coated steel
- Overload Protection: Full-range power limiting to protect network and transducers. Serviceable internal fuse to protect during exceptional overload conditions.
- Environmental: Passes Mil-Std-202F for salt spray.
- Terminals: Screw-down terminal strip, zinc plated copper base, nickel plated metal screws/washers. Accepts up to 9 mm outside 4 mm inside open lug (#6, #8 or #10 lug), plus bare wire (up to 12 AWG/2.5 mm²).
- Safety Agency Rating: Transformer is listed per UL1876.
- Colors: Black or White (-WH)
- Dimensions (H x W x D): 520 x 306 x 277 mm (20.5 x 12.0 x 10.9 in)
- Net Weight (ea): 14.0 kg (30.8 lbs)
- Shipping Weight (ea): 14.9 kg (32.8 lbs)
- Included Accessories: MTC-PC2 input panel cover, InvisiBall mounting base, 6 mm x 260 mm InvisiBall Hex wrench
- Optional Accessories: MTC-29UB to install speaker down from the ceiling
The Control® 25AV utilizes a deep cabinet, high power components and complex network to achieve extremely smooth high fidelity performance from a compact 2-way loudspeaker.

Premium performance capability and even coverage ensures excellent sound quality throughout the listening area. Magnetic shielding allows use of the speaker in close proximity to video monitors.

The top-quality transformer, with reduced saturation, allows use on either 70 volt or 10 volt distributed speaker lines, with similar performance fidelity. In the bypass position, the high 8Ω impedance allows use of more speakers on a loudspeaker line.

The unique, global patent pending InvisiBall® mounting method is simple to install, aims easily, and provides a high degree of theft deterrence. The cabinet accepts a variety of paints to match any décor.

The cabinet is painted a stainless steel grille, which is paintable. Coating the woofer in polypropylene and terminating its circumference in JBL’s WeatherEdge®, a seamless, butyl rubber extension of the woofer surround, protects critical transducer elements. The poly carbonate tweeter diaphragm is reinforced with a thin film of titanium for added rigidity and endurance. Nickel/zinc rust-resistant terminals ensure a secure input connection.

JBL’s exclusive SonicGuard overload protection is virtually inaudible to the listener, ensuring reliability while providing full fidelity sound.

The Control 25AV can be used full range or low frequencies can be further augmented with the addition of one of the Control Contractor subwoofer models. Available in black or white (-WH)

### Key Features:
- Video shielded for use near video monitors.
- Extremely smooth frequency response.
- Stainless steel grille for harsh environments.
- 60 Watt transformer for 70V or 100V lines, with 8Ω thru.
- SonicGuard™ overload protection.
- 130 mm (5½”) polypolypropylene coated woofer, 10 mm (³⁄₄”) titanium coated horn-loaded tweeter.
- Includes InvisiBall® mounting hardware and sealed input panel cover.
- Screw-down input terminals.
- 100° x 100° high frequency horn.

### Preliminary Specifications:

<table>
<thead>
<tr>
<th>Frequency Range (-10 dB)</th>
<th>70 Hz - 25 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midrange (±1.5 dB, typical)</td>
<td>120 Hz - 14 kHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>100 Hz Power Capacity</th>
<th>200 Watts Continuous Program Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Coverage</td>
<td>100° x 100°</td>
</tr>
<tr>
<td>Nominal Sensitivity</td>
<td>87 dB SPL, 1W @ 1m (3.3ft)</td>
</tr>
<tr>
<td>Nominal Coverage</td>
<td>100° x 100°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum SPL @ 1m</th>
<th>115 dB continuous pink noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformer Taps</td>
<td>100V: 60W, 30W, 15W taps (Taps #3, #2 &amp; #1)</td>
</tr>
</tbody>
</table>

| Nominal Impedance | 8 ohms |
| Minimum Impedance | 6.7 ohms at 230V |

| Crossover Type | Second Order Lowpass, Second Order Highpass, Complex Optimization for Maximally Flat Response |
| Transformer Taps | 100W, 60W, 30W, 15W taps (Taps @3, @2, & @1) |
| Transformer Taps | Thru position 8Ω nominal |

| Transducers | Low-Frequency: 150 mm (5.9”) polypropylene-coated paper with WeatherEdge® surround, 25 mm (1”) voicecoil on kapton former |
| Transducers | High-Frequency: 20 mm (0.75”) titanium coated PET |

| Physical | Enclosure Material: High Impact polyester |
| Physical | Grille: Painted stainless steel, black or white to match cabinet, paintable |
| Physical | Overload Protection: Full-range power limiting to protect network and transducers. Internal fuse to protect during exceptional overload condition |
| Physical | Environmental: Meets MIL Spec 810 for humidity, salt spray, temperature & UV. IEC 529 IP-X4 splashproof rating |
| Physical | Termination: Screw-down terminal strip, zinc-plated copper base, nickel plated metal screws/washers, accepts up to 9 mm outside 4 mm inside open lug (#6, #8 or #10), plus bare wire. (up to 12 AWG) |
| Physical | Safety Agency Rating: Transformer is listed per UL1876 |
| Physical | Colors: Black or white (-WH) |
| Physical | Rotation: Against wall on InvisiBall Base: 37° vertical 44° horizontal On bracket: 45° all directions |
| Physical | Dimensions (H x W x D): 256 x 186 x 159 mm (9.5 x 7.4 x 6.5”) |
| Physical | Net Weight (ea): 6.0 kg (13 lbs) |
| Physical | Shipping Weight (pair): 12 kg (26 lbs) per pair |
| Physical | Included Accessories: 1 Pr MTC-PC input panel cover, InvisiBall mounting base, 6 mm 8 AWG InvisiBall hex wrench |
| Physical | Optional Accessories: MTC-25V for vertical columnar mounting of up to 5 speakers MTC-25/2H for horizontal splaying of 2 speakers. Three brackets array either 3 or 6 speakers in a hanging array module for 360° horizontal coverage MTC-26/25CM to install speaker down from the ceiling Check JBL Control Contractor Bracket and Adapter Handbook |

- 100° x 100° high frequency horn.
- Screw-down input terminals.
- Stainless steel grille for harsh environments.
- Weather resistance is maximized by a stainless steel grille, which is paintable. Coating the woofer in polypropylene and terminating its circumference in JBL’s WeatherEdge®, a seamless, butyl rubber extension of the woofer surround, protects critical transducer elements. The polycarbonate tweeter diaphragm is reinforced with a thin film of titanium for added rigidity and endurance. Nickel/zinc rust-resistant terminals ensure a secure input connection.

JBL’s exclusive SonicGuard overload protection is virtually inaudible to the listener, ensuring reliability while providing full fidelity sound.

The Control 25AV can be used full range or low frequencies can be further augmented with the addition of one of the Control Contractor subwoofer models. Available in black or white (-WH)
Control® 26C/CT

Background/Foreground Ceiling Speakers

Professional Series

Key Features:

- Coaxially mounted 165 mm (6.5 in) woofer with butyl rubber surround and 19 mm (¾ in) titanium coated diffraction-loaded tweeter
- High power, wide frequency response and low distortion for high sound level capability
- Wide coverage allows fewer speakers, reducing the cost of the installed sound system without sacrificing performance
- JBL's exclusive SonicGuard™ overload protection allows higher operational levels and improved system reliability (26C only)
- Packaged with grille, backcan and tile rails for fast installation and easy dealer stocking

The Control 26C is a compact ceiling speaker providing premium performance in background, foreground music sound systems. The Control 26C is perfectly suited for a wide variety of applications from casinos and hotels to upscale restaurants and themed locations. High power handling, wide frequency response and low distortion make the Control 26C ideal for sound systems requiring a higher fidelity sound from ceiling loudspeakers. The premium performance capability ensures excellent sound character, providing pleasant, enveloping sound throughout the listening area.

The Control 26C's 16 ohm impedance allows use of multiple speakers in parallel without having to use a more expensive constant voltage distributed system. The optional Control 26CT version includes a multatap transformer for 70V/100V systems.

JBL's exclusive SonicGuard overload protection is a non-invasive loudspeaker protection system that is audible to the listener, ensuring reliability while providing full fidelity sound. The computer-optimized ported enclosure delivers warm, smooth bass response. Low frequency output can be further augmented with the addition of one of the Control Contractor subwoofer models.

The 165 mm (6.5 in) woofer features a polyurethane-coated cone and pure butyl-rubber surround for long life, even in high humidity environments. An aluminum voice coil former provides extra cooling for greater long-term power handling.

The coaxially mounted 19 mm (¾ in) titanium coated tweeter provides crisp, clear highs. Diffraction-loading of the tweeter provides wide, even coverage of the listening area. The extremely broad 110° coverage pattern allows for fewer speakers to be used, making for a simpler and less expensive installation.

Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th>Freq. Range (+10 dB):</th>
<th>75 Hz - 20 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power Capacity:</td>
<td>150 Watts Continuous Program Power</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 Watts Continuous Pink Noise</td>
</tr>
<tr>
<td></td>
<td>Nominal Sensitivity:</td>
<td>89 dB SPL, 1' @ 1 m (5.5 ft)</td>
</tr>
<tr>
<td></td>
<td>Nominal Coverage Angle:</td>
<td>110° conical coverage</td>
</tr>
<tr>
<td></td>
<td>Directivity Index (Q):</td>
<td>2.5 averaged 600 Hz - 4 kHz</td>
</tr>
<tr>
<td></td>
<td>Rated Maximum SPL:</td>
<td>107 dB @ 1 m (3.3 ft)</td>
</tr>
<tr>
<td></td>
<td>Nominal Impedance (26C):</td>
<td>16 ohms (Min Z 16.5 Ω @ 290 Hz)</td>
</tr>
</tbody>
</table>

Transformer Taps (26C): 70V, 60W, 40W, 15W & 7.5W taps
100V: 60W, 30W, & 15W taps

Transducers:

- Low-Frequency: 165 mm (6.5 in) Polypropylene-coated, 1" coil on aluminum former
- High-Frequency: 19 mm (¾ in) Titanium coated polyester

Physical:

- Enclosure: Backcan: Formed steel
Buffer/Trim: Medium impact polystyrene, fire rated UL94V-0

Overload Protection: Full-range power limiting to protect network and transducers. (On Control 26C, not on Control 26CT)

Termination: Removable locking connector with screw-down terminals, 2 input terminals and 2 loop-thru output terminals. Max. wire: 14 AWG (2.5 mm²)

Safety Agency Rating: Suitable for use in air handling spaces, per UL-2043, UL-1480, NFPA90A, NFPA70A

Outside Dimensions (H x W x D): 210 x 252 mm (8.3 x 9.9 in)
190 mm (7.5 in) front of ceiling tile to back of backcan

Cutout Size: 220 mm (8.75 in)

Net Weight (ea): 5.4 kg (11.9 lb) CT: 4.2 kg (9 lb)
Shipping Weight (pair): 8.1 kg (18 lb) CT: 6.2 kg (13 lb)

Included Accessories:
- C-shaped support backing plate
- 2 tile support rails (fits both 2 x 4 ft or 600 x 1200 mm tiles)
- Cutout template
- Paint shield
- Removable locking wiring connector

*Half-space (flush mounted in ceiling)
Continuous Program power is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise Rating.
*Half-space (in ceiling), average 100 Hz to 20 kHz
*500 Hz to 4 kHz

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
SMS1 Soundzone® Music System is a complete business music system for background or foreground music applications such as retail stores, restaurants and other businesses. Fully self-contained with four satellite speakers and the SMS1 base station, the system comes complete with power amplification for all speakers, a controller for a music source and for one paging microphone, and a subwoofer for providing full range, clear natural sound.

SMS1 is a quick-install, easy to use system for businesses with up to 2500 square feet. The SMS1 Soundzone Music System delivers full fidelity music and clear paging with audio quality that customers expect from JBL.

**Key Features**

- Premium sound quality
- Extremely easy for end-users to operate
- A complete self-contained system*, including:
  - Four mini satellite loudspeakers
  - One subwoofer
  - Self-powered
  - Advanced system controller
- Built-in controller contains advanced features for business applications:
  - AutoWarmth® (provides full sound at all volumes)
  - LevelGuard™ (keeps music level in check)
  - Connects to optional wallplate for remote control of volume
- Optional Soundzone paging microphone
- Available in Charcoal Grey or white

*Requires a music source

### System Components

**SMS1-Sub**

This subwoofer reproduces the lower frequencies necessary for full range music and audio. The SMS1-Sub contains amplification for the four satellite speakers and for the subwoofer. It also contains the built-in system controller.

**Controller**

The controller built into the SMS1-Sub provides the following features:

- AutoWarmth - Uses patented signal processing to add fullness at lower levels and to reduce boominess at higher volumes, providing optimum sound at all volume levels.
- LevelGuard - Automatically selects the correct amount of sonic compression for best sound quality despite excessive level changes from the music source.
- Page Ducking - Automatically lowers the music when the microphone is in use and smoothly ramps the music back after the page is complete.
- Inputs - The controller allows one music source (such as programmed music, CD player, tuner, or tape player) and one paging microphone. A wide variety of input levels and types are accommodated, including balanced line level (the preferred input, where possible), speaker level, and unbalanced (RCA) line level. [If more than one music source is required, see “Using SMS1 with a Soundzone Controller”, below.]

**SMS1-Sat Speakers**

Four unobtrusive satellite speakers complete the SMS1 system. Each speaker measures just 5¼” x 3½” x 3½” (135 x 84 x 95 mm). The SMS1-Sat speakers are installed easily using JBL’s patented Invisiball® mounting system, which allows for a wide range of adjustment in a unique theft-resistant design.

### Configurations

**SMS1 as a Standalone System**

The primary intended configuration is as a standalone system. SMS1 can provide quality audio for businesses up to 2500 square feet.

**Using SMS1 with a Soundzone Controller**

- For sound systems requiring more than one music source, or requiring more advanced engineered capabilities (such as emergency override, music-on-hold send, music priority automatic override settings, etc.), but not requiring additional SPL capability, the SMS1 system can be used in conjunction with the JBL Z2S or Z21S Soundzone Business Music Controllers.

In such an engineered system, all sources and any control systems should be connected to the Soundzone Controller, with the output of the Controller run to the SMS1 input.

**SMS1 Systems in Multiples**

Multiple SMS1 systems can be utilized to cover larger areas, simply by paralleling the source and mic (if one is used) to the inputs of the two systems. [See note on specification page]
discussing long signal lines.] In addition, multiple SMS1 systems can be driven from the zone output of a Soundzone Business Music Controller to cover larger areas simply by running the output of the Controller to the inputs of the multiple SMS1 systems. If remote volume control by zone is desired, each SMS1 zone has its own remote volume capability.

**SMS1-Sub - By Itself** - The SMS1-Sub can be utilized without the satellite speakers for augmenting the bass capability of a larger JBL Control Contractor in-ceiling or on-wall speaker system. The bass augmentation system can consist of a single SMS1-Sub, if it provides sufficient bass capability, or multiple SMS1-Subs can be utilized for additional bass capability or to cover a larger area.

**Driving Different Satellite Speakers** - The SMS1-Sub can be used to drive different satellite speakers, such as JBL Control 24C/CT Micro In-Ceiling loudspeakers. When doing so, a switch is provided on the input panel to bypass the SMS1-Sat specific EQ curve, thus driving the satellite speakers with an electrically flat audio signal. It is necessary to observe minimum impedance considerations (4 ohm minimum per channel).

**Positioning the SMS1-Sub**

The SMS1-Sub is intended primarily for permanent installation onto a wall. It can also be positioned on a horizontal shelf surface using the included leg brackets. [Note: SMS1-Sub should always be used in an upright position for proper air flow to cool the built-in power amplifier.]

**Boundary Placement vs. Output Level** - Placement on the center of the wall, away from ceiling or other wall will usually result in adequate bass output level. Additional bass level can be attained by placing the SMS1-Sub within 4 feet of the ceiling or another wall. Maximum bass output is attained by installing the SMS1-Sub in the corner junction of two walls and the ceiling (or two walls and the floor).

**Power and Audio Wiring Options**

SMS1-Sub has been designed to accommodate a wide variety of wiring options. Installation and wiring must be implemented in accordance with local building codes and requirements. Following are a few of the installation possibilities:

When SMS1-Sub is permanently installed onto a wall, the cleanest way to route the AC and audio signal wires is through the wall, entering the SMS1-Sub through the back of the unit. AC and audio cables can be kept separated via independent cutouts on the back of the SMS1-Sub’s wallpanel.

**Installing In-Wall Electrical Boxes**

Electrical boxes can be installed into the wall behind the SMS1-Sub prior to installation of the SMS1-Sub. There are recesses in the back of the SMS1-Sub’s wallpanel allowing clearance for wallbox covers, and there are cutouts in the back of the SMS1-Sub’s wallpanel to allow for wire entrance.

**Using Included Internal Boxes** - Power wiring can be run through the wall into the included electrical knockout on the inside of the SMS1-Sub’s wallpanel. Audio can be run into the SMS1 using the second cutout in the SMS1-Sub’s wallpanel.

**Surface Conduit** - For locations requiring cables to be run on the surface of the wall, SMS1-Sub has been designed to accommodate both power and audio cabling to enter via two separate knockouts in the top grille. The internal electrical box is provided for terminating the conduit inside the SMS1-Sub. Alternatively, the installer can choose to install a wallbox of their choosing onto the inside of the SMS1-Sub’s wallpanel to terminate the conduit.

**Ease of Setup & Ease of Use**

SMS1 Complete System - When using SMS1 as a self-contained system, switches are marked with a “normal” position. The end user simply adjusts the music volume and paging volume. Functions such as AutoWarmth and LevelGuard are automatic, and setup controls are protected from tampering. Typically, no special training of end users is required.

**Special Situation Settings:**

SMS1 By Itself - When using the SMS1-Sub by itself to augment another sound system, set the Crossover switch to “80 Hz” to avoid muddy overlap with full-range speakers.

Driving Other Satellite Speakers - When using the SMS1-Sub to drive satellite speakers that are not SMS1-Sats, set the Speaker EQ switch to “off”, bypassing the internal EQ that is specifically set up for SMS1-Sats.

**Included Accessories**

- SMS1-Sub Wallpanel
- SMS1-Sub Internal Electrical Box
- 3 mm wrench for SMS1-Sat Invisiball
- Invisiball Connectors, wire clips

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.
Specifications

POWER CAPABILITY
- SMS1-Sub: 80 Watts Continuous pink noise
  160 Watts Continuous program
  320 Watts peak
- SMS1-Sat: 10 Watts Continuous pink noise (x 4 speakers)
  20 Watts Continuous program (x 4 speakers)
  40 Watts peak (x 4 speakers)
- SPL Capability (1m):
  - SMS1-Sub: 104 dB average, 110 dB peak.
  - SMS1-Sat: 92 dB average, 98 dB peak (x 4 speakers)
- Frequency Range (+10 dB):
  40-16 kHz
- Frequency Response (+3 dB):
  45-13 kHz

INPUT
- Music: (use only one of the following): Pro Line Level Input: +4 dBu nominal, balanced, Euroblock connector
  Consumer Line Level Input: -10 dBV nominal, unbalanced, RCA connector.
  (See Note 1, below if using the Consumer Line Input)
- Speaker Level Input: For low impedance speaker lines or for 70V/100V speaker lines, Euroblock connector
- Microphone: Balanced, Euroblock connector, switchable phantom power for condenser microphones. Band limited 200 Hz - 8 kHz.
- Internal Crossover: 24 dB/oct low-pass to the subwoofer amp/driver.
- Remote Volume Control Jack: RJ45 connector, for standard UTP Category 5 cable. Uses ZR-V remote wallplate.

SETTINGS:
- PROTECTED CONTROLS
  - Subwoofer Polarity: Sets the polarity of the input signals so the bass to the subwoofer adds properly.
    Positions: In Polarity (Normal) or Out of Polarity.
  - Crossover: Sets the crossover frequency of the subwoofer.
    Positions: 160 Hz (Normal) - for normal operation of SMS1 system.
    80 Hz - When using SMS1-Sub to augment the bass of another speaker system, to avoid muddy overlap with fullrange speakers.
  - Bass Trim: Adjusts subwoofer level relative to that of the satellite speakers.
    Control: Variable rotary control
  - AutoWarmth: AutoWarmth automatically adjusts tonal balance to sound full at low volumes.
    Indicator: LED, lights when AutoWarmth is active.
    Control: Variable rotary control
  - Page Threshold: Adjusts threshold at which microphone signal triggers music ducking.
  - Speaker EQ: Built-in EQ is specifically set up for SMS1-Sats.
    Positions: On (Normal), Off

USER ACCESSIBLE CONTROLS:
- Music: Adjusts volume of music source
- Mic: Adjusts volume of the paging microphone

MODELS
- SMS1: Charcoal Grey, 120 VAC
- SMS1-WH: White, 120 VAC
- SMS1/230: Charcoal Grey, 230 VAC
- SMS1-WH/230: White, 230 VAC
- SMS1-SUB: Powered Subwoofer, Charcoal Grey, 120 VAC
- SMS1-SUB-WH: Powered Subwoofer, White, 120 VAC
- SMS1-SUB/230: Powered Subwoofer, Charcoal Grey, 230 VAC
- SMS1-SUB-WH/230: Powered Subwoofer, White, 230 VAC
- SMS1/100, SMS1-WH/100, SMS1-SUB/100, SMS1-SUB-WH/100

OPTIONAL ACCESSORIES
- Z-M1 Paging Microphone: Dynamic (leave phantom power off), 600 ohms, balanced
- ZR-V Remote Wallplate: Wallplate for remote adjustment of music volume
- ZR-IWB In-Wall Electrical Box: U.S. Size electrical box for use with ZR-V. For countries where U.S. size boxes are not available. Contains side dogear clamps to clamp onto wall surface.
- ZR-OSB On-Surface Electrical Box: U.S. Size electrical box for use with ZR-V. For countries where U.S. size boxes may not be available. Mounts on the surface of the wall.

Note 1: If positioning of the subwoofer requires the use of an audio line longer than 3 meters, do not use the unbalanced (RCA) input. Instead, buffering and/or balancing of the signal via an external device at the source is required in order to make sure the audio fidelity is not compromised before getting to the SMS1 system.

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Dimensional Drawing

SMS1-Sub Wallpanel

SMS1-Sub Subwoofer

SMS1-Sat Satellite Speaker with Invisiball Bracket Plate

SMS1 Connection and Control Panel

Dimensions in mm (inches)