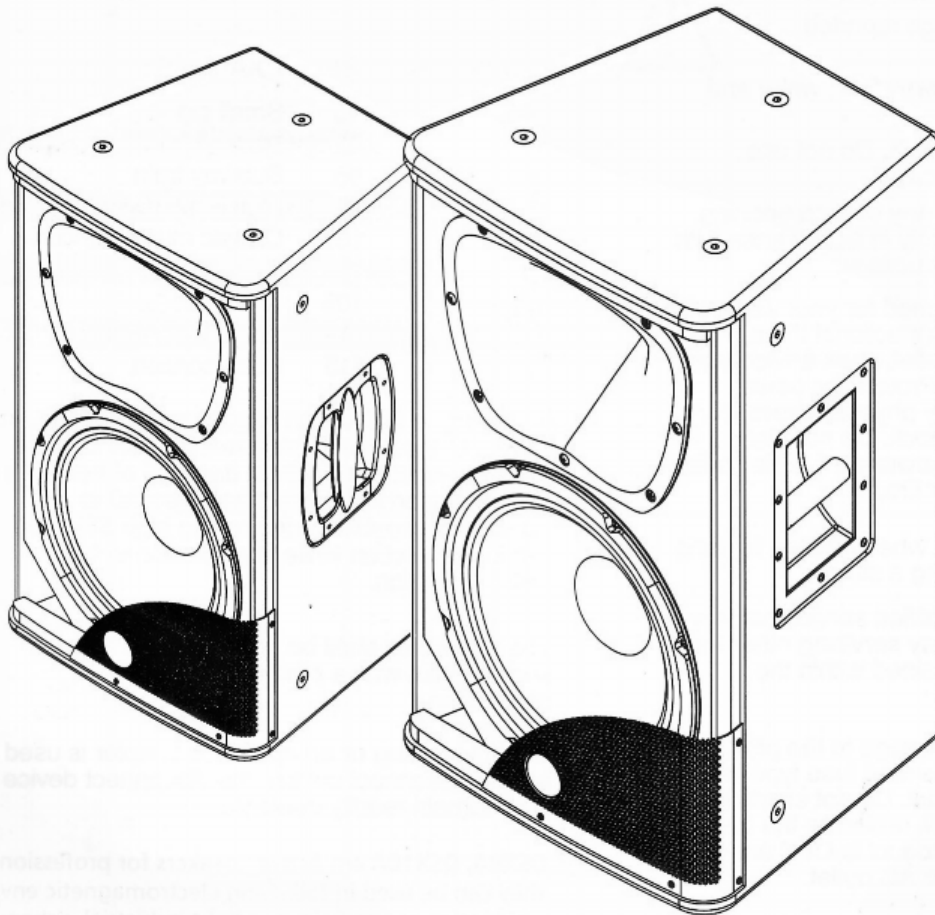


INVO TONE

USER'S MANUAL

ACTIVE SPEAKER CABINET DSX8A/10A



IMPORTANT SAFETY INSTRUCTION



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

- ⊕ Protective Ground Terminal
- ~ AC mains (Alternating Current)
- ⚡ Hazardous Live Terminal

ON: Denotes the product is turned on.
OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart / equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

HOURS X DAY	SPL	EXAMPLE
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1,5	102	
1	105	
0,5	105	
0,25 or less	110	
	115	Rock concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

- * DSX8A, DSX10A are Active Speakers for professional use, they can be used in following electromagnetic environments: residential, commercial and light industrial, urban outdoors. They are the apparatus Not intended for rack mounting.
- * For DSX8A, DSX10A, the audio input line length is less than 10m.
- * For DSX8A, DSX10A, the peak inrush current is 3.8A

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Introduction

Thank you for choosing INVOTONE. The new INVOTONE MUSIC GEAR DSX series cabinets have been designed to provide a cost effective high grade solution while maintaining high quality construction and optimum components. The DSX8A/10A are designed lightweight powered loudspeaker systems, adopting an all new, 800Watt continuous Class D power module. DSX8A/10A also break from the traditional loudspeaker paradigm, every model is fit with the identical 1.75" voice coil compression driver and woofer of high quality for unparalleled performance, regardless of speaker size. Extensive DSP processing is employed throughout, providing levels of sonic clarity and total output that defy the system's size and weight.

Premium-grade materials, advanced construction processes and multiple mounting and suspension options allow for a wide range of live and installed applications. Great pride & care is placed in delivering products with excellent performance, specifications, and dependable reliability. Every INVOTONE audio product is strictly tested and complied to very strict standards.

Please carefully read this manual before starting operation!

Thank you again for choosing INVOTONE MUSIC GEAR DSX SERIES.

ATTENTION!

Be carefully in setting speakers Input level.

DSX8A/10A can be adjusted from low line up to high microphone levels.

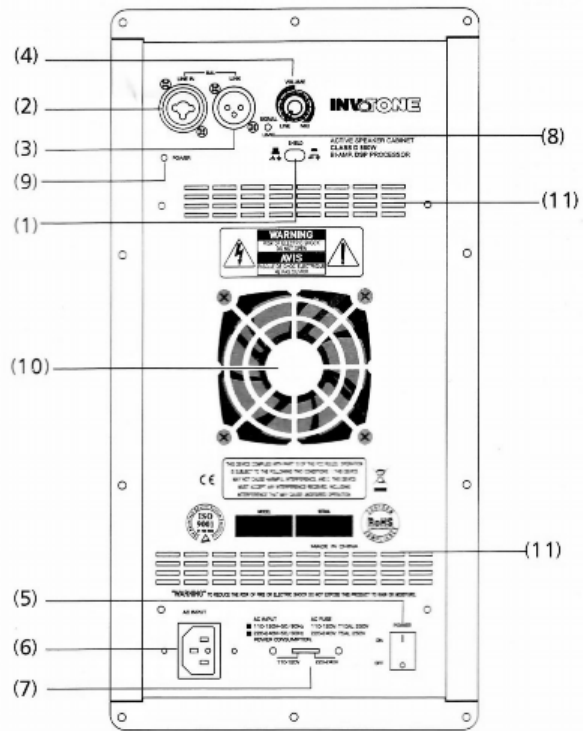
Features

- *Attractive and professional appearance
- *2-way active vented speaker with DSP
- *1"exit, 1.75" voice coil compression driver
- *Linkwitz-riley crossover with 24dB filter slope
- *800W Class D Bi-AMP
- *Volume control/power on with green led/clip limiter with red led/ground lift
- *Thermal/convection fan/overload/ digital lim/compressor
- *110-120V~50/60Hz or 220-240V~50/60Hz switchable
- *Plywood cabinet, resistant black paint, metal grille, rubber feet, metal handle
- *One metal standard pole-mount, DSX8A 10xM10 flying points, DSX10A 12xM10 flying points

Back Panel Description

ACTIVE FULL-RANGE Speaker DSX8A/10A

- (1) Gnd switch
- (2) Mic/line in with combo
- (3) Link on XLR
- (4) Volume control
- (5) Main power switch
- (6) Input AC power socket with AC fuse
- (7) AC input voltage selector
- (8) Clip LED indicator
- (9) Power LED
- (10) Convection fan
- (11) Vents for heat dissipation and ventilation

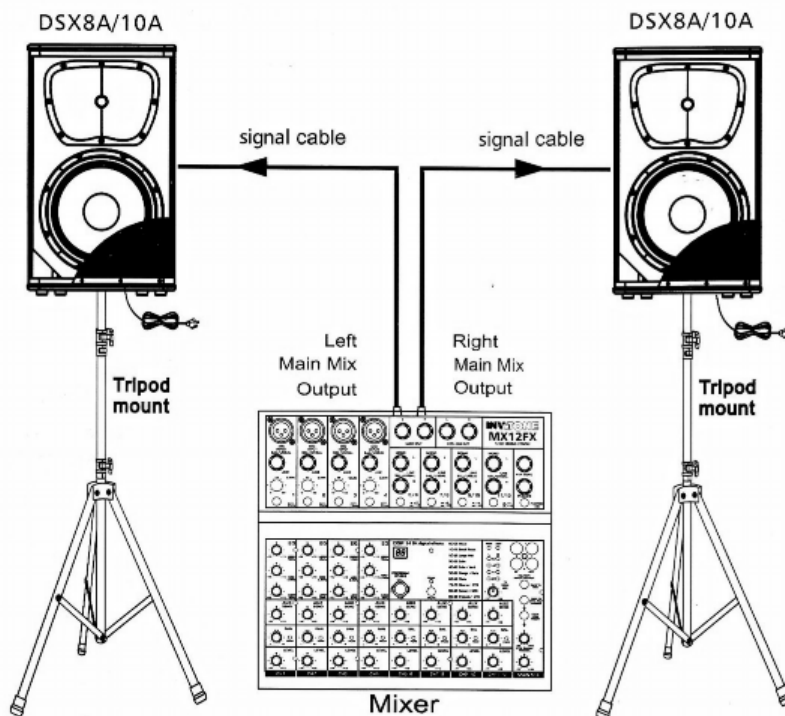


Connection Plate

Make your initial connections with all the equipment powered off and ensure that all the main volume controls are turned completely down.

For Active Full-range Speaker Cabinet

- 1) Connect one side of the signal cable at your mixer into OUTPUT LEFT/RIGHT(with stereo-jack or XLR) and the other side of cable into the LINE INPUT(COMBO) of your active speaker cabinet(with stereo-jack or XLR).
- 2) Connect the power cords to main.
- 3) Turn on your mixer first, then the active speaker cabinets.
- 4) Turn up the volume controls of the active speaker cabinets.
- 5) Use PFL function to get the proper input level for the mixer, and adjust the main mix level control to manipulate the output level.
- 6) After using ,turn off your active speaker cabinets first, then the mixer.



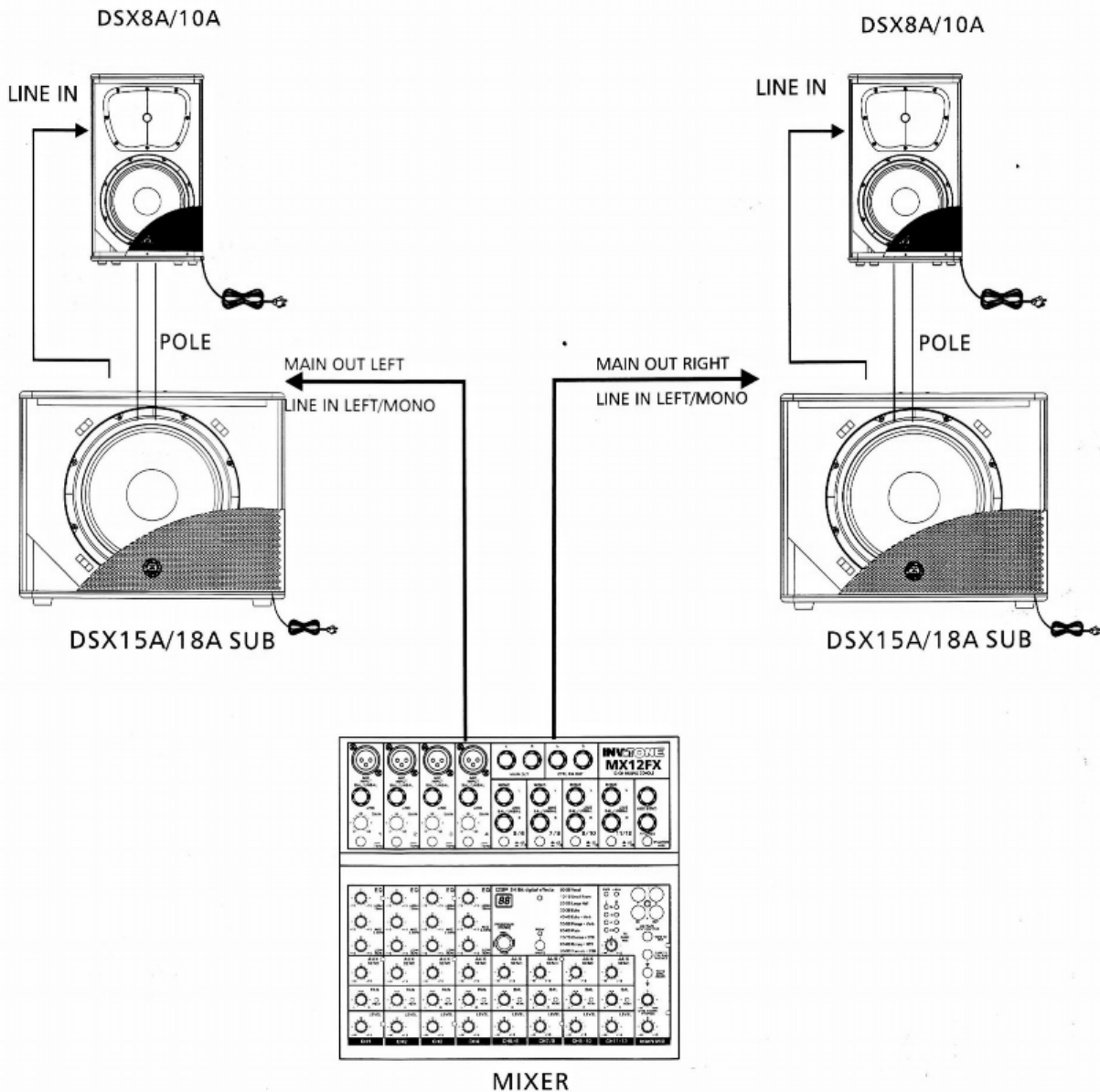
Connection Plate

Two Active Subwoofers & Two Active Satellite Speakers

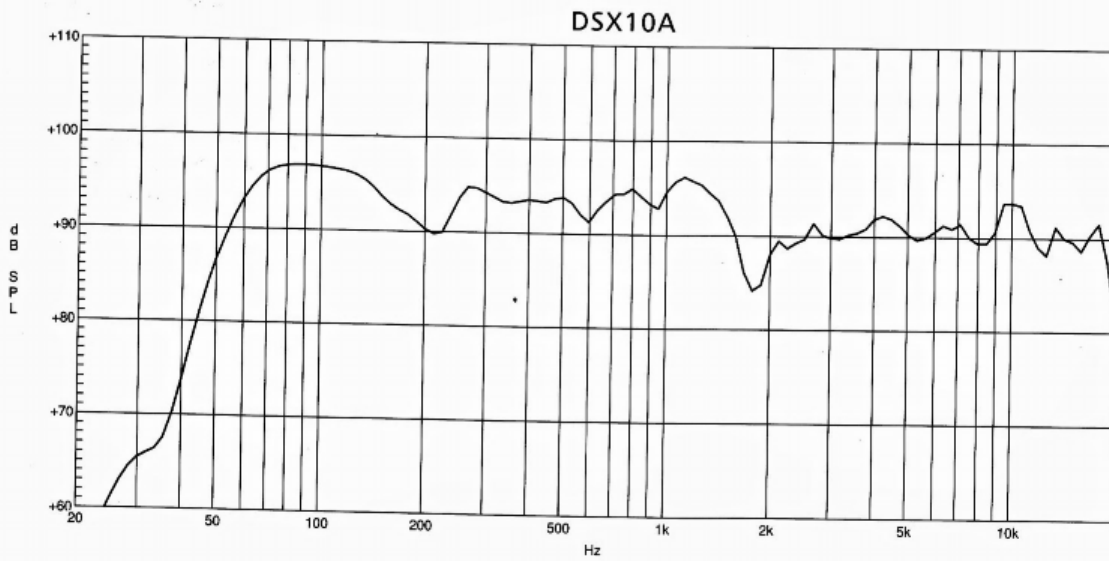
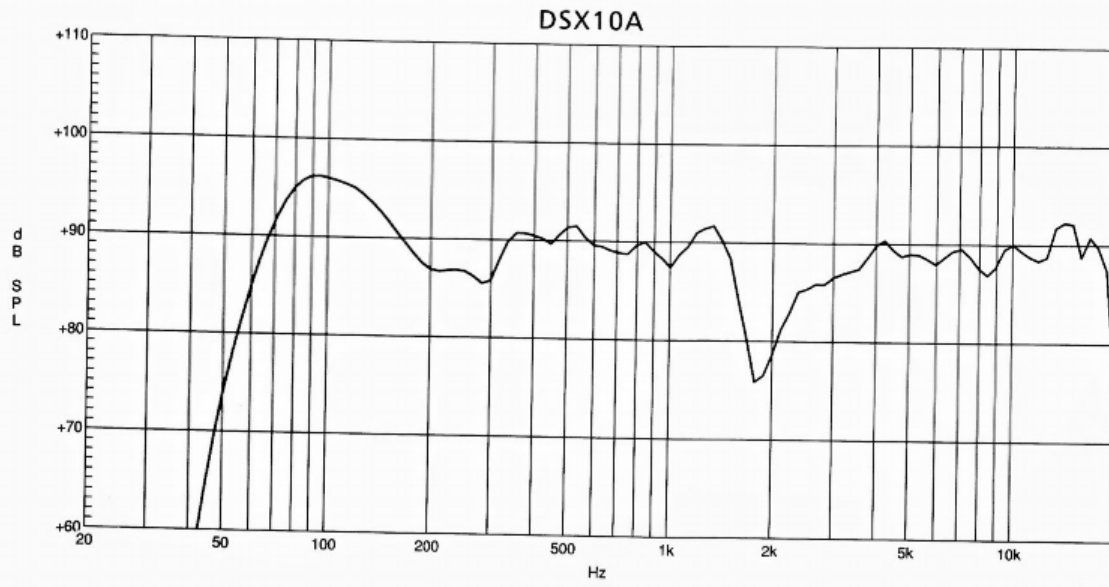
- 1) Make your initial connections with all the equipment powered off and ensure that all the main volume controls are turned completely down.
- 2) Connect one side of the signal cable at your audio mixer into OUTPUT LEFT/RIGHT, and the other side of the cable into the LINE INPUT of your active subwoofers.
- 3) Connect one side of another signal cable at your active subwoofers into LINK LEFT/RIGHT or OUT LEFT/RIGHT, and the other side of the cable into the LINE INPUT LEFT/RIGHT of your active satellite speakers.

*If you connect into the OUT LEFT/RIGHT, and press the BYPASS switch, the HPF will be activated.

- 4) Connect the power cords to main.
- 5) Turn on your mixer first, then the active speaker cabinets.
- 6) Turn up the volume controls of the active speaker cabinets.
- 7) Use PFL function to get the proper input level for the mixer, and adjust the main mix level.
- 8) After using, turn off your active speaker cabinets first, then the mixer.



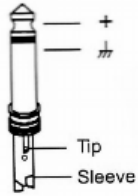
Frequency Response Diagram



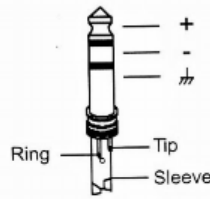
Wire Connections

Either the 1/4" TRS phone jack or XLR connector can be wired in balanced and unbalanced modes, which will be determined by the actual application status, please wire your system as the following wiring examples:

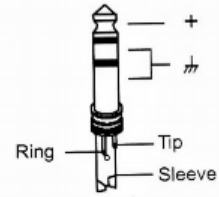
For 1/4" Phone jack



TS Type Unbalanced

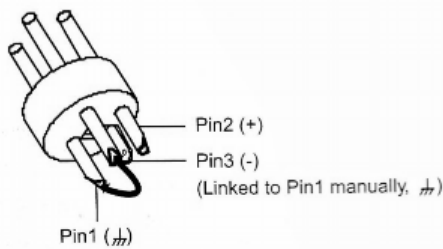


TRS Type Balanced

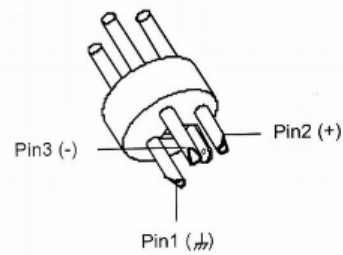


TRS Type Unbalanced

For XLR connector



XLR Type Unbalanced

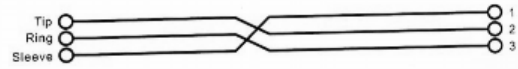
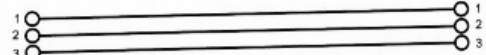


XLR Type Balanced

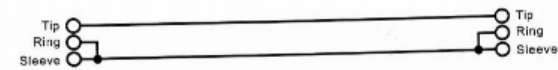
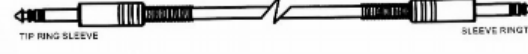
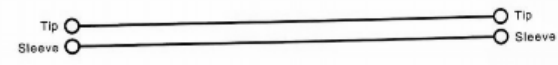
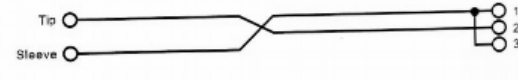
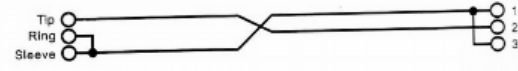
In-line Connection

For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.

Balanced

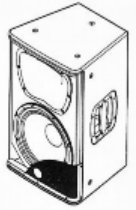


Unbalanced



TECHNICAL SPECIFICATIONS

Model Active	DSX8A
System Type	2-Way Active Vented Speaker with DSP
Transducer Low	8" Woofer, 2" Voice Coil
Transducer Driver	1" Compression Driver, 1.75" Voice Coil
Frequency Response (-6dB)	60Hz-20kHz
Crossover Frequency	at 2kHz with 24dB Filter Slope, Linkwitz-Riley Type
Max SPL	124dB Max.
AMP Power Output	Class D 800W,Bi-AMP
Input Connector	Line/Mic -Combo/Link-XLR
Line Input	Combo Connector -6dBu
External Controls	Volume Control/Power on with Green LED/Clip Limiter with Red LED/Ground Lift.
Electronic Protections	Thermal/Convection-Fan/Overload/Digital Lim./Compressor
Power Supply	110-120V~50/60Hz or 220-240V~50/60Hz Switchable
Enclosure Construction	Plywood Cabinet, Resistant Black Paint, Metal Grille, Rubber Feet, Metal Handle
Mounting	One Metal Standard Pole-Mount, 10xM10 Flying Points
Dimensions (HxWxD)	18.11"(460mm)* 10.89"(276.4mm)* 11.81"(300mm)
Net Weight	15.93(kg)/35.05(lbs)
Volume	2.554CFT



Model Active	DSX10A
System Type	2-Way Active Vented Speaker with DSP
Transducer Low	10" Woofer, 2.5" Voice Coil
Transducer Driver	1" Compression Driver, 1.75" Voice Coil
Frequency Response (-6dB)	55Hz-20kHz
Crossover Frequency	at 2kHz with 24dB Filter Slope, Linkwitz-Riley Type
Max SPL	126dB Max.
AMP Power Output	Class D 800W,Bi-AMP
Input Connector	Line/Mic -Combo/Link-XLR
Line Input	Combo Connector -6dBu
External Controls	Volume Control/Power on with Green LED/Clip Limiter with Red LED/ Ground Lift.
Electronic Protections	Thermal/Convection-Fan/Overload/Digital Lim./Compressor
Power Supply	110-120V~50/60Hz or 220-240V~50/60Hz Switchable
Enclosure Construction	Plywood Cabinet, Resistant Black Paint, Metal Grille, Rubber Feet, Metal Handle
Mounting	One Metal Standard Pole-Mount, 12xM10 Flying Points
Dimensions (HxWxD)	22.95"(583mm)* 13.12"(333.2mm)* 12.8"(325mm)
Net Weight	19.72(kg)/43.49(lbs)
Volume	2.554CFT

