**Powered Loudspeakers**

**BP15DSP, BP12DSP**

The Bogen Pro BP15DSP and BP12DSP Powered Loudspeakers are capable of high sound pressure levels and have been designed to give you performance that is better than any loudspeaker in this range, thanks to the quality of its transducers and built-in amplifier.

**Product Features:**
- 2-way Powered Speaker, Built-in Amplifier
- 350-watt Bi-amp configuration: Low 300W RMS, High 50W RMS
- DSP processing
- Combo XLR/1/4" TRS MIC/LINE Input
- LF EQ Presets (cut/high-pass filter, flat/no effect, boost/LF shelf)
- Signal/Clip & Power indicator LED’s
- Precision tuned by Apogee Sound International Engineering in the U.S.
- Multi-angle, multi-purpose polyethylene cabinet
- Pole cup for tripod mounting
- 6 Rigging points
- Listed to UL Standard 60065 for U.S. and Canada
- FCC Part 15 Class B Compliant

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Transducer</th>
<th>Horn Coverage</th>
<th>Frequency Response</th>
<th>Crossover Frequency</th>
<th>Maximum SPL (1m)</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP15DSP</td>
<td>Low: 15&quot; Neodymium Woofer; 2.5&quot; Voice Coil High: 1&quot; Compression Driver; 1.75&quot; Voice Coil</td>
<td>90° H x 45° V</td>
<td>45 Hz to 20 kHz with FLAT (-6 dB)</td>
<td>2.2 kHz-DSP Processor 12 dB/oct</td>
<td>124 dB</td>
<td>15-1/2&quot; W x 26-1/8&quot; H x 15-7/8&quot; D</td>
<td>40.5 lb.</td>
</tr>
<tr>
<td>BP12DSP</td>
<td>Low: 12&quot; Neodymium Woofer; 2.5&quot; Voice Coil High: 1&quot; Compression Driver; 1.75&quot; Voice Coil</td>
<td>50 Hz to 20 kHz with FLAT (-6 dB)</td>
<td>2.4 kHz-DSP Processor 12 dB/oct</td>
<td>123 dB</td>
<td>15-1/2&quot; W x 26-1/8&quot; H x 14-1/4&quot; D</td>
<td>38.5 lb.</td>
<td></td>
</tr>
</tbody>
</table>

**Professional Loudspeakers**

**AMT-15, AMT-12**

The AMT-15 and AMT-12 speakers are designed to deliver high-output music and sound reinforcement in a cost-efficient package.

**Product Features:**
- Molded polypropylene construction
- Heavy gauge steel grilles with powder-coated finish
- Large, high-sensitivity woofers
- Ferrofluid-cooled and damped, high-output titanium alloy compression drivers
- Up to 300W power handling capability for AMT-15; 200W for AMT-12
- Rich, dynamic bass response
- Top-side sockets to receive speaker feet for stacking
- Lightweight, with integral carrying handle molded into speaker housing
- Two combo input connectors: 1/4" Phone and Speakon™
- Smooth, precise passive crossover

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Drivers</th>
<th>Frequency Response</th>
<th>Sensitivity</th>
<th>Dispersion</th>
<th>Impedance</th>
<th>Power Handling</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMT-15</td>
<td>15&quot; Woofer; 45mm Compression Driver</td>
<td>50 Hz - 20 kHz</td>
<td>98 dB (1W @ 1m)</td>
<td>Horizontal: 65 degrees</td>
<td>8-ohm</td>
<td>300 watts</td>
<td>19&quot; W x 27&quot; H x 15&quot; D</td>
<td>47 lb.</td>
</tr>
<tr>
<td>AMT-12</td>
<td>12&quot; Woofer; 45mm Compression Driver</td>
<td>60 Hz - 20 kHz</td>
<td>96 dB (1W @ 1m)</td>
<td>Vertical: 65 degrees</td>
<td>8-ohm</td>
<td>200 watts</td>
<td>16-1/4&quot; W x 23&quot; H x 13&quot; D</td>
<td>37 lb.</td>
</tr>
</tbody>
</table>
**ORBIT SERIES SPEAKERS**

**ORBIT Ceiling Speakers**

**OCS1W, OCS1B**

Orbit Ceiling Speakers are the ideal choice for installations where the quality of music and vocal reinforcement are crucial.

**OCS1 Product Features:**

- Computer-matched venting system and large back can provide exceptionally full bass output
- Easy wiring with snap-on connector
- Front-mounted tap selector under grille
- Attachment point for seismic (safety) cable
- Input terminal cover with knockouts provides protection for connections
- Heavy-gauge steel back can
- Integral swing-out clamps secure installation in the ceiling
- Attractive heavy-gauge steel grille assembly with fine perforations
- Available in Black and White textured, paintable finish
- Complies with UL-2043

**Product Features for both OCS1 & OPS1:**

- 140-degree wide-dispersion coaxial driver for broad, even coverage
- Stable, high-definition metal-alloy woofer cone
- 6-1/2" MDT metal-alloy cone delivers detailed sound; 3/4" polycarbonate tweeter
- MLS voice coil centering system
- High-efficiency drivers deliver superior performance
- Extremely good off-axis response
- For 16-ohm, 70V, and 100V systems
- Frequency response: 45 Hz to 19 kHz
- Sensitivity: 89.5 dBspl
- Connector provides loop-through to next speaker
- Fire-rated (UL 94V0) ABS baffle
- Listed to UL Standard 60065 for US and Canada

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**ORBIT Pendant Speakers**

**OPS1W, OPS1B**

Orbit Pendant Speakers provide an ideal sound solution for open space environments that require clear, quality sound evenly distributed throughout the area. These speakers offer a pleasing industrial design and mount from above.

**OPS1 Product Features:**

- Specially designed to provide full-range bass in open space environments
- Easy-to-use cable suspension system includes three suspension cables with attached forged eyebolts
- Large cabinet volume and computer-matched venting system for superior bass output
- Snap-lock input connector for easy wiring to drop cables
- Low-resonance cabinet structure
- Threaded brass insert point for optional safety cable eyebolt
- Color-matched suspension cables and hardware
- Powder-coated, perforated sturdy steel grille
- Available in Dark Gray and White textured, paintable finish

**OCS1 & OPS1 Technical Specifications:**

<table>
<thead>
<tr>
<th>Impedance</th>
<th>Power Handling</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 ohms</td>
<td>100W</td>
<td>OCS1: 12-3/8&quot; dia. x 12&quot; D</td>
<td></td>
</tr>
<tr>
<td>70V</td>
<td>32, 16, 8, 4, 2, &amp; 1 W taps</td>
<td>OPS1: 14&quot; dia. x 9-1/4&quot; D</td>
<td>10 lb.</td>
</tr>
<tr>
<td>100V</td>
<td>32, 16, 8, 4, &amp; 2 W taps</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**

- **TBCR**
  - Tile Bridge Support Ring (OCS1 only)
- **CK10B** (Black)
- **CK10W** (Off-white)
- **CK10** (Silver)
- **10 ft. Cable Kits**

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2 COLOR CHOICES:

BLACK
WHITE

*Actual color may vary from these catalog samples.*

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*Actual color may vary from these catalog samples.*
SIGNATURE SERIES LOUDSPEAKERS

Signature Series S4 & S5 Loudspeakers are compact, versatile, and feature unique driver technologies, which produce impeccable sound quality. With their compact form factor, these speakers are an excellent fit for most indoor environments or protected outdoor locations.

Designed to both sound and look great, these speakers employ unique MDT and MLS technologies; thick-walled, low-resonance ABS enclosures; scratch-resistant, powder-coated aluminum grilles; and compact, powder-coated cast aluminum adjustable swivel mounts.

S4/S4T Product Features:
- Two models: S4 for 8 ohms; S4T for 70V & 8 ohms
- 75W at 8 ohms (S4 & S4T)
- 70V Power settings: 16, 8, 4, 2, 1 watts (S4T Only)
- 4-1/2” metal-alloy MDT™ mid/bass speaker cone is extremely stable in all environments

S5/S5T Product Features:
- Two models: S5 for 8 ohms; S5T for 70V & 8 ohms
- 150W at 8 ohms (S5 & S5T)
- 70V Power settings: 32, 16, 8, 4, 2, 1 watts (S5T Only)
- 5-1/4” metal-alloy MDT™ mid/bass speaker cone is extremely stable in all environments
- Professional Grade 1-1/2” diameter woofer voice coil provides higher output level and ultra-low distortion

S4/S4T & S5/S5T Product Features:
- High sensitivity and exceptional power handling
- Hemispherical mounting system makes it simple to mount, aim, and lock-in position of loudspeaker
- MLS™ Ferrofluid voice coil centering replaces distortion-causing mechanical spider and seals magnet gap
- Unique MDT™ provides an extremely stable cone structure, fast transmission of sound, and efficiently heat-sinks the voice coils
- Wide, even coverage over listening area
- Low-resonance cabinet structure
- Precisely designed low-frequency tuning for proper balance
- Advanced polymer compound cone surrounds resist UV rays, chemicals, and salt spray
- Aluminum-alloy & titanium cones, UV-protected ABS cabinets, and powder-coated aluminum grilles and mounting brackets assure long-term cosmetic and sonic durability
- Pressure clamping input terminals for quick installation
- Color-matched mounting bracket included (see sidebar)

Technical Specifications:

<table>
<thead>
<tr>
<th>Model**</th>
<th>Drivers</th>
<th>Frequency Response (-10dB)*</th>
<th>Sensitivity (1W@1m)</th>
<th>Dispersion</th>
<th>Power Handling</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4</td>
<td>HF: 1” Nominal Dia. L: 4-1/2” Nominal Dia.</td>
<td>58 Hz- 18 kHz</td>
<td>86 dB SPL</td>
<td>Hor.: 150° Ver.: 120°</td>
<td>75W @ 8Ω</td>
<td>5-1/4” W x 6-1/4” H x 5-3/8” D (without bracket)</td>
<td>5 lb.</td>
</tr>
<tr>
<td>S4T</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75W @ 8Ω or 16, 8, 4, 2, &amp; 1W @ 70V</td>
<td>5-1/4” W x 8-1/4” H x 7-3/8” D (with bracket)</td>
<td>6 lb.</td>
</tr>
<tr>
<td>S5</td>
<td>HF: 1” Horn-Loaded L: 5-1/4” Nominal Dia.</td>
<td>48 Hz- 17 kHz</td>
<td>89 dB SPL</td>
<td>Hor.: 130° Ver.: 110°</td>
<td>150W @ 8Ω</td>
<td>6-7/8” W x 9-3/4” H x 8-1/8” D (without bracket)</td>
<td>8 lb.</td>
</tr>
<tr>
<td>S5T</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>150W @ 8Ω or 32, 16, 8, 4, 2, &amp; 1W @ 70V</td>
<td>6-7/8” W x 9-3/4” H x 8-1/8” D (with bracket)</td>
<td>9 lb.</td>
</tr>
</tbody>
</table>

* Half Space Response
** Colors specified by adding suffix to Model number: B (black) or W (white)

Compact Swivel Mounting Bracket Assembly

The Signature Series hemispherical swivel mount provides close-to-the-wall mounting, in both a vertical and horizontal orientation, while at the same time offering a wide range of movement for accurate aiming of the loudspeaker.

2 COLOR CHOICES*: BLACK OFF-WHITE

* Actual color may vary from these catalog samples.
**Armadillo Speakers**

Form follows function in the A-Series, a.k.a., the “armadillo” line. Its unique rounded ends and side corrugations, which give the speakers their characteristic “armadillo” shell look, are constructed of mineral-filled polypropylene. This dense molded material creates an extremely durable cabinet with excellent acoustic properties. Cabinet and components are impervious to salt spray and dust.

**Tough, Through and Through**

The A-Series is made of premium material components: die cast aluminum frames, hard anodized aluminum cones, anodized aluminum voice coil formers, compound rubber cone surrounds, high-temperature adhesives, UV-inhibited mineral-filled polypropylene enclosure, powder-coated aluminum, perforated PVC plastic grilles, threaded brass inserts, and gold-plated connectors. These are the most durable materials used in any speaker in the industry!

**Product Features:**

- Maximum speaker power capacities of 100, 150, and 175 watts at 8 ohms; and 16, 32, and 64 watts at 70V (T versions)
- Coaxial and 2-way
- High-precision, high-performance sound
- Long-term power handling for constant use
- Reduced distortion at all output levels
- Unsurpassed sound quality
- Completely weatherproof, fully-sealed cabinet for indoor & outdoor applications
- Withstands harsh weather conditions including sun, wind, rain, freezing temperatures, ice, and snow without affecting audio clarity or intelligibility
- Corrosion-resistant mounting hardware
- Special rubber surrounds

- Dual-layer aluminum voice coils, combined with Ferrofluid, provide efficient heat-sinking under long-term, high power situations
- Over-sized mounting knobs to secure mounting easily

**A-Series Mounting Bracket**

- Slots allow for the speaker to slide in with side knobs attached
- Color finish matches speaker cabinet
- Heavy-gauge brackets powder-coated to resist chipping and scratching

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**A-SERIES LOUDSPEAKERS**

**A2, A2T**

A-Series Loudspeakers set the standard for smooth, accurate sound, attractive appearance, constant and reliable high performance, and rugged construction. Metal Diaphragm Technology (MDT) ensures speaker cone stability in all environmental conditions. Magnetic Liquid Suspension (MLS) is a Ferrofluid seal around the magnet gap and voice coil that provides protection from moisture and corrosion, as well as perfect voice coil alignment.

**A6, A6T**

**A8, A8T**

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**A-Series, A12, and G8G Loudspeaker Technical Specifications**

<table>
<thead>
<tr>
<th>Model*</th>
<th>Drivers</th>
<th>Frequency Response**</th>
<th>Sensitivity (W@1m)</th>
<th>Dispersion</th>
<th>Impedance</th>
<th>Power Handling</th>
<th>Design Type</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>6” metal-alloy hard anodized woofers; 1/2” poly carbonate tweeter</td>
<td>55 Hz-20 kHz</td>
<td>88 dBsp</td>
<td>Horizontal: 80 degrees; Vertical: 80 degrees</td>
<td>8-ohm</td>
<td>100 watts</td>
<td>Coaxial</td>
<td>9” W x 8” dia. x 8-1/4” D (with knob &amp; bracket)</td>
<td>8 lb.</td>
</tr>
<tr>
<td>A2T</td>
<td>6” metal-alloy hard anodized woofers; 1-1/8” pure titanium low diffraction inverted tweeter</td>
<td>50 Hz-20 kHz</td>
<td>89 dBsp</td>
<td>Horizontal: 110 degrees; Vertical: 45 degrees (up), 35 degrees (down)</td>
<td>8-ohm</td>
<td>150 watts</td>
<td>2-way</td>
<td>13-7/8” W x 7-1/8” H x 7-3/4” D (with bracket)</td>
<td>11 lb.</td>
</tr>
<tr>
<td>A6</td>
<td>6” metal-alloy hard anodized woofers; 1-1/8” pure titanium low diffraction inverted tweeter</td>
<td>45 Hz-20 kHz</td>
<td>91 dBsp</td>
<td>Horizontal: 100 degrees; Vertical: 35 degrees (up), 45 degrees (down)</td>
<td>8-ohm</td>
<td>175 watts</td>
<td>2-way</td>
<td>17-7/8” W x 10-1/4” H x 10-3/4” D (with bracket)</td>
<td>18 lb.</td>
</tr>
<tr>
<td>A6T</td>
<td>8” metal-alloy hard anodized woofers; 1-1/8” pure titanium low diffraction inverted tweeter</td>
<td>55 Hz-17.5 kHz</td>
<td>94.5 dBsp</td>
<td>Horizontal: 90 degrees; Vertical: 45 degrees</td>
<td>16-ohm/70V</td>
<td>225W at 16-ohm, 128W at 70V (128W, 64W, 32W, 16W, 8W tap settings)</td>
<td>2-way, 3-Driver</td>
<td>10-1/4” W x 17-7/8” H x 11-3/4” D</td>
<td>22 lb.</td>
</tr>
<tr>
<td>A12</td>
<td>(2) Metal Composite 6-1/2” Woofers, 1.9” Mylar HF Diaphragm</td>
<td>55 Hz-17.5 kHz</td>
<td>94.5 dBsp</td>
<td>Horizontal: 90 degrees; Vertical: 45 degrees</td>
<td>16-ohm/70V</td>
<td>225W at 16-ohm, 128W at 70V (128W, 64W, 32W, 16W, 8W tap settings)</td>
<td>2-way, 3-Driver</td>
<td>10-1/4” W x 17-7/8” H x 11-3/4” D</td>
<td>22 lb.</td>
</tr>
<tr>
<td>G8G</td>
<td>LF: 8” Nominal Dia. Metal Alloy Cone utilizing MLS HP: Co-axial 1” Titanium Cone</td>
<td>45 Hz-20 kHz</td>
<td>91 dBsp</td>
<td>Horizontal: 160 degrees</td>
<td>N/A</td>
<td>150W at 8-ohm, 64W at 70V</td>
<td>Coaxial</td>
<td>13” W x 17-1/4” H x 12-1/4” D</td>
<td>14 lb.</td>
</tr>
</tbody>
</table>

* Colors specified by adding suffix to Model number: BLK (black) or WHT (white).
** (-10 dB)
High-Output, Long-Throw Loudspeaker

A12

Product Features:

• Dual 6-1/2'' LF driver with horn-loaded HF driver
• One model for both 70V systems & low-impedance (16-ohm) systems
• Dual metal-alloy MDT™ mid/bass speaker cones are extremely stable in all environments
• MLS™ Ferrofluid voice coil suspension replaces distortion-causing mechanical spider
• Rigid MDT diaphragm design delivers clear sound & low distortion
• Dual-layer voice coil with separate inner and outer windings for improved thermal path
• Horn-loaded compression driver features Mylar diaphragm for long-term, consistent performance
• High sensitivity and power handling for unmatched sound coverage
• Vented cabinet with specially-designed vent covers that resist water entry
• Improved compound rubber surrounds resist UV rays, chemicals, and salt spray
• Corrosion-resistant woofer frames and mounting hardware for long-lasting “like new” appearance
• Attractive styling with “armadillo” ridges improve durability as well as sound
• Gold-plated, rustproof input connectors
• Optional multi-angle tilting bracket for pole/wall mounting

The A12 High-Output, Long-Throw Loudspeaker provides deep, rich bass and smooth highs as a complement to other A-Series loudspeakers.

The A12 is a high-powered speaker that projects well in far-field applications as well as in more intimate settings. A built-in transformer means one speaker will work with 70V or 16-ohm systems. Dual metal-alloy mid/bass drivers and a Mylar high-frequency compression driver combine to minimize distortion and provide precise sound reproduction at any volume level.

The A12 is ideal for both music and voice reproduction, and its powerful, highly directional output and weatherproof design make it the perfect speaker for sound reinforcement in outdoor venues.

In-Ground Loudspeaker

G8G

Product Features:

• Sloped cabinet panels ensure pull-out resistance of the speaker when buried
• 8-ohm and 70V taps included
• Extremely stable, long-lasting Metal Diaphragm Technology (MDT) cone structure
• High efficiency and power handling for optimum performance
• Dual-layer voice coil with separate inner and outer windings for high output and ultra-low distortion
• Magnetic Liquid Suspension (MLS) provides constant lubrication of the gap, preventing oxidation when used outdoors
• Compound rubber surrounds resist UV rays, salt spray, and chemicals
• Stainless steel grille protects the driver elements
• Molded polyethylene enclosure resists chipping, scratching, and damage from impact
• Corrosion-resistant driver frames
• Wide coverage angles produce broad, even sound field
• Available in green

The G8G In-Ground, All-Weather Loudspeaker features superior sound and superior weather durability. Its fully-sealed enclosure makes it ideal for outdoor commercial and industrial applications.

See A12 Technical Specifications in chart on page 4.

See G8G Technical Specifications in chart on page 4.
High-Fidelity Ceiling Speakers
HFCS1 & HFCS1LP

Bogen’s coaxial and 2-way, High-Fidelity Ceiling Speakers deliver unsurpassed performance and value.

Product Features:
• Installs into a variety of ceiling environments including suspended ceilings and hard-surfaced ceilings
• Large steel back can for extended bass response (HFCS1)
• Low-profile housing allows greater range of installation depths (HFCS1LP)
• Computer-matched venting system for excellent bass output
• Wide dispersion coaxial driver provides broad, even coverage
• Good off-axis response with smooth contouring
• Easy-to-install mounting system for a variety of ceiling types
• High power handling capability for foreground sound
• Selectable power taps via front-mounted rotary control under grille
• Easy wiring with 4-terminal snap-on input connector (providing loop-through)
• 3/4” durable polycarbonate tweeter cone
• 6.75” highly stable polypropylene cone
• Sensitivity: 89 dBiSp at 1W/1m
• Available in Black or White ABS baffle ring and perforated steel grille (both paintable)
• Attachment point for seismic cable
• Fire-rated (94VO) ABS baffle
• Listed to UL Standard 60065 for US & Canada

Technical Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Impedance</th>
<th>Power Handling</th>
<th>Frequency Response</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFCS1</td>
<td>16 ohms</td>
<td>75W</td>
<td>HFCS1: 65 Hz-19 kHz</td>
<td>HFCS1: 12-5/16” dia. x 12” D</td>
<td>9 lb.</td>
</tr>
<tr>
<td>HFCS1LP</td>
<td>70V</td>
<td>32, 16, 8, 4, 2, &amp; 1 W taps</td>
<td>HFCS1LP: 78 Hz-19 kHz</td>
<td>HFCS1LP: 12-5/16” dia. x 7-3/4” D</td>
<td>8 lb.</td>
</tr>
<tr>
<td></td>
<td>100V</td>
<td>32, 16, 8, 4, 2, &amp; 2 W taps</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mini Pendant Speakers
MPS1 & MPS2

The Bogen MPS1 and MPS2 Mini-Pendant Speakers are an excellent choice for high ceiling and open space environments.

Product Features:
• Wide dispersion 4-1/2” driver for broad, even coverage; superb off-axis response
• High-power handling capability for foreground sound/high-ambient noise environments
• Selectable power taps via rear-mounted control; 32, 16, 8, 4, 2, 1 watts @ 70V
• Low-resonance cabinet structure improves mid-range clarity
• Computer-matched venting system for extended bass output
• High-efficiency drivers deliver superior performance
• Central attachment point for suspension and second point provided for safety cable
• For 70V and 16-ohm low-impedance systems
• Quick & Easy wiring with snap-on connector
• Simple single point suspension method
• Powder-coated perforated steel grille
• Available in Black or White

Technical Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Impedance</th>
<th>Sensitivity (1W @ 1m)</th>
<th>Frequency Response</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPS1</td>
<td>Low (16 ohms)/High (70V)</td>
<td>86 dB (Avg. 100 Hz-10 kHz)</td>
<td>50 Hz-14 kHz</td>
<td>10” dia. x 7-7/8” H</td>
<td>4.5 lb.</td>
</tr>
<tr>
<td></td>
<td>Low (16 ohms)/High (70V)</td>
<td>87 dB (Avg. 100 Hz-15 kHz)</td>
<td>50 Hz-22 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPS2</td>
<td>Low (16 ohms)/High (70V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessories

CK10B (Black)
CK10W (Off-white)
CK10 (Silver)
10 ft. Cable Kits

Also available as a larger Pendant (see page 2)
High-Fidelity Ceiling Subwoofer CSUB

The Bogen CSUB Ceiling Subwoofer delivers outstanding bass response in both suspended ceiling and hard-surfaced installations. The CSUB can provide deep, rich bass response to any speaker system. Perfect accompaniments to the CSUB are the HFSF1, HFCS1/LP, and OCS1 ceiling loudspeakers. The CSUB offers six levels of power output settings plus an 8-ohm position controlled via a front-mounted, rotary tap selector switch (under grille). The low-distortion speaker design, coupled with a computer-matched venting system, delivers exceptional low-frequency response for music. The mechanical CSUB design features four swing-out mounting clamps that eliminate the need for a separate tile bridge when used in suspended ceiling applications.

Product Features:
- Flat bass response down to 40 Hz
- Computer-matched venting system for full bass output
- 11" deep enclosure clearance
- Integral swing-out mounting clamps eliminate need for tile bridge
- High power handling capability for foreground sound
- Selectable power taps via front-mounted control
- Power taps: 64, 32, 16, 8, 4, and 2 watts @ 70V
- 8-ohm selector position for low-impedance systems
- Compound rubber surround for lasting performance
- Easy wiring with plug-in connector providing loop-through terminals
- Fire-rated (94VO) ABS baffle
- Attachment point for seismic safety cable
- Input terminal cover with conduit knockout
- Attractive, contemporary, sturdy steel grille assembly with fine perforations
- Off-white, paintable finish
- Listed to UL Standard 60065 for US and Canada

Technical Specifications:

<table>
<thead>
<tr>
<th>Impedance</th>
<th>Power Handling</th>
<th>Sensitivity</th>
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<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-ohm Nominal</td>
<td>150W (8-ohm)</td>
<td>91 dBspl @ 1W/1m</td>
<td>40 Hz - 125 Hz</td>
<td>15-1/2&quot; dia. x 12-1/2&quot; D</td>
<td>20 lb.</td>
</tr>
<tr>
<td>70V Settings</td>
<td>64, 32, 16, 8, 4, 2W taps (70V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessories
- CK10
  10 ft. Cable Kit (Silver)

High-Fidelity Ceiling Speaker HFSF1

The Bogen HFSF1 High-Fidelity, Small-Footprint Ceiling Loudspeaker delivers superior sound in a very compact enclosure. The speaker is unobtrusive at only 7-1/4" in diameter, and mounts easily in all types of ceilings including existing hard-surface types and suspended ceilings.

The low-distortion, coaxial-design speaker, coupled with a computer-matched venting system, delivers superb fidelity for music as well as high intelligibility for voice reinforcement. Coupled with the Bogen CSUB Ceiling Subwoofer, it provides the perfect solution for environments that require the highest-quality sound with minimal visual impact.

Product Features:
- Superior sound in a very compact enclosure
- Wide-dispersion coaxial driver for broad, even coverage; superb off-axis response
- Small footprint, visually appealing
- Only 6-1/4" diameter ceiling opening required
- Installs in wide range of ceiling types
- For 70V and low-impedance systems
- Selectable power taps via control mounted under grille; 16, 8, 4, 2, 1 watts at 70V
- 16-ohm selector position for low-impedance systems
- Quick wiring with removable plug-in connector providing loop-through terminals
- Attachment point for seismic safety cable
- Input terminal cover with conduit knockout
- Fire-rated (94VO) ABS baffle
- Compound rubber surround for lasting performance year after year
- Integral mounting clamps tighten quickly and firmly
- Tile bridge (TBSF) accessory recommended for suspended ceiling installations
- Off-white, paintable finish
- Listed to UL Standard 60065 for US and Canada

Technical Specifications:

<table>
<thead>
<tr>
<th>Impedance</th>
<th>Power Handling</th>
<th>Sensitivity</th>
<th>Frequency Response</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-ohm Nominal</td>
<td>50W (16-ohm)</td>
<td>86 dBspl @ 1W/1m</td>
<td>78 Hz - 20 kHz</td>
<td>7-1/4&quot; dia. x 7-1/2&quot; D</td>
<td>4.5 lb.</td>
</tr>
<tr>
<td>70V Settings</td>
<td>16, 8, 4, 2, 1W taps (70V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessories
- CK10
  10 ft. Cable Kit (Silver)
- TBSF
  Tile Bridge Support Ring
DROP-IN CEILING SPEAKERS

Drop-In Ceiling Speakers

Bogen’s Drop-In Ceiling Speakers are full-range loudspeakers that allow fast and simple installation, which saves time, effort, and cost. Depending on whether your ceiling grid is 2' x 2' or 2' x 4', the speaker can be dropped directly into place or by simply making a single cut to the ceiling tile, placing the tile support rail, and then inserting the speaker into position.

Models CSD2X2(U), CSD2X2VR(U)
70V and 25V Operation

- 2ft. x 2ft. with back can enclosure
- 4-watt, 70V/25V transformer
- 4, 2, 1, 1/2, & 1/4-watt tap settings; selectable by rotary switch
- Fully enclosed, industrial grade steel construction
- 8" main cone with secondary high-frequency cone; 10 oz. magnet weight
- Plenum-rated — meets the requirements of UL standard 2043 for smoke and heat release
- Front-mounted, recessed volume control versions available (VR)
- Listed to UL Standard 60065 for U.S. & Canada; and UL Standard 1480 for U.S.

Models CSD2X2L(U)
Low-impedance (8-ohm) Operation

- 2ft. x 2ft. with back can enclosure
- Low-impedance: 8-ohm speaker, 15W maximum power
- Fully enclosed, industrial grade steel construction
- 8" main cone with secondary high-frequency cone; 10 oz. magnet weight
- Plenum-rated — meets the requirements of UL standard 2043 for smoke and heat release
- Listed to UL Standard 60065 for U.S. & Canada; and UL Standard 1480 for U.S.

Models CSD1X2(U), CSD1X2VR(U)
70V and 25V Operation

- 1ft. x 2ft. with back can enclosure
- 4-watt, 70V/25V transformer
- 4, 2, 1, 1/2, & 1/4-watt tap settings; selectable by rotary switch
- Fully enclosed, industrial grade steel construction
- 8" main cone with secondary high-frequency cone; 10 oz. magnet weight
- Plenum-rated — meets requirements of UL standard 2043 for smoke and heat release
- Front-mounted, recessed volume control versions available (VR)
- Listed to UL Standard 60065 for U.S. & Canada; and UL Standard 1480 for U.S.

All Drop-In Ceiling Speakers Feature:

- Finely perforated grille over entire front of speaker
- Tile Support Rail crossbar (included) for use with 2' x 4' and 2' x 2' suspended tile ceilings
- Bright White (“U” versions) or Off-white finish
- Seismic attachment points

Note: For Bright White versions, add “U” to end of model number.

"VR" Versions (with front-mounted recessed volume control)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD1X2VR</td>
<td>12-1/4&quot; W x 5&quot; H x 24&quot; D</td>
<td>10 lb.</td>
</tr>
<tr>
<td>CSD2X2VR/L</td>
<td>24&quot; W x 4-7/8&quot; H x 24&quot; D</td>
<td>12 lb.</td>
</tr>
</tbody>
</table>

NOTE: For Bright White versions, add "U" to end of model number.
Modular Drop-In Ceiling Speakers

The MCD-Series Speakers offer installers a low-cost alternative to pre-assembled drop-in ceiling speakers. The speaker assembly consists of the speaker module and a grille, which are easily assembled. The MCDMOD simply snaps securely onto a grille. Since the module is not attached to the grille, it allows installers the option of making wire connections before or after grille placement in the ceiling. The assemblies fit into 2’ x 2’ or 2’ x 4’ ceiling grids.

Speaker Module

This compact speaker module is a component of your speaker assembly. Both the MCD1X2U and MCD2X2U assemblies utilize the MCDMOD speaker module to reinforce sound.

Module Features:
- Fully-enclosed speaker module
- 4-1/2” full-range speaker with a secondary high-frequency radiator
- 120-degree wide dispersion angles
- Broad sound field for even coverage throughout the listening area
- Rotary switch selects 4, 2, 1, 1/2, and 1/4 watt power tap settings
- Compatible with 70V/25V systems
- 160 Hz to 10.5 kHz frequency response
- Sensitivity: 85 dB (1W/1m)
- Listed to UL Standard 60065 for U.S. and Canada; and UL Standard 1480 for U.S.

Ceiling Grilles: 1’ x 2’ or 2’ x 2’ Grilles

Depending on the application’s aesthetics or grid configuration, you may select either the 1’ x 2’ MCD1X2UGRILLE or the 2’ x 2’ MCD2X2UGRILLE to fit in 2’ x 2’ or 2’ x 4’ suspended ceilings.

MCD1X2UGRILLE Features:
- 1’ x 2’ Grille, constructed of industrial grade steel
- 3 Seismic attachment points
- Bright White, powder-coated finish
- Tile Support Rail crossbar (included)

MCD2X2UGRILLE Features:
- 2’ x 2’ Grille, constructed of industrial grade steel
- 3 Seismic attachment points
- Bright White, powder-coated finish
- Tile Support Rail crossbar (included)

Order Complete Kits (Assembly Required)

MCD1X2U Kit
Consists of a MCDMOD Speaker Module and a MCD1X2UGRILLE 1’ x 2’ Metal Grille

MCD2X2U Kit
Consists of a MCDMOD Speaker Module and a MCD2X2UGRILLE 2’ x 2’ Metal Grille

<table>
<thead>
<tr>
<th>Individual Components</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCDMOD</td>
<td>5-3/4” W x 3-1/2” H x 6-3/4” D</td>
<td>2.5 lb.</td>
</tr>
<tr>
<td>MCD1X2UGRILLE</td>
<td>11-7/8” W x 5/8” H x 23-3/4” D</td>
<td>2.5 lb.</td>
</tr>
<tr>
<td>MCD2X2UGRILLE</td>
<td>23-3/4” W x 5/8” H x 23-3/4” D</td>
<td>4.5 lb.</td>
</tr>
</tbody>
</table>
Metal Box Speakers
MB8TSL, MB8TSLVR, MB8TSQ, MB8TSQVR

Bogen’s Metal Box Speakers feature all-steel construction, surface-mounted enclosure with an 8” cone loudspeaker and 4-watt 70V/25V transformer. The MB8TSL is designed primarily for wall mounting, and its face is angled downward 12.5 degrees. The MB8TSQ is suitable for ceiling or wall mounting. “VR” versions include a recessed volume control.

Product Features:
- Rugged all-steel, surface-mounted, off-white painted enclosure
- Full-range 8” cone speaker for excellent intelligibility
- Compatible with 70V/25V amplifier systems
- 4-watt maximum power
- 6 power taps available (4, 2, 1, 1/2, 1/4, 1/8 watts)
- Mounting hardware included
- Wiremold® knockouts
- “VR” versions include a recessed volume control

<table>
<thead>
<tr>
<th>Models</th>
<th>Front Panel Design</th>
<th>Frequency Range</th>
<th>Sensitivity (dBspl @ 1W)</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB8TSLVR</td>
<td>Slant/Angle</td>
<td>110 Hz - 15 kHz</td>
<td>96</td>
<td>11-5/8&quot; W x 11-3/8&quot; H x 5-3/8&quot; D (Top Dimension)</td>
<td>9 lb.</td>
</tr>
<tr>
<td>MB8TSQVR</td>
<td>Square/Flat</td>
<td>110 Hz - 15 kHz</td>
<td>96</td>
<td>11-5/8&quot; W x 11-5/8&quot; H x 4-1/4&quot; D (Bottom Dimension)</td>
<td>9 lb.</td>
</tr>
</tbody>
</table>

Wiremold® is a registered trademark of Wiremold/Legrand.

WALL BAFFLE SPEAKERS

WBS8T725, WBS8T725V, WBS8T725BR, WBS8T725BRV, WBS810T725

Bogen Wall Baffle Speakers consist of 8" cone speakers (S86 or S810) pre-assembled into a simulated walnut-finished wooden enclosure with a black grille cloth on front. These wall baffles are handsomely styled and ruggedly built with 3/8" particle board reinforced at the corners. Designed for wall mounting, the face is angled downward 13.5 degrees. Recessed volume control and terminal strip are available options on the WBS8T725 model.

Product Features:
- 4-watt capacity
- 6 power taps available (4, 2, 1, 1/2, 1/4, 1/8 watts)
- Simulated walnut finish
- Works with both 70V and 25V amplifier outputs
- Pre-assembled for faster installation
- 8” cone speaker for excellent audio quality
- 6 oz. or 10 oz. magnet weights
- Recessed volume control available (V models only)
- Screw terminals available (BR models only)
- Easy wall-mount installation
- Mounting hardware included

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
<th>Frequency Range</th>
<th>Sensitivity (dBspl)</th>
<th>Recessed Volume Control</th>
<th>Screw Terminals (BR)</th>
<th>Shipping Weight (per carton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBS8T725</td>
<td>9 lb.</td>
<td>60 Hz - 15 kHz</td>
<td>96</td>
<td>✓</td>
<td>✓</td>
<td>18 lb. / carton</td>
</tr>
<tr>
<td>WBS8T725V</td>
<td>9 lb.</td>
<td>60 Hz - 15 kHz</td>
<td>96</td>
<td>✓</td>
<td>✓</td>
<td>19 lb. / carton</td>
</tr>
<tr>
<td>WBS8T725BR</td>
<td>9 lb.</td>
<td>60 Hz - 15 kHz</td>
<td>96</td>
<td>✓</td>
<td>✓</td>
<td>19 lb. / carton</td>
</tr>
<tr>
<td>WBS8T725BRV</td>
<td>9 lb.</td>
<td>60 Hz - 15 kHz</td>
<td>96</td>
<td>✓</td>
<td>✓</td>
<td>20 lb. / carton</td>
</tr>
<tr>
<td>WBS810T725</td>
<td>9 lb.</td>
<td>70 Hz - 15 kHz</td>
<td>96</td>
<td>✓</td>
<td>✓</td>
<td>20 lb. / carton</td>
</tr>
</tbody>
</table>

Dimensions
9-1/2" W x 9-1/2" H x 5-3/8" D
9-1/2" W x 9-1/2" H x 4-1/4" D
Bogen’s SEC4T Compact Ceiling Speaker Assembly consists of a 4” Cone Speaker pre-assembled onto a 7-1/4” steel ceiling grille, painted with bright-white enamel finish.

Both the S86 & S810 Ceiling Speaker Assemblies consist of an 8” Cone Speaker pre-assembled onto a 13” steel ceiling grille painted with off-white (PG8W) or bright white (PG8U) enamel. Options for these assemblies are recessed volume control (VR), volume control with knob (VK), and rear-mounted screw terminal strip for power taps (BR).

**Product Features:**
- 4-watt capacity / 4-watt transformer
- 8” cone speaker (S86 & S810) and 4” cone speaker (SEC4T) provides excellent audio quality
- 6 different power taps available (4, 2, 1, 1/2, 1/4, 1/8 W)
- Pre-assembled for faster installation
- S86/S810 available in Off-white (W) or Bright White (U) enamel over steel grille; SEC4T available in Bright White only
- Works with both 70V and 25V amplifier outputs
- Some S86/S810 models available with recessed volume control knob (see chart below)
- Screw terminals (BR models only)

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Magnet Weight</th>
<th>Frequency Response</th>
<th>Sensitivity (4W/1W)</th>
<th>No Volume Control</th>
<th>Receded Volume Control</th>
<th>Volume Control w/Knob</th>
<th>Screw Terminals</th>
<th>Shipping Weight (6/carton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S86T725PG8W</td>
<td>6 oz.</td>
<td>50 Hz-12 kHz</td>
<td>95 dBspl</td>
<td>96 dBspl</td>
<td></td>
<td></td>
<td></td>
<td>27 lb. / carton</td>
</tr>
<tr>
<td>S86T725PG8WVR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28 lb. / carton</td>
</tr>
<tr>
<td>S86T725PG8WVK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28 lb. / carton</td>
</tr>
<tr>
<td>S86T725PG8WBR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>S86T725PG8WBRVR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>S86T725PG8WBRVK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>S810T725PG8W</td>
<td>10 oz.</td>
<td>70 Hz-15 kHz</td>
<td>95 dBspl</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>S810T725PG8WVR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>S810T725PG8WVRK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 lb. / carton</td>
</tr>
<tr>
<td>SEC4T</td>
<td>4 oz.</td>
<td>75 Hz-20 kHz</td>
<td>96 dBspl (1W @ 1m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>19 lb. / 10 per carton</td>
</tr>
</tbody>
</table>

For Bright White versions of the above models, replace the “W” in each model number with a “U”.

**Ceiling Speaker Assembly Variations**
Bogen ceiling speaker assemblies consist of an 8” cone speaker (S86 or S810) mounted in an enamel, steel-finished ceiling grille (PG8W or PG8U) with a transformer (T725). The assemblies are available in several options, as outlined here:

- **Recessed Volume Control** – S86/S810T725PG8WVR*
- **Volume Control Knob** – S86/S810T725PG8WVK*
- **Screw Terminal Strip** – S86T725PG8WBR*
**FOREGROUND SPEAKERS**

**FG-Series Speakers**

The FG-Series of 2-way speakers is designed to deliver high-quality, wide frequency response audio in a compact cabinet. These speakers are perfect for supplying foreground as well as background music.

**Product Features:**
- 15-watt models
- Smooth, wide frequency response
- Compact and rugged plastic cabinets
- Works with both 70V and 8-ohm speaker systems
- U-Mounting bracket included
- Rotary switch-selected power rating for 70V systems
- Available in Black (B) and Off-white (W)

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Capacity (watts)</th>
<th>Frequency Response</th>
<th>Sensitivity</th>
<th>Low-Freq Driver</th>
<th>High-Freq Driver</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG15B</td>
<td>15, 7.5, 4, 2 &amp; 1</td>
<td>15</td>
<td>100 Hz - 20 kHz</td>
<td>85</td>
<td>3-1/2” Mylar</td>
<td>4-5/8” W x 7-1/4” H x 5” D</td>
<td>4 lb.</td>
</tr>
<tr>
<td>FG15W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SOUND COLUMNS**

**SCW20, SCW35**

Bogen’s Sound Columns provide effective sound reinforcement for installations with large areas, using a minimum number of speakers. Each column has a vertical array of speakers producing a highly directed sound dispersion pattern for reduced reflection from the room’s floor and ceiling.

**Product Features:**
- 20- or 35-watt models
- Works with 8-ohm speaker systems
- Four 5” speakers (SCW20) or six 6” speakers (SCW35)
- Controlled sound projection
- Uniform sound level & reduced feedback
- Clear and intelligible speech reproduction
- Polarized screw terminals
- Acoustically lined, particle board construction: 3/8” (SCW20), 1/2” (SCW35)
- Simulated oiled walnut, black grille
- Mounting hardware included

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Power Capacity (Watts)</th>
<th>Frequency Response</th>
<th>Sensitivity</th>
<th>Dispersion Angle</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCW20</td>
<td>20</td>
<td>80 Hz - 14 kHz</td>
<td>100</td>
<td>Vert: 45, Hor: 90</td>
<td>7-1/2” W x 20” H x 5” D</td>
<td>10 lb.</td>
</tr>
<tr>
<td>SCW35</td>
<td>35</td>
<td>70 Hz - 16 kHz</td>
<td>105</td>
<td>Vert: 25, Hor:120</td>
<td>9-1/2” W x 42” H x 6” D</td>
<td>21 lb.</td>
</tr>
</tbody>
</table>

**FLANGE-MOUNTED HORN SPEAKER**

**FMH15T**

The Bogen FMH15T is a flange-mounted, high-intelligibility, reentrant-type loudspeaker. Its sturdy, weatherproof, vandal-resistant, all-metal construction is ideal for indoor and outdoor use. It has a built-in tap selector switch for selecting the speaker power in 70V or 25V constant-voltage systems.

**Product Features:**
- Excellent efficiency and voice intelligibility
- Weather-sealed tap selector switch
- 15 watts max. @ 70V or 25V
- Select flush (BBFM6) or surface (BBSM6) mount enclosure for installation (each sold separately)
- Vandal-resistant accessory components for hostile-environment applications
- Heavy-duty cast aluminum grille (SGHD8) and adapter ring (FMHAR8) for installation (each sold separately)
- All-metal with black enamel finish

<table>
<thead>
<tr>
<th>Power Taps (Watts)</th>
<th>Frequency Response</th>
<th>Sensitivity</th>
<th>Dispersion Angle</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>15, 7.5, 3.6, 1.8, 0.9</td>
<td>15, 7.5, 3.6, 0.9, 0.5, 0.2, 0.125</td>
<td>600Hz-1.4kHz</td>
<td>104</td>
<td>6-7/8” dia. x 5-1/2” D</td>
<td>3 lb.</td>
</tr>
</tbody>
</table>
Bogen’s Horn Loudspeakers offer high efficiency and excellent intelligibility. Rotary switch-selected power taps make installation quick and easy. SPT and BDT models are compatible with 70V and 25V paging systems. SP models are 8-ohm versions. The KFLDS30T is a 70V/25V wide dispersion, high-intelligibility, reentrant type loudspeaker. The IH8A is a paging horn.

**Product Features:**
- Maximum speaker power capacities of 7.5, 15, and 30 watts
- Rotary switch-selected power taps on transformer models
- Constant voltage (70V/25V) and 8-ohm versions (KFLDS30T and BDT30A are 70V/25V only)
- Tilt & swivel base for easy positioning
- Sturdy, all-metal construction with mocha enamel finish (KFLDS30T horn flare is constructed of polycarbonate)
- Weatherproof design
- Twin reentrant horns for bi-directional projection (BDT30A only)
- KFLDS30T provides wide-angle projection with a rotatable horn flare

*For style only, product is larger
*Some assembly required

---

**Horn Loudspeakers**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Power Capacity (Watts)</th>
<th>Frequency Response (Hz)</th>
<th>Max Sound Level (SPL @ 144 dB)</th>
<th>Power Taps (Watts)</th>
<th>Low-impedance @-6 dB (Ω)</th>
<th>Dispersion Angle (degrees)</th>
<th>Connection</th>
<th>Dimensions</th>
<th>Product Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPT5A</td>
<td>7.5</td>
<td>250 Hz-14 kHz</td>
<td>96</td>
<td>105</td>
<td>7.5, 5, 2.5, 1.25, 0.65</td>
<td>1, 0.62, 0.31</td>
<td>No</td>
<td>6&quot; dia x 4&quot; D</td>
<td>1.5 lb</td>
</tr>
<tr>
<td>SP58A</td>
<td>15</td>
<td>275 Hz-14 kHz</td>
<td>109</td>
<td>121</td>
<td>15, 7.5, 3.8, 1.8, 0.9</td>
<td>15, 7.5, 1.8, 0.64, 0.46</td>
<td>Yes</td>
<td>9&quot; dia x 5-1/2&quot; D</td>
<td>4 lb</td>
</tr>
<tr>
<td>SPT15A</td>
<td>30</td>
<td>225 Hz-14 kHz</td>
<td>110</td>
<td>125</td>
<td>30, 15, 7.5, 3.7, 1.8</td>
<td>15, 7.5, 3.7, 1.8</td>
<td>Yes</td>
<td>11&quot; dia x 10-1/2&quot; D</td>
<td>6 lb</td>
</tr>
<tr>
<td>SP158A</td>
<td>30</td>
<td>225 Hz-14 kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>6-1/4&quot; dia x 6&quot; D</td>
<td>5 lb</td>
</tr>
<tr>
<td>SPT30A</td>
<td>30</td>
<td>225 Hz-14 kHz</td>
<td>106 **</td>
<td>121**</td>
<td>30, 15, 7.5, 3.7, 1.8</td>
<td>15, 7.5, 3.7, 1.8</td>
<td>Yes</td>
<td>9-5/8&quot; dia x 12-1/8&quot; D**</td>
<td>7 lb</td>
</tr>
<tr>
<td>SP308A</td>
<td>30</td>
<td>225 Hz-14 kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>130° Wire Lead</td>
<td>2.5 lb</td>
</tr>
<tr>
<td>BDT30A</td>
<td>30</td>
<td>225 Hz-14 kHz</td>
<td>108</td>
<td>120</td>
<td>30, 15, 7.5, 3.7, 1.8</td>
<td>15, 7.5, 3.7, 1.8</td>
<td>No</td>
<td>14-5/8&quot; W x 8-1/4&quot; H</td>
<td>6 lb</td>
</tr>
<tr>
<td>IH8A</td>
<td>15</td>
<td>300 Hz-12 kHz</td>
<td>104</td>
<td>119</td>
<td>30, 15, 7.5, 3.7, 1.8</td>
<td>15, 7.5, 3.7, 1.8</td>
<td>No</td>
<td>6-1/4&quot; dia x 6&quot; D</td>
<td></td>
</tr>
<tr>
<td>KFLDS30T</td>
<td>30</td>
<td>300 Hz-12 kHz</td>
<td>104</td>
<td>119</td>
<td>30, 15, 7.5, 3.7, 1.8</td>
<td>15, 7.5, 3.7, 1.8</td>
<td>No</td>
<td>14-5/8&quot; W x 8-1/4&quot; H</td>
<td></td>
</tr>
</tbody>
</table>

**Special Protection**

The SPT15A, SPT30A, BDT30A and KFLDS30T use a cast aluminum end bell specially designed to make them weatherproof. A rotary selector switch is used to set the specific power tap for the speaker. This switch’s entry into the end bell is sealed by a special mounting nut with an integral O-ring. A removable plastic panel protects both the rotary switch and the electrical connections. This panel provides a narrow opening for the speaker wires to exit, reducing the chance of water infiltration.

**Tilt & Swivel Base**

Bogen’s 15- and 30-watt horns include a unique and easy-to-use tilt and swivel mounting base that provides nearly 180 degrees of tilt and a full 360 degrees of swivel. A single wing nut locks in the angle of the speaker. Loosening the wing nut frees the speaker in each rotational axis, making it fast and easy to precisely aim the speakers where the sound is needed. The base provides three holes for screw mounting and a slot to allow strapping the speakers to beams. The actual mounting base can easily be removed so that the base can be installed separately. The speakers can then be attached to the bases at a later time.

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**Accessories**

- **BC1 Beam Clamp**
- **TCSPT1 Terminal Cover for Conduit** (For BDT30A, KFLDS30T, SP158A, SP308A, SPT15A, & SPT30A)
- **HSES10 Horn Speaker Electrical Box Strap** (pack of 10) (Not for SP58A & SPT5A)
Bypass Feature
In certain rooms such as training or conference rooms where meetings or presentations are held, paging announcements are considered interruptions. To avoid or eliminate such interruptions, speakers installed in these rooms may use attenuators to set speaker volume low or off. In these cases, emergency messages would not be heard by individuals in these rooms.

To ensure critical messages are heard, the ATP-Series Attenuators include a Bypass Function that sets emergency messages to full volume - all the speakers the attenuator controls - even if the speakers’ volume control knobs are set low or off. A trip voltage of between 9V and 30V DC causes the attenuator to bypass the volume control function and provides full volume audio to the speakers. This is a critical and ideal function in emergency situations when a message must be sent to all individuals in a building.

Extreme Human Environments
It takes a specially-engineered speaker to stand up to the extreme abuse of human beings. The VRS-Series has been installed in some of the most demanding applications, from high-crime area door-answer systems to some of the most notorious correctional facilities.

What Tough Is (Exploded View)
The VRS-Series features an 11-gauge stainless steel faceplate (#1). That’s a solid 1/8” of the hardest steel around.

Behind that, there’s a heavy-duty steel barrier (#2) which is designed to let sound out and nothing in. The barrier is baffled so that knives, nails, paper clips, and anything else that might fit into the grille openings will not enter the speaker nor make contact with the speaker’s cone.

Then for further protection, a finely perforated metal grille (#3) covers the entire speaker to intercept any object that might snake its way through the baffles of the steel barrier. The VRS-Series not only keeps objects out, but fluids also cannot damage the speaker because the speaker’s cone is made of weather-resistant plastic (#4).

VANDAL-RESISTANT SPEAKERS
These Vandal-Resistant Speaker assemblies ensure that sound communication gets through reliably, despite being located in environments susceptible to damage and destruction. The assembly includes a 3” plastic cone speaker, securely located and protected behind steel barriers. Available with or without call button.

Product Features:
- Withstands attempts at vandalism in hostile environments
- Four layers of defense: ❶ a heavy-duty 11-gauge stainless steel faceplate, ❷ a baffled steel guard protects the speaker from puncture, ❸ a finely perforated screen stops thin, flexible objects from damaging the moisture-resistant plastic speaker cone, and ❹ weather-resistant cone
- Grille openings are cross-positioned so that nothing can enter the speaker, not even the smallest or sharpest objects
- Unbreakable metal call button (VRS1 only); VRS2 available without call button
- Optional low-impedance, 8-ohm speaker operation
- Mounts with one-way security screws (included)
- 1/2-Watt speaker power on 25V speaker line
- 3” Weather-resistant cone speaker

Model | Dimensions | Product Weight
--- | --- | ---
VRS1 | 5-1/2” W x 7-3/4” H x 2.5” D | 2.5 lb.
VRS2 | 5-1/2” W x 7-3/4” H x 2” D | 2 lb.

ATTENUATORS
Both Attenuator Series (AT and ATP) allow the output level of a group of loudspeakers to be set from a wall-mounted volume control, without affecting overall amplifier volume settings. The ATP-Series also has a priority bypass function which overrides the volume control knob to provide full volume audio to the speakers.

Product Features:
- Adjusts loudspeaker output levels on 25V & 70V systems
- 2 Models control up to 10-watt or 35-watt speaker systems
- Priority override of volume/Emergency Bypass feature (ATP models)
- 10 Attenuation steps and an off setting
- Mounts in standard electrical box; single (AT10A, ATP10) or double (AT35A, ATP35)
- Simple connections

Model | Power Rating | Gang Box | Emergency Bypass | Dimensions* | Product Weight
--- | --- | --- | --- | --- | ---
AT10A | 10 watts | Single | 2-3/4” W x 4-1/2” H x 2-3/4” D | 13 oz.
AT35A | 35 watts | Dual | 4-5/8” W x 4-5/8” H x 3” D | 14 oz.
ATP10 | 10 watts | Single | 2-3/4” W x 4-1/2” H x 2-5/8” D | 13 oz.
ATP35 | 35 watts | Dual | 4-5/8” W x 4-5/8” H x 3” D | 14 oz.

*Depth from front of plate