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208CIM™

COMPACT TWO ELEMENT VERTICAL ARRAY LOUDSPEAKER SYSTEM

ONE SYSTEMS®

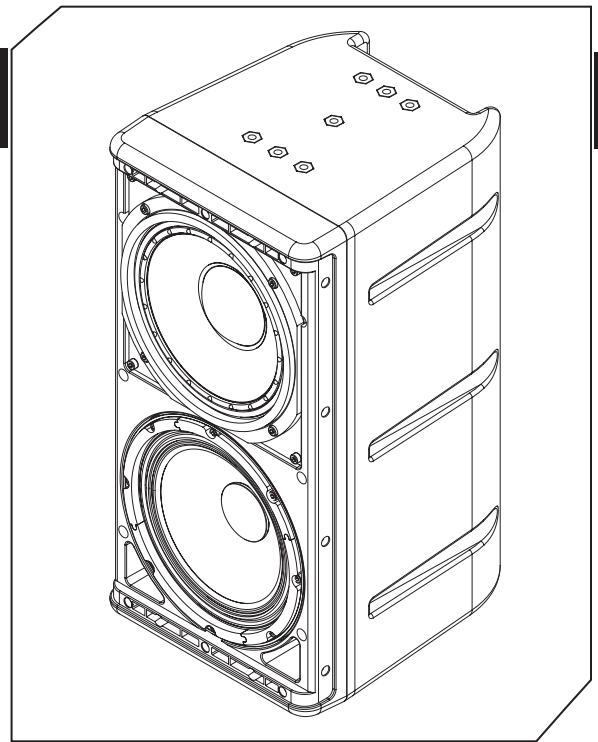
The 208CIM™ is a very compact two element vertical array (LF and Mid Bass) high output loudspeaker system. The 208CIM was designed to produce very high sound pressure level vocal range content with very high intelligibility. The 208CIM is a very compact dual 8 inch system that uses a single coaxially mounted high frequency horn to reproduce 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 208CIM is basically a compact 2 element 8 inch vertical array where the top 8" incorporates a coaxially mounted large format compression driver.

The 208CIM 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 208CIM was designed to not only offer excellent full range fidelity but superior vocal reproduction and intelligibility as well. The unique design of this system allows both extended range directional control through the vocal fundamental range and twice the acoustic output compared to conventional 8 inch two way designs.

The 208CIM 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 208CIM-70/100 is factory wired for both 70Vrms and 100Vrms operation. The tap values are 150 watts, 75 watts, and 37.5 watts.

The 208CIM 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 high SPL capability of the 208CIM allows it to be used in many applications where a traditional 12 inch two way system would be used. 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 208CIM 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.



FEATURES & BENEFITS

- » Very High SPL Vocal System.
- » Direct weather two element vertical array two-way system.
- » Optimized for high intelligibility and vocal articulation.
- » Multiple M8 flying points.
- » Available Pan and Tilt, and "U" brackets.
- » Gland nut and Speakon inputs (Weather cover for Gland nut installations).
- » 208CIM-70/100 with 150 watt 3 tap line matching transformer
- » Available in black and white colors

SPECIFICATIONS

Frequency Response:	65 – 16kHz
Coverage Pattern:	70° conical
Passive Crossover Freq.:	2,000 Hz
Inputs:	5-position barrier strip or 2 x 4-pin Speakon
System Sensitivity (1watt / 1meter):	96 dB
Power Handling:	400 watts continuous, 800 watts program, 1600 watts peak*
Nominal Impedance:	4 ohms
Low Frequency:	One Systems 8, 8C
High Frequency:	Medium format compression driver



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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 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.

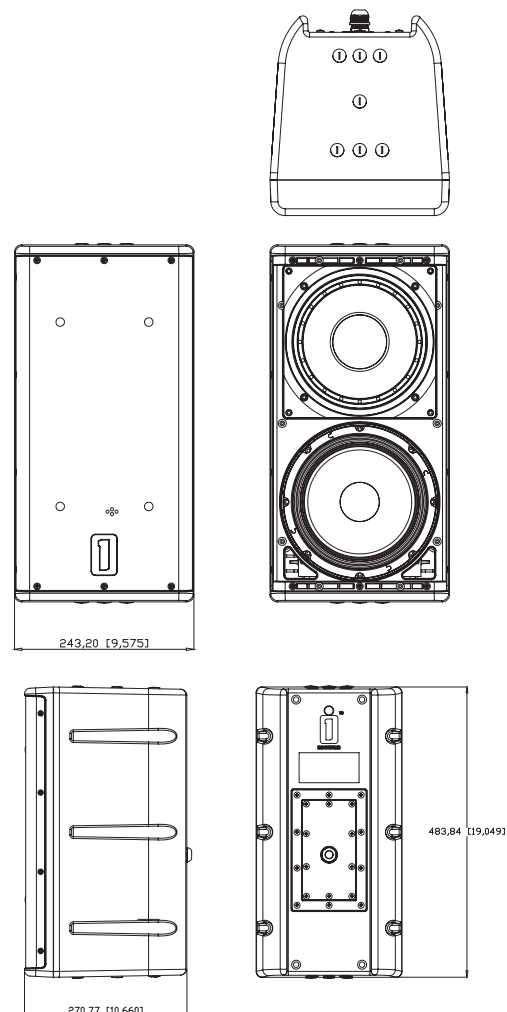
The basic configuration of the 208CIM is a 2 element vertical arrangement of ONE SYSTEMS 8” direct radiator full range loudspeakers. The top 8 inch has a state of the art “thru the pole piece” coaxially oriented high frequency horn and driver combination. The high frequency radiation pattern is fixed and not rotatable but optimized for medium throw applications.

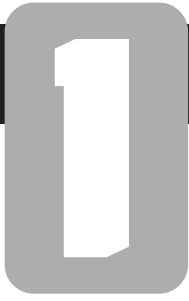
Because the ONE SYSTEMS 208CIM is designed for permanent installation applications a variety of rigging and suspension options are available. The 208CIM has multiple M8 mounting points. An M8 forged shoulder eye bolt kit is available for all M8 suspension points The 208CIM may be suspended as a single unit using the ONE SYSTEMS “U” bracket in either a vertical or horizontal configuration. The “U” bracket is a ONE SYSTEMS 108IM-U

The 208CIM may be mounted in selected installations (when permitted by local codes and appropriate substrates) using either a ONE SYSTEMS pan and tilt bracket (PT-35). bracket.

SPECIFICATIONS (cont.)

EASE 4.0 Data	onesystems.com
Suspension/Mounting points:	M8
Weather Performance:	IEC 529 / IP 45 / Mil Spec 810
Dimensions (H x W x D) mm:	483.84 mm x 243.2mm x 270.77 mm
Dimensions (H x W x D) in:	19.05 in x 9.56 in x 10.66 in
Net Weight:	18 kg (39.7 lb) 19.5 kg (43 lb) trans- former versions
Optional Accessories:	108IM-U; PT-35 Pan and Tilt bracket; M8 Forged Shoulder Eye Bolt kit PT-30 (new); PT-38 (new)





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Constant Voltage Transformer Wiring

COMPACT TWO ELEMENT VERTICAL
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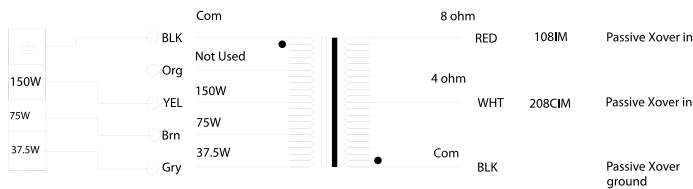
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All ONE SYSTEMS enclosures that feature constant voltage transformers may be wired as shown below. The 208IM-70/100 allows for both 70.7V and 100V wiring. The taps are 150 watts, 75 watts, and 37.5 watts. All wiring is via the five-position barrier strip. The wiring is shown in Table 1.

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.

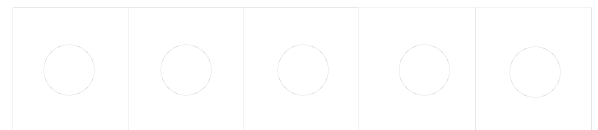
Figure 1 is a schematic diagram of the transformer wiring for both the 100 volt and 70.7 volt models.

100V Wiring

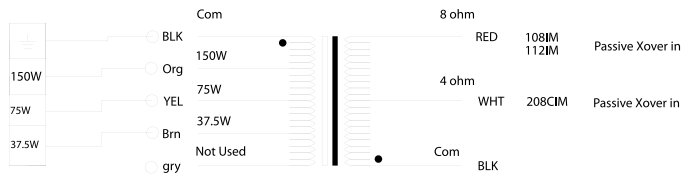


Wire color to barrier strip pin

BLK Org YEL Brn gry



70.7V Wiring



100 V

70.7V

	NC	150 W	75W	37.5W
	150 W	75W	37.5W	NC

ONE SYSTEMS®

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