



212 CIM™

LIGHT-WEIGHT COPOLYMER-BASED ALL-WEATHER LOUDSPEAKER SYSTEM

ONE SYSTEMS®

The 212CIM™ is a very compact high output loudspeaker system. The 212CIM was designed to produce very high sound pressure level vocal range content with very high intelligibility. Unlike most compact high level vocal range systems, the ONE SYSTEMS® 212CIM is not a series of horns “nested” inside larger horns. These prior art designs suffer from poor vocal intelligibility and are characterized by that traditional “honky” horn sound. The 212CIM is a very compact dual 12 inch system that uses a single coaxially mounted high frequency horn to enhance higher frequency vocal information. The vocal fundamentals are reproduced by a 2 element direct radiator design that does not suffer from the traditional colorations found in horn systems. The 212CIM is basically a compact 2 element 12 inch vertical array where the top 12” incorporates a coaxially mounted large format compression driver.

The 212CIM may be used in direct weather outdoor installations as well as indoor applications where high vocal intelligibility and accuracy are required. Like all ONE SYSTEMS products, the 212CIM was designed to not only offer excellent full range fidelity but superior vocal reproduction and intelligibility as well. For full range applications, the 212CIM may be coupled with the 212Sub-W to provide full bandwidth operation at very high sound pressure levels in a very small footprint.

The 212CIM system offers a complete selection of array and flying/suspension hardware. The enclosure is also available with a 150 watt 3 tap line matching transformer. The 212CIM-100 or 212CIM-70 may be ordered with either a 100V or 70.7V primary.

The 212CIM is optimized for outdoor applications such as football stadiums, baseball stadiums, race tracks and

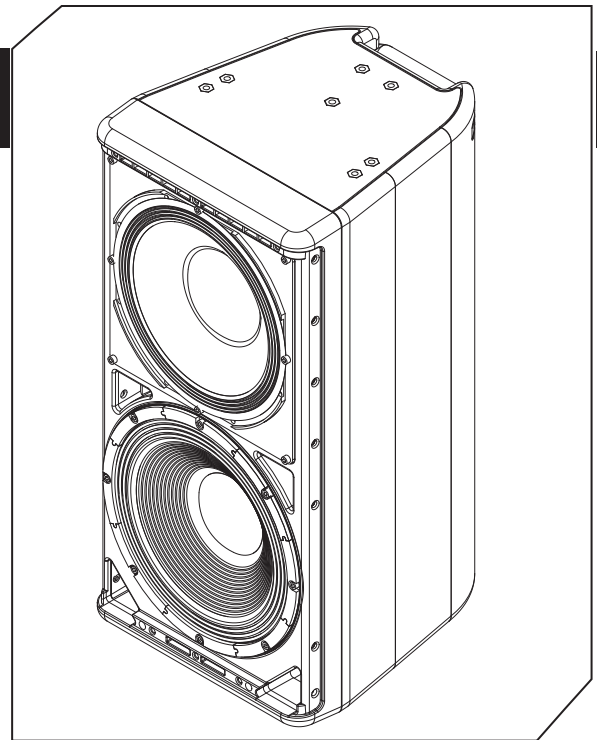
other sports venues where permanent installation is required as well as a direct weather exposure. The system is particularly suited for compact but high level announcements and general vocal range reproduction. The system is equally suited for general purpose indoor applications in multipurpose rooms, indoor sports venues and general performance or vocal intensive applications.

The 212CIM enclosure is a copolymer optimized for high UV exposure and long life in harsh environments. All internal and external rigging and suspension hardware, as well as the metal grill are stainless steel or high strength aluminum.

The grill is a 3 layer “rain shield” design that will minimize direct rain contact with the systems transducers. The unique vent design also allows for easy moisture drainage from the interior of the enclosure. The enclosure and grill design are rated to IEC 529 IP45 (solid object penetration to 1 mm (0.04 inches) and water jets from any direction). The enclosures and components are also rated to Mil Spec 810

The input section consists of both 4 pin Neutrik Speakons as well as a stainless steel hardware barrier strip. A weather cover is provided with an integral gland nut connector for outdoor applications. In the outdoor configuration connections are made thru the 4 position barrier strip. The input is user switchable for either full range or bi amp operation. The switch is located on the input plate and is isolated from direct weather by the weather cover.

The gland nut is weather proof and is rated NEMA 6P (IP68). The connector will accommodate cable outside diameters from 7mm to 12mm (0.236” to 0.472”). The maximum diameter will accommodate most 2 conductor AWG 12 cable assemblies.



FEATURES AND BENEFITS

- Very High SPL Vocal System
- Direct weather 12” two way system.
- Optimized for high intelligibility and vocal articulation.
- Patent Pending large format titanium/neodymium compression driver.
- Patent Pending large format voice coil low frequency.
- Multiple M10 flying points.
- Available Array Downfill, and “U” brackets.
- Gland nut and Speakon inputs (Weather cover for Gland nut installations).
- Optional versions (212CIM-100 and 212CIM-70) with 600 watt 3 tap 100V or 70V line matching transformer

SPECIFICATIONS

Frequency Response:	75Hz – 16kHz
Coverage Pattern:	70 degrees conical
Passive Crossover Frequency:	1800 Hz
Externally Switchable Bi-amp / Full Range:	See website for crossover presets
Inputs:	4 position barrier or 2 each 4 pin Speakon
System Sensitivity: (1watt-1meter)	99dB
Power Handling:	1200 watts Continuous 2400 watts Program 4800 watts Peak*
Nominal Impedance:	4 ohms

* All power handling ratings are amplifier headroom dependent



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The basic configuration of the 212CIM is a 2 element vertical arrangement of ONE SYSTEMS 12" direct radiator full range loudspeakers. The top 12 inch has a state of the art "thru the pole piece" coaxially oriented high frequency horn and driver combination. The high frequency radiation pattern is fixed and not rotatable but optimized for medium to long throw applications.

The low frequency design is a patent pending ONE SYSTEMS 12 inch 12 I/O woofer (Inside Only) utilizing a unique voice coil wind on the inside of the voice coil support structure. This design allows for both high magnetic system displacement as well as increased thermal transfer. This results in reduced power compression and higher reliability.

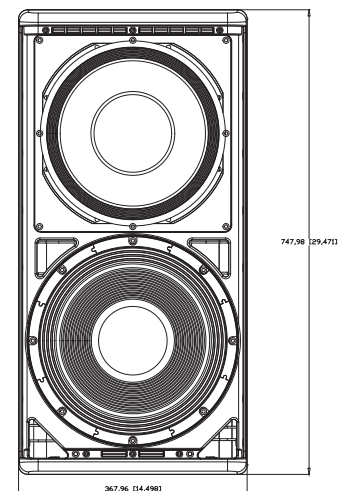
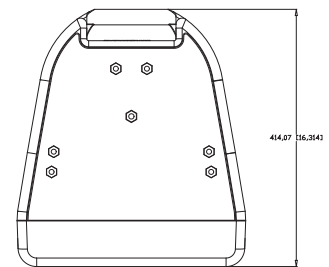
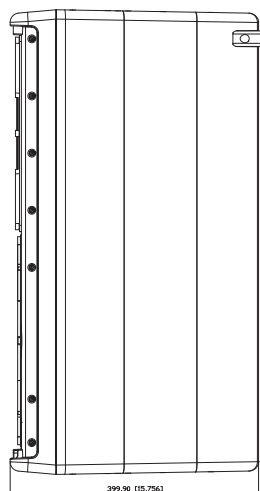
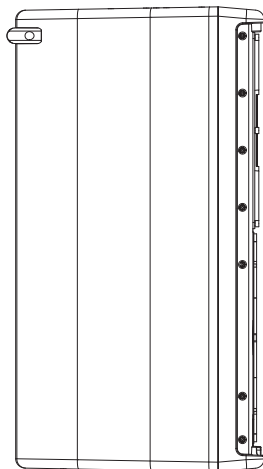
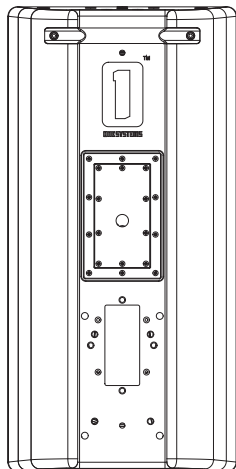
Because the ONE SYSTEMS 212CIM is designed for permanent installation applications a variety of rigging and suspension options are available. The 212CIM has 20 M10 mounting points. An M10 forged shoulder eye bolt kit is available for all M10 suspension points.

The 212CIM may be suspended as a single unit using the ONE SYSTEMS "U" bracket in either a vertical or horizontal configuration. The "U" bracket is a ONE SYSTEMS 112IM-U.

There are also two planar array systems available. A "simple" planar array that will allow multiple 212CIM's or an array of 212CIM's and a 212Sub-W sub woofer. The simple array bracket will allow for 1 deep planar arrays. This array provide for 5 degree horizontal aiming steps. The simple array is the FLY-112IM. The "T" array is the FLY-112IM-T

The 112IM may be mounted in selected installations (when permitted by local codes and appropriate substrates) using either a ONE SYSTEMS pan and tilt bracket (PT-70) or an Omni Mount series 120 bracket.

The 212CIM is also available in a line matching transformer version in both 100V and 70.7V ratings. The internal transformer is a 600 watt 3 tap (600 watts, 300 watts, and 150 watts). This the 112IM-100 or 112IM-70 version.



SYSTEM SPECIFICS

Low Frequency:	ONE SYSTEMS 12 I/O ONE SYSTEMS 12C
High Frequency:	Modified ET large format Compression driver
System Tunings (Bi-amp mode):	www.ONESYSTEMS.com
EASE 4.0 data	www.ONESYSTEMS.com
Suspension/Mounting points:	20 each M10
Weather Performance:	IEC 529 IP 45 Mil Spec 810
Dimensions (H x W x D):	749mm x 368mm x 414mm (29.5 in x 14.5 in x 16.3in)
Net Weight:	32.8 kg (72 lb) 70/100V versions 36.1 kg (79.3 lb)
Optional Accessories:	112IM-U "U" bracket kit FLY-112IM FLY-112IM-T M10 Forged Shoulder Eye Bolt PT-70 Pan & Tilt bracket
Additional Supporting Systems:	212Sub-W subwoofer (Simple and "T" planar arrays)