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212IM™

TWO-WAY DOUBLE 12" LIGHT WEIGHT COPOLYMER-BASED ALL-WEATHER LOUDSPEAKER SYSTEM

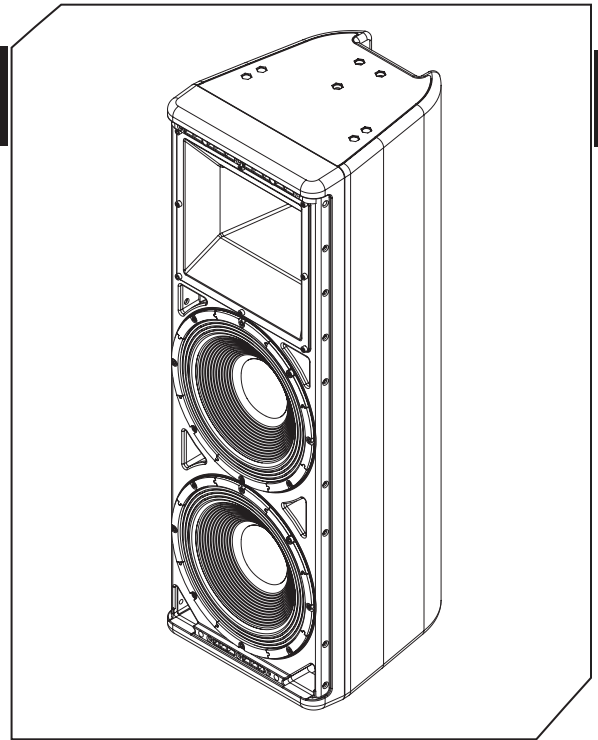
ONE SYSTEMS®

The One Systems® 212IM™ is a double 12-inch two-way all-weather loudspeaker system with an injection-molded copolymer enclosure. The 212IM may be used in direct weather outdoor installations as well as indoor applications where high vocal intelligibility and sonic accuracy are required. Like all One Systems models, the 212IM was designed to offer excellent full-range reproduction as well as superior vocal reproduction and intelligibility plus good musical clarity. Because the 212IM utilizes two of One Systems' 12I/O Inside/Only 12-inch low-frequency drivers in a vertical array, the mid-bass polar pattern delivers a higher Q than that of a single 12-inch two-way system as well as wider response and higher output. This feature makes the 212IM ideal for use in reverberant spaces or for longer-throw applications both outdoors and indoors. The system's high-frequency transducer is a One Systems' Equivalent Throat large-format driver coupled to a fully rotatable horn (additional details are available in the Tech Papers section of www.onesystems.com).

The 212IM offers a wide range of suspension possibilities and a complete selection of optional array and flying/suspension hardware is available. The 212IM is also available with an optional 600-watt, 3-tap autoformer (150 watt, 300 watt, and 600 watt taps).

The 212IM is optimized for use in outdoor applications such as football stadiums, baseball stadiums, racetracks and other sports venues where permanent installation and direct weather capability are required. The system is also well suited for outdoor general public address applications. The system is equally suited for general-purpose indoor applications in multi-purpose rooms, indoor sports venues and general performance or vocal-intensive applications too. The 212IM is an ideal choice when higher sound pressure levels or higher-Q systems are specified.

The 212IM's enclosure is made of an injection-molded copolymer that is optimized for high UV exposure and is designed to deliver long life in harsh environments. All internal and external rigging and suspension hardware, as well as the metal grill are made of stainless steel or high-strength aluminum. The speaker's grill is a 3-layer "rain shield" design that minimizes direct rain contact with the system's transducers. The 212IM's unique vent design also allows for effective moisture drainage from the interior of the enclosure. The enclosure and grill are rated to IEC 529 / IP 45 (solid object penetration to 1 mm (0.04 inches) and water jets from any direction). The enclosures and components are also tested to Mil Spec 810.



FEATURES & BENEFITS

- » Direct-weather capable dual 12-inch two-way system
- » High-quality components and design detail deliver high intelligibility and beautifully detailed vocal articulation
- » 2-Element vertical array delivers excellent vertical pattern control
- » 60° x 40° Equivalent Throat fully rotatable high-frequency horn enables vertical or horizontal orientation
- » Large-format ET-1 pure titanium compression driver with neodymium magnet ensures detailed highs with lifelike presence
- » Two 12-inch Inside/Only woofers with 4-inch voice coils delivers smooth lows and mids with high power handling
- » Available in low-impedance or transformer-coupled versions
- » 19 x M10 inserts for mounting and placement flexibility

SPECIFICATIONS

Frequency Response:	60 Hz – 16,000 Hz
Coverage Pattern:	60 x 50 (ET60/40) – fully-rotatable
Passive Crossover Frequency:	1,000 Hz (ET60/40)
Inputs:	5-position barrier strip



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The 212IM's input section features two 4-pin Neutrik® Speakon® connectors and a stainless steel hardware barrier strip. A weather cover is provided with an integral gland nut for use in outdoor applications. In the outdoor configuration, connections are normally made via the 4-position barrier strip. The inputs are protected from direct weather by the weather cover. The system's gland nut is weatherproof and is rated NEMA 6P (IP 68). This connector will accommodate cable diameters from 7 mm to 12 mm (0.236 inch to 0.472 inch). The gland nut's maximum diameter will accommodate most 2-conductor AWG 12 cable assemblies.

The 212IM's design utilizes a patent-pending high-frequency driver and horn combination. A fully rotatable high frequency horn is a standard feature in this system. The ET-60/40 delivers a 60-degree horizontal by 40-degree vertical pattern and may be rotated to also provide a 40-degree horizontal by 60-degree vertical orientation. This unique design offers wide-bandwidth polar control and low distortion.

The patent-pending ET driver (full details are available at the One Systems web site, www.onesystems.com) is a unique "equivalent throat" design that allows its radiation pattern to be controlled by the phase plug's summation plane rather than the conventional "exit diameter" at the end of the driver's structure. The ET driver has a large-format titanium diaphragm and a close-spaced circumferential ring phase plug to insure extended high frequency bandwidth.

The low frequency design is also patent-pending. Its two 12 inch 12 I/O Inside/Only woofers utilize a unique voice coil that is wound on the inside of the voice coil's support structure. This design allows for both high magnetic system displacement as well as increased thermal transfer which results in greatly reduced power compression and higher reliability.

Because the One Systems' 212IM is designed for permanent installation applications, a variety of rigging and suspension

options are available. The 212IM has 19 x M10 mounting points built in. A One Systems' Eye Bolt Kit containing 4 forged-shoulder eye bolts is available for use on all of the 212IM's M10 suspension points. The 212IM may be suspended as a single unit using One Systems' 212IM-U U-Bracket in vertical or horizontal configuration.

There are also two planar array brackets available as options for the 212IM. A simple planar array will allow multiple 212IM's to be suspended in a single horizontal, 1-deep planar array. This array configuration provides for 5-degree horizontal aiming steps. The bracket necessary to build simple arrays is the One Systems FLY-112IM. There is also a T-Bracket available that will allow two-deep planar arrays, where the second row consists of 112IM or 112IM-Sub enclosures in a down-fill orientation. The FLY-112IM-T T-Bracket also provides for 5-degree horizontal aiming increments.

The 212IM system also offers a down-fill bracket option (DF-IM) that allows a single 112IM or 212IM to be suspended upside down below a 212IM. This allows the lower 112IM or 212IM to be configured for down-fill applications. The DF-IM allows for 5 degrees aiming increments in the vertical plane. As mentioned previously, the 212IM and 112IM may be used with a DF-IM and a "T" bracket or with the Eye Bolt Kit as well. The 212IM is also optionally available in a white enclosure equipped with 316-grade, marine-quality stainless steel grille and hardware (212IM-W-Marine) for use at sea or in other corrosive environments.

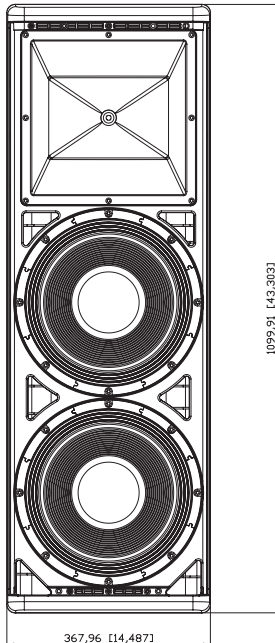
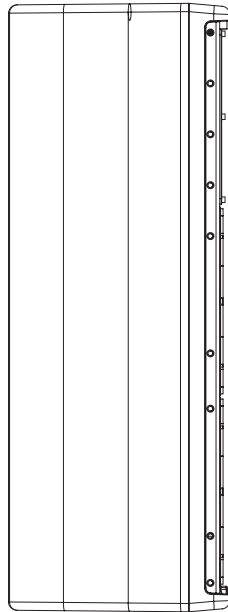
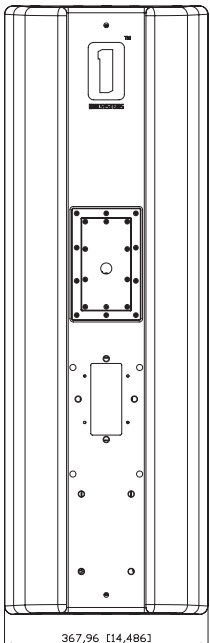
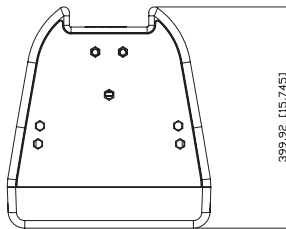
With its unique combination of all-weather capability, high intelligibility, pristine vocal reproduction and excellent musical clarity, large number of hanging and suspension options and a range of companion models and subwoofer systems, the One Systems 212IM is a high-performance option for large-format sound systems.

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SPECIFICATIONS (cont.)

or 2 x 4 pin Neutrik Speakons

System Sensitivity (1 watt / 1 meter): 99 dB

Power Handling: 1,200 watts continuous,
2,400 watts program,
4,800 watts peak*

Transformer Taps: 150 watts, 300 watts, 600 watts

Nominal Impedance: 4 ohms

Low Frequency: 2 x One Systems 12 I/O

High Frequency: One Systems ET Driver

Processor Settings: onesystems.com

EASE 4.0 data: onesystems.com

Suspension / Mounting points: 19 x M10

Weather Performance: IEC 529 / IP 45 /
Mil Spec 810

Dimensions (H x W x D) mm: 1,100 x 368 x 400

Dimensions (H x W x D) in: 43.3 x 14.5 x 15.7

Net Weight: 40.5 kg / 89.3 lb.

70.7 / 100-volt versions: 43.8 kg / 96.6 lb

Shipping Weight: 50 kg / 110 lb.

70.7 / 100-volt versions: 53.2 kg / 117.04 lb

Optional Accessories: 212IM-U U-Bracket kit; Eye Bolt Kit M10 Forged Shoulder Eye Bolt Kit; Pole Mount System EX-2; Pole Mount System EX-3; PT-76 Pan & Tilt Bracket

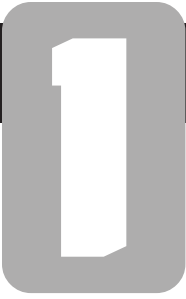
Additional Supporting Systems: 212Sub-W subwoofer (Simple and "T" planar arrays); 118Sub-W; 218Sub-W

* All power handling ratings are amplifier headroom dependent

ONESYSTEMS®

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All ONE SYSTEMS enclosures that feature autoformers may be wired as shown below. The 212IM-70/100 allows for both 70.7V and 100V wiring. The taps are 600 watts, 300 watts, and 150 watts. All wiring is via the five-position barrier strip. Please note that the autoformer primary and secondary grounds are not isolated.

CAUTION: The weather cover must be installed (even if the enclosure is not installed in an outdoor venue) after the connections to the barrier strip are made. Installation of the weather cover is mandatory and will isolate the high voltages present on the terminal strip from contact.

Figure 1 is a schematic diagram of the transformer wiring for both the 100 volt and 70.7 volt models.

INPUT	POWER LEVEL
1+	Ground
1-	600 Watts
2+	300 Watts
2-	150 Watts

