

# Zx5 Series Loudspeaker Owner's Manual







### Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The asterisk within an equilateral triangle is intended to inform the user to necessary installation or removal instructions regarding equipment or hardware use relating to the system.

### Zx5 Series Owner's Manual

Thank you for choosing the Electro-Voice® Zx5 series loudspeaker system. This system is the culmination of EV's 75 years of experience in transducer design. Please take time to consult this manual so that you can understand all the features built into your EV system and fully utilize all its performance capabilities.

ELECTRO-VOICE® Zx5 Owner's Manual



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### Safety First

When setting up, installing and using the Electro-Voice® Zx5 speaker system, there are a number of precautions that you should follow:

- When Electro-Voice® Zx5 speakers are used for portable applications in which they will be positioned directly on the floor, make sure that the floor or stage is solid and secure.
- Electro-Voice® Zx5 speakers include 1-3/8 inch stand mounts to allow mounting on tripod stands.
   Make sure to:
- Check the specifications of the speaker stand to be certain it is capable of supporting the weight of the speaker.
- Check that the speaker stand is placed on a flat, stable surface and be sure to fully extend the legs of the stand. Do not try to make the stand "taller" and compromise its structural integrity.
- Route cables and position the stand so that performers, production crew and audience members
  will not trip over the stand or cables and pull the speaker system over. Secure cables with wire
  ties or tape whenever possible.
- Do not attempt to suspend more than one speaker on a stand designed for a single speaker
- Unless you are confident that you can safely handle lifting the weight of the speaker onto the stand, ask another person to help you place it.
- If you intend to hang or fly the Zx5 system, only do so safely with the correct hardware and accessories.



**WARNING:** Suspending any object is potentially dangerous and should only be attempted by individuals who have a thorough knowledge of the techniques and regulations of rigging objects overhead. Electro-Voice® strongly recommends that Zx5 speakers be suspended taking into account all current national, federal, state and local regulations. It is the responsibility of the installer to ensure that Zx5 speakers are safely installed in accordance with all such regulations. If Zx5 speakers are suspended, Electro-Voice® strongly recommends that the system be inspected at least once a year. If any sign of weakness or damage is detected, remedial action should be taken immediately. There are data sheets for each EV Suspension and Array Kit that should also be consulted prior to suspending speakers.



• Electro-Voice® does not recommend use of Zx5 speakers outdoors without protection from rain or in high moisture environments.



• Electro-Voice® Zx5 loudspeakers are easily capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 90 dB.



### Description

The Electro-Voice® Zx5 is a unique, lightweight package of pro audio performance, versatility and aesthetics. You won't find a speaker system available on the market that offers the unbelievable sound, incredible flexibility and tremendous output capability of the Zx5 anywhere near it's size and weight.

### System Features - Zx5

- Full-face grille for a clean, professional look.
- DVX3150 15" woofer with 500 watts continuous power handling.
- ND2 2" voice coil, 1" exit neodymium compression driver.
- Two models: 60° x 60° or 90° x 50° coverage patterns.
- Adjustable monitor angle built into enclosure.
- Integral rigging points and inserts for multiple flying options.
- Full line of accessories for any installation.

### System Coverage - Zx5

#### **Coverage Patterns and Applications**

Zx5-60 60° x 60° coverage for long-throw and cluster applications

Zx5-90 90° x 50° for wider coverage or shorter distances

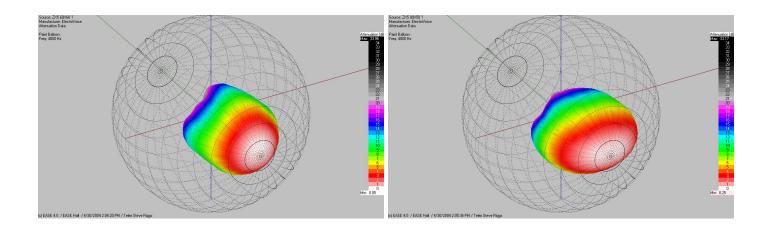


Figure 1a: 3D EASE Directivity Balloon, Zx5-60, 60° x 60° Coverage

Figure 1b: 3D EASE Directivity Balloon, Zx5-90, 90° x 50° Coverage



### Suspending Zx5 Speaker Systems

Zx5 enclosures have 5 steel anchor points internally mounted on the top, bottom, and rear. Single stud fittings can be attached to these anchor plates and used as suspension points. Each of these anchor plates also has a M8 thread to accept rated forged M8 shoulder eyebolts. In addition to these points there are five additional M8 threaded points; two on the handle side, and three on the rear. These points can be used for suspending Zx5s vertically, horizontally, individually, in clusters, or to attach to EV mounting brackets. Working load limits for the Zx5 and fittings are shown in Figure 2. Zx5 has been pull tested and exceeds a safety factor of 8 to 1 when properly used.

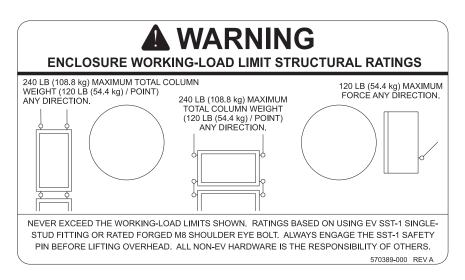


Figure 2:
Working Load-Limit Rating of Zx5 Speaker System

Prior to each use, inspect the grid assembly or suspension point(s) and associated hardware for any cracks, deformations, broken welds, corrosion, missing or damaged components which could reduce the grid assembly or suspension point(s) strength. Replace any damaged hardware. Never exceed the limitations or maximum recommended load intended for grid assembly design or suspension point(s). As an added safety measure, it is suggested that the user install a second suspension point back to the grid (or building structural supports). This redundant safety point should have as little slack as possible (less than one inch is preferable).

Prior to each use, inspect the loudspeaker enclosures for any cracks, deformations, missing or damaged components, which could reduce enclosure strength. Inspect the bracket assembly on the enclosures for any cracks, deformations, missing or loose screws which could reduce the flying hardware strength. Replace any loudspeaker systems that are damaged or missing hardware. Never exceed the limitations or maximum recommended load for the Zx5 systems.



#### **Zx5 M8 Suspension Points**

Metric (M8) inserts are equipped on the top and bottom of the enclosure, around the handle, and on the back of the enclosure for a total of 10 points. The inserts can be used to attach forged eyebolts or rigging brackets.

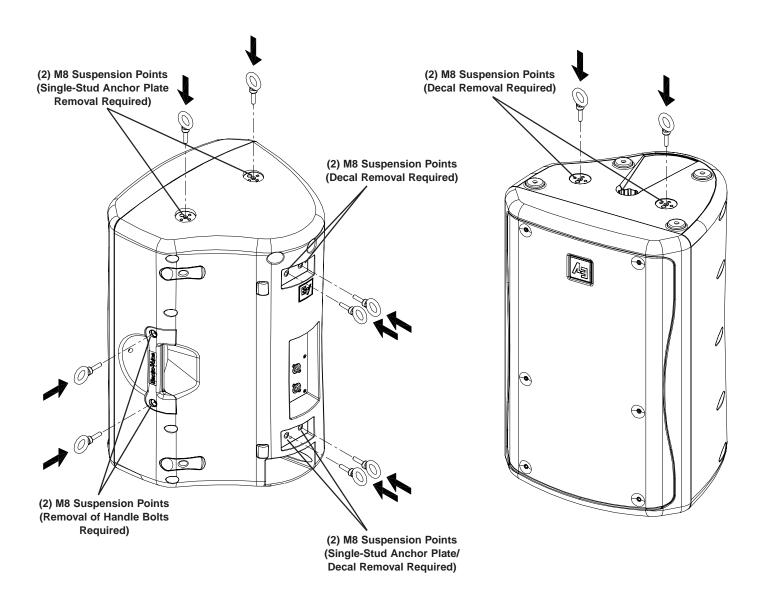


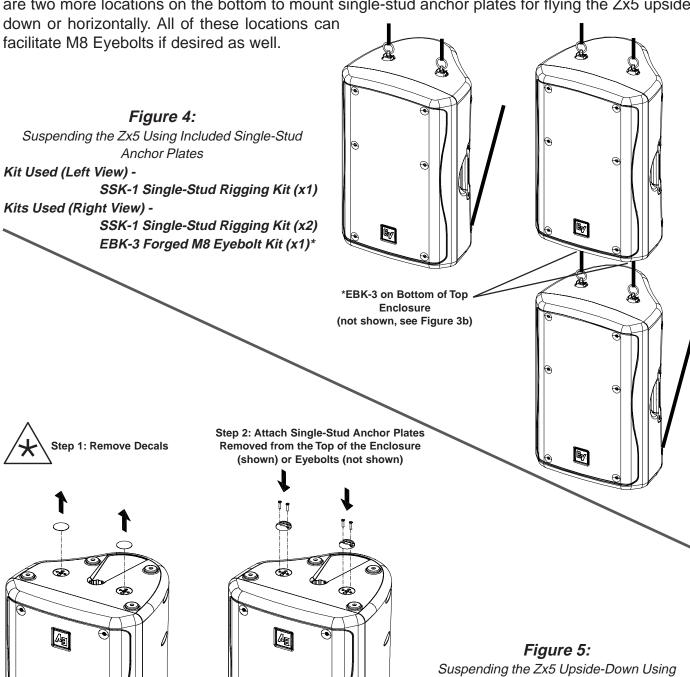
Figure 3a:
Zx5 M8 Suspension Points (Top, Handle, Rear)

Figure 3b:
Zx5 M8 Suspension Points (Bottom)



#### Suspending the Zx5 using optional Electro-Voice Single-Stud Rigging Kits

The Zx5 is shipped with three single-stud anchor plates for rigging with single-stud rigging. There are two more locations on the bottom to mount single-stud anchor plates for flying the Zx5 upside-



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Included Single-Stud Anchor Plates and Single-Stud Rigging Kit



#### **Horizontal Suspension of the Zx5**

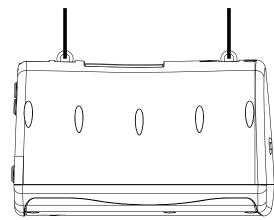
The Zx5 is capable of being suspended horizontally from the side (handle) or downward from the rear with the use of M8 Eyebolts.

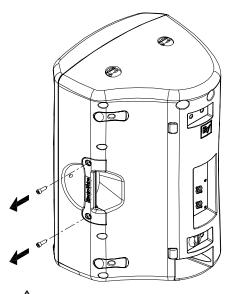
#### Figure 6:

Suspending the Zx5 Downward from Rear Using Optional Forged Eyebolt Kit\*

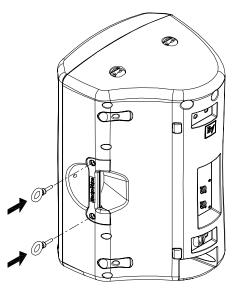
Kit Used - EBK-3 Forged M8 Eyebolt Kit (x1)

\*Note - When suspending from the rear M8 suspension points, it is recommended that the (2) left M8 suspension points are used on the rear of the enclosure for best weight distribution in relation to enclosure's center of gravity.

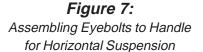




Step 1: Remove Handle Bolts



Step 2: Attach Eyebolts

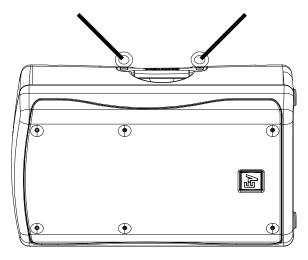






Suspending the Zx5 Horizontally from Handle Using Optional Forged Eyebolt Kit

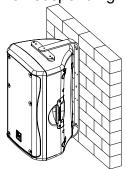
Kit Used - EBK-3 Forged M8 Eyebolt Kit (x1)



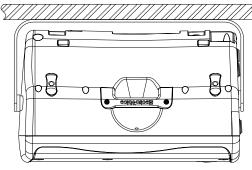


#### Arraying and Suspending the Zx5 using optional Electro-Voice Mounting or Array Brackets

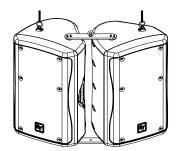
Figure 9 shows several applications using EV mounting and array brackets. Carefully follow the instructions in this manual & the user manual packaged with EV brackets, and always use safe rigging practices when suspending Zx5.



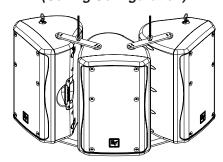
Kit Used - MB5 Wall/Ceiling Mounting Bracket (Wall Configuration)



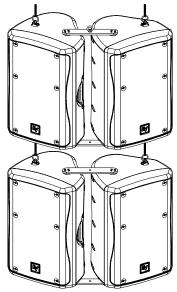
Kit Used - MB5 Wall/Ceiling Mounting Bracket (Ceiling Configuration)



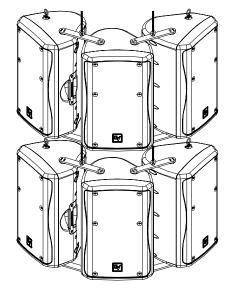
Kits Used - CB5 Array Bracket Kit (x1)\*
SSK-1 Single-Stud Rigging Kit (x1)



Kit Used - CB5 Array Bracket Kit (x2)\*



Kits Used - CB5 Array Bracket Kit (x2)\*
SSK-1 Single-Stud Rigging Kit (x2)
EBK-3 Forged M8 Eyebolt Kit (x1)



Kits Used - CB5 Array Bracket Kit (x4)\*
EBK-3 Forged M8 Eyebolt Kit (x1)

\*Note - CB5 Array Kits can be used for 60° or 90° Splay Angles Figure 9:



### Zx5 Stage Monitor Positions

#### Zx5 as a Monitor

By design the Zx5 is a perfect solution for stage monitors. As different stage sizes require different monitor angles, the Zx5 offers two angles without any additional accessories.

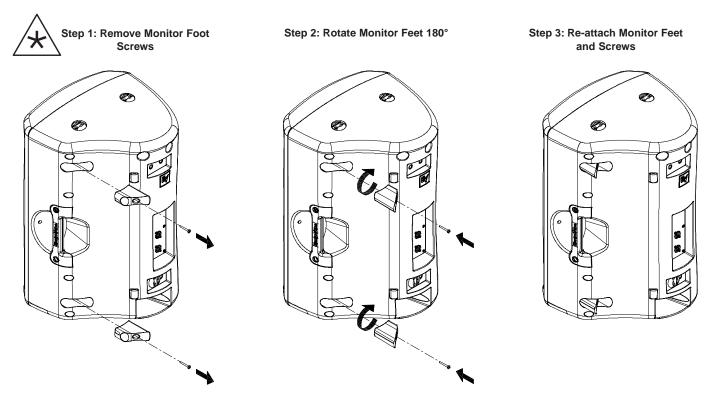


Figure 10: Switching the Monitor Feet from the 45° to 55° Positions

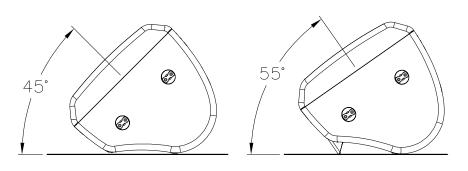


Figure 11a: Zx5 as Monitor in 45° Position

Figure 11b: Zx5 as Monitor in 55° Position



CAUTION: When flipped to 55° the feet protrude from the enclosure. Care should be taken when moving the enclosure, since damage to the feet or enclosure might occur if the system is dropped or slid across a rough surface. It is recommended that the feet be returned to the 45° position for transport.

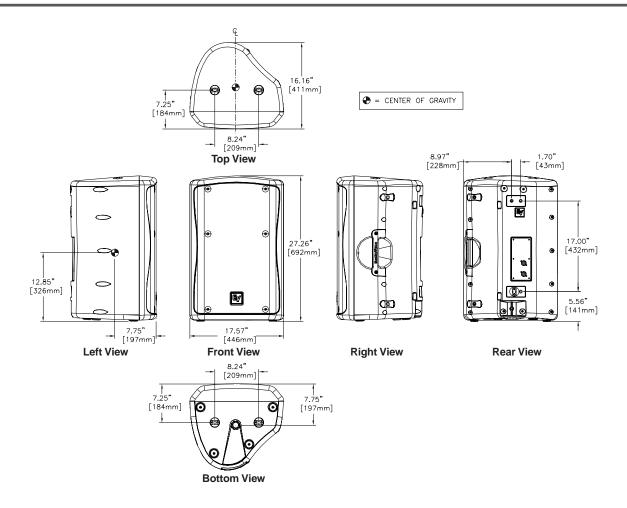


Freq. Response¹ (-3 dB): 58 Hz - 15 kHz  Freq. Range¹ (-10 dB): 41 Hz - 20 kHz  Rec. Hipass Frequency: 36 Hz  Axial Sensitivity: 99 dB (1W/1m)  Max Calculated SPL: 133 dB  Horizontal Coverage: 50° or 60°  Vertical Coverage: 50° or 60°  Rated System Power: 600W Continuous, 2400W Peak  LF Power Handling: 500W Continuous, 2000W Peak  HF Power Handling: 40W Continuous, 160W Peak  LF Transducer: DVX3150, 15in (300mm) Driver  HF Transducer: ND2, 1in. (50.8mm) exit Neodymium Compression Driver  Crossover Frequency: 1.5 kHz  Nominal Impedance: 8 Ohms  Minimum Impedance: 6.5 Ohms  Connectors: Neutrik Speakon NL4 Glandnut SJO Cable (PI Versions Only)  Enclosure Material: Suspension: Enclosure has locations for 5 Single-Stud Attatchment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure  Grille: Polyester Powder Coated, 16GA Galvanized Steel  Environmental Spec: IEC 529 IP24 / IP44 (PI Version)  Dim (H x W x D): 27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)  Shipping Weight: 57.4 lbs (26.0 kg)				
Rec. Hipass Frequency: Axial Sensitivity: 99 dB (1W/1m)  Max Calculated SPL: 133 dB  Horizontal Coverage: 90° or 60°  Vertical Coverage: 50° or 60°  Rated System Power: 600W Continuous, 2400W Peak  LF Power Handling: 40W Continuous, 160W Peak  LF Transducer: DVX3150, 15in (300mm) Driver  HF Transducer: ND2, 1in. (50.8mm) exit Neodymium Compression Driver  Crossover Frequency: 1.5 kHz  Nominal Impedance: 8 Ohms  Minimum Impedance: Connectors: Neutrik Speakon NL4 Glandnut SJO Cable (PI Versions Only)  Enclosure Material: Polypropylene Structural Foam  Suspension: Enclosure has locations for 5 Single-Stud Attatchment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure  Grille: Polyester Powder Coated, 16GA Galvanized Steel  Environmental Spec: IEC 529 IP24 / IP44 (PI Version) Dim (H x W x D): 27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Freq. Response <sup>1</sup> (-3 dB):	58 Hz - 15 kHz		
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Horizontal Coverage: 90° or 60°  Vertical Coverage: 50° or 60°  Rated System Power: 600W Continuous, 2400W Peak  LF Power Handling: 500W Continuous, 2000W Peak  HF Power Handling: 40W Continuous, 160W Peak  LF Transducer: DVX3150, 15in (300mm) Driver  HF Transducer: ND2, 1in. (50.8mm) exit Neodymium Compression Driver  Crossover Frequency: 1.5 kHz  Nominal Impedance: 8 Ohms  Minimum Impedance: Neutrik Speakon NL4  Glandnut SJO Cable (PI Versions Only)  Enclosure Material: Polypropylene Structural Foam  Suspension: Enclosure has locations for 5 Single-Stud Attachment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure  Grille: Polyester Powder Coated, 16GA  Galvanized Steel  Environmental Spec: IEC 529 IP24 / IP44 (PI Version)  Dim (H x W x D): 27.26" x 17.57" x 16.16"  (692mm x 446mm x 411mm)  Net Weight: 49 Ibs (22.2 kg)	Axial Sensitivity:	99 dB (1W/1m)		
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Suspension:  Enclosure has locations for 5 Single-Stud Attatchment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure  Grille:  Polyester Powder Coated, 16GA Galvanized Steel  Environmental Spec:  IEC 529 IP24 / IP44 (PI Version)  Dim (H x W x D):  27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Connectors:			
Stud Attatchment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure  Grille: Polyester Powder Coated, 16GA Galvanized Steel  Environmental Spec: IEC 529 IP24 / IP44 (PI Version)  Dim (H x W x D): 27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Enclosure Material:	Polypropylene Structural Foam		
Galvanized Steel  Environmental Spec: IEC 529 IP24 / IP44 (PI Version)  Dim (H x W x D): 27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Suspension:	Stud Attatchment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom,		
Dim (H x W x D): 27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Grille:			
(692mm x 446mm x 411mm)  Net Weight: 49 lbs (22.2 kg)	Environmental Spec:	IEC 529 IP24 / IP44 (PI Version)		
	Dim (H x W x D):			
Shipping Weight: 57.4 lbs (26.0 kg)	Net Weight:	49 lbs (22.2 kg)		
11 2 2	Shipping Weight:	57.4 lbs (26.0 kg)		

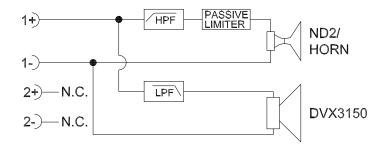
<sup>&</sup>lt;sup>1</sup> Half Space measurement.



### **Dimensions**



# **Block Diagram**

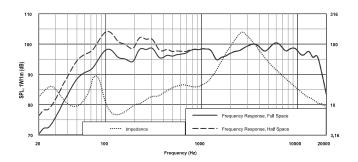




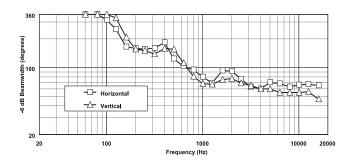
# Frequency Response, Beamwidth, and Directivity

### Zx5-60, 60° x 60° Coverage

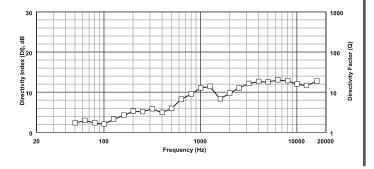
#### Frequency Response & Impedance:



#### Beamwidth:

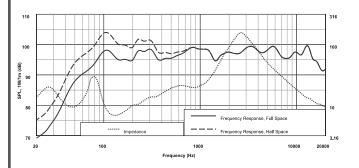


#### **Directivity:**

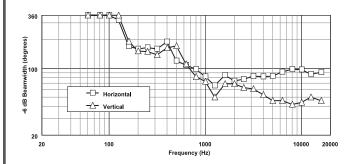


### Zx5-90, 90° x 50° Coverage

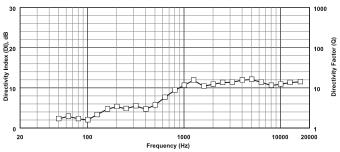
### Frequency Response & Impedance:



#### Beamwidth:



#### **Directivity:**





# Zx5 Rigging Accessory Reference Table

Model	Description	Part No.
CB5-B	Array Bracket Kit, Black Finish	301625-001
CB5-W	Array Bracket Kit, White Finish	301625-002
MB5-B	Wall/Ceiling Mounting Bracket Kit, Black Finish	301626-001
MB5-W	Wall/Ceiling Mounting Bracket Kit, White Finish	301626-002
SSK-1	Single-Stud Rigging Kit (Set of 3)	301633-000
EBK-3	Forged M8 Eyebolt Kit (Set of 3)	301634-000

#### U.S.A. and Canada:

For customer orders, contact the Customer Service department at:

800/392-3497 Fax: 800/955-6831

For warranty repair or service information, contact the Service Repair Department at:

800/685-2606

For technical assistance, contact Technical Support at:

866/78 AUDIO

Specifications subject to change without notice.

#### All Locations:

952-884-4051 Fax: 952-884-0043

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