



6.5" and 8" On-Wall Indoor/Outdoor 70/100V Speaker

Please read these instructions carefully before use and keep this guide for future reference. The part number, serial number, and invoice must be available when requesting support.

Introduction & Features

The W65V-BSC and W80V-BSC are rugged surface mount speakers designed for both indoor and outdoor installations, delivering clear, full-range audio performance for retail, hospitality, educational, and public space applications. Built with a weather-resistant enclosure and flexible mounting system, it provides reliable sound reinforcement in demanding environments while blending seamlessly into any architectural setting.

- Weatherproof design equipped with curved aluminum bracket & grill
- IP66 enclosure with rear cover for protection against the elements
- 1" silk dome tweeter
- 4/8ohm and 70/100V compatible

Speaker Wire

When pulling wire for a 70/100V speaker system, pull distribution lines (each distribution line is a wire pair) in a daisy-chain pattern, (amp to first speaker, first speaker to second speaker, second speaker to third speaker, etc). If distributing stereo, pull individual distribution lines to each speaker location for each pair (left/right) in a daisy chain from the amp location. Use quality stranded speaker wire based upon the 70V speaker wire gauge table below.

Wire Length	Wire Gauge
350ft / 106m	24 AWG
550ft / 167m	22 AWG
900ft / 274m	20 AWG
1400ft / 426m	18 AWG
2300ft / 701m	16 AWG

Specifications	W65V-BSC	W80V-BSC
Tweeter	1in silk dome	1in silk dome
Woofer	6.5in polypropylene	8in polypropylene
Frequency	85 ~ 20kHz	80 ~ 20kHz
RMS power	45W	45W
Outdoor rating	IP66	IP66
Dimensions	8in x 6.7in x 12.6in	9.8in x 7in x 15.6in
	201mm x 169mm x 320mm	250mm x 180mm x 395mm
Weight	6.6lbs / 3kg	9.5lbs / 4.3kg
70V taps	30, 15, and 7.5W	60, 30, and 15W
100V taps	30, 15, 7.5, and 3.7W	60, 30, 15, and 7.5W

Package contents:

- (1) W65V-BSC or W80V-BSC speaker (sold separately)
- (1) 4-pin Phoenix connector
- (1) Set of mounting hardware
- (1) Speaker mounting bracket
- (1) Angled mounting bracket
- (1) Product manual

Installation

Please reference the diagram below for how to install the W65V-BSC and W80V-BSC series of speakers.

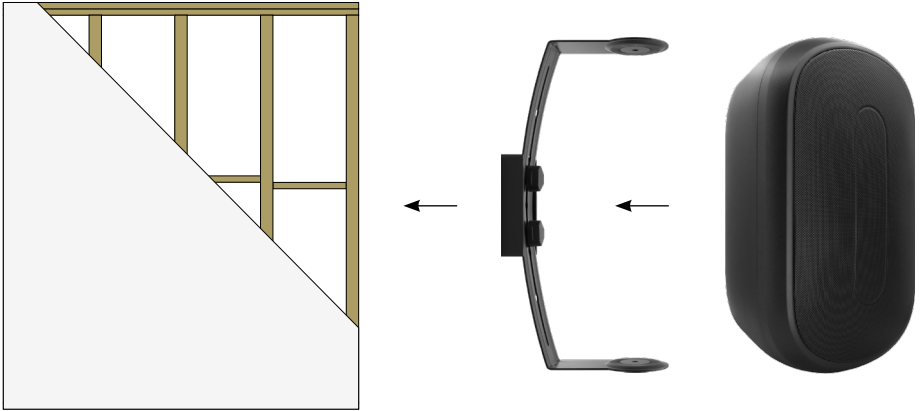
1. Use the bracket to find the appropriate mounting location and position

NOTE: Ensure the location is made of sufficient material to withstand the weight of the speaker. For example, wood/metal studs or other wood structures

2. Fix the bracket to the wall
3. Attach the speaker to the bracket using the provided

Angled Mounting Bracket

The W65V-BSC and W80V-BSC comes with an angled mounting bracket and screws to attach to the speaker. This allows the speaker to be angled as needed while being mounted and secured to a flat surface.



Tap Dial

The tap dial on the rear of the speaker allows for setting the wattage output of the speaker if using with a 70/100V amplifier, or sets the speaker(s) up to be used with an 8ohm amplifier.

NOTE: There are separate taps dial settings for 70V and 100V applications.



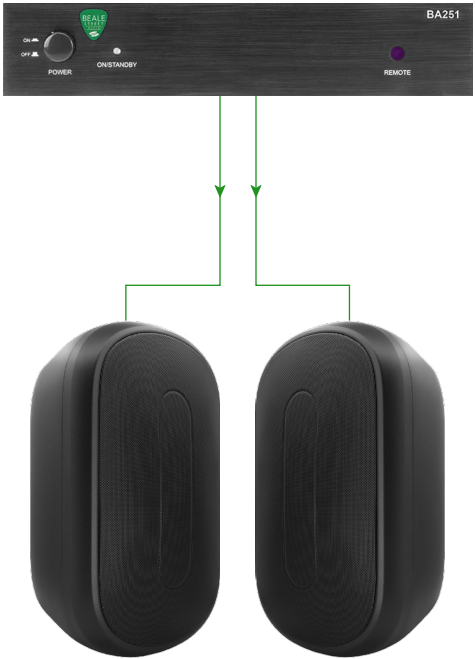
70/100V Connection

The total number of speakers multiplied by the tap value cannot exceed the output power (in watts) of the 70/100V amplifier. The example below shows 3 total speakers. Using the 10W taps, you will need an amplifier with at least 30W (3 speakers x 10W tap). A good rule of thumb is to select an amplifier with 20% greater power; in this case, an amplifier that delivers about 36W.



8ohm Connection

The speaker terminals on the speaker are red on one side and black on the other. Connect to the red terminal of the amplifier to the speaker (+), and connect the black terminal of the amplifier to the speaker (-). Connect each speaker to make sure there is not inverted polarity (+ goes to -). If the polarity of the speakers is reversed, the sound will be unnatural and will play without bass.



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