

# PRO AUDIO LOUDSPEAKERS

## 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.

The **AMT-15**'s robust 15-inch woofer offers rich, dynamic bass response down to 50 Hz. The 45mm compression driver diaphragm, comprised of a titanium alloy for added strength and rigidity, effortlessly handles the high input levels to match the woofer. A carefully designed crossover network accurately filters each driver for proper matching of phase and summation in the crossover region. The transition is much smoother than other loudspeakers in this class, making the sound more accurate and more realistic.

The **AMT-12** combines the same high-output compression driver used in the **AMT-15** with a high-sensitivity 12-inch woofer designed to maximize output. Slightly smaller and lighter, the **AMT-12** can still fill larger rooms with plenty of power and with very accurate sound.



**AMT-15**

**AMT-12**



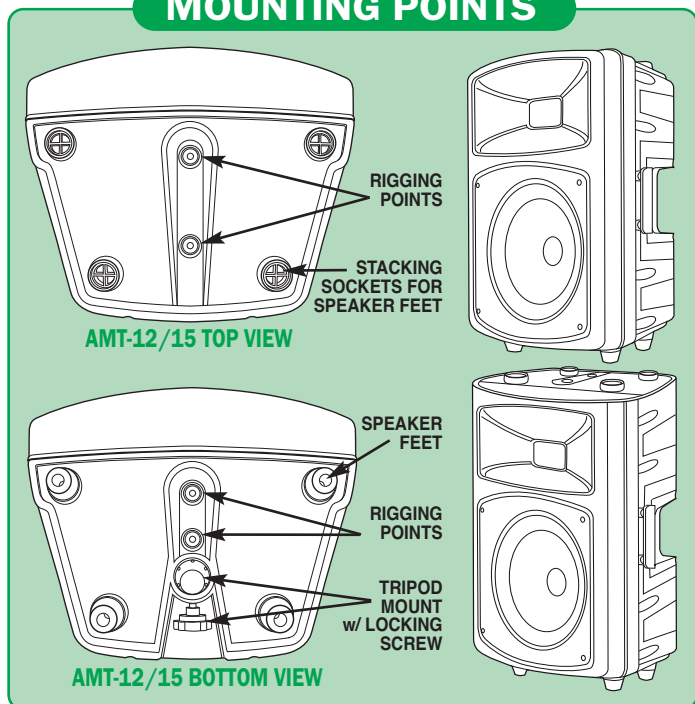
#### Product Features:

- 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
- Versatile mounting abilities with an integral tripod mount, attachment points for fly-rigging & stacking speakers directly on one another with top-side sockets to receive speaker feet
- Lightweight, with integral carrying handle molded into speaker housing
- Two combo input connectors: 1/4" Phone and Speakon™
- Smooth, precise passive crossover

#### Accessories



#### MOUNTING POINTS



#### Technical Specifications:

| Model         | Drivers                                | Frequency Response | Sensitivity        | Dispersion                 | Impedance | Power Handling | Dimensions                | Product Weight |
|---------------|--|--------------------|--------------------|----------------------------|-----------|----------------|---------------------------|----------------|
| <b>AMT-15</b> | 15" Woofer;<br>45mm Compression Driver | 50 Hz -<br>20 kHz  | 98 dB<br>(1W @ 1m) | Horizontal:<br>65 degrees; | 8-ohm     | 300 watts      | 27" H x 19" W x 15" D     | 47 lb.         |
| <b>AMT-12</b> | 12" Woofer;<br>45mm Compression Driver | 60 Hz -<br>20 kHz  | 96 dB<br>(1W @ 1m) | Vertical:<br>65 degrees    | 8-ohm     | 200 watts      | 23" H x 16-1/4" W x 13" D | 37 lb.         |

# NEAR® ORBIT SPEAKERS



## N·E·A·R.

### ORBIT Ceiling Speaker OCS1

NEAR 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 plated steel back can
- Integral swing-out clamps secure installation in the ceiling
- Attractive heavy-gauge steel grille assembly with fine perforations
- Off-white textured finish, paintable
- Complies with UL-2043

## N·E·A·R.

### ORBIT Pendant Speaker OPS1

NEAR 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 & hardware
- Powder-coated, perforated sturdy steel grille
- Available in dark gray and off-white textured, paintable finish



OPS1B

OPS1W

#### 2 COLOR CHOICES\*:



\*Actual color may vary from these catalog samples.

#### OCS1 & OPS1 Technical Specifications:

| Impedance | Power Handling              | Dimensions                    | Product Weight |
|-----------|-----------------------------|-------------------------------|----------------|
| 16 ohms   | 100W                        | OCS1:<br>12-3/8" dia. x 12" D | 10 lb.         |
| 70V       | 32, 16, 8, 4, 2, & 1 W taps | OPS1:<br>15" dia. x 9-1/4" D  |                |
| 100V      | 32, 16, 8, 4, & 2 W taps    |                               |                |

#### Accessories



TBCR  
Tile Bridge  
Support Ring  
(OCS1 only)



CK10B  
(Black)

CK10W  
(Off-white)

CK10  
(Silver)

10 ft. Cable Kits

#### 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 94V-0) ABS baffle
- Listed to UL Standard 60065 for US and Canada

# NEAR® SIGNATURE LOUDSPEAKERS

N·E·A·R.

**SIGNATURE**  
**High-Performance**  
**Foreground Loudspeakers**

**S4/S4T & S5/S5T**



S4/S4T



S5/S5T



NEAR Signature S4 & S5 Loudspeakers are compact, versatile, and feature NEAR's 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 NEAR's unique MDT and MLS technologies (see page 4); 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:

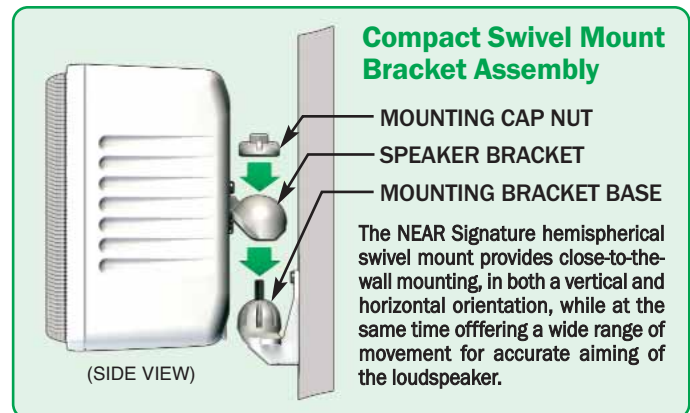
- Two models: S4 for 8 ohms; S4T for 70V & 8 ohms
- 75W at 8 ohms (S4 & S4T)
- 70V Power settings: 16, 8, 4, 2, 1 watts (S4T Only)
- 4-1/2" metal-alloy MDT™ mid/bass speaker cone is extremely stable in all environments

## S4/S4T & S5/S5T Product Features:

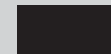
- High sensitivity and exceptional power handling
- Hemispherical mounting system makes it simple to mount, aim, and lock-in position of loudspeaker
- Patented MLS™ Ferrofluid voice coil centering replaces distortion-causing mechanical spider and seals magnet gap
- Unique MDT™ provides an extremely stable 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)

## 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



## 2 COLOR CHOICES\*:



BLACK



WHITE

\*Actual color may vary from these catalog samples.

## Technical Specifications:

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

\* Half Space Response



**NEAR 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, black 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!

**3 COLOR CHOICES\*:****BLACK****GREEN****WHITE**

\*Actual color may vary from these catalog samples.

**Accessories****ASTB4****Terminal Block Electrical Cover**

(Protects wires and connections from water and effects of weather)



(For A2, A6, and A8 models)

**NEAR® A-SERIES LOUDSPEAKERS****N · E · A · R®****A2, A2T****A6, A6T****A8, A8T**

**NEAR A-Series Speakers** set the standard for smooth, accurate sound, attractive appearance, constant and reliable high performance, and rugged construction. Designed to perform beautifully under the toughest conditions, the A-Series combines outstanding aesthetic design with patented speaker technology for unsurpassed audio quality and weatherproof durability, ideal for music or paging.

**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 capability
- 8-ohm or 70V models
- High-precision, high-performance sound
- Long-term power handling for constant use
- Reduced distortion at all output levels
- Unsurpassed sound quality
- High dispersion of sound (80° on A2, 110° on A6, and 100° on A8 models)
- Completely weatherproof, fully-sealed cabinet for indoor and 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
- Rugged and durable construction
- Metal-alloy low-frequency drivers
- Special rubber driver 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**

- Quick and easy mounting brackets have slots for the speaker to slide in with side knobs attached
- Color finish (black, green, or white) matches speaker cabinet
- Heavy-gauge aluminum brackets (stainless steel on A8 models) are powder-coated to resist chipping and scratching

**What Makes NEAR® Speakers So Unique?**

- **MDT™ Technology – Metal Diaphragm Technology** uses metal-alloy drivers (not paper and plastic) for extremely stable speaker cones, even after long periods of time. MDT is lightweight, strong, and produces natural sound, significantly better phase response, musical accuracy, and fine detail of sound with ultra-low distortion.
- **MLS™ Design – Magnetic Liquid Suspension** uses the speaker's own magnetic field to precisely center the voice coil in the magnet gap. This eliminates the need for distortion-causing voice coil spiders found in conventional speakers and allows longer speaker excursion. A proprietary Ferrofluid seals the magnet gap and voice coil against moisture and corrosion and heatsinks the voice coil to the magnet structure for greater power handling, assuring long speaker life under difficult environmental conditions. With MLS, the centering actually becomes more accurate as the music becomes louder.

**Unparalleled Performance**

NEAR speakers lead the industry in metal speaker technology.

A NEAR speaker is unique because of its:

- 1 Advanced rubber compound cone surround
- 2 Metal Diaphragm Technology
- 3 Magnetic Liquid Suspension
- 4 Sealed Magnet



NEAR (New England Audio Resource)  
is a brand of Bogen Communications, Inc.

# NEAR® A-SERIES LOUDSPEAKERS



## N·E·A·R®

### High-Output, Long-Throw Loudspeaker A12

The **NEAR A12 High-Output, Long-Throw Loudspeaker** is the latest addition to the A-Series family of loudspeakers. Engineered to the same high standards, the A12 provides deep, rich bass and smooth highs as a complement to other NEAR loudspeakers.

The A12 is a high-power 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.

From gold-plated input connectors to the patented Metal Diaphragm Technology (MDT) used in the two 6-1/2" drivers, all components of the A12 are designed with the goal of providing outstanding reliability and performance for years down the road - without compromising top-quality sound. Even the woofer frames and exterior housing have been designed to maximize sound quality and durability.

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 like theme parks, amphitheaters, and sports fields.

#### 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
- Patented 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 patented "armadillo" ridges improve durability as well as sound
- Gold-plated, rustproof input connectors
- Optional multi-angle tilting bracket for pole/wall mounting

#### Accessories

##### TMA812

Tilt Mount Adapter  
Stainless Steel



(For A8 and A12 models)

**BLACK ONLY**

## NEAR A-Series & A12 Loudspeaker Technical Specifications

| Model* | Drivers   | Frequency Response† | Sensitivity (1W @ 1 meter) | Dispersion                                   | Impedance  | Power Handling   | Design Type     | Dimensions                                      | Product Weight |
|--------|---|---------------------|----------------------------|--|------------|--|-----------------|---|----------------|
| A2*    | 6" metal-alloy hard anodized woofer;                        | 55 Hz-20 kHz        | 88 dBspl                   | Horizontal: 80 degrees;                      | 8-ohm      | 100 watts  | Coaxial         | 9" W x 8" dia. x 8-1/4" D (with knob & bracket) | 8 lb.          |
| A2T*   | 1/2" polycarbonate tweeter                                  |                     |                            | Vertical: 80 degrees                         | 70V        | 16 watts (16W, 8W, 4W tap settings)                                |                 |   | 10 lb.         |
| A6*    | 6" metal-alloy hard anodized woofer;                        | 50 Hz-20 kHz        | 89 dBspl                   | Horizontal: 110 degrees;                     | 8-ohm      | 150 watts  | 2-way           | 13-7/8" W x 7-1/8" H x 7-3/4" D (with bracket)  | 11 lb.         |
| A6T*   | 1-1/8" pure titanium low diffraction inverted tweeter       |                     |                            | Vertical: 45 degrees (up), 35 degrees (down) | 70V        | 32 watts (32W, 16W, 8W tap settings)                               |                 |   | 12 lb.         |
| A8*    | 8" metal-alloy hard anodized woofer;                        | 45 Hz-20 kHz        | 91 dBspl                   | Horizontal: 100 degrees;                     | 8-ohm      | 175 watts  | 2-way           | 17-7/8" W x 10-1/4" H x 10" D (with bracket)    | 18 lb.         |
| A8T*   | 1-1/8" pure titanium low diffraction inverted tweeter       |                     |                            | Vertical: 35 degrees (up), 45 degrees (down) | 70V        | 64 watts (64W, 32W, 16W tap settings)                              |                 |   | 20 lb.         |
| A12    | (2) Metal Composite 6-1/2" Woofers, 1.9" Mylar HF Diaphragm | 55 Hz-17.5 kHz      | 94.5 dBspl                 | Horizontal: 90 degrees; Vertical: 45 degrees | 16-ohm/70V | 225W at 16-ohm, 128W at 70V (128W, 64W, 32W, 16W, 8W tap settings) | 2-way, 3-Driver | 10-1/4" W x 17-7/8" H x 11-3/4" D               | 22 lb.         |

\* Colors specified by adding suffix to model number: BLK (black), GRN (green), or WHT (white).

† (-10 dB)

# CEILING SPEAKERS

## High-Fidelity Ceiling Speakers

### HFCS1, HFCS1LP

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



HFCS1



HFCS1LP

#### 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
- 6-1/2" highly stable polypropylene cone
- Sensitivity: 89 dBspl @ 1W/1m
- Off-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

#### Accessories

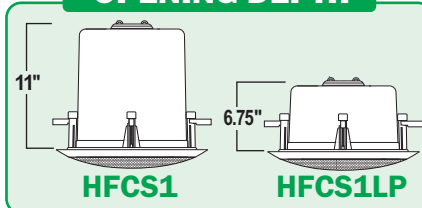
**CK10**  
10 ft. Cable  
Kit (Silver)



#### Technical Specifications:

| Model             | Impedance | Power Handling              | Frequency Response       | Dimensions                           | Product Weight    |
|-------------------|-----------|-----------------------------|--------------------------|--------------------------------------|-------------------|
| HFCS1/<br>HFCS1LP | 16 ohms   | 75W                         | HFCS1:<br>65 Hz-19 kHz   | HFCS1:<br>12-5/16" dia. x 12" D      | HFCS1:<br>9 lb.   |
|                   | 70V       | 32, 16, 8, 4, 2, & 1 W taps | HFCS1LP:<br>78 Hz-19 kHz | HFCS1LP:<br>12-5/16" dia. x 7-3/4" D | HFCS1LP:<br>8 lb. |
|                   | 100V      | 32, 16, 8, 4, & 2 W taps    |                          |                                      |                   |

#### OPENING DEPTH



## Mini Pendant Speaker MPS1

The Bogen **MPS1 Mini-Pendant Speaker** is an excellent choice for high ceiling and open space environments.

#### Product Features:

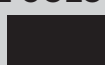
- Wide dispersion 4-1/2" driver for broad, even coverage; superb off-axis response
- High-efficiency drivers deliver superior performance
- For 70V and 16-ohm low-impedance systems
- Computer-matched venting system for extended bass output
- High-power handling capability for foreground sound/high-ambient 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
- Central attachment point for suspension and second point provided for safety cable
- Quick & Easy wiring with snap-on connector
- Simple single point suspension method
- Powder-coated perforated steel grille
- Paintable ABS finish



MPS1B

MPS1W

#### 2 COLOR CHOICES\*:



BLACK



WHITE

\*Actual color may vary from these catalog samples.

#### Technical Specifications:

| Model | Impedance                    | Sensitivity (1W/1m)           | Frequency Response (-10 dB) | Dimensions          | Product Weight |
|-------|------------------------------|-------------------------------|-----------------------------|---------------------|----------------|
| MPS1  | Low (16 ohms)/<br>High (70V) | 85 dB<br>(Avg. 100 Hz-10 kHz) | 50 Hz-14 kHz                | 12" dia. x 7-7/8" H | 5 lb.          |

#### Accessories

**CK10B**  
(Black)

**CK10W**  
(Off-white)

**CK10**  
(Silver)

10 ft. Cable Kits





# CEILING SPEAKERS



## High-Fidelity Ceiling Subwoofer CSUB

The Bogen **CSUB Ceiling Subwoofer** delivers outstanding bass response in both suspended ceiling and sheetrock installations. The CSUB can provide deep, rich bass response to any speaker system. Perfect accompaniments to the CSUB are Bogen's HFSF1 and HFCS1/LP ceiling speakers, as well as NEAR's OCS1 ceiling loudspeaker.

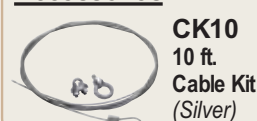
The CSUB offers six levels of power output settings plus an 8-ohm position controlled via a front-mounted, rotary tap selector switch (under grille). The low-distortion speaker design, coupled with a computer-matched venting system, delivers exceptional low-frequency response for music. The mechanical 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

### Accessories



**CK10**  
10 ft.  
Cable Kit  
(Silver)

### Technical Specifications:

| Impedance    | Power Handling                     | Sensitivity         | Frequency Response | Dimensions                     | Product Weight |
|--------------|------------------------------------|---------------------|--------------------|--------------------------------|----------------|
| 8 Ω Nominal  | 150W (8 Ω)                         | 91 dBspl<br>@ 1W/1m | 40 Hz -125 Hz      | 15-1/2" dia.<br>x<br>12-1/2" D | 20 lb.         |
| 70V Settings | 64, 32, 16, 8, 4,<br>2W taps (70V) |                     |                    |                                |                |

## 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

### Accessories



**CK10**  
10 ft. Cable Kit  
(Silver)



**TBSF**  
Tile Bridge  
Support Ring

### Technical Specifications:

| Impedance    | Power Handling                | Sensitivity         | Frequency Response | Dimensions                   | Product Weight |
|--------------|-------------------------------|---------------------|--------------------|------------------------------|----------------|
| 16 Ω Nominal | 50W (16Ω)                     | 86 dBspl<br>@ 1W/1m | 78 Hz - 20 kHz     | 7-1/4" dia.<br>x<br>7-1/2" D | 4.5 lb.        |
| 70V Settings | 16, 8, 4,<br>2, 1W taps (70V) |                     |                    |                              |                |



# 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.

### 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 (report available online)
- Front-mounted, recessed volume control versions available (VR)
- Listed to UL Standard 1480 for US



### CSD1X2NB(U), CSD1X2NBVR(U)

#### 70V and 25V Operation

- 1ft. X 2ft. exposed driver (no back can enclosure)
- 4-watt, 70V/25V transformer
- 4, 2, 1, 1/2, 1/4, & 1/8-watt taps; selectable by stripped & tinned wire leads
- Industrial grade steel construction
- 8" cone speaker; 6 oz. magnet weight
- Front-mounted, recessed volume control versions available (VR)



### CSD2X2(U), CSD2X2VR(U)

#### 70V and 25V Operation

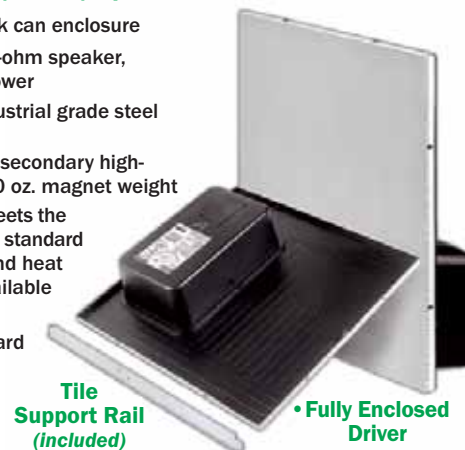
- 2ft. X 2ft. with back can enclosure
- 4-watt, 70V/25V transformer
- 4, 2, 1, 1/2, & 1/4-watt tap settings; selectable by rotary switch
- Fully enclosed, industrial grade steel construction
- 8" main cone with secondary high-frequency cone; 10 oz. magnet weight
- Plenum-rated — meets the requirements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



### 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 (report available online)
- Listed to UL Standard 1480 for US

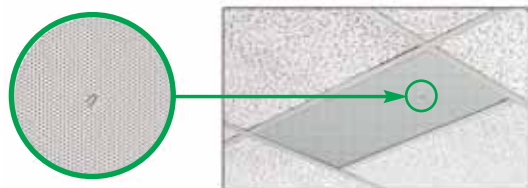


#### All Drop-In Ceiling Speakers Feature:

- 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

Now available in  
Bright White & Off-white

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



| Model       | Dimensions                   | Product Weight |
|-------------|------------------------------|----------------|
| CSD1X2/VR   | 12-1/4" W x 5" H x 24" D     | 10 lb.         |
| CSD1X2NB/VR | 12-1/4" W x 3-1/4" H x 24" D | 7 lb.          |
| CSD2X2/VR/L | 24" W x 4-7/8" H x 24" D     | 12 lb.         |

NOTE: For Bright White versions, add "U" to end of model number.

| Model       | Speaker Size  |               | Grille Color |                  | Impedance         |                      | Speaker Back Can | Exposed Driver (NB) | Recessed Volume Control (VR) |
|-------------|---------------|---------------|--------------|------------------|-------------------|----------------------|------------------|---------------------|------------------------------|
|             | 1 ft. x 2 ft. | 2 ft. x 2 ft. | Off-white    | Bright White (U) | 70V/25V (4W max.) | 8-ohm (L) (15W max.) |                  |                     |                              |
| CSD1X2      | ●             |               | ●            |                  | ●                 |                      | ●                |                     |                              |
| CSD1X2U     | ●             |               |              | ●                | ●                 |                      | ●                |                     |                              |
| CSD1X2VR    | ●             |               | ●            |                  | ●                 |                      | ●                |                     | ●                            |
| CSD1X2VRU   | ●             |               |              | ●                | ●                 |                      | ●                |                     | ●                            |
| CSD1X2NB    | ●             |               | ●            |                  | ●                 |                      |                  | ●                   |                              |
| CSD1X2NBU   | ●             |               |              | ●                | ●                 |                      |                  | ●                   |                              |
| CSD1X2NBVR  | ●             |               | ●            |                  | ●                 |                      |                  | ●                   | ●                            |
| CSD1X2NBVRU | ●             |               |              | ●                | ●                 |                      |                  | ●                   | ●                            |
| CSD2X2      |               | ●             | ●            |                  | ●                 |                      | ●                |                     |                              |
| CSD2X2U     |               | ●             |              | ●                | ●                 |                      | ●                |                     |                              |
| CSD2X2VR    |               | ●             | ●            |                  | ●                 |                      | ●                |                     | ●                            |
| CSD2X2VRU   |               | ●             |              | ●                | ●                 |                      | ●                |                     | ●                            |
| CSD2X2L     |               | ●             | ●            |                  |                   | ●                    | ●                |                     |                              |
| CSD2X2LU    |               | ●             |              | ●                |                   | ●                    | ●                |                     |                              |



# CEILING SPEAKER ASSEMBLIES



## S86T725PG8W(U) & Variations



## S810T725PG8W(U) & Variations

Now available in  
Bright White ("U" versions)  
& Off-white ("W" versions)

Bogen's **Ceiling Speaker Assemblies** consist of an 8" Cone Speaker (S86 or S810) 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
- 8" cone speaker for excellent audio quality
- 6 different power taps available (4, 2, 1, 1/2, 1/4, 1/8 W)
- T725 4-watt transformer
- Pre-assembled for faster installation
- Off-white enamel over steel grille ("W" versions)
- Bright white enamel over steel grille ("U" versions)
- Works with both 70V and 25V amplifier outputs
- Available with volume control – recessed or knob (VR & VK models only)
- Screw terminals (BR models only)
- 6 oz. or 10 oz. magnet weights

Dimensions: 13" dia. x 3-1/4" D

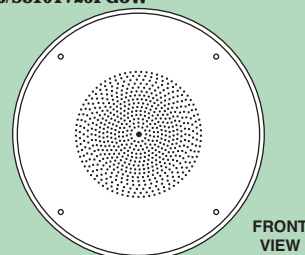
| Model           | Magnet Weight | Frequency Response | Sensitivity (4ft./1W) | No Volume Control | Recessed Volume Control (VR) | Volume Control w/Knob (VK) | Screw Terminals (BR) | Shipping Weight (6/carton) |
|-----------------|---------------|--------------------|-----------------------|-------------------|------------------------------|----------------------------|----------------------|----------------------------|
| S86T725PG8W     | 6 oz.         | 50 Hz-12 kHz       | 95 dBspl              | ●                 |                              |                            |                      | 27 lb. / carton            |
| S86T725PG8WVR   |               |                    |                       |                   | ●                            |                            |                      |                            |
| S86T725PG8WVK   |               |                    |                       |                   |                              | ●                          |                      |                            |
| S86T725PG8WBR   |               |                    |                       | ●                 |                              |                            | ●                    | 28 lb. / carton            |
| S86T725PG8WBRVR |               |                    |                       |                   | ●                            |                            | ●                    |                            |
| S86T725PG8WBRVK |               |                    |                       |                   |                              | ●                          | ●                    |                            |
| S810T725PG8W    | 10 oz.        | 70 Hz-15 kHz       | 96 dBspl              | ●                 |                              |                            |                      | 30 lb. / carton            |
| S810T725PG8WVR  |               |                    |                       |                   | ●                            |                            |                      |                            |
| S810T725PG8WVK  |               |                    |                       |                   |                              | ●                          |                      |                            |

NOTE: For Bright White versions, replace the "W" in each model number with a "U".

### Ceiling Speaker Assembly Variations

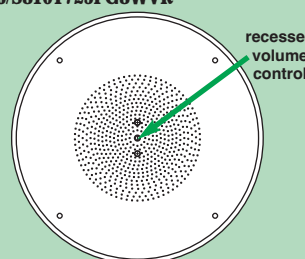
Bogen ceiling speaker assemblies consist of an 8" cone speaker (S86 or S810) mounted in an enamel, steel-finished ceiling grille (PG8W or PG8U) with a transformer (T725). The assemblies are available in several options, as outlined here:

- No Volume Control – S86/S810T725PG8W\*



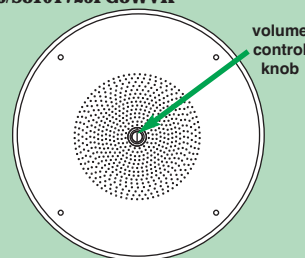
FRONT VIEW

- Recessed Volume Control – S86/S810T725PG8WVR\*



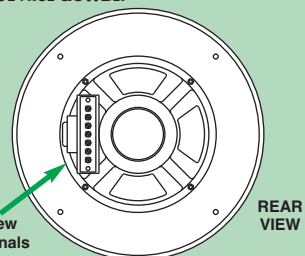
recessed volume control

- Volume Control Knob – S86/S810T725PG8WVK\*



volume control knob

- Screw Terminal Strip – S86T725PG8WBR\*



REAR VIEW

screw terminals

\* Replace "W" with "U" for Bright White grille color models.

### Accessories



RE84  
Ceiling  
Speaker  
Enclosure



MR8  
Mounting  
Ring



TB8  
Tile Bridge

# METAL BOX SPEAKERS

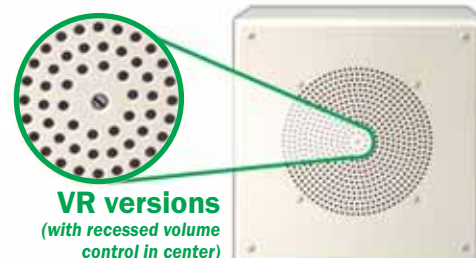
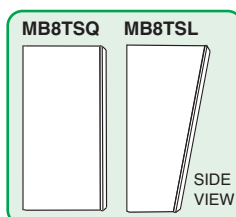
## Metal Box Speakers

### 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



| Models    | Front Panel Design | Frequency Response | Sensitivity (dBspl @ 1W) | Dimensions  | Product Weight |
|-----------|--------------------|--------------------|--------------------------|---|----------------|
| MB8TSL/VR | Slant/Angle        | 110 Hz-15 kHz      | 96                       | 11-5/8" W x 11-3/8" H x 5-3/8" D<br>(Top Dimension)<br>11-5/8" W x 11-3/8" H x 3-1/8" D<br>(Bottom Dimension) | 9 lb.          |
| MB8TSQ/VR | Square/Flat        | 110 Hz-15 kHz      | 96                       | 11-5/8" W x 11-5/8" H x 4-1/4" D  | 9 lb.          |

Wiremold® is a registered trademark of Wiremold/Legrand.

# WALL BAFFLE SPEAKERS

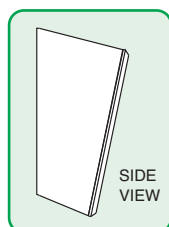


### WBS8T725, WBS8T725V, WBS8T725BR, WBS8T725BRV, WBS810T725

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



| Dimensions  |
|---|
| 9-1/2" W x 9-1/2" H x 5-1/4" D<br>(3-1/4" D @ bottom) |

| Model       | Magnet Weight | Frequency Response | Sensitivity (4ft./1W) | No Volume Control | Recessed Volume Control (V) | Screw Terminals (BR) | Shipping Weight (4/carton) |
|-------------|---------------|--------------------|-----------------------|-------------------|-----------------------------|----------------------|----------------------------|
| WBS8T725    | 6 oz.         | 50 Hz-12 kHz       | 95 dBspl              | ●                 |                             |                      | 18 lb. / carton            |
| WBS8T725V   |               |                    |                       |                   | ●                           |                      |                            |
| WBS8T725BR  |               |                    |                       |                   |                             | ●                    |                            |
| WBS8T725BRV | 10 oz.        | 70 Hz-15 kHz       | 96 dBspl              |                   | ●                           | ●                    | 19 lb. / carton            |
| WBS810T725  |               |                    |                       | ●                 |                             |                      |                            |

# 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. Perfect for supplying foreground as well as background music, the speaker line is available in three power ratings.

### Product Features:

- 15-, 20-, and 30-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
- Splashproof for use in damp environments (*FG20S only*)
- FG15 available in Black (B) and Off-white (W)



**FG15B**  
(Black)



**FG15W**  
(Off-White)



**FG30,  
FG20S**

### Accessories

**FGSM**  
Swivel Mount  
(Black)



**FGSMW**  
Swivel Mount  
(Off-white)



| Model | Power Capacity (watts) |        | Frequency Response | Sensitivity (dBspl @ 1W) | Low-Freq Driver | High-Freq Driver | Dimensions                 | Product Weight |
|-------|------------------------|--------|--------------------|--------------------------|-----------------|------------------|----------------------------|----------------|
|       | 70V Systems            | 8 ohms |                    |                          |                 |                  |                            |                |
| FG15B | 15, 7.5, 4, 2 & 1      | 15     | 100 Hz - 20 kHz    | 86                       | 3" paper        | 3/4" Mylar       | 4-5/8" W x 7-1/4" H x 5" D | 4 lb.          |
| FG15W |                        |        |                    |                          |                 |                  |                            |                |
| FG20S | 20, 15, 10 & 5         | 20     | 80 Hz - 20 kHz     | 84                       | 5" plastic      | 3/4" Mylar       | 5-7/8" W x 9" H x 5-5/8" D | 6 lb.          |
| FG30  | 30, 20, 15 & 10        | 30     |                    | 86                       | 5" paper        |                  |                            | 5 lb.          |

## 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



**SCW35**



**SCW20**

| Model | Maximum Power Capacity (Watts) | Frequency Response | Sensitivity (dBspl @ 1W) | Dispersion Angle (degrees) | Dimensions              | Product Weight |
|-------|--------------------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|
| SCW20 | 20                             | 80 Hz - 14 kHz     | 100                      | Vert: 45, Hor: 90          | 7-1/2" W x 20" H x 5" D | 10 lb.         |
| SCW35 | 35                             | 70 Hz - 16 kHz     | 105                      | Vert: 25, Hor: 120         | 9-1/2" W x 42" H x 6" D | 21 lb.         |

## 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

| Power Taps (Watts)     |                                     | Frequency Response | Sensitivity (dBspl @ 1W) | Dispersion Angle | Dimensions             | Product Weight |
|------------------------|-------------------------------------|--------------------|--------------------------|------------------|------------------------|----------------|
| 70V                    | 25V                                 |                    |                          |                  |                        |                |
| 15, 7.5, 3.6, 1.8, 0.9 | 15, 7.0, 1.8, 0.9, 0.5, 0.25, 0.125 | 600Hz -14 kHz      | 104                      | 100°             | 6-7/8" dia. x 5-1/2" D | 3 lb.          |



### Accessory Components

**BBSM6**  
Surface-Mount Enclosure  
(11"W x 11"H x 6"D)



**BBFM6**  
Flush-Mount Enclosure  
(9-7/8"W x 9-7/8"H x 6"D)



**SGHD8**  
Heavy-Duty Grille  
(11"W x 11"H x 1/2" D)



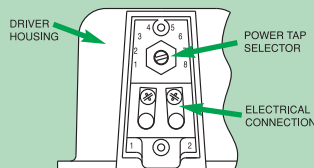
**FMHAR8**  
Adapter Ring





### 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.

### 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)

# HORN LOUDSPEAKERS



**SPT5A,  
SP58A**



**SPT15A, SP158A,  
SPT30A+, SP308A+**



**BDT30A\***

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



**KFLDS30T**



**IH8A**

\* For style only, product is larger

\* Some assembly required

| Model    | Max Power Capacity (Watts) | Frequency Response | Sensitivity (dBspl, 1W @ 4ft.) | Max Sound Level (dBspl, full power @ 4ft.) | Power Taps (Watts)     |                                   | Low-Impedance 8-ohm | Dispersion Angle (degrees) | Connection     | Dimensions                       | Product Weight |
|----------|----------------------------|--------------------|--------------------------------|--|------------------------|-----------------------------------|---------------------|----------------------------|----------------|----------------------------------|----------------|
|          |                            |                    |                                |  | 70V                    | 25V                               |                     |                            |                |                                  |                |
| SPT5A    | 7.5                        | 250 Hz-14 kHz      | 96                             | 105  | 7.5, 5, 2.5, 1.25, 0.6 | 1, 0.68, 0.31                     | No                  | 120°                       | Wire Lead      | 6" dia. x 4" D                   | 2 lb.          |
| SP58A    |                            |                    |                                |  | N/A                    | N/A                               | Yes                 |                            |                |                                  |                |
| SPT15A   | 15                         | 275 Hz-14 kHz      | 109                            | 121  | 15, 7.5, 3.8, 1.8, 0.9 | 15, 7.5, 1.8, 0.94, 0.46          | No                  | 110°                       | Screw Terminal | 9" dia. x 9-1/4" D               | 4 lb.          |
| SP158A   |                            |                    |                                |  | N/A                    | N/A                               | Yes                 |                            |                |                                  | 3 lb.          |
| SPT30A   | 30                         | 225 Hz-14 kHz      | 110                            | 125  | 30, 15, 7.5, 3.7, 1.8  | 15, 7.5, 3.7, 1.8                 | No                  | 100°                       | Screw Terminal | 11" dia. x 10-1/2" D             | 6 lb.          |
| SP308A   |                            |                    |                                |  | N/A                    | N/A                               | Yes                 |                            |                |                                  | 5 lb.          |
| BDT30A   | 30                         | 225 Hz-14 kHz      | 106**                          | 121**                                      | 30, 15, 7.5, 3.7, 1.8  | 15, 7.5, 3.7, 1.8                 | No                  | 100°**                     | Screw Terminal | 9-5/8" dia. x 12-1/8" D**        | 7 lb.          |
| IH8A     | 15                         | 350 Hz-14 kHz      | 108                            | 120  | N/A                    | N/A                               | Yes                 | 130°                       | Wire Lead      | 6-1/4" dia. x 7-1/2" D           | 3 lb.          |
| KFLDS30T | 30                         | 300 Hz-12 kHz      | 104                            | 119  | 30, 15, 7.5, 3.7, 1.8  | 15, 7.5, 3.7, 1.8, 0.9, 0.5, 0.25 | No                  | 70° (Vert.) x 95° (Horiz.) | Screw Terminal | 14-3/8" W x 8-1/4" H x 12-7/8" D | 6 lb.          |

\*\* Each Horn

# ATTENUATORS

## AT10A, AT35A & ATP10, ATP35

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

### 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 - to all 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.

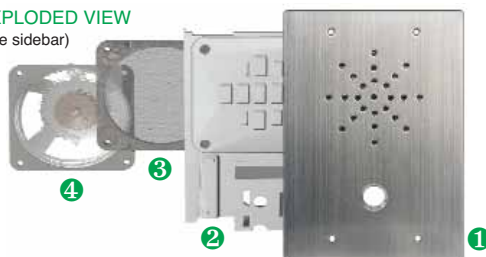
# VANDAL-RESISTANT SPEAKERS

## VRS1, VRS2

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.



EXPLODED VIEW  
(see sidebar)



### Product Features:

- Withstands attempts at vandalism in hostile environments
- Four layers of defense: ① a heavy-duty 11-gauge stainless steel faceplate, ② a baffled steel guard protects the speaker from puncture, ③ a finely perforated screen stops thin, flexible objects from damaging the moisture-resistant plastic speaker cone, and ④ 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

| Dimensions                     | Shipping Weight |
|--------------------------------|-----------------|
| 5-1/2" W x 7-3/4" H x 1-3/4" D | 4 lb.           |

### 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).

# CONE SPEAKERS

## S86, S86T725, S86T725BR, S810, S810T725



Bogen offers 8" Unmounted Cone Speakers with 6 or 10 oz. magnets, with or without speaker transformers.

### Product Features:

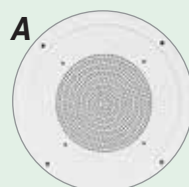
- Works with both 70V and 25V amplifier outputs (*models with transformers*)
- 8" cone speaker for excellent audio quality
- Easy to install in wall baffles or ceiling grilles (*see below*)

| Model     | Speaker | Magnet Weight | Frequency Response | Sensitivity | Power Taps (in Watts)  | Connections    | Dimensions         | Shipping Weight (16/carton) |
|-----------|---------|---------------|--------------------|-------------|------------------------|----------------|--------------------|-----------------------------|
| S86       | S86     | 6 oz.         | 50 Hz - 12 kHz     | 95 dBspl    | 8 ohms @ 7W            | Push-on Lugs   | 8" Dia. x 3-1/4" D | 25 lb. / carton             |
| S86T725   | S86     | 6 oz.         | 50 Hz - 12 kHz     | 95 dBspl    | 4, 2, 1, 1/2, 1/4, 1/8 | Wire           | 8" Dia. x 3-1/4" D | 32 lb. / carton             |
| S86T725BR | S86     | 6 oz.         | 50 Hz - 12 kHz     | 95 dBspl    | 4, 2, 1, 1/2, 1/4, 1/8 | Screw Terminal | 8" Dia. x 3-1/4" D | 36 lb. / carton             |
| S810      | S810    | 10 oz.        | 70 Hz - 15 kHz     | 96 dBspl    | 8 ohms @ 15W           | Push-on Lugs   | 8" Dia. x 3-1/2" D | 34 lb. / carton             |
| S810T725  | S810    | 10 oz.        | 70 Hz - 15 kHz     | 96 dBspl    | 4, 2, 1, 1/2, 1/4, 1/8 | Wire           | 8" Dia. x 3-1/2" D | 50 lb. / carton             |

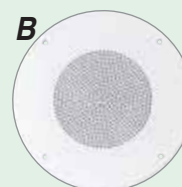
## GRILLES

### CG8AW, SG8W, PG8A, PG8W, PG8U

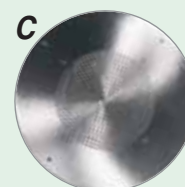
Bogen provides a wide selection of attractive **Ceiling Grilles** in off-white or bright white enamel and aluminum finishes. Each grille is shipped with the hardware needed to mount a speaker to the grille.



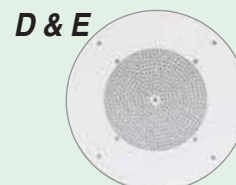
CG8AW



SG8W\*



PG8A



PG8W (shown), PG8U

| Model | Figure | Material | Finish              | Style        | Diameter | Quantity    | Shipping Weight (carton) |
|-------|--------|----------|---------------------|--------------|----------|-------------|--------------------------|
| CG8AW | A      | Aluminum | Off-white Enamel    | Contoured    | 12-5/8"  | 15 / carton | 9 lb.                    |
| SG8W  | B      | Steel    | Bright White Enamel | Low Profile* | 13"      | 10 / carton | 14 lb.                   |
| PG8A  | C      | Aluminum | Satin Aluminum      | Low Profile  | 13"      | 20 / carton | 12 lb.                   |
| PG8W  | D      | Steel    | Off-white Enamel    | Low Profile  | 13"      | 20 / carton | 26 lb.                   |
| PG8U  | E      | Steel    | Bright White Enamel | Low Profile  | 13"      | 20 / carton | 26 lb.                   |

\* Features hidden speaker mounting studs

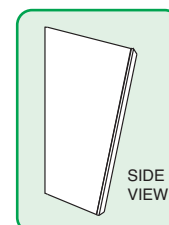
## WALL BAFFLE



### WB8

Bogen's **Wall Baffle** is ruggedly constructed of 3/8" particle board with reinforced corners. It is finished in simulated walnut and will house any Bogen 8" speaker. A sloping front panel (13.5 degrees) provides enhanced downward dispersion. Hardware for mounting a speaker to the baffle included.

| Dimensions   | Shipping Weight (4/carton) |
|--|----------------------------|
| 9-1/2" W x 9-1/2" H x 5-1/4" D<br>(3-1/4" D at bottom) | 10 lb. / carton            |



SIDE VIEW