# ONE SYSTEMS, INC. FULL LINE CATALOG





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# BELGIUM AQUARIUM • ANTWERP, BELGIUM • 106IM







#### THINK OUTSIDE WITH ONE SYSTEMS

At One Systems, we do things differently. We design and build high intelligibility, premium loudspeakers that deliver top-class performance and can survive any weather condition. One Systems' patented models aren't just speakers with direct-weather capability – they're incredible, high-performance speakers that can be used outdoors or indoors.

With One Systems, full weatherproofing is a standard feature on every model. All One Systems models employ weather-fighting features like our 3-layer stainless steel "rain shield" grille that keeps rain, snow and dust particles away from the systems' transducers. Our super-tough enclosures are made of weather and UV-resistant copolymer or fiberglass. All models have stainless steel inserts and heavy support structures that deliver incredible mounting flexibility and >8:1 safety factor ratings even in extreme weather conditions.

One Systems develops and builds its own drivers using advanced acoustic technologies like our patented Equivalent Throat Technology™ and Inside/Only Voice Coil™. These designs ensure high vocal intelligibility and superb full-range frequency response in any environment. One Systems models will deliver years of premium audio performance for your application no matter what the weather condition.

#### **ACOUSTIC INNOVATIONS**

#### **EQUIVALENT THROAT TECHNOLOGY®**

One Systems' Equivalent Throat<sup>®</sup> technology (ET) produces wider response with more even dispersion than conventional horn/driver combinations. Typical Low Q horns use diffraction slots and have resonant cavities that cause audible resonances and create



performance losses. Equivalent Throat<sup>®</sup> technology precisely couples the horn and driver perfectly and delivers the rated coverage pattern up to 13,000 Hz – far wider response than any other design available. This exclusive One Systems technology produces beautifully detailed high-frequency response and ensures well-defined even coverage without beaming.

#### **ET-1 COMPRESSION DRIVER**

One Systems' unique ET-1 driver's "equivalent throat" design allows its radiation pattern to be controlled by using a reduced exit radius instead of the conventional exit diameter at the top of the driver's structure. The ET-1 driver has a large-format pure titanium diaphragm, a powerful magnet structure and a close-spaced circumferential phase plug to ensure extended bandwidth. It delivers superior transient response and low distortion – differences that you'll quickly hear!



### **INSIDE/ONLY VOICE COIL TECHNOLOGY®**



One Systems woofers feature Inside/Only<sup>®</sup> (I/O) technology – a significant new design innovation. The entire height of the coil is in physical proximity to the pole section of the magnet structure. This allows the coil to have substantial cooling regardless of position. Typical prior art designs have the coil positioned on the outside of the coil support structure. This prior art positioning limits the cooling to the physical height of the front plate, which usually always presents a reduced area for thermal transfer. The enhanced cooling not

only improves device reliability, but also reduces power compression. The Inside/Only<sup>®</sup> design also allows for the coil to move away from the magnet structure metal and reduces the possibility of coil rubs, rather than toward it.

#### **OPTIMUM HF COVERAGE FLEXIBILITY**

Many One Systems models offer a choice of interchangeable and fully rotatable high frequency horns that enable them to be perfectly matched to your application. With a choice of long-throw or wide-throw coverage plus the flexibility to place the speaker horizontally or vertically, you can custom-configure the speakers to meet your application's requirements.

#### THE "UNWRITTEN SPECIFICATION"

The fundamental job of a sound reinforcement system is to reproduce speech with perfect intelligibility. If a system can't reproduce all the nuances of voices perfectly, it won't reproduce anything else accurately. Intelligibility is the essential quality that separates great from average loudspeakers – and there is no conventional specification that denotes this important aspect of performance.

All One Systems models are designed to have the perfect combination of wide, linear response, low coloration and superlow time-domain distortions that enable them to reproduce voices with high intelligibility and music with stunning clarity and superb definition that other systems just can't match.

All One Systems models are designed to project highly intelligible sound at the output levels necessary for use outdoors or in high ambient noise applications indoors. With One Systems speakers, all parts of the audio spectrum are perfectly balanced which enables their sound to carry a great distance sonically intact. One Systems engineers minimize sonic colorations in each system by using premium-quality transducers and through clever acoustic and mechanical refinements which short-circuit resonant modes. You'll easily hear the improvement in response, intelligibility and clarity these innovations deliver.

#### WEATHER-RESISTANCE

#### WEATHER-TREATED COMPONENTS

All One Systems drivers are built for long life in tough weather conditions. Unlike some "weather resistant" designs that are simply treated on the front, One Systems' cones are fully impregnated throughout so that both sides of the drivers are protected against moisture and the elements. Every part of the system was designed and is built to handle moisture and temperature extremes.





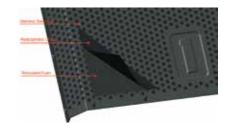
#### **INPUT WEATHER COVER**

All One Systems' models are equipped with input weather covers with an integral gland nut for use in outdoor applications. The weather cover's gland nut is rated at IP 68, is completely weatherproof and they can be used with cables up to AWG 12. When the gland nut is tightened on the cable correctly, it will prevent moisture intrusion even if it's submerged for models 108IM and higher.

#### THREE-LAYER "RAIN SHIELD" GRILLE

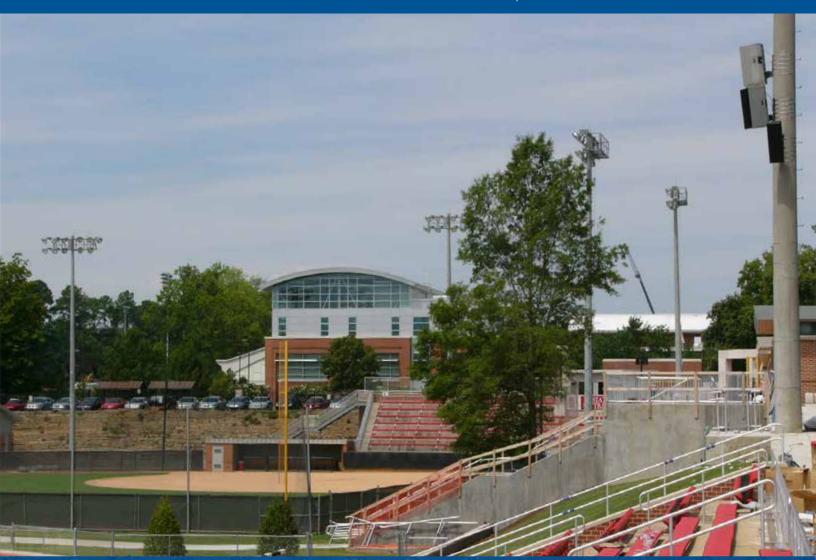
All One Systems models feature three-layer "rain shield" grilles. The grille's outside layer is made of heavy-gauge 304-grade stainless steel that offers extreme corrosion resistance and physical protection for the

transducers. The second layer is a fine-woven hydrophobic cloth that can't absorb water and breaks up any direct water streams or raindrops into a mist. The third layer is reticulated foam that breaks up moisture and directs it downward so that it will either evaporate or flow out of the enclosure. This combination of these three layers limits moisture intrusion into the enclosure to keep the transducers and crossover dry.



#### TWO ADDITIONAL GRADES OF PROTECTION

One Systems offers several of its models with 316-grade stainless steel grilles and hardware as an option for cruise ships and salt water coastlines. In addition, we also offer our new NATATORIUM SERIES speakers that feature AL6XN stainless steel that protects against corrosion caused by chloramines found in indoor pools. This ultra-premium stainless steel guards against pitting and crevice corrosion and can add years of useful life. This process keeps its like-new appearance, even when used in highly corrosive environments. Available models in marine-grade stainless steel include the 103IM, 106IM, 108IM, 112IM, 208CIM, and 212CIM. New Natatorium Series models include the 108/NAT and 112/NAT.



# DIRECT-WEATHER INJECTION-MOLDED ENCLOSURES

In direct weather applications where speaker systems have no protection from the elements, One Systems injection-molded enclosures can easily withstand the harshest weather conditions and deliver long useful life. Unique, proven weatherproofing features include our 3-layer "rain shield" grilles that greatly minimizes direct moisture intrusion into the enclosure; high-quality UV-resistant injection molded copolymer with stainless steel mounting and suspension systems are designed to provide high safety factor ratings even in extreme weather conditions. All grilles, mounting brackets and hanging hardware are made of high-quality stainless steel.

For EASE data and more detailed product information, visit our website at www.onesystems.com.

# 103IM

#### 3.5-INCH TWO-WAY ALL-WEATHER SPEAKER SYSTEM

The 103IM provides excellent sound quality and tremendous flexibility in a small-format, direct-weather capable speaker system that's perfect for distributed systems or background music applications. The 103IM utilizes a high-performance 3.5-inch woofer with a large-diameter 1.25-inch voice coil and a high-frequency driver coupled to a wide dispersion 110° x 80° waveguide. Unlike other small speakers, the 103IM's components don't need passive protection.

The 103IM's combination of high-efficiency horn-loaded tweeter and large voice coil woofer yields superior intelligibility, musical clarity and wide response. The 103IM's enclosure has multiple M5 mounting points for use with the supplied U-Bracket or for the optional PT-10 pan and tilt bracket. The 103IM's grille assembly, barrier strip input section and enclosure are all designed to handle extreme weather and direct sunlight while delivering years of high performance.



Frequency Response (+ 3 dB):	85 - 20,000 Hz
Coverage Pattern:	110° x 80°
Sensitivity (1 W / 1 M):	87 dB
Power Handing (Continuous / Peak):	50 watts / 200 watts
Optional Transformer Taps:	12.5, 25, 50 watts
Rated Impedance:	8 ohms
Dimensions, mm (H x W x D):	211.2 x 56.2 x 130.5 mm
Dimensions, in (H x W x D):	8.3 x 6.15 x 5.1 in
Ingress Protection / Weather Rating:	IP 56
Net Weight (transformer version):	3.0 kg / 6.6 lb; (3.5 kg / 7.7 lb)



#### **FEATURES AND BENEFITS**

- Direct-weather capable, compact 3.5-inch two-way system
- Stainless steel (304-grade)
- U-Bracket included
- 50 watts continuous, 200 watts peak power handling
- Available in black or white, 8-ohm, 70.7 or 100-volt versions
- 3.5-inch woofer with large-sized 1.25-inch voice coil
- High-performance tweeter with 90° x 40° waveguide
- No performance-degrading passive protection devices
- Stainless steel grille, suspension and rigging hardware (304-grade)

# 106IM

#### 6-INCH TWO-WAY ALL-WEATHER LOUDSPEAKER SYSTEM

The 106IM provides an unbeatable combination of excellent sound quality, acoustic output and full direct-weather performance. Unlike most small-format systems, the 106IM utilizes a true compression driver coupled with a 100° x 70° constant-directivity horn to deliver excellent vocal intelligibility, smooth response and projection. Its 6-inch woofer features a large 1.75-inch voice coil for extended bandwidth and high power handling without the need for performance-degrading passive protection devices. The 106IM's beautifully detailed sound will impress listeners.

The 106IM's enclosure has 3 x M6 mounting points for its included U-Bracket; the optional PT-10 pan and tilt bracket, and the Pole Mount Mini, plus  $4 \times M5$  mounting points for use with other mounting hardware. The 106IM's grille assembly, the input section and the enclosure are all designed to handle extreme weather and direct sunlight. Available in black or white, low-impedance, 70.7 or 100-volt versions, the 106IM is a high-performance choice for demanding foreground/background or distributed sound applications.



Frequency Response (+ 3 dB):	85 - 16,000 Hz
Coverage Pattern:	100° x 70°
Sensitivity (1 W / 1 M):	89 dB
Power Handing (Continuous / Peak):	100 watts / 400 watts
Optional Transformer Taps:	12.5, 25, 50 watts
Rated Impedance:	8 ohms
Dimensions, mm (H x W x D):	312 x 185 x 217.1 mm
Dimensions, in (H x W x D):	12.3 x 7.3 x 8.5 in
Ingress Protection / Weather Rating:	IP 56
Net Weight (transformer version):	6.0 kg / 13.2 lb; (6.5 kg / 14.3 lb)



#### **FEATURES AND BENEFITS**

- Direct-weather capable, compact 6-inch two-way system
- Available in black or white in 8 ohm, 70.7 or 100-volt versions
- Stainless steel (304-grade)
- U-Bracket included
- 100 watts continuous, 400 watts peak power handling
- 6-inch woofer with large-sized 1.75-inch voice coil
- True compression driver with 90° x 40° constant directivity horn
- No performance-degrading passive protection devices
- Stainless steel grille, suspension and rigging hardware
- Stainless steel grille, suspension and rigging hardware (304-grade)

#### **AVAILABLE SUSPENSION HARDWARE**

- PT-10 Pan and tilt bracket
- Pole Mount Mini pole mount bracket (includes PT-10)

### 108CIM - AVAILABLE APRIL 2014

#### 8-INCH TWO-WAY ALL-WEATHER LOUDSPEAKER SYSTEM

The 108CIM is a compact 8-inch two-way coaxial speaker system that features a medium-format titanium compression driver. The 108CIM provides its 70-degree conical coverage by using the woofer's cone instead of a horn to project its output. The system's 70 x 70 degree coverage pattern works well in near field and medium-range outdoor or indoor venues, and features exceptionally good intelligibility. The enclosure is smaller than conventional 2-way systems, making it easier and less conspicuous to install. The 108CIM can be oriented horizontally or vertically without changing its coverage pattern.

The 108CIM's enclosure is made of high-grade copolymer that is optimized to withstand UV exposure and harsh weather. An optional version is available with a 150-watt, 3-tap line-matching transformer that can be configured for 70.7 – 100 volt operation.

The 108CIM's grille and suspension points are made of stainless steel to handle long-term exposure to weather. The input section consists of a 5-pin stainless steel barrier strip and a weather cover with an IP 68 rated gland nut is provided for outdoor applications.

Frequency Response:	70Hz - 16kHz
Coverage Pattern:	70 x 70 Conical
Passive Crossover Frequency:	1600Hz
Inputs:	5-position barrier or
System Sensitivity:	92dB
Power Handling:	200, 400, 800 watts
Dimensions, mm (H x W x D):	350.0mm x 233.2mm x 271.44mm
Dimensions, in (H x W x D):	13.78in x 9.18in x 10.69in
Nominal Impedance	8-ohms
Weather Rating:	IEC 529; IP 45; Mil Spec 810
Net Weight:	TBD



- Direct weather 8" coaxial two-way system
- Optimized for high-intelligibility and vocal articulation
- · Very high output to size ratio
- Available in both Black and white color
- Multiple M8 flying points
- · Available Pan and Tilt, U-bracket, and eyebolt rigging
- Gland nut inputs (Weather cover for Gland nut installations)
- Optional Stainless steel Pan/Tilt bracket, U-Bracket, Pole Mount and eyebolt rigging available
- Stainless Steel Grille, Insert Points and Rigging



# 108IM

#### 8-INCH TWO-WAY ALL-WEATHER LOUDSPEAKER SYSTEM

The One Systems 108IM delivers impressive sound quality, high intelligibility, and superior sonic projection that defy its dimensions. Thanks to well-designed components and solid enclosure, the 108IM delivers beautiful, richly detailed sound. The 108IM combines an 8-inch woofer and ETS HF driver coupled to a fully rotatable constant-directivity horn. The system includes a rotatable 600 x 400 horn that's factory-installed and it's also shipped with a rotatable 1050 x 600 horn The included rotatable long and wide-throw horns permit the 108IM to be suspended horizontally or vertically and its coverage to be custom-tailored for each specific application.

Thanks to its strong injection-molded enclosure and weather-proof design, the 108IM is optimized for use in outdoor venues or other indoor applications. Thanks to its accurate, detailed sound and installation flexibility, the 108IM is equally suited for demanding applications for use with speech or music.

Frequency Response (+ 3 dB):	65 - 16,000 Hz
Coverage Pattern:	$105^{\circ}x$ $60^{\circ}$ and $60^{\circ}x$ $40^{\circ}$ (both rotatable)
Sensitivity (1 W / 1 M):	92 dB
Power Handing (Continuous / Peak):	200 watts / 800 watts
Optional Transformer Taps:	37.5, 75, 150 watts
Rated Impedance:	8 ohms
Dimensions, mm (H x W x D):	483.84 x 243.2 x 270.77 mm
Dimensions, in (H x W x D):	19.05 x 9.56 x 10.66 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-3
Net Weight (transformer version):	15 kg / 33 lb; (16.5 kg / 36.4 lb)





#### **FEATURES AND BENEFITS**

- Direct-weather capable 8-inch two-way system
- Optimized for high intelligibility and great vocal articulation
- Includes both 60° x 40° and 105° x 60° rotatable constant-directivity horns for optimum coverage and placement flexibility
- Available in black or white in 8 ohm or 70.7 / 100-volt versions
- ETS medium-format pure titanium compression driver
- Aluminum input cover with IP 68-rated gland nut
- 200 watts continuous, 800 watts peak power handling
- 15 x M8 suspension points for maximum use/placement flexibility
- Stainless Steel Grille, Insert Points and Rigging

#### STAINLESS STEEL HARDWARE

- 108IM-U U-Bracket kit (available in black and white)
- PT-30 Pan / tilt bracket for mounting 108IM on small-diameter square or round poles
- PT-38a Pan and tilt bracket for mounting 108IM on walls
- M8 Eye Bolt Kit 4 x M8 forged-shoulder stainless steel eyebolts
- Speaker Stand Mounts using optional Ultimate Support BMB-200K or On Stage EB9760

# **208CIM**

# DUAL 8-INCH TWO-ELEMENT VERTICAL ARRAY ALL-WEATHER LOUDSPEAKER SYSTEM

The 208CIM is a two-element vertical array system that delivers high intelligibility and impressive output capability from its small-sized enclosure. In the low frequency range, the 208CIM's dual 8-inch drivers combine their output to produce solid low-end response to 65 Hz with excellent SPL capability. Thanks to its coaxial design, mids and highs are flawlessly reproduced because of substantially reduced time delay distortion and lack of "horn coloration".

The 208CIM's coaxially mounted HF driver delivers 70° conical coverage that works well in short and medium-throw applications with excellent vocal reproduction. The conical coverage pattern also permits horizontal or vertical placement without a change in dispersion. The 208CIM's high output capability and detailed sound quality allow it to be used in places where traditional 12-inch two-way systems would normally be used. The 208CIM has the added benefit of compact size, lighter weight and tremendous installation flexibility in applications requiring optimum size/performance ratio and superior performance.

Frequency Response (+ 3 dB):	65 - 16,000 Hz
Coverage Pattern:	70° conical
Sensitivity (1 W / 1 M):	96 dB
Power Handing (Continuous / Peak):	400 watts / 1,600 watts
Optional Transformer Taps:	37.5, 75, 150 watts
Rated Impedance:	4 ohms
Dimensions, mm (H x W x D):	483.84 x 243.2 x 270.77 mm
Dimensions, in (H x W x D):	19.05 x 9.56 x 10.66 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-3
Net Weight (transformer version):	18 kg / 39.7 lb; (19.5 kg / 43 lb)





#### **FEATURES AND BENEFITS**

- Two-element vertical array system
- Dual 8-inch drivers have the air-moving capability of a 12-inch driver from a much smaller enclosure
- 400 watts continuous, 1,600 watts peak power handling
- One Systems' 8 CX transducer with medium-format coaxiallymounted compression driver delivers 70° conical coverage
- Available in black or white, 4 ohm or 70.7 / 100-volt versions
- Aluminum input cover with IP 68-rated gland nut
- 15 x M8 fly points for maximum use / placement flexibility
- Stainless Steel Grille, Insert Points and Rigging

#### **AVAILABLE SUSPENSION HARDWARE**

- 108IM-U U-Bracket kit (available in black and white)
- PT-30 Pan / tilt bracket for mounting 208CIM on small-diameter square or round poles
- PT-38a Pan and tilt bracket for mounting 208CIM on walls
- M8 Eye Bolt Kit 4 x M8 forged-shoulder stainless steel eyebolts
- Speaker Stand Mounts using optional Ultimate Support BMB-200K or On Stage EB9760

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# 112IM

#### 12-INCH TWO-WAY DIRECT-WEATHER SPEAKER SYSTEM

The 112IM is a high-power, full-range loudspeaker with the latest loudspeaker technologies including a 12-inch Inside/Only woofer with a 4-inch voice coil and a large-format Equivalent Throat compression driver. The 112IM is delivered with a fully rotatable ET-60/40 horn installed, but is also available with an ET-105/60 rotatable horn that provides extra coverage and installation options. The 112IM's enclosure is constructed of a special injection-molded weather-resistant resin that is tough enough to withstand exposure to the elements and is acoustically inert. The system's rain shield grille, stainless steel support structure and hardware ensure years of useful life in any weather condition. The 112IM's high power handling, well controlled coverage, high-technology components plus low dynamic and time-domain distortions, provide high intelligibility, incredible vocal articulation and superior response for outdoor or high ambient noise indoor applications. With its choice of enclosure colors, a choice of coverage patterns, the option of low-impedance or constant-voltage, and a selection of optional suspension hardware, the 112IM offers flexibility and performance unmatched by any other system in its class.

Frequency Response (+ 3 dB):	60 - 16,000 Hz
Coverage Pattern:	$60^{\circ}x40^{\circ}$ factory installed; $105^{\circ}x60^{\circ}$
	available on request (both rotatable)
Sensitivity (1 W / 1 M):	96 dB
Power Handing (Continuous / Peak):	800 watts / 3,200 watts
Optional Transformer Taps:	37.5, 75, 150 watts
Rated Impedance:	8 ohms
Dimensions, mm (H x W x D):	749 x 368 x 414 mm
Dimensions, in (H x W x D):	29.5 x 14.5 x 16.3 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-1
Net Weight (transformer version):	27.2 kg / 60 lb; (35.3 kg / 77.8 lb)

#### **FEATURES AND BENEFITS**

- Direct-weather capable, high-performance 12-inch two-way system response-optimized for high intelligibility, superb vocal articulation and wide response
- 60° x 40° long-throw fully rotatable horn factory installed; 105° x 60° rotatable wide-throw horn available on request
- ET large-format pure titanium compression driver
- Available in black or white in 8 ohm, 70.7 or 100-volt versions
- Aluminum input cover with IP 68-rated gland nut
- 800 watts continuous, 3,200 watts peak power handling
- 15 x M10 suspension points for maximum use/placement flexibility
- Stainless Steel Grille, Insert Points and Rigging







#### **AVAILABLE SUSPENSION HARDWARE**

- 112IM-U U-Bracket kit (available in black and white)
- Eye Bolt Kit 4 x M10 forged-shoulder eyebolts
- Pole Mount System-3– pole mount bracket for 112IM
- PT-76a Pan / tilt bracket for use on walls

# **212CIM**

#### DUAL 12-INCH TWO-ELEMENT VERTICAL ARRAY DIRECT-WEATHER LOUDSPEAKER SYSTEM

The 212CIM is a compact system with dual 12-inch drivers in a vertical array that reproduces high-SPL program material with excellent intelligibility. The 212CIM's driver complement consists of a One Systems' 12-inch Inside/Only™ woofer with a large-format 4-inch voice coil and a 12CX 12-inch driver with a large-format coaxially mounted compression driver. Utilizing these two powerful 12-inch drivers in tandem at low and mid-frequencies produces high SPLs with ease while its large-format coax driver produces mids and highs without the coloration typically found in horns. The result is a smooth, accurate, detailed-sounding speaker system with high power handling in an impressively small direct-weather enclosure. Thanks to its range of suspension points, accessories and its 70° conical coverage pattern, the 212CIM can be hung horizontally or vertically for various system configurations.

Frequency Response (+ 3 dB):	75 - 16,000 Hz
Coverage Pattern:	60º conical
Sensitivity (1 W / 1 M):	99 dB
Power Handing (Continuous / Peak):	1,200 watts / 4,800 watts
Optional Autoformer Taps:	150, 300, 600 watts
Rated Impedance:	4 ohms
Dimensions, mm (H x W x D):	749 x 368 x 414 mm
Dimensions, in (H x W x D):	29.5 x 14.5 x 16.3 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-2
Net Weight (transformer version):	32.8 kg / 72 lb; (36.1 kg / 79.3 lb)

#### **FEATURES AND BENEFITS**

- Response-optimized for high intelligibility with superb vocal articulation
- Dual 12-inch drivers have the air-moving capability of typical 15-inch systems from a much smaller enclosure
- High 1,200 watts continuous, 4,800 watts peak power handling
- One Systems' 12CX transducer with coaxially-mounted large-format compression driver delivers 60° conical coverage with ultra-low time-delay distortion
- Available in black or white in 8 ohm or 600-watt, 3-tap 70.7 / 100-volt Autoformer version
- Aluminum input cover with IP 68-rated gland nut
- 15 x M10 suspension points
- Stainless Steel Grille, Insert Points and Rigging





#### **AVAILABLE SUSPENSION HARDWARE**

- 112IM-U U-Bracket kit (available in black and white)
- Eye Bolt Kit 4 x M10 forged-shoulder eyebolts
- Pole Mount System-3 pole mount bracket
- PT-76a Pan / tilt bracket for mounting a 212CIM on walls

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### **212IM**

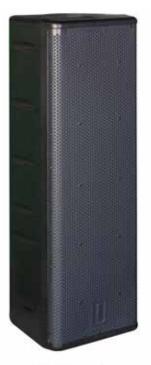
#### **DOUBLE 12-INCH TWO-WAY DIRECT-WEATHER SPEAKER SYSTEM**

The 212IM is a double 12-inch two-way all-weather system in a tough injection-molded copolymer enclosure. The 212IM's dual 12-inch drivers and vertical array design deliver accurate vocal reproduction and excellent projection and pattern control, making it superb for longer-throw outdoor applications or for use in highlyreverberant spaces indoors. The 212IM's premium-quality, largeformat transducers have the latest technology including Inside/ Only woofers and Equivalent Throat compression driver. The High-Q 60° x 40° constant-directivity horn has incredible pattern control and the output to deliver the sound over long distances with excellent projection and clarity. Thanks to its rotatable horn, multiple suspension points and available hardware, the 212IM can be suspended vertically, horizontally or arrayed as required. For outdoor use or long-throw indoor applications, the 212IM is a full bandwidth system with incredible flexibility and super-tough weather resistance.

Frequency Response (+ 3 dB):	60 - 16,000 Hz
Coverage Pattern:	60° x 40° (rotatable)
Sensitivity (1 W / 1 M):	99 dB
Power Handing (Continuous / Peak):	1,200 watts / 4,800 watts
Optional Autoformer Taps:	150, 300, 600 watts
Rated Impedance:	4 ohms
Dimensions, mm (H x W x D):	748 x 368 x 398.3 mm
Dimensions, in (H x W x D):	29.5 x 14.5 x 15.68 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-1
Net Weight (transformer version):	40.5 kg / 89.3 lb; (43.8 kg / 96.6 lb)

#### **FEATURES AND BENEFITS**

- Direct-weather capable dual 12-inch two-way system
- High-quality components deliver high intelligibility and beautifullydetailed 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
- Two 12-inch Inside/Only™ drivers with 4-inch voice coils deliver smooth lows and mids with high power handling
- Available in low-impedance or with 600-watt, 3-tap 70.7 or 100-volt
   Autoformer
- 19 x M10 suspension points for maximum mounting/use flexibility
- · Stainless Steel Grille, Insert Points and Rigging





#### **AVAILABLE SUSPENSION HARDWARE**

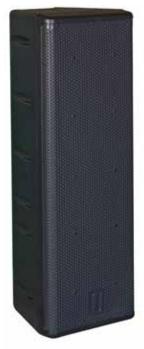
- 212IM-U U-Bracket kit
- Eye Bolt Kit 4 x M10 forged-shoulder eyebolts
- Pole Mount System EX-3 pole mounting bracket for 212IM
- PT-76a Pan / tilt bracket for mounting a 212IM on walls

### **312CIM**

#### TRIPLE 12-INCH COAXIAL VERTICAL ARRAY SPEAKER SYSTEM

The 312CIM is a 3-element vertical array that delivers very high output vocal material and wide-range music with superior intelligibility. Thanks to its clever design, the 312CIM's array produces vertical beamwidth control to below 200 Hz and maintains its 60-degree radiation angle to below 300 Hz, thereby making its performance perfect for reverberant indoor spaces such as arenas and houses of worship as well as for large, long-throw outdoor applications. The 312CIM's tough injection-molded enclosure is optimized for high UV exposure and long life in harsh weather environments. Everything from the 3-layer "rain shield" stainless steel grille, the enclosure's material, the weather covered inputs and the multiple suspension points are capable of handling direct weather exposure for years while providing phenomenal performance. If your application requires ultra high output, long throw, full-bandwidth response and incredible pattern control, the 312CIM is an ideal solution.

Frequency Response (+ 3 dB):	75 - 16,000 Hz
Coverage Pattern:	60° conical
Sensitivity (1 W / 1 M):	99 dB
Power Handing (Continuous / Peak):	1,200 watts / 4,800 watts
Optional Transformer Taps:	150, 300, 600 watts
Rated Impedance:	4 ohms
Dimensions, mm (H x W x D):	1100 x 368 x 414 mm
Dimensions, in (H x W x D):	43.3 x 14.5 x 16.3 in
Ingress Protection / Weather Rating:	IP 45; IP 56 with HWK-1
Net Weight (transformer version):	42.2 kg / 93.5 lb; (45.8 kg / 100.3 lb)





#### **FEATURES AND BENEFITS**

- 3-Element shaded vertical array delivers very high output from a slim enclosure
- 2 x 12-inch Inside/Only woofers with large 4-inch voice coils
- 12CX 12-inch coax with large-format compression driver
- 60° conical coverage
- 1,200 watts continuous, 4,800 watts peak power handling
- Available in 4-ohm design or with 600-watt, 3-tap 70.7 or 100volt autoformer
- 19 x M10 suspension points for maximum mounting/use flexibility
- · Stainless Steel Grille, Insert Points and Rigging

#### **AVAILABLE SUSPENSION HARDWARE**

- 212IM-U U-Bracket kit
- Eye Bolt Kit 4 x M10 forged-shoulder eyebolts
- Pole Mount System EX-3 pole mounting bracket for 312CIM
- PT-76a Pan / tilt bracket for mounting a 312CIM on walls

# 118IM-SUB - AVAILABLE APRIL 2014

#### SINGLE 18-INCH INJECTION MOLDED DIRECT WEATHER SUBWOOFER

The 118IM-Sub is a direct-weather subwoofer system housed in a tough copolymer enclosure that's impervious to weather and moisture. The 118IM-Sub may be used for outdoor or indoor installations where extended low frequency response is required. The 118IM-Sub has a compact, yet precisely tuned enclosure that houses a patented One Systems 18-inch (457 mm) 18I/O long-throw bass transducer with a powerful large-format voice coil. The 118IM-Sub is available in both black and white colors.

The 118IM-Sub is optimized for outdoor applications such as theme parks, sports facilities, and other entertainment/sports venues where extended low-frequency response will enhance the sound system's performance. Thanks to its UV and moisture resistant copolymer enclosure, the 118IM-Sub can be used in places that wood subwoofers will not survive long-term.

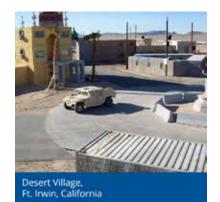
To add to the subwoofer's flexibility, the 118IM-Sub offers a complete selection of optional stainless steel array and flying/suspension hardware. Its high acoustic output-to-size ratio and impressive lowend response will add impact to any permanently installed sound system whether outside or indoors.

Frequency Response (+ 3 dB):	40Hz - 120Hz
Coverage Pattern:	Nearly Omnidirectional
Inputs:	5-position barrier
Power Handing (Continuous / Peak):	1,000, 2000, 4000 watts
System Sensitivity:	98dB (half space)
	95dB (full space)
Nominal Impedance	8 ohms
Dimensions, mm (H x W x D):	584mm x 510mm x 525.3mm
Dimensions, in (H x W x D):	23.0in x 20.1in x 20.7in
Weather Rating:	IEC 529; IP 45; Mil Spec 810
Net Weight:	TBD

#### **FEATURES AND BENEFITS**

- Direct weather 18" sub-woofer system
- Rotationally molded high impact enclosure design
- Optimized for extended low-frequency response
- Very high output to size ratio
- Available in both black and white color
- Multiple M10 flying points
- Available Stainless Steel Pan and Tilt, Pole Mount, U- bracket, and eyebolt rigging
- Gland nut inputs (Weather cover for Gland nut installations)
- · Stainless Steel Grille, Insert Points and Rigging







Canada Olympic Park, Calgary, Alberta

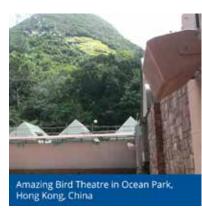




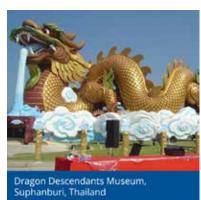




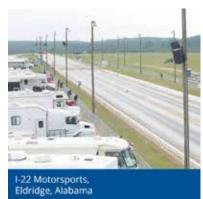














# DIRECT-WEATHER FIBERGLASS ENCLOSURES

The One Systems' CrossfieldArray-2's enclosure is made with hand-laminated fiberglass – a tough composite material that's used to build cars, boat hulls and other products that require strength, weather resistance and light weight. Reinforced with a stainless steel structural suspension and insert points, the CrossfieldArray-2 will easily survive in any condition that Mother Nature can dish out.

#### **CROSS FIELD ARRAY-2**

#### LONG - THROW ALL- WEATHER LOUDSPEAKER SYSTEM

The Cross Field Array-2 is a two-way array system that delivers very high intelligibility and prodigious acoustic output for long-throw applications. The Cross Field Array-2's components include 4 x 10-inch woofers with large-format 4-inch voice coils and 2 x large-format HF drivers. The drivers come mounted to a fully rotatable constant-directivity horn with a 55° horizontal by 30° vertical coverage pattern. The rotatable horn, 2 x 2 woofer arrays and compact size ensure that the Cross Field Array-2 can be oriented to achieve optimum coverage.

Thanks to its high sensitivity and large power handling, the Cross Field Array-2 delivers 135 dB continuous, 141 dB peak output at 1 meter, making it perfect for use in large outdoor sports facilities, theme parks or in high ambient noise environments indoors.

The Cross Field Array-2 includes an internally mounted 600-watt autoformer with a jumper that allows the speaker to be used in low impedance (4 ohm) or high impedance (70.7-volt or 100-volt) systems. The included low loss autoformer's taps are at 600 watts, 300 watts, and 150 watts for either 70.7-volt or 100-volt operation. The system is equipped with 9 x M10 rigging points and also offers an optional U-Bracket with a stainless steel strapping kit that permits installation and aiming even in high wind conditions. Additional optional hardware is available to accommodate other installation requirements.

For applications that require extraordinary intelligibility and long-throw capability the Cross Field Array-2 delivers unprecedented performance, flexibility and value.





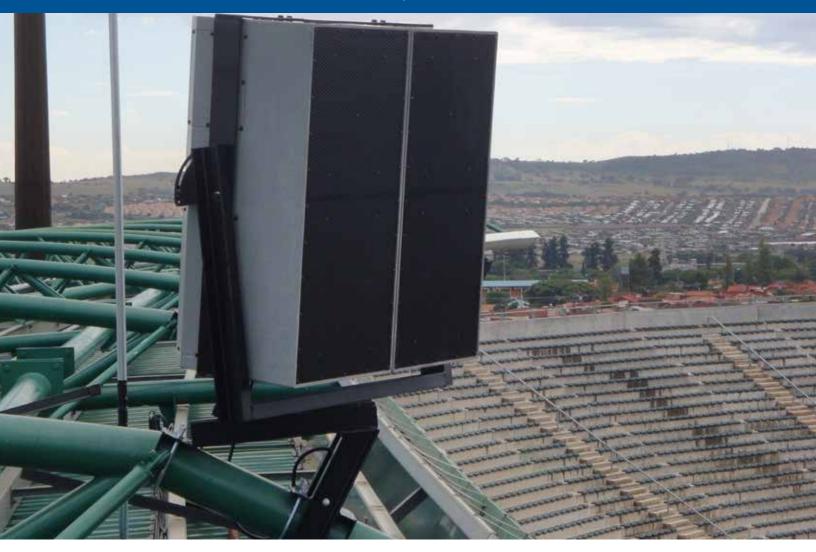
#### **FEATURES AND BENEFITS**

- Tremendous intelligibility, high output and long throw capability
- UV and weather-resistant laminated fiberglass enclosure
- U-Bracket and stainless steel strapping optional
- Four 10-inch woofers arranged in 2 x 2 arrays
- Fully-rotatable 55° by 30° horn driven by two large-format HF drivers
- Usable in low impedance (4 ohm) or high impedance (70.7 / 100 volt) systems
- 1,200 watts continuous, 4,800 watts peak power handling

#### **AVAILABLE SUSPENSION HARDWARE**

- Eye Bolt Kit 4 x M10 forged-shoulder eyebolts
- Pole Mount System EX-3 Pole mount system for use with CrossFieldArray-2
- PT-76a Pan / tilt bracket for use on walls with CrossFieldArray-2
- CFA-2/U U-Bracket Kit

#### LUCAS MORIPE STADIUM • PRETORIA, SOUTH AFRICA • CROSS FIELD ARRAY



# **CROSS FIELD ARRAY-2 (CONTINUED)**

#### LONG-THROW ALL- WEATHER LOUDSPEAKER SYSTEM

Frequency Response (+ 3 dB): 60 - 16,000 Hz Coverage Pattern (H x V):  $55^{\circ} \times 30^{\circ}$  fully rotatable 104 dB

Sensitivity (1 W / 1 M):

Power Handing (Continuous / Peak): 1,200 watts / 4,800 watts

**Optional Transformer Taps:** 150, 300, 600 watts

Rated Impedance: 4 ohms

876.5 x 572.6 x 446.3 mm Dimensions, mm:

34.5 x 22.5 x 17.6 in Dimensions, in:

Ingress Protection / Weather Rating: IP 56

**Net Weight:** 60.6 kg / 133.6 lb; (63.6 kg / 140.2 lb)

#### P.O.P.S.

#### PORTABLE OUTDOOR POWERED SYSTEM

One Systems' Portable Outdoor Powered System (POPS) fills a need in the professional audio market for a high-output, self-powered sound system that's usable outdoors in rain, snow and temperature extremes. Although technically sophisticated, POPS is easily portable, quick to set up and simple to use.

POPS-SYSTEM is comprised of the POPS-15a, a bi-amplified 15-inch two-way system, and the POPS-SUBa, a powered 18-inch subwoofer system. POPS-SYSTEM includes special AC mains cables with ground-fault circuit interrupters and broadcast-quality signal cables with moisture-proof connectors. Each AC cable and signal cable comes on its own portable cable reel for easy use and transportation.

POPS delivers incredibly accurate, highly intelligible, wideband sound with plug-and-play simplicity. POPS has the perfect combination of high performance, portability and flexibility unmatched by any other powered system. Indoors or outside in rain, sun or snow, no other powered systems can top POPS.



#### **FEATURES AND BENEFITS**

- All-weather capable powered 2,000-watt 3-way sound system with concert-class transducers
- Premium European designed amplifiers with high slew rate for uncompressed transients
- Digital signal processing precisely-tuned to deliver optimum sound quality and maximum dynamic range
- POPS-15a and POPS-SUB-a each include a 30.5 m / 100 ft AC mains cable and a 30.5 m / 100 ft XLR-type signal cable with moistureresistant connectors on portable cable reels
- High-Q 60° x 40° horn with excellent projection, superb pattern control and wideband response
- POPS-SUBa is equipped with large-diameter pneumatic wheels and comes with a height-adjustable mounting pole for easy moving and fast setups
- POPS-15a has 7 x M10 fly points for use with optional suspension and array hardware plus a 35-mm pole mount
- Reflective gray finish allows use on hot and humid days without heatinduced amplifier limiting
- · Stainless Steel Grille, Insert Points and Rigging

#### POPS-15a

# POWERED 15-INCH TWO-WAY SYSTEM WITH POWERSOFT® AMPS AND DSPOPS SYSTEM

POPS-15a houses premium quality electronics and transducers, including a 15-inch woofer with a 4-inch voice coil, a High-Q 60° x 40° horn and ultra-powerful European amplifier with full digital signal processing. POPS-15a amplifier delivers 1,000 watts continuous, 2,000 watts peak of bi-amplified, highly efficient power. The POPS-15a's digital signal processing features high-order filtering, complete crossover functions, plus EQ, dynamics and protection algorithms optimized by One Systems' engineers. For all its power and sophistication, POPS-15a is a plug-and-play system that's very easy to use. POPS-15a's 60° x 40° High-Q horn and high performance driver have enough muscle to cover large audience areas. Thanks to its unique Narrow-Profile woofer, POPS-15a is only 373 mm / 14.7 inches wide – about the size of most 12-inch systems.

The POPS-15a's enclosure is finished with a reflective gray coating that prevents thermal buildup on sunny hot days from affecting the power output of its amplifiers. This special resin is designed to easily withstand rough weather and brutal UV exposure. POPS-15a can be stand-mounted or safely suspended thanks to its built-in mount and reinforced M10 inserts, plus it can be used as a floor monitor too. Flexibility, simplicity of use, high output capability, rock-solid reliability and pristine sound are the hallmarks of POPS-15a.

Frequency Response (+ 3 dB):	50 - 18,000 Hz
Coverage Pattern (H x V):	60º x 40º
LF amplifier power (continuous / peak):	500 / 1,000 watts
HF amplifier power (continuous / peak):	500 / 1,000 watts
Dimensions, mm:	742 x 370 x 433.5
Dimensions, in:	29.2 x 14.6 x 17.1 in
Weather Rating:	IP 56
Weight:	29 kg / 64 lb







#### **AVAILABLE SUSPENSION HARDWARE**

• Eye Bolt Kit – 4 x M10 forged-shoulder eyebolts

#### **POPS-SUBa**

# POWERED 18-INCH SUBWOOFER SYSTEM WITH POWERSOFT® AMPLIFIER

POPS-SUBa adds solid low-end response and impact to the POPS-15a – indoors or outside. POPS-SUB combines a powerful 18-inch woofer with a 4-inch voice coil and a 1,000-watt European designed in a perfectly tuned enclosure that enhances its low-end output. The POPS-SUB enclosure is constructed of heavily braced 13-ply marine-grade birch plywood that is painted inside and out with wear and weather-resistant polyurethane paint. Its reflective gray finish enables its use outdoors on the hot, humid days without worry about amplifier power limiting.

The POPS-SUB is equipped with heavy-duty, large-diameter pneumatic wheels that make it easy to move across muddy sports fields or tall grass. It also includes a screw-on, height-adjustable mounting pole for elevating the POPS-15a above the Sub. The POPS-SUB comes with an extra-long 30.5 m / 100 ft GFCI-equipped AC cable and XLR-type signal cable with moisture-resistant connectors supplied on portable cable reels for ease in transportation and hookup. Adding solid, powerful low-end to the The POPS-SUB is as easy as plugging in a POPS-SUB.

Frequency Response (+ 3 dB):	40 - 80 Hz
LF amplifier power (continuous / peak):	1,000 / 2,000 watts
Dimensions, mm:	776 x 780 x 670
Dimensions, in:	30.5 x 30.7 x 26.4 in
Weather Rating:	IP 56
Weight:	44 kg / 97 lb









E.L. ROSE PARK • BELMOUNT UNIVERSITY • NASHVILLE, TN • 108IM • 112IM



CEDAR POINT AMUSEMENT PARK • SANDUSKY, OHIO • 212IM



THAMMASAT STADIUM • BANGKOK, THAILAND • 112IM





# MARINE-GRADE (316-GRADE)

For applications that require an even higher level of corrosion protection, such as on cruise ships and at outdoor installations that fall within 10 miles/16 km of salt water coastlines, One Systems offers a comprehensive line of products with 316-grade stainless steel ("Marine-grade") grilles and hardware. Speakers utilizing Marine-grade stainless guard against pitting and crevice corrosion caused by salt water and salt water mist. The 316-grade stainless steel process maintains its like-new appearance and adds years of useful life for speakers, even when used in highly corrosive outdoor environments. Marine-grade models from One Systems include the 103IM, 106IM, 108IM, 112IM, 208CIM, 212CIM (all with white copolymer injection molded cabinets), special order wooden subwoofers, and various hanging hardware options for marine-grade speaker systems.

#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The One Systems 103IM/Marine-White was designed to provide excellent audio performance, impressive acoustic output for its size and IP 56-rated direct-weather performance for a variety of acoustic spaces. The 103IM/Marine-White utilizes 316-grade stainless steel that makes it ideal for use in oceanfront and cruise ship environments.

The 103IM/Marine-White's design includes a high-frequency driver coupled to an elliptical constant-directivity horn. The HF coverage pattern is 110 degrees horizontal by 80 degrees vertical. The high-efficiency HF driver and advanced crossover design delivers high power handling and excellent system reliability without the need for performance degrading passive protection devices that are typically used in loudspeaker systems in this class.

The 3.5-inch (90 mm) high-performance woofer also presents a unique design feature that provides both extended bandwidth response and superior low-frequency power handling. The 3.5-inch woofer features a very large-diameter 1.25-inch (31.8 mm) voice coil design that provides excellent system reliability and superb performance.

The 103IM/Marine-White's white enclosure is injection-molded utilizing a copolymer material developed for use in extreme harsh weather environments that offers a high degree of UV protection for use in direct sunlight. The enclosure has 2 x M5 suspension points on the top and bottom of the enclosure for use with the U-Bracket supplied with the speaker. This U-Bracket and the 103IM/Marine-White's mounting points are made of 316-grade stainless steel. The grille's assembly is a 3-layer design that is optimized for both acoustic transparency and protection from windblown particles and water.

The 103IM/Marine-White's input section features a weather cover with an integral gland nut that is rated to an IP 68 standard. The system's input connector is a four-position barrier strip with stainless steel hardware.

Frequency Response:	85 Hz-20k Hz
Coverage Pattern:	110°H x 80°V
Passive Crossover:	3000HZ
System Sensitivity:	(1 watt 1 meter) 87dB
Power Handling (Continuous / Peak):	50, 100, 200 watts
Nominal Impedance:	8 ohms
Weather Performance:	IP56
Net Weight:	3.0kg (6.6lbs)
Transformer Version:	3.5kg (7.7lbs)
Dimensions (H x W x D):	211.2mm x 156.2mm x 130.5mm 8.3in x 6.15in x 5.1 in



#### FEATURES OF BENEFITS

- 316 Grade Stainless Steel Design for use in Marine and Oceanfront Applications
- White injection-molded enclosure is made of high-quality UV resistant copolymer material
- IP 56 Direct-weather capable, compact 3.5-inch two-way system
- 3.5-inch woofer with large-sized 1.25-inch voice coil
- High-performance tweeter with 110° x 80° waveguide
- 316 Grade Stainless Steel U-Bracket included
- 316 Grade Stainless steel grille and rigging
- No performance-degrading passive protection devices used
- 50 watts continuous, 200 watts peak power

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#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The One Systems 106IM/Marine-White was designed to provide high acoustic output and IP 56-rated direct-weather performance for a variety of acoustic spaces. It was designed for use in ocean front and cruise ship environments. The 106IM/Marine-White utilizes 316-grade stainless steel external rigging and grilles to achieve exceptional corrosion resistance in marine and ocean front environments (recommended for outdoor installations up to 10 miles/16km from salt water coasts).

The 106IM/Marine-White design is very unique for a system of this size in that it utilizes a true compression driver coupled to a constant-directivity horn. The driver/horn coverage pattern is 100 degrees horizontal by 70 degrees vertical. The 6-inch (152 mm) high-performance woofer is equipped with an extra-large 1.75-inch (44.33 mm) voice coil that delivers extended bandwidth response and superior low-frequency power handling. The 106IM-W/Marine's combination of the high-efficiency horn-loaded compression driver and very large-format voice coil design in the woofer yields superior system intelligibility, vocal range integrity and added musical definition.

The 106IM/Marine-White's enclosure is injection-molded in white and utilizes a copolymer material that is designed for use in extreme harsh weather environments. The speaker cabinet offers a high degree of UV protection for use in direct sunlight. The 106IM/Marine-White also has 7 mounting points (including 3 x M6 points on the top and bottom) for use with the supplied 106IM/Marine-White U-Bracket.

All 106IM/Marine-White mounting points are made of 316-grade stainless steel. The grille's assembly is a 3-layer design that is optimized for both acoustic transparency, as well as protection from windblown particles and water. The input section features a weather cover with an integral gland nut that is rated to an IP 68 standard. The system's input connectors are a four-position barrier strip. The 106IM's power handling is 100 watts continuous, 200 watts program and 400 watts peak.

Frequency Response:	80Hz-16k Hz
Coverage Pattern:	100°H x 70°V
Passive Crossover:	2,000HZ
System Sensitivity:	(1 watt 1 meter) 89dB
Power Handling (Continuous / Peak):	100, 200, 400 watts
Nominal Impedance:	8 ohms
Weather Performance:	IP56
Net Weight:	6.0kg (13.2lbs)
Transformer Version:	6.5kg (14.3lbs)
Dimensions (H x W x D):	21312 mm x185 mm x 217.1 mm 12.3 in x 7.3 in x 8.5 in

#### **FEATURES OF BENEFITS**

- 316 Grade Stainless Steel Design for Ocean Front and Marine Environments
- Direct-weather capable, compact 6-inch two-way system
- 6-inch woofer with large-sized 1.75-inch voice coil
- Available white, 8-ohm version
- 316 Stainless Steel U-Bracket included
- No performance-degrading passive protection devices included
- 316 Grade Stainless steel grille, suspension and rigging hardware
- 100 watts continuous, 400 watts peak power handling



#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The 108IM/Marine-White is a light-weight, white copolymer all-weather loudspeaker system. The 108IM/Marine-White may be used in direct weather ocean front and cruise ship outdoor installations. Like all ONE SYSTEMS products, the 108IM/Marine-White was designed to offer excellent full-range fidelity, but also superior vocal reproduction and intelligibility. The system consists of a single 8" woofer and an ETS driver coupled to a fully rotatable high frequency horn.

The 108IM/Marine-White is optimized for ocean front, marine, cruise ship and other outdoor applications such as football stadiums, baseball stadiums and race tracks where permanent installation is required in marine environments (generally considered to be within 10 miles/16km of salt water coastlines). The high acoustic output to size ratio makes the system ideal for short throw (with provided ET105/60 horn) or defined coverage medium Q (factory installed with ET60/40 horn) applications. The system is also well suited for outdoor general public address applications.

The grille is a 3-layer "rain shield" design that will minimize direct rain contact with the system's 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 a barrier strip. A weather cover is provided with an integral gland nut connector for outdoor applications. 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.

Frequency Response:	65 Hz - 16k Hz (+3 dB)
Coverage Pattern:	60° H x 40° V (ETS-60/40)
	105° H x 60° V (ETS-105/60)
Passive Crossover:	2,000 Hz (ETS-60x40)
	1,600 Hz (ETS-105x60)
System Sensitivity:	92 dB (1 watt @ 1 meter)
Power Handling (Continuous / Peak):	200, 400, 800 watts
Nominal Impedance:	8 ohms
Weather Performance:	IEC 529 / IP 45 / Mil Spec 810
Net Weight:	15 kg (33 lb) 8-ohm versions
Dimensions (H x W x D):	483.84 x 243.2 x 270.77 mm
	19.05 x 9.56 x 10.66 in



#### **FEATURES OF BENEFITS**

- 316-Grade Stainless Steel External Rigging and Grille Construction
- Direct weather 8" two way system with white copolymer injection molded enclosure
- Optimized for high intelligibility and vocal articulation
- ETS Fully rotatable and interchangable high frequency horns
- Multiple M8 flying points
- Available 316-Grade Pan and Tilt, Pole Mount and "U" brackets
- Gland Nut/Barrier Strip Inputs (Weather cover for Gland nut installations)

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#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The 112IM/Marine-White is a light-weight, white copolymer based all-weather loudspeaker system. It is recommended for outdoor installations up to 10 miles/16 km from salt water coasts. The 112IM/Marine-White features 316-grade stainless steel external rigging points, as well as 316-grade grills and mounting fasteners. Like all ONE SYSTEMS products, the 112IM/Marine-White was designed to not only offer excellent full-range fidelity, but also superior vocal reproduction and intelligibility. The system consists of a single 12" Inside/Only (12I/O) woofer and a large format ET compression driver that coupled to a fully rotatable high frequency horn. (factory installed with ET60/40 horn) The 112IM/Marine-White system offers a complete selection of array and flying/suspension hardware.

The 112IM/Marine-White is optimized for ocean front outdoor applications such as cruise ships, ocean front theme parts, football stadiums, baseball stadiums, race tracks and other venues where the product is exposed to ocean front or marine environments. The system is also well suited for outdoor general public address applications.

The grille 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 a multi position barrier strip. A weather cover is provided with an integral IP68 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.

Frequency Response:	60Hz - 16kHz
Coverage Pattern:	105H x 60V (ET105/60) 60H x 40V (ET60/40)
Passive Crossover:	1800HZ
System Sensitivity:	96 dB (1 watt 1 meter)
Power Handling (Continuous / Peak):	800, 1600, 3200 watts
Nominal Impedance:	8 ohms
Weather Performance:	IEC 529 / IP 45 (IP56 when HWK used) Mil Spec 810
Net Weight:	31.2kg (70 lb)
Dimensions (H x W x D):	748mm x 368mm x 398.3mm 29.5" x 14.5" x 15.7"



#### FEATURES OF BENEFITS

- All Rigging and External Metal Components 316-Grade Stainless Steel
- Direct weather 12" two way system
- Optimized for high intelligibility and vocal articulation
- ET Fully rotatable and interchangeable high frequency horns
- Multiple M10 flying points
- Available Rigging Brackets
- Gland Nut/Barrier Strip Inputs
- (Weather cover for Gland nut installations)

#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The 208CIM/Marine-White is a compact two-element vertical array (LF and Mid Bass) high-output loudspeaker system. The 208CIM-W/Marine utilizes 316-grade stainless steel on all external rigging points. The grill assembly and all exterior mounting points are also 316-grade stainless steel. The 208CIM/Marine-White was designed to produce very high sound pressure level vocal range content and very high intelligibility for marine and ocean front environments. 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/Marine-White may be used in direct weather outdoor installations such as cruise ships and ocean front stadiums, theme parks and dock front installations. One Systems recommends 316-grade (marine) models for use in installations within 10 miles/16 km of salt water coasts. The unique design of this system allows both extended directional control through the vocal fundamental range and twice the acoustic output compared to conventional 8-inch two-way designs. The 208CIM/Marine-White system offers a complete selection of 316-grade Marine suspension hardware. The 208CIM/Marine-White's white enclosure is copolymer optimized for high UV exposure and long life in harsh environments.

The grill is a 3-layer "rain shield" design that will minimize direct precipitation contact with the system's 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 enclosure and components are also rated to Mil Spec 810.

The input section consists of a 4-pin barrier strip with a weather cover and integral gland nut connector. The gland nut is weather proof and is rated NEMA 6P (IP68). The connector will accommodate cables with outside diameters from 7mm to 12mm. (0.236" to 0.472") The maximum diameter will accommodate most 2-conductor AWG 12 cable assemblies.

Frequency Response:	65 Hz – 16k Hz (+3 dB)
Coverage Pattern:	70 degrees conical
Passive Crossover:	2,000 Hz
System Sensitivity:	96db (1 watt @ 1 meter)
Power Handling (Continuous / Peak):	400, 800, 1200 watts
Nominal Impedance:	4 ohms
Weather Performance:	IEC 529 / IP 45 / Mil Spec 810
Net Weight:	20 kg (44 lb)
Dimensions (H x W x D):	483.84mm x 243.2mm x 270.77mm 19.05 in x 9.56 in x 10.66in

#### **FEATURES OF BENEFITS**

- 316-Grade Stainless Steel on all External Rigging locations and Grille
- Very High SPL Vocal System
- Direct weather two element vertical array two way system.
- Optimized for high-intelligibility and vocal articulation.
- Multiple M8 hang points
- Available 316-Grade Pan and Tilt and "U" brackets.
- Gland Nut Inputs (Weather cover for Gland nut installations).



#### DIRECT WEATHER HIGH PERFORMANCE MARINE AND OCEANFRONT LOUDSPEAKER SYSTEM

The 212CIM/Marine-White is a compact, high-output loudspeaker system. The grille and all external fasteners are also 316-grade stainless steel. The 212CIM/Marine-White was designed to produce very high sound pressure levels with full-range content and very high intelligibility. Unlike most compact high level vocal range systems, the ONE SYSTEMS 212CIM/Marine-Whiteis 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/Marine-White a 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 loaded systems. The 212CIM/Marine-White is essentially a compact 2-element, 12-inch vertical array where the top 12" incorporates a coaxially mounted large format compression driver.

The 212CIM/Marine-White is optimized for outdoor ocean front and cruise ship applications and is ideal for use in ocean front football stadiums, baseball stadiums, race tracks and other venues where permanent installations are required. The system is particularly suited for compact, but high-level announcements and general full range reproduction. The 212CIM/Marine-White's white enclosure is copolymer optimized for high UV exposure and long life in harsh environments. The grille is a 3-layer "rain shield" design that will minimize direct precipitation contact with the systems transducers. The unique vent design also allows for easy moisture drainage from the interior of the enclosure. The enclosure and grille 316-grade design are rated to IEC 529 IP45. (solid object penetration to 1 mm (0.04 inches) and water jets from any direction). The enclosure and components are also rated to Mil Spec 810.

The input section consists of a weather protected barrier strip. A weather cover is provided with an integral IP68 gland nut connector. In the outdoor configuration, connections are made through the 4-position barrier strip. The gland nut is weather proof and is rated NEMA 6P. (IP68) The connector will accommodate outside cable diameters from 7mm to 12mm. (0.236" to 0.472") The maximum diameter will accommodate most 2-conductor AWG 12 cable assemblies.

Frequency Response:	75Hz - 16kHz
Coverage Pattern:	60 degrees conical
Passive Crossover:	1000HZ
System Sensitivity:	99dB (1 watt 1 meter)
Power Handling (Continuous / Peak):	1200, 2400, 48000 watts
Nominal Impedance:	4 ohms
Weather Performance:	IEC 529 /IP 45
	Mil Spec 810
Net Weight:	35.5 kg (78 lb)
Transformer Version:	3.5kg (7.7lbs)
Dimensions (H x W x D):	748mm x 368mm x 398.3mm
	29.5" x 14.5" x 15.7"

#### **FEATURES OF BENEFITS**

- 316-Grade Stainless Steel External Rigging and Grille
- Very High SPL System
- Direct weather 12" two-way system
- Optimized for high-intelligibility and vocal articulation
- Multiple M10 fly points.
- Gland Nut Inputs (Weather cover for gland nut installations)



# MATTAMY ATHLETIC CENTER OF RYERSON UNIVERSITY • TORONTO, ON • 112IM



LINCOLN FINANCIAL FIELD • PHILADELPHIA, PA • 108IM/70/100 • 106IM/70





# NATATORIUM SERIES LOUDSPEAKER SYSTEMS

One Systems has pioneered the development of high-quality loudspeakers that are especially designed for indoor swimming and aquatic centers (natatoriums). Standard grade stainless steel (304-grade) offers protection in most outdoor climates and 316-grade (Marine) stainless steel provides extra protection near salt water coastlines. However, neither of these grades of stainless steel is made to withstand the long term rigors found in natatoriums.

In natatoriums, various types of chlorides rise above "splash zones" and attack typical stainless steel grilles and rigging by causing stress corrosion cracking (SCC). This type of corrosion is microscopic and cannot be seen by visual inspection, thus making the use of "typical" speakers potentially dangerous.

One Systems' Natatorium Series speakers are made with AL6XN stainless steel, which is used in the speaker grills, screws, hanging points, and U-brackets. This grade of stainless steel provides the only guarantee for peace of mind when speakers are hung inside of indoor natatoriums.

# 108/NAT

#### HIGH PERFORMANCE NATATORIUM LOUDSPEAKER SYSTEM

One Systems has developed an application specific set of products designed for use in indoor swimming pool (Natatorium) environments. The 108IM/NAT is constructed using very high molybdenum content stainless steel for all internal and external structural rigging members.

Stainless steels such as 304 and 316 known as austenitic steels, offer good corrosion resistance and strength in typical harsh environments, but will not protect against Stress Crack Corrosion (SCC). SCC is a particular problem in indoor pools and can result in structural failure of rigging components. Chlorine based chemicals in the water react with "human" sweat and produce chloramines. These chloramines pass into the atmosphere and are deposited on ALL surfaces in the Natatorium. They move via venue air handling systems. This is problematic above the pool surface that are not routinely washed down or cleaned. Loudspeakers and their rigging are typically mounted above the "splash zone" and these chloramines are left to settle on structural surfaces, whereby SCC can progress to critical levels. There are no visual inspection methods that detect SCC, so careful monitoring will not ensure that structural members are free from this effect.

Fortunately, there are several grades of stainless steels that are extremely resistant to Chloride SCC. Molybdenum 6% super austenitic stainless steels are excellent choices. These grades are recognized by several European countries as being the only acceptable stainless steels for use in Natatorium environments, where they are load bearing, above the "splash" zone and not routinely washed or cleaned. One Systems uses AL-6XN (N08367) material for rigging components, grilles, screws and the included U-Bracket.

The 108/NAT features an 8" LF woofer and a medium format compression driver. The 108IM/NAT is supplied with two high frequency horns, both of which are fully rotatable and interchangeable. The ETS-60/40 has a 60 by 40 pattern and is mounted at the factory. The 108/NAT also includes an ETS-105/60 horn that features a 105 by 60 degree pattern. It is a high performance system designed for use in indoor swimming pool environments. Its peak power handling is 800 watts and is available in an 8-ohm configuration only. There are only two mounting points (AL-6XN) and the 108IM/NAT may be suspended using the supplied "U" bracket only. The procedure for changing the high frequency horns may be found on the One Systems web site in the documentation section under the "tech papers and install guides" tab. (One Systems Interchangeable High Frequency Horns (for the 108IM loudspeaker). This same procedure should be followed for the 108IM/NAT.

The 108IM/NAT is a closed box design. This acoustic configuration allows for simple low frequency equalization using mixer strip EQ or other shelving style filters. The 108IM/NAT is supplied with an external weather cover and IP68 gland nut for simple wiring. The input is via a barrier strip. The enclosure color is available only in white.

For 108IM/NAT specifications, please see either page 11 or page 30.

#### **FEATURES AND BENEFITS**

- Designed for use in Natatorium (Indoor Swimming Pool) Environments
- 8-Inch Two-Way High-Performance Sealed Enclosure Design
- Two Fully Rotatable and Interchangeable High-Frequency Horns
- Available in White Finish
- · Low Impedance (8-Ohm) High Power Design
- AL6XN Stainless steel U-Bracket Suspension Supplied



# 112/NAT

#### HIGH PERFORMANCE NATATORIUM LOUDSPEAKER SYSTEM

One Systems has developed an application specific set of products designed for use in indoor swimming pool (Natatorium) environments. The 112IM/NAT is constructed using very high molybdenum content stainless steel for all internal and external structural rigging members.

Stainless steels such as 304 and 316 known as austenitic steels, offer good corrosion resistance and strength in typical harsh environments, but will not protect against stress-corrosion cracking (SCC). SCC is a particular problem in indoor pools and can result in structural failure of rigging components. Chlorine based chemicals in the water react with "human" sweat and produce chloramines. These chloramines pass into the atmosphere and are deposited on ALL surfaces in the Natatorium. They move via venue air handling systems. This is problematic above the pool surface that are not routinely washed down or cleaned. Loudspeakers and their rigging are typically mounted above the "splash zone" and these chloramines are left to settle on structural surfaces, whereby SCC can progress to critical levels. There are no visual inspection methods that detect SCC, so careful monitoring will not ensure that structural members are free from this effect.

Fortunately, there are several grades of stainless steels that are extremely resistant to Chloride SCC. Molybdenum 6% super austenitic stainless steels are excellent choices. These grades are recognized by several European countries as being the only acceptable stainless steels for use in Natatorium environments, where they are load bearing, above the "splash" zone and not routinely washed or cleaned. One Systems uses AL-6XN (N08367) material for rigging components, grilles, screws and the included U-Bracket.

The 112IM/NAT features a 12" woofer and a large format high frequency driver. The 112IM/NAT is supplied with a high frequency horn that is fully rotatable and interchangeable. The ET-60/40 has a 60 by 40 degree pattern and is premounted at the factory. The 112IM/NAT can also be fitted with the ET-105/60 horn that features a 105 degree by 60 degree pattern (the ET-105/60 horn may be ordered from One Systems at no additional charge). The procedure for changing the high frequency horns may be found on the One Systems web site in the documentation section under the "tech papers and install guides" tab (One Systems Interchangeable High Frequency Horns For 112IM, 115TW and 115RW loudspeakers). This same procedure should be followed for the 112IM/NAT.

The 112IM/NAT is a high performance system designed for use in indoor swimming pool environments. The design features peak power handling of 3200 watts and is available in an 8-ohm only. There are two mounting points (AL-6XN stainless steel) and the 112IM/NAT may be suspended using the supplied "U" bracket only. The 112IM/NAT is supplied with an external weather cover and IP68 gland nut for simple wiring. The input is via a barrier strip. The 112IM/NAT is a closed box design. This acoustic configuration allows for simple low frequency equalization using mixer strip EQ or other shelving style filters.

For 112IM/NAT specifications, please see either page 13 or page 31.

#### FEATURES AND BENEFITS

- Designed for use in Natatorium (Indoor Swimming Pool) Environments
- 12-Inch Two-Way High-Performance Sealed Enclosure Design
- Fully Rotatable and Interchangeable High-Frequency Horns
- Available in White Finish
- Low Impedance (8 Ohm) High Power Design
- AL6XN Stainless steel U-Bracket Suspension Supplied



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#### SF-4

#### **HIGH-PASS FILTER SYSTEM**

All professional loudspeaker systems regardless of brand, price or design need high-pass filtering to deliver their best performance. The basic function of a high-pass filter is to limit low frequency signals that are below the loudspeaker's tuning frequency in low-impedance systems or below the high power saturation frequency of a transformer in high impedance systems. Filtering these low frequency signals substantially improves loudspeaker reliability, increases its power handling and reduces system distortion. Using a high-pass filter also improves the amplifier's headroom by eliminating subsonic information that requires significant power to reproduce.

Although many professional sound systems use digital signal processors to achieve high-pass filtering and other functions, there are numbers of systems that don't include this necessity because of budgetary concerns or the complexity of setup and adjustment.

The One Systems SF-4 delivers the necessary high-pass filtering at a great price and is easy to set up. A simple four-position switch on its rear panel provide a range of filter settings chosen for One Systems models, but can be used with other brands of speakers with the same benefits. The SF-4's 4th order Butterworth filters deliver excellent sound quality and its + 6 dB of output gain helps when driving long signal lines and to minimize noise.

The SF-4 ensures that your system will sound its best and be protected against damaging infrasonic overload.

Frequency Response:	User-selected HP cutoff - 20,000 Hz	
Input:	Active Balanced (pin 2 +)	
Maximum Input Level:	+18 dBV (8 V rms)	
Output:	Active Balanced (pin 2 +)	
Maximum Output Level:	+24 dBV (16 V rms)	
Input Connector:	1 x 3-pin XLR-type	
<b>Output Connectors:</b>	2 x 3-pin XLR-type	
High-Pass Filter Frequencies:	35 Hz, 45 Hz, 60 Hz, 80 Hz	
Filter Type:	4th Order Butterworth (24 dB-per-octave)	
AC requirements:	115 V ac or 230 V ac (user-selectable)	
Dimensions:	483 x 145 x 44 mm (1 EIA rack space)	



#### **ACCESSORIES**

One Systems offers a wide variety of suspension hardware and accessories that enable customized installation for nearly any application. One Systems hardware is heavy-duty and will easily withstand use in any weather condition due to its 304-grade stainless and 316-grade stainless steel construction. Visit our website at www.onesystems.com for more information on installation and rigging hardware.

# **EYE BOLT KITS**

#### EYE BOLT KIT; EYE BOLT KIT-W; M8 EYE BOLT KIT

The Eye Bolt Kit includes  $4 - M10 \times 1.5 15$ -mm eyebolts for suspending One Systems injection-molded models including POPS15a, 112IM, 212CIM, 212IM, 312CIM and 112IM-Sub. The Eye Bolt Kit-W includes  $4 - M10 \times 1.5 40$ -mm eyebolts for use with One Systems birch plywood special order speakers. The M8 Eye Bolt Kit includes 4 - M8 eyebolts for use with One Systems 108IM and 208CIM models.

#### **U-BRACKETS**

# 108IM-U; 108IM-U-WHITE; 112IM-U; 112IM-U-WHITE; 212IM-U; 115TW-U; 108IM/U-MARINE-WHITE; 112IM/U/MARINE-WHITE

U-Brackets are used for vertical, horizontal, ceiling or wall mounting of corresponding One Systems models. Brackets are made of E-coated 304-grade stainless steel and include all bolts, flat washers, gaskets and lock washers necessary for attaching to the speaker. Brackets for 8-inch and 12-inch models are available in black, white, and in marine-grade 316 stainless steel

# PAN AND TILT BRACKETS

#### PT-10; PT-38A; PT-76A

One Systems Pan and Tilt Brackets are used for attaching speaker systems to walls or flat surfaces so that the speaker can be precisely aimed. Each model offers vertical and horizontal aiming flexibility for precise aiming. The PT-10 is designed for use with the 103IM and 106IM systems and offers 20 degrees of pan and tilt axis adjustment. The PT-38a will mount 108IM and 208CIM models on walls and provides 35 degrees of horizontal and vertical aiming adjustment. The PT-76a is designed for use with CrossFieldArray, CrossFieldArray-2, 312CIM, 212IM, 212CIM, and 112IM on walls provides 35 degrees of horizontal and vertical aiming adjustment.



# **POLE MOUNT BRACKETS**

# POLE MOUNT SYSTEM-3; POLE MOUNT SYSTEM EX-3; POLE MOUNT MINI; PT-30

One Systems Pole Mount System Brackets attach speakers on to light or utility poles safely and securely. Each bracket includes a variable length link pull-up line for added security as well as all the hardware necessary to attach the speaker to the bracket.

These brackets attach to the mounting pole with user-supplied BAND-IT-IDEX stainless steel strapping and clamps. The brackets have a wide range of pan and tilt adjustments that are adjustable in 5-degree increments up to a maximum of 40 degrees downward. Pole Mount System-3 is designed for use with 112IM and 212CIM; Pole Mount System EX-3 is designed for use with CrossFieldArray, CrossFieldArray-2, 312CIM and 212IM. Pole Mount Mini works in conjunction with the 103IM and 106IM. The PT-30 is a new pole mount system that is specifically designed to install 108IM and 208CIM models to poles with diameters as small as 3.75" - 4.00".

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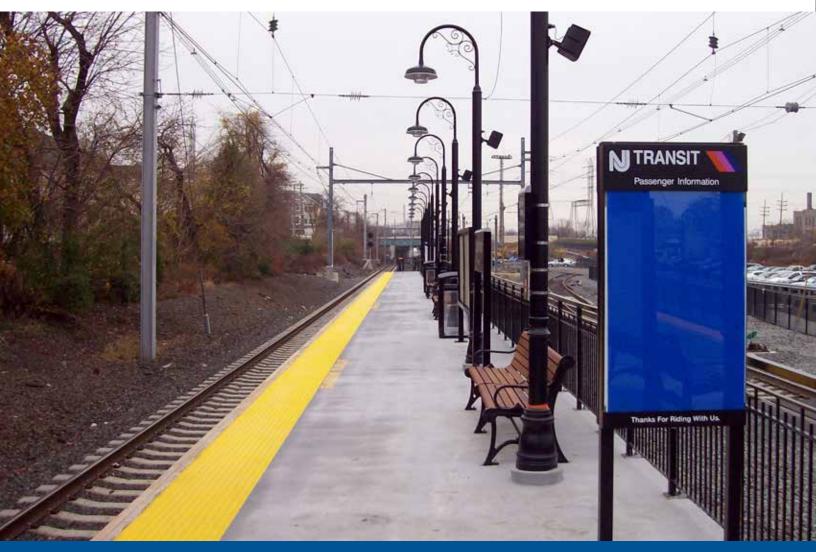
# MARINE-GRADE BRACKETS

#### PT38/MARINE; 108IM-U/W; 112IM-U/W

The PT-38/MARINE-WHITE is designed for pan/tilt mounting or pole mounting with 108IM-W/Marine loundspeakers.

108IM-U/WHITE and 112IM-U/WHITE brackets are also available in 316 marine-grade stainless steel for cruise ships and oceanfront "salt-spray" applications.

Marine grade (316-grade) stainless steel eyebolts are also available for use with our marine-grade loudspeakers. Check with One Systems or a One Systems dealer or distributor for more information.





COWBOYS STADIUM • ARLINGTON, TX • 312CIM



CINECITTA KAWASAKI • TOKYO, JAPAN • 212CIM • 118SUB



LIDO DECK • CARNIVAL CRUISE LINES • 208CIM



NON WEATHERIZED INSTALLATION SPEAKERS

#### **ABOUT ON POINT AUDIO**

On Point Audio is a vibrant, fast-growing brand of One Systems, Inc. On Point Audio was started to use the company's engineering and design expertise as well as its manufacturing resources to provide customers with a line of non-weatherproof speakers with extraordinarily high value.

Thanks to our experience in working with top systems contractors, sound companies, and in major venues all over the world, we know the type of sound that customers demand as well as the features that are required. This experience goes into every On Point Audio product.

You'll find that On Point Audio products deliver a new standard of performance and unsurpassed value in premium loudspeakers that are tailor-made for a range of installation and portable systems. As a testament to our faith in what we build, each On Point Audio model is backed by a five-year limited warranty (see our warranty statement for details).

# **INNOVATIVE FEATURES**

#### PREMIUM COMPONENTS

On Point Audio components have the transducer engineering finesse you typically find in much more expensive systems. On Point Audio pure titanium compression drivers deliver incredible transient response and vocal clarity to ensure that your music is reproduced with stunning accuracy. Woofers feature large-format voice coils and rugged construction to deliver the solid fundamentals and long-term reliability that professionals demand. In addition to top quality drivers, On Point Audio components are fine-tuned to ensure that any response anomalies are mitigated at their source. This super tweaking ensures better audio definition and a sonic image that's bigger than the dimensions of the enclosure.

#### **EXCLUSIVE NARROW-PROFILE™ WOOFERS**

In order to meet customer demands for speaker systems with big sonic impact from small enclosures, On Point Audio developed Narrow-Profile<sup>TM</sup> woofers. Narrow-Profile<sup>TM</sup> woofers combine standard-sized cones with unique rolling-style surrounds and rectangular frames that extend to the edges of the enclosure. Narrow-Profile<sup>TM</sup> drivers enable On Point Audio to significantly reduce the overall size of its drivers and enclosures. For installation applications, this means enclosures that are less visually obtrusive.

#### SOLID CONSTRUCTION

All On Point Audio wood speakers are built of top-quality Marine-grade birch plywood and are finished with PowerCoat<sup>™</sup>, a super-tough, good-looking, wear-resistant coating. The wood is void-free and is rigidly braced to prevent unwanted resonances. All suspension points are heavily reinforced to provide > 8:1 safety factor for your peace of mind. Grilles are made of heavy-duty CNC machined steel for driver protection. You can see and feel the quality of construction that goes into every On Point Audio speaker.

#### ROTATABLE HORNS

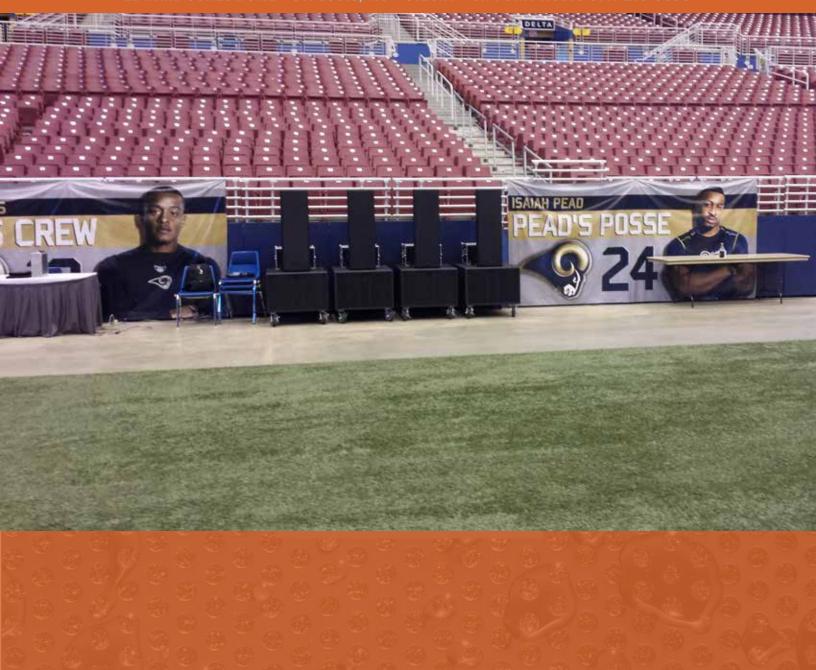
Many On Point Audio models are equipped with fully rotatable high-frequency horns to give you the flexibility of placing the speaker horizontally or vertically to get optimum coverage. On Point Audio horns are precisely designed so they don't resonate and color your sound. They provide true constant-directivity coverage to ensure smooth pattern control.

#### FLEXIBLE MOUNTING OPTIONS

To ensure flexibility for installation and other applications, On Point Audio systems feature built in stainless steel metric. Choose from a range of optional eyebolt kits, U-Brackets, pan & tilt brackets and array brackets to meet your suspension needs. Some systems are also equipped with built-in pole sockets for quick point-and-shoot setups.

#### PRECISION ELECTRONICS

On Point Audio models with built in amplifiers and digital signal processing feature premium European designed electronics. The amplifiers use pure class D circuitry and are among the most electrically efficient products on the market today. To ensure that the audio is as pure as possible, the amplifiers are designed with a high slew rate to ensure that they never sound "squashed." On Point Audio speakers are well designed acoustically so they require almost zero DSP equalization, which maximizes headroom and keeps distortion low.



# ON POINT AUDIO

On Point Audio branded loudspeakers provide a perfect complement to One Systems Direct Weather loudspeakers. On Point Audio models are designed to offer premium quality and performance for indoor venue installations and certain portable applications, but without the added costs that are associated when weather-proofing loudspeaker systems. On Point Audio models range from ultra-high output 8" coax systems to incredible subwoofer systems. Many On Point Audio models are even built utilizing our proprietary "Narrow-Profile" design, which provides highoutput, full-range systems in cabinet sizes that are smaller than competitive models.

#### **OPA-8-NP**

The On Point Audio OPA-8-NP is an ultra-miniature sized, high-performance 8-inch (203 mm) two-way loudspeaker system featuring an 8-inch woofer and a coaxially-mounted-1.35-inch titanium compression driver. The OPA-8-NP features a 90-degree conical coverage pattern making it perfect for near field and medium-range applications.

The OPA-8-NP delivers excellent fidelity with superior vocal reproduction and intelligibility. The OPA-8-NP's small size, high output capability, sturdy construction and mounting flexibility make it a unique audio problem-solver.



Frequency Response:	80Hz - 16kHz
Coverage Pattern:	90 degrees conical
Passive Crossover Frequency:	1600Hz
Inputs:	4-position barrier
System Sensitivity (1watt-1meter):	91dB
Power Handling (Continuous /Peak):	150, 300, 600 watts
Nominal Impedance:	8 ohms
System Components:	NP8-CXFF Coax
Suspension/Mounting points:	M8
Dimensions (H x W x D) inches/mm:	9.54 in x 7.2 in x 8.2 in / 242.5 x 183 x
	208mm
Net Weight: 6.8 kg (15 lb)	6.8 kg (15 lb)

#### **FEATURES AND BENEFITS**

- · High-Output/High-Intelligibility two-way coaxial system.
- Very small format enclosure with excellent range of aiming
- Optimized for high-intelligibility and vocal articulation.
- Conical radiation pattern optimized for wide coverage
- Pure titanium compression driver
- Multiple M8 flying points
- Available Pan and Tilt and U-bracketwith PowerCoatTM finish, comfort-lift handles and a threaded metal pole-mount socket

#### **OPA-28-NP**

The OPA-28-NP is an innovative dual 8-inch two-way array system with excellent sound quality and prodigious output capability that is incredible for a speaker system with such a small enclosure size. Thanks to its Narrow-Profile™ 8-inch woofers and coaxially mounted 1.35-inch compression driver, its enclosure is only 7.3 in / 185.4 mm wide and can deliver 127 dB max output capability.

# **APPLICATIONS**

- Distributed sound reinforcement systems for speech or music
- · Foreground / background
- Main PA in smaller venues installed or portable
- Houses of worship, retail, restaurants, clubs



System Type:	Ultra-compact dual 8-inch two-way
Frequency Range (-10 dB):	80 Hz - 20,000 Hz
Frequency Response (-3 dB):	85 Hz - 20,000 Hz
Power Rating (Peak / Continuous):	1,600 / 400 watts
Coverage Pattern (H x V):	80º conical
Nominal Impedance:	4 ohms
Full-Space System Sensitivity:	95 dB
Rated Max SPL (Peak / Continuous):	127 dB / 121 dB
LF Driver:	NP8F 8 inch
LF / HF Driver:	NP8-CX w/ 1.35-inch titanium
Dimensions (H x W x D) inches/mm:	18.4 x 7.3 x 8.1 in / 750 x 373 x 635 mm
Enclosure Material:	Marine-Grade Birch plywood
Suspension / Mounting:	14 x M8
Net Weight:	24 lb / 11 ka

#### **FEATURES AND BENEFITS**

- Dual 8-inch two way system with 12-mm marine-grade birch plywood enclosure with PowerCoat™ finish
- 400 watts continuous, 1,600 watts peak power handling
- Ultra-miniature size narrower than a typical 8-inch system
- 80-degree conical coverage pattern for vertical or horizontal placement
- · Coaxial design ensures "point source alignment" for smooth sound quality
- 14 x M8 inserts that accommodate a host of installation accessories or external pole mount

#### **OPA-12**

The OPA-12 is a high-performance 12-inch (305 mm) two-way loudspeaker system featuring large-format components built by On Point Audio. The OPA-12 features a fully rotatable 60 x 40 degree high frequency horn as standard, plus an optional 90 x 40 degree horn is also available. The OPA-12's enclosure is built of 13-ply marine-grade birch plywood and is equipped with multiple M10 inserts that can be used with optional eyebolts, a U-Bracket and a Pan/Tilt bracket for installation flexibility. The OPA-12 is an ideal design for fixed installations where excellent bandwidth and controlled time domain response are specified. The system delivers superior intelligibility, excellent articulation, and wide bandwidth for music reproduction.



Frequency Response:	65Hz - 16kHz
Coverage Pattern:	60 x 40 Rotatable 90x40 Rotatable (optional)
Passive Crossover Frequency:	1600Hz (60x40 horn) 1400Hz (105x60 horn)
Inputs:	4-position barrier
System Sensitivity (1watt-1meter):	95dB
Power Handling (Continuous /Peak):	600, 1200, 2400 watts
Nominal Impedance:	8 ohms
System Components:	FW-120 12" ferrite woofer TD-325 large format titanium driver CD-60/40 and CD-90/40
Suspension/Mounting points:	M10
Dimensions (H x W x D) inches/mm:	28.4 in x 14 in x 14.8 in / 722mm x 355mm x 376mm
Net Weight: 6.8 kg (15 lb)	30 kg (66 lb)

#### **FEATURES AND BENEFITS**

- High-Output/High-Intelligibility two-way system
- Fully rotatable and interchangeable high-frequency horns (60x40 and 90x40)
- Large Format titanium compression driver
- Multiple M10 fly points
- Available Pan and Tilt bracket and U-bracket with comfort-lift handles and a threaded metal pole-mount socket

# **OPA-15-NP**

The OPA-15-NP is a large-format, wide-range 15-inch two-way speaker system with a trapezoidal enclosure that delivers wideband sound and extended bass response. Its rotatable High-Q 60° x 40° constant-directivity horn delivers longer "throw" and superb pattern control. For applications in large venues that need more output with fatter low-end, the OPA-15-NP is the perfect solution.

# **APPLICATIONS**

- Powerful full-range sound system without subwoofer
- · High output, High-Q mid/high pack paired with a subwoofer
- Installed sound reinforcement use placed vertically or horizontally



System Type:	Large-format 15-inch two-way full-range
Frequency Range (-10 dB):	45 Hz - 18,000 Hz
Frequency Response (-3 dB):	55 Hz - 16,000 Hz
Coverage Pattern:	60 x 40 Rotatable
System Sensitivity (1watt / 1meter):	96 dB
Power Handling (Continuous /Peak):	800 / 3,200 watts
Nominal Impedance:	8 ohms
System Components:	NP15F 15-inch woofer with 4-inch voice coil ND175T titanium driver CD-60/40
Suspension/Mounting points:	20 x M10
Dimensions (H x W x D) inches / mm:	29.5 x 14.7 x 25 in / 750 x 373 x 635 mm
Net Weight: 6.8 kg (15 lb)	40.5 kg (89 lb)

#### FEATURES AND BENEFITS

- ge-format enclosure and premium components delivers smooth, wide frequency response
- 800 watts continuous, 3,200 watts peak power handling ensures high output capability
- Narrow-Profile woofer with large 4-inch voice coil delivers solid bass and smooth mids in this large-format enclosure
- High-Q 60° x 40° rotatable horn has excellent projection and superb pattern control
- Large-format Tour-grade 13-ply ¾3/4-inch (18-mm) void-free plywood trapezoidal enclosure with wear-resistant PowerCoat™ finish

#### **OPA-15-NPM**

The OPA-15-NPM is an ultra-low profile 15-inch two-way floor monitor featuring two projection angles. Thanks to its unique design, it doesn't interfere with sight lines while still delivering detailed sound for performers. The OPA-15-NPM is configurable for use on short, wide stages or on long, deep ones. It delivers all the sonic nuances perfectly.

# **APPLICATIONS**

- High-performance on-stage monitoring
- · Utility front-of-house system or small PA

System Type:	15-inch two-way floor monitor with 38 & 52-degree
	angles
Frequency Range (-10 dB):	65 Hz - 18,000 Hz
Frequency Response (-3 dB):	75 Hz - 16,000 Hz
Power Rating (Peak / Continuous):	3,200 / 800 watts
Coverage Pattern (H x V):	90° x 75° rotatable
Nominal Impedance:	8 ohms
Full-Space System Sensitivity:	96 dB
Rated Max SPL (Peak /	131 dB / 125 dB (@ 1 m / 3.3 ft)
Continuous):	
LF Driver:	NP15F-Passive 15 inch / 4 inch
LF / HF Driver:	ND175 titanium
Dimensions (H x W x D) inches/mm:	25.3 x 14.7 x 12.7 in / 645 x 373 x 323 mm
Enclosure Material:	Marine-Grade Birch plywood
Suspension / Mounting:	35 mm pole socket
Net Weight:	53 lb / 24 kg

#### **FEATURES AND BENEFITS**

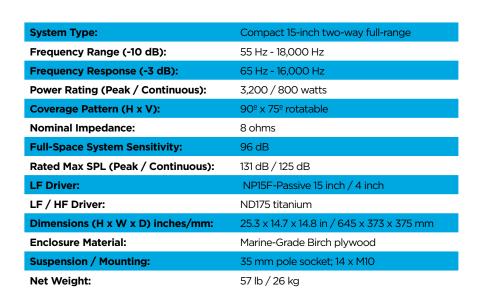
- Super low-profile, dual-angle enclosure with 52-degree or 38-degree projection angles for coverage on different-sized stages
- 800 watts continuous, 3,200 watts peak power handling ensures high output capability
- Beautifully-detailed sound quality with excellent vocal intelligibility ensures superior musical definition and performance
- Only 13.15 inches / 334 mm high in in monitor orientation
- Fully-rotatable  $90^{\circ}$  x  $75^{\circ}$  horn can be positioned to get desired coverage
- Tour-grade 13-ply ¾3/4-inch (18-mm) Marine-grade plywood enclosure with PowerCoat™ finish, comfort-lift handles and pole-mount socket

#### **OPA-15-YNP**

The OPA-15-YNP is a compact, high-performance 15-inch two-way speaker that's about the same size as many 12-inch systems! Its small size comes with no sacrifice in performance – it handles 800 watts continuous – and its sound is precisely tailored to deliver smooth lows, maximum vocal intelligibility and superb musical definition.

#### **APPLICATIONS**

- · Compact, yet powerful front-of-house system or stand-alone PA
- Excellent mid/high pack paired with a subwoofer
- Installed sound reinforcement use placed vertically or horizontally





#### FEATURES AND BENEFITS

- Narrow profile design makes it very portable
- 800 watts continuous, 3,200 watts peak power handling delivers high output capability
- 90° x 75° constant-directivity horn that's rotatable so that the system can be placed horizontally or vertically
- Innovative NP15N Narrow-Profile woofer with 4-inch (101.6-mm) voice coil delivers solid low end response and smooth mids
- Tour-grade 13-ply 3/4-inch (18-mm) void-free plywood trapezoidal enclosure with wear-resistant PowerCoat™ finish
- 14 x M10 inserts and 35 mm pole-mount socket for safe mounting flexibility

# **OPA-118-SUB**

The OPA-118-Sub is a high-powered 18-inch subwoofer that adds big bass impact to any audio system. The-OPA-118 Sub's deep geometry, angled baffle and slotted vent design augments the powerful woofer's output to generate massive low-end, excellent transient attack and impressive bass projection. The OPA-118-Sub's sound "hits hard" - yet its small and easy to move.

# **APPLICATIONS**

- Low frequency augmentation for professional sound systems
- Medium and large-scale venues



System Type:	18-inch vented slot subwoofer
Frequency Range (-10 dB):	30 Hz - 80 Hz
Frequency Response (-3 dB):	35 Hz - 80 Hz
Power Rating (Peak / Continuous):	3,200 / 800 watts
Coverage Pattern:	Essentially omnidirectional
Nominal Impedance:	8 ohms
Half-Space Loaded System	98 dB
Sensitivity:	
Rated Max SPL (Peak / Continuous):	133  dB / 127  dB  (@ 1  m / 3.3  ft)
LF Driver / Voice Coil:	NP18 18-inch / 4 inch
Dimensions (H x W x D) inches/mm:	20.6 x 18.6 x 43.3 in / 524 x 472 x 1100 mm
Included Accessories:	Deluxe casters, speaker mounting pole
Enclosure Material:	Marine-Grade Birch plywood
Suspension / Mounting:	M20 screw-on pole mount
Net Weight:	114 lb / 52 kg

#### **FEATURES AND BENEFITS**

- 18-inch woofer with large-format 4-inch (101.6-mm) voice coil delivers high output capability, chest-pounding bass fundamentals and usable response to ~ 30 Hz
- 800 watts continuous, 3,200 watts peak power handling
- Vented slot design and deep enclosure geometry impressive bass punch with tremendous projection
- Includes heavy-duty casters for easy portability.
- Small minimum-width frontal area keeps the OPA-118 Sub unobtrusive it's an 18-inch sub that's the size of a 15-inch model
- Tour-grade 13-ply ¾3/4-inch (18-mm) Marine-grade plywood enclosure with PowerCoatTM finish, comfort-lift handles and a threaded metal pole-mount socket

#### **OPA-218-SUB**

The OPA-218-Sub is a dual 18-inch extremely high-output subwoofer system for people who want low, deep bass at high levels. This sub's unique configuration and side-by-side driver placement maximizes mutual coupling of the woofers and boundary-effect reinforcement so that your audience feels every note and beat. The sound of the OPA-218-Sub goes right through you!

# **APPLICATIONS**

- Low frequency augmentation for professional sound systems
- Medium and large-scale venues

System Type:	Dual 18-inch vented slot subwoofer
Frequency Range (-10 dB):	25 Hz - 80 Hz
Frequency Response (-3 dB):	30 Hz - 80 Hz
Power Rating (Peak / Continuous):	6,400 / 1,600 watts
Coverage Pattern:	Essentially omnidirectional
Nominal Impedance:	4 ohms
Half-Space Loaded System Sensitivity:	100 dB
Rated Max SPL (Peak / Continuous):	135  dB / 129  dB  (@ 1  m / 3.3  ft)
LF Driver / Voice Coil:	NP18 18-inch / 4 inch
Dimensions (H x W x D) inches/mm:	20.9 x 31.2 x 43.3 in / 532 x 793 x 1100 mm
Included Accessories:	Deluxe casters, adjustable-height mounting
	pole
Enclosure Material:	Marine-Grade Birch plywood
Suspension / Mounting:	M20 screw-on pole mount
Net Weight:	176 lb / 80 kg

#### **FEATURES AND BENEFITS**

- Deep enclosure with vented slot design delivers solid bass fundamentals to ~ 25 Hz
- 1,600 watts continuous, 6,400 watts peak power handling
- Powerful 18-inch woofers with large-format 4-inch voice coils deliver tremendous airmoving capability, true low bass output and superior reliability
- Comes with heavy-duty, rear-mounted casters for easy moving and an adjustableheight pole for suspension of full-range systems
- Tour-grade 13-ply ¾3/4-inch (18-mm) Marine-grade plywood enclosure with PowerCoat™ finish, comfort-lift handles and a threaded metal pole-mount socket

#### **OPALINE**

On Point Audio's OPALine is a single-box vertical line array that is designed for permanent installation and live sound reinforcement applications. Its vertical transducer configuration generates very wide horizontal dispersion, while providing precise vertical pattern control. The defined vertical pattern offers excellent intelligibility in reverberant spaces by maximizing direct-to-reflected sound.

System Type:	Multi-element vertical line array
Frequency Range:	10 dB: 60 Hz - 20,000 Hz
Frequency Response +3 dB:	80 Hz - 20,000 Hz
Nominal Impedance:	4 ohms
Power Handling (Continuous / Peak):	800, 3200 watts
Cover Pattern:	$90^{\circ}$ H x $40^{\circ}$ V (extended bandwidth
	vertical)
Beam Control Frequency:	800 Hz
Sensitivity (1 watt / 1 meter):	95 dB
Max Rated SPL (Continuous / Peak):	124 dB / 130 dB
Inputs:	2 x Neutrik Speakon; 1 x 4-Position
	Barrier Strip
Dimensions: Metric (mm):	44.3 x 8.0 x 13.7 in / 1,125 x 203 x 348 mm
Weight:	39 Kg / 86 lb



- 6-element vertical line array
- 4 x NP8 8-inch narrow-profile low-frequency transducers
- 2 medium format compression drivers
- 2-element frequency shaded high-frequency wave guides
- Wide 90-degree horizontal coverage
- Multi-element controlled extended bandwidth 40 degree vertical dispersion
- Double pole mount for ground-stacked use with OPALine Sub
- Optional Eye Bolt Kit-W and OPA-PTB wall mount bracket for installation flexibility and OPA-Pick handle cover kit for décor-conscious installation
- 800 watts continuous, 3,200 watts peak power handling
- Usable as a powered system when combined with OPALine Sub, as a stand-alone passive system, or with other subwoofers.



# **OPALINE-SUB**

The On Point Audio OPALine Sub is a powered 18-inch subwoofer system with two amplifiers onboard – one to power the subwoofer and a second to power the OPALine or any other full-range speaker.



System Type:	Dual-Channel Powered 18-inch subwoofer
	with vented enclosure
Frequency Range:	Sub Output: 30 Hz -120 Hz
	High Pass Output: 120 Hz - 20,000 Hz
Power Output:	LF: Continuous 500 watts (burst) / 1,000
Power Output.	
	watts (peak)
	HF: Continuous 500 watts (burst) / 1,000
	watts (peak)
Input Sensitivity:	0.774 V
Rated SPL max output:	128dB (half space acoustic environment)
Max Rated SPL:	Peak 125 dB / Continuous 122 dB
Inputs:	Balanced 3-pin XLR-type
Outputs:	1 x Neutrik NL-4 (high-passed): Balanced
	3-pin XLR-type (signal thru)
Dimensions:	21.46 x 19.7 x 27.9in / 545 x 500 x 707.5 mm
Weight:	35.5 kg / 78.3 lb

# **FEATURES AND BENEFITS**

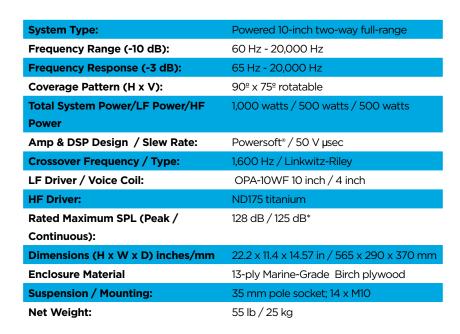
- Powered Subwoofer featuring 18-inch woofer with 4-inch voice coil
- Two-Channel Class "D" 500 watt per channel amplifiers (1,000 watts peak per channel)
- 500 watt band-passed subwoofer output (1,000 watts peak)
- 500 watt high-passed output for OPALine full-range system (1,000 watts peak)
- Two screw-on pole mounts for elevating OPALine array for ground-stacked applications (shipped with the product)
- Rear-mounted professional casters (two lockable) for easy moving

#### **OPA-10-ACTIVE**

The OPA-10-Active's combination of small size, tour-grade enclosure, premium components and high output capability puts many larger systems to shame. Thanks to its exceptional transducers, premium Powersoft® amplifier and DSP, the OPA-10-Active delivers huge, well-balanced sound!

# **APPLICATIONS**

Portable and installed sound systems for churches, theatres, clubs or general sound reinforcement





#### **FEATURES AND BENEFITS**

- Powersoft® amplifier with 1,000 watts of total system power a 500 watt lowfrequency amp and a 500 watt high-frequency amp. Powersoft® DSP delivers precise crossover, high-pass and alignment
- 10-inch (254-mm) woofer with large-format 4-inch voice coil delivers very solid lows and smooth mids
- 90°x 75° constant-directivity horn is fully rotatable so that the system can be positioned horizontally or vertically to get optimum coverage
- Tour-grade 3/4-inch (18-mm) 13-ply marine birch plywood trapezoidal enclosure is finished with tough PowerCoat™ wear resistant finish
- 10 x M10 inserts are included for permanent installation or rigging

# **OPA-15-ACTIVE**

On Point Audio's OPA-15-Active is a powered 15-inch two-way system featuring a thick-walled injection-molded enclosure, Powersoft® amps and DSP with 1,000 watts plus state-of-the-art acoustics. The OPA-15-Active delivers high output with excellent throw and awesome sound from its slim enclosure. Thanks to its built in pole mount socket, 7 x M10 inserts and specially shaped enclosure, the OPA-15-Active is ready for any stage or installation application

#### **APPLICATIONS**

Portable and installed sound systems for churches, theatres, clubs or general sound reinforcement





#### FEATURES AND BENEFITS

- Ultra-strong thick-walled injection-molded enclosure is the same size as many 12-inch systems thanks to narrow-profile NP15N 15-inch woofer
- Powersoft® amplifier with 1,000 watts of total system power a 500 watt lowfrequency amp and a 500 watt high-frequency amp
- 15-inch (381-mm) woofer with large-format 4-inch voice coil
- 1.75-inch (44.4-mm) compression driver with pure titanium diaphragm is coupled with a High-Q  $60^{\circ}$  x  $40^{\circ}$  constant-directivity horn.
- Compact size for easy placement. Flexible mounting on standard 35-mm pole or rigging for fixed installation with 7 x M10 inserts. Usable as a floor monitor too

#### **OPA-SUB-ACTIVE**

The OPA-Sub-Active combines a powerful 18-inch woofer, 2,000 watts of digitally-processed room-shaking power and a rock-solid, precisely-tuned compact enclosure. The OPA-Sub-Active is all you need to add fat, solid low end to your sound system – simply connect it to your system and it will absolutely blow your audience away.



System Type:	Powered 18-inch subwoofer
Frequency Range (-10 dB):	37 Hz - 80 Hz
Frequency Response (-3 dB):	40 Hz - 80 Hz
Coverage Pattern (H x V):	Essentially omnidirectional
Total System Power:	1,000 watts
Amp & DSP Design / Slew Rate:	Powersoft® / 50 V µsec
Crossover Frequency / Type:	80 Hz High-Pass / Linkwitz-Riley
LF Driver / Voice Coil:	NP18N 18 inch / 4 inch
Rated Maximum SPL (Peak /	130 dB / 127 dB (Actual measurement)
Continuous):	
Included Accessories:	Deluxe casters, adjustable-height mounting
	pole
Dimensions (H x W x D) inches/mm:	32.72 x 19.69 x 20.87 in / 831 x 500 x 530
	mm
Enclosure Material:	Marine-Grade Birch plywood
Suspension / Mounting:	M20 screw-on pole mount
Net Weight:	85 lb / 40 kg

#### **FEATURES AND BENEFITS**

- 18-inch woofer with large-format 4-inch voice coil in an optimally-tuned, vented enclosure delivers prodigious bass output
- Class-D amplifier delivers 2,000-watts peak for high output capability. On-board processing with EQ, crossover and dynamics control is integrated into the amp module. No cooling fan is needed
- Comes with heavy-duty casters for easy moving. An adjustable-height pole is included for suspension of full-range systems
- Tour-grade 3/4-inch (18-mm) void-free plywood enclosure is finished in wear-resistant polyurethane paint and is equipped with a full-faced steel grille, comfort-lift handles and a threaded metal pole-mount socket
- 80-Hz high-pass output makes it easy to daisy-chain the Sub Active with an OPA-10
  Active or OPA-15 Active to create a full three-way tri-amped system. 3-pin XLR-type
  input and output for easy signal routing

# **NOTES:**

SHIN-GI-CHON CHURCH • SEOUL, SOUTH KOREA • OPA-15-NPM



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