



Elements™ 212C Sub



Product Specifications

Specifications - Peavey® Elements™ 212C Sub

Frequency range (-10 dB, half space):

45 Hz – 1.5 kHz

Frequency Response, 1 meter on-axis, swept-sine in anechoic environment:

63Hz – 1 kHz (± 3 dB)

Power Handling:

1000W Continuous, 2000W Program, 4000W peak.

Sound Pressure Level, 1 Watt, 1 meter in anechoic environment:

98 dB SPL, (2.00 V input)

Maximum Sound Pressure Level (1 meter):

128 dB SPL continuous

134 dB SPL peak

Transducer Complement:

2x 12in. Woofer, Vented

1208-8 SPS WR Water-Resistant Black Widow® Woofer

Box Tuning Frequency:

59 Hz

Input Connections:

2x Neutrik® Speakon® NL4MD & 1x 4-position barrier strip

Enclosure Materials & Finish:

Cabinet is constructed with 1 / 2" thick advanced technology composite fiber panels, coated in our black Hammerhead™ poly-urea with a lightly textured finish. Triple-layer moisture-repellant grille assembly, consisting of an perforated stainless steel outer grille, with inner hydro-phobic cloth mesh, and a proprietary third layer.

Dimensions (H x W x D):

29.50in. x 14.07 in. x 16.30 in.

749 mm x 357 mm x 414 mm

NOTE: Depth does not include gland nut depth from weather-cover plate, or cable thickness. Allow approx. 1.5" at centerline for gland nut and cable exit.

Weight:

62 lbs. (28.2 kg)

Mounting Provisions:

(12) 3/8"-16 Threaded Mounting Suspension Points (3 each top & bottom and 2 each sides & back). Rubber washers are provided for use with 3/8" eyebolts, to assure a weather tight seal.

Three sets of 4) 1/4X20 SS inserts, the sets are located on the top, rear, and bottom for use with the Peavey® Versamount™ 70+ and the Peavey® Elements™ Pole Mount bracket.

Recommended Low Pass Filter:

Maximum frequency of 125 Hz, LR 24 dB/octave type.

Recommended High pass (Infrasonic) Filter:

45 Hz, LR 24 dB/oct. type.

NOTE: To safely achieve maximum rated SPL output, audio signal must be filtered for extreme low frequency content. All high SPL vented cabinets should have this signal protection.

Features

Compact dual 12" Outdoor Fully-Weatherized Subwoofer Speaker System

- Direct Radiator Vented Subwoofer Enclosure
- Dual 12" Water-Resistant Black Widow® woofers, with a total of 2000 watts program power handling
- Triple-layer perforated SS moisture-repellant grille
- Versatile suspension provisions: 3/8" eyebolts or VM70 bracket or Pole Mount
- Lighting/power pole mounting bracket fly point set
- All external hardware is Stainless Steel
- Enclosure is made of advanced technology composite fiber panels
- Cabinet coated in black Hammerhead™ poly-urea finish.
- Weather-sealed input cup cover with gland nut.
- 70 Volt transformer option available, easily upgraded in the field
- Overall system weatherization rating of IP56

Description

The new Elements™ 212C Sub loudspeaker system from Peavey® Electronics provide unparalleled flexibility for permanent outdoor installations. The Elements™ 212C Sub system is a dual woofer subwoofer speaker system comprised of a pair of 12" Water-Resistant Black Widow® woofers tuned for maximum low frequency output.

The Elements™ 212C Sub speaker system is constructed of 1 / 2 " thick advanced technology composite fiber panels and are coated with a black Hammerhead™ poly-urea finish. A 18 gauge powder-coated perforated stainless-steel metal grille with an inner hydro-phobic cloth mesh, and a foam third layer protects the front of the system from external moisture and dust. A full set of twelve 3/8"-16 threaded mounting suspension points, 3 each top and 3 each bottom, and 2 each sides & back, is provided for flying and mounting, as well as three sets of 4) 1/4X20 SS inserts. The sets of four are located on the top, rear, and bottom for use with the Peavey® Versamount™ 70+ and the Peavey® Elements™ Pole Mount bracket.

The Elements™ 212C Sub has a water-resistant version of the high power Black Widow® WR woofer incorporated, with a resin impregnated cone and dust cap for superior environmental stability. Capable of over 1,000W of continuous power handling (AES Std 2-1984), the pair of weather-resistant woofers can handle a lot of sheer power.

Input connection to the system is made via a pair of 4 pin Neutrik® NL-4 connectors in parallel with a corrosion-resistant 4-position screw terminal strip for input connection flexibility while maintaining superior signal integrity. A sealed cover plate with a gland nut protects the input cup connectors from the environment.

A field installed transformer option is available, providing an easy upgrade to 70V/100V transformer use. The transformer is pre-mounted on a plate, the cover plate is unscrewed and removed from the Elements™ 212C Sub, and the plate mounted transformer installed in it's place, with the simple un-plugging and plugging of

water-proof connectors. The transformer option available for the Elements™ 212C Sub has a 400W, 200W and 100W output tap.

With its compact dimensions for a dual 12" enclosure, this system can put out some serious sound levels, and take large amounts of clean amplifier power, resulting in precise coverage with excellent clarity and high reliability.

⚠ Flying or Mounting the Elements Enclosure

Using the 3/8" inserts and corresponding eyebolts

Caution: Before attempting to suspend this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Failure to follow proper rigging specifications listed in this manual may result in injury or death. See also www.peavey.com/flying_hardware

Always use proper grade hardware. Do NOT over-torque. Inspect rigging annually!

When using the 3/8" inserts and corresponding eyebolt rigging, other enclosures may be suspended below one Elements™ 212C cabinet. However, the combined weight of additional enclosures and all cables, clamps and other hardware must not exceed 238 pounds. The Elements™ 212C weighs 62 pounds and the maximum combined weight suspended from the uppermost mounting bracket assemblies must not exceed 300 pounds.

Maximum enclosure angle 45°. Use only the correct mating hardware, 3/8" X 16 threads per inch eyebolts or hex head bolts, with suitable ratings (Forged shoulder machinery eye bolt, MIL Spec MIL519737-3 OR compliant with ASTM A489.).

Rubber washers are provided for use with the 3/8" eyebolts, to assure a weather tight seal, and they should be used when installing the eyebolts.

All associated rigging is the responsibility of others.

ALWAYS use a suitable safety chain, attached to an unused group of fly points, and firmly attached to a suitable structural member as indicated by a certified structural engineer.

Never transport the cabinet while mounted on an array bracket or other mounting bracket, this may unduly stress the mounting inserts.

The use of threadlocker (blue type/medium strength) on the mounting bolts is recommended, to insure that the mounting hardware will not vibrate loose over time.

Using the VM-70 Mounting Bracket

Caution: Before attempting to suspend this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Other enclosures may NOT be suspended below one mounted using the VM70, nor should additional weight be suspended from one of these units.

The bolts supplied with the VM70 mounting bracket are grade 5 steel bolts, these should be replaced with Stainless Steel bolts, 1/4X20, SS alloy 316 or 18-8 (304).

The length should be from 7/8" long to 1 1 / 4" long.

The wall or beam mounting point for the other end of the VM70 bracket should also use the proper corrosion resistant fasteners.

Always use a suitable safety chain or wire rope, attached to an unused group of fly points, and firmly attached to a suitable structural member as indicated by a certified structural engineer.

Never transport the cabinet while mounted on an array bracket or other mounting bracket, this may unduly stress the mounting inserts.

The use of threadlocker (blue type/medium strength) on the mounting bolts is recommended, to insure that the mounting hardware will not vibrate loose over time.

For instructions on installation with the Peavey® Elements™ Pole Mount bracket, see that products Owner's Manual.

Architectural & Engineering Specifications

Elements™ 212C

The loudspeaker system shall have an operating bandwidth of 63 Hz - 1 kHz. The nominal system output level shall be 98 dB when measured at a distance of one meter with an input of one watt. The nominal impedance of the Elements™ 212C shall be 4 ohms. The maximum continuous power handling of the system shall be 1,000 watts, maximum program power of 2,000 watts and a peak power input of at least 4,000 watts all with a minimum amplifier headroom of 3 dB and proper infrasonic filtering.

The enclosure shall be constructed of 1 / 2" weather-resistant advanced technology composite fiber panels, and finished in a textured hard-shell of black poly-urea coating. The outside dimensions shall be 29.44 inches high by 14.07 inches wide by 16.35 inches deep. The full-length grille shall have a triple-layer construction, consisting of perforated stainless steel outer layer, a hydrophobic cloth middle layer, and a reticulated foam inner layer, so as to provide excellent moisture protection to the drivers. The weight shall be 62 pounds. The loudspeaker system shall be a Peavey Elements™ model 212C Sub.

Care & Maintenance

Designed to be installed outdoors, with direct exposure to the weather, there are still some things that can be done to help maintain the appearance and performance of your Elements™ speaker system.

If possible, install in a location that is out of direct sunlight exposure, this will help reduce any fading or bleaching of the finish and hardware over very long periods of time.

If the speaker is installed near salt water, then a once a week rinse off with clean fresh water will help maintain the appearance of the finish and hardware. A light, low-pressure rinse-off is all that is needed to be helpful.

Connecting the Elements™ C series loudspeakers for outdoor use with the barrier strip and cover plate

For connection to the Elements™ C series speaker system outdoors, the use of the barrier strip is recommended.

Procedure

1. Only remove a small length of the overall outer cable jacket, approximately 1.5 to 2" long.
2. The stripped and tinned ends of the individual wires only need to be long enough to go under the flat washer on the barrier strip, this length is approx. 5/16" to about 3/8". Use lead-free silver solder for the tinning, see

below for more details.

3. Once the speaker cable has had the ends tinned, install the gland nut onto the cover plate. You will need to hold the outer gland nut base with a pliers or socket wrench to fully tighten the gland nut inner jam nut portion tight up against the plate. **DO NOT** overtighten the gland nut base during cover plate installation! Then loosely screw the gland nut compression nut to prepare for cable insertion and final tightening.
4. Now thread the cable through the gland nut, and leave about 7" of cable and jacket sticking out past the inside of the cover plate. Then tighten the gland nut down firmly till it seals against the cable jacket. You may need to hold the outer gland nut base with a pliers or socket wrench to fully tighten the gland nut compression nut down firmly against the cable jacket. This is enough length of cable inside the cover plate to allow the cover plate to pivot out of the way while the wires are being tightened down at the barrier strip.
5. Remove the 8 thumb screws from the periphery of the input cup recess, these will then hold on the cover plate once it is in position. These are the large head screws with a single slot in the head. **DO NOT REMOVE THE INPUT CUP RETAINING SCREWS** (small Phillips head screws) **AROUND THE OUTER FLANGE OF THE INPUT CUP!**
Do not drop or lose the thumb screws.
6. Place the cover plate rubber gasket over and past the tinned wire ends of the cable, and then tighten the wires firmly under the barrier strip flat washers, but do not apply so much force as to distort or damage the barrier strip washer or screw.
7. Coat the exposed wires and terminals with an anti-oxidant compound or other protective coating for best long-term results. **DO NOT USE RTV SILICONE RUBBER, AS THIS COULD CORRODE THE PARTS OR WIRES!**
Petroleum jelly, WD-40™, and anti-oxidant compound as used on aluminum electrical house wiring are examples of such a protective coating.
8. Once the wires are tight under the barrier strip washer, the cover plate with its rubber gasket can be fully installed. Use the thumb screws that were removed earlier, and carefully position the rubber gasket in between the cup and the plate around the edge, so it will seal properly. Position the 7" of cable to curve around inside the cavity formed between the input cup recess, and the cover plate, so the cable does not get caught under the rubber gasket or the edge of the cover plate. Then tighten the thumb screws firmly so as to seal the cup terminals under the cover plate and gasket.

NOTES:

Solder alloy to use for tinning

Use lead-free silver alloy based solder (typically an alloy of 96% tin, 3.5 to 4% silver and traces of some other metal such as copper or indium, etc.) to help reduce any corrosion issues with the screw terminal barrier strip parts.

Length of cable inside cover

It is possible to pull the cable through the gland nut while it is still loose, and put the cover plate on, and then tighten down the gland nut, but this does not allow enough strain relief for the cable, and would make it difficult to remove the cover plate without first loosening the gland nut, and this is not something that you can expect a future Service person to know to do first.

It is strongly recommended that the full 7" of cable past the cover plate on the inside of the plate be allowed for and used.

Gland Nut Cable Diameter Range

The gland nut can seal an outer cable jacket diameter in a range from 0.170" to 0.450". Cables used to hookup the Elements speaker system should be of a sufficient gauge to handle the power they will be used with, have an outdoor rated jacket material and thickness, and the resultant cable jacket diameter should then be larger than 0.170".

Exposure to Salt Spray or other Corrosive Environments

Contact Peavey Electronics for use of the Elements enclosures when the speaker and mounting hardware will be exposed to salt spray or other corrosive environments. In general, eyebolts and mounting bolts should be changed to a rigging grade Stainless Steel 316 alloy.



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Warranty registration and information for U.S. customers available online at
www.peavey.com/warranty
or use the QR tag below



Features and specifications subject to change without notice.

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Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/38,13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
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