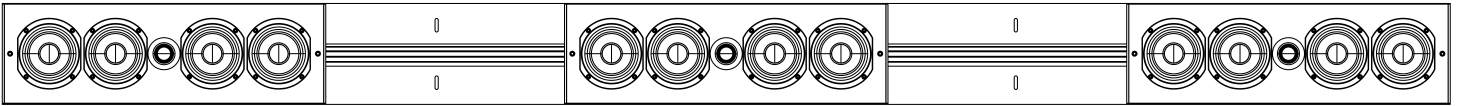




by MSE AUDIO

VARIABLE LENGTH SOUNDBAR

OWNER'S MANUAL: VLS70-LCR and VLS100-LCR



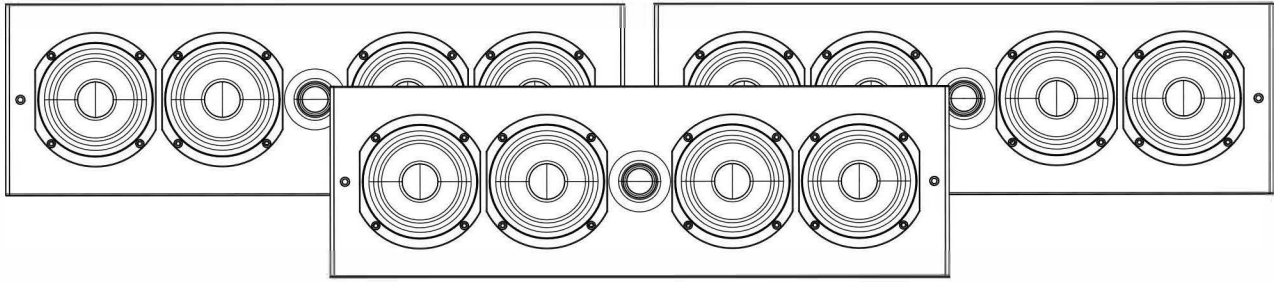
[VLS FEATURES]

- 2-Way Speaker for Variable Length Soundbar
- Extruded aluminum cabinets
- 2 x 3" woofer, 2 x 3" bass radiator, .75" soft-dome tweeter
- 3-Channel Variable Length Soundbar fits TVs from 65" to 100"

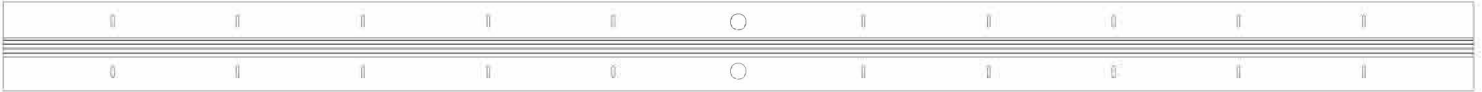
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[INCLUDED IN THE BOX:]

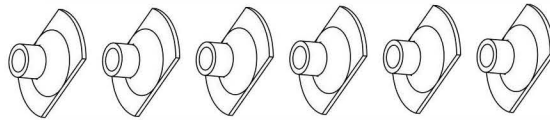
1. Speaker Cabinet (x3)



2. Mounting Bar



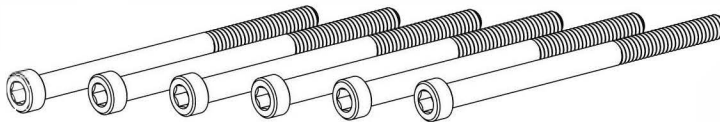
3. Cabinet Wings (x6)



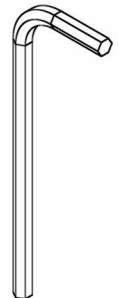
4. Euroblock Connectors (x3)



5. Cabinet Screws (6)



6. Allen Key



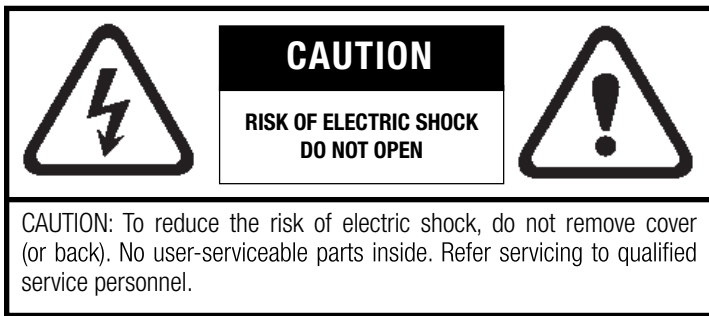
Thank you for purchasing the Phase Technology VLS70-LCR or VLS100-LCR Variable Length Soundbar. This high-definition soundbar speaker is the perfect complement to today's thin profile flat panel TVs. This soundbar incorporates unique technologies to provide you with outstanding dialogue clarity along with wide open sound stage imaging for a great home theater experience.

The VLS70-LCR and VLS100-LCR Variable Length Soundbar speaker designs are made to fit seamlessly underneath a flat panel TV. The soundbar comes sized to fit the exact width of the TV it is paired with.

We recommend that you take the time to read this manual thoroughly before connecting speakers to your amplifier or receiver. In the highly unlikely event that you should experience a problem with set-up or operation, please contact one of our authorized dealers for assistance, or contact us directly.

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[SAFETY INSTRUCTIONS]



Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of un-insulated "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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and other instructions should be followed.

5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

PORTABLE CART WARNING



7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. Heat - The appliance should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.

10. Power Source - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed up or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

12. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.

13. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

14. Object and Liquid Entry - Care should be taken so that neither objects fall nor liquids spill into the inside of the appliance.

15. Damage Requiring Service - The application should be serviced by qualified service personnel when:

- a. the power supply cord or the plug has been damaged,
- b. objects have fallen onto or liquid has been spilled into the appliance,
- c. the appliance has been exposed to rain,
- d. the appliance does not appear to operate normally or exhibits a marked change in performance, or
- e. the appliance has been dropped or the cabinet damaged.

16. Servicing - The user should not attempt to service the appliance beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.

17. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

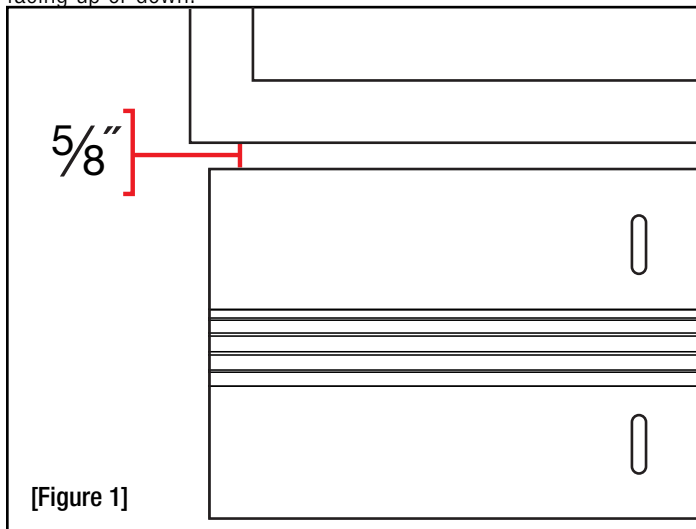
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRESE ET POUSSER JUSQU'AU FOND.

[WALL MOUNTING INSTRUCTIONS]

It is prudent to take a few extra minutes to carefully inspect and measure the wall where you intend to mount your VLS70-LCR or VLS100-LCR speaker and flat panel display. An inspection of the room, or rooms, that back up to the wall you have selected for mounting the speakers can often alert you to potential obstacles. An electronic stud-finder is a useful tool to assist you in selecting the speaker placement, but be cautious as they often give false readings. For example, if the wall you want to mount to happens to be the common wall for a bathroom or kitchen, there is a good chance you will encounter water or sewer pipes in the wall that will not be detected by a stud-finder. It is recommended, that wherever possible, you try to fasten these mounting brackets to a vertical stud with the appropriate wood screws. If it is not possible to mount the brackets over the studs then it is recommended that the appropriate hollow wall anchors or toggle bolts be used to mount the speakers.

STEP 1- ATTACH MOUNTING BAR

Determine that the desired mounting location is safe and clear of any physical obstructions that might hinder the proper installation of the speakers. If possible, mount the bar directly to wall studs. Or use drywall anchors, toggle bolts, or another hollow-wall anchor that is rated to hold at least 75 pounds. Use screws that will fit in the 0.175" diameter mounting slots (we recommend #8 x 1.5" or longer pan head screws with flat washers between the screw and the bracket, along with 3/16" drywall anchors). Use the mounting screws to attach the mounting bar to the wall, centered underneath the screen. Leave a gap of 5/8" between the top of the mounting bar and the bottom of the screen (Figure 1). This will ensure that the press-on grille has enough clearance to fit and be flush with the bottom of the screen. The bar can be mounted with either side facing up or down.

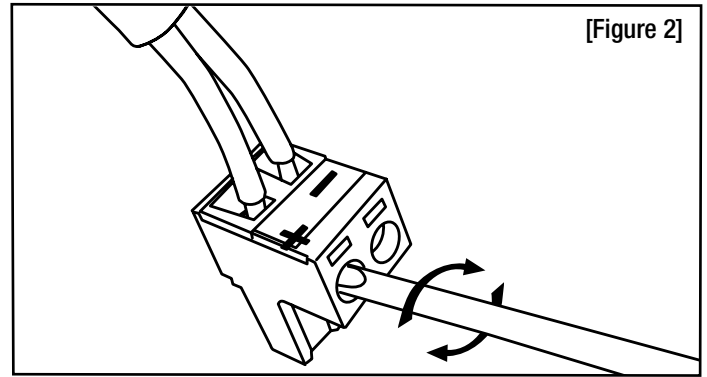


STEP 2 - RUN WIRES

We suggest that you use a minimum of AWG 16 stranded wire. Pre-run your speaker wire to the locations of each cabinet, and be certain to leave about two feet of extra wire for the final speaker installation. One cabinet will be mounted flush on the left side, one on the right side, and one centered along the bar. The center of the mounting bar includes a hole for all wires to be run through into the wall.

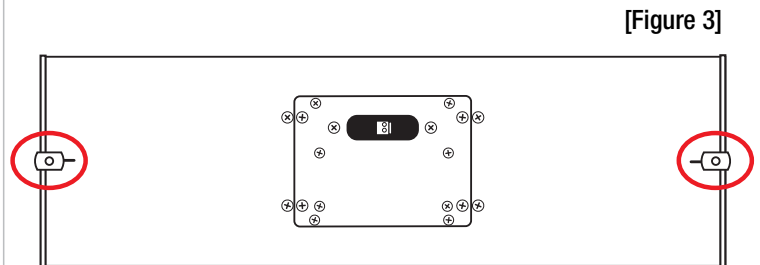
STEP 3 – SPEAKER WIRING

There are Euroblock connector terminals on the rear of the speaker cabinets. The terminals should be connected to the respective speaker channel outputs on your receiver (Figure 7). Be careful to observe proper polarity; + (red) on your receiver to + on the speaker Euroblock connector. Strip about .25" of insulation from the wires. Connect the signal wires to the 2-pin Euro-block connectors: (+) indicates positive and (-) indicates negative. Please reference your receiver owner's manual for proper speaker connection. Make sure the connections are tight. Tuck the speaker wires behind the speaker cabinets, using tie wraps if necessary. (Figure 2).

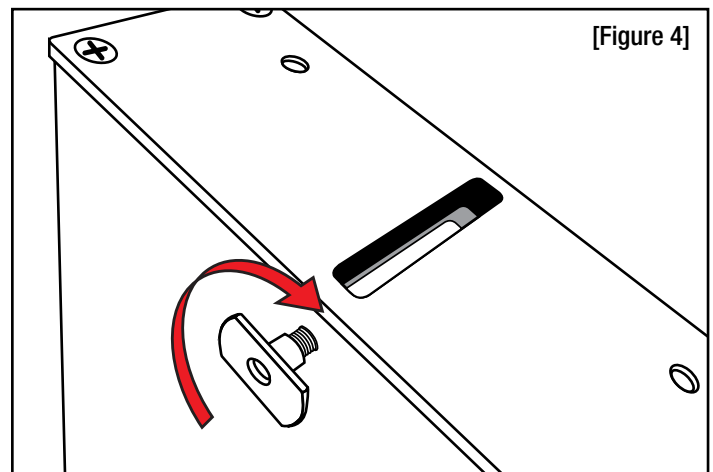


STEP 4 - INSTALL SPEAKER CABINETS

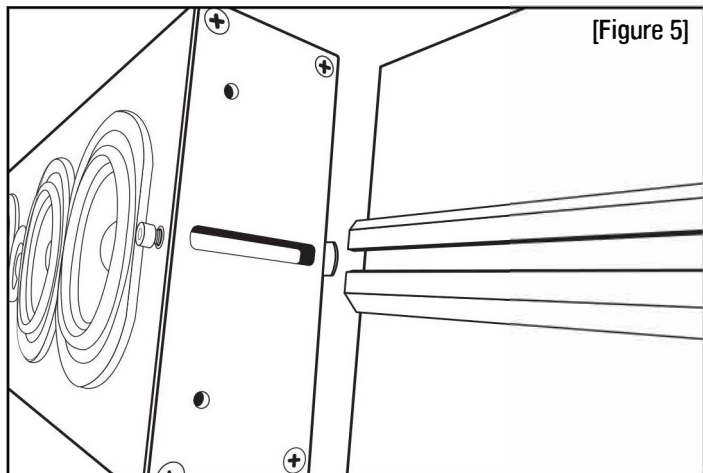
Attach speaker mounting hardware to each speaker cabinet. Insert the cabinet screws through the front speaker cabinet. There will be two screws per cabinet, one on each side (Figure 3).



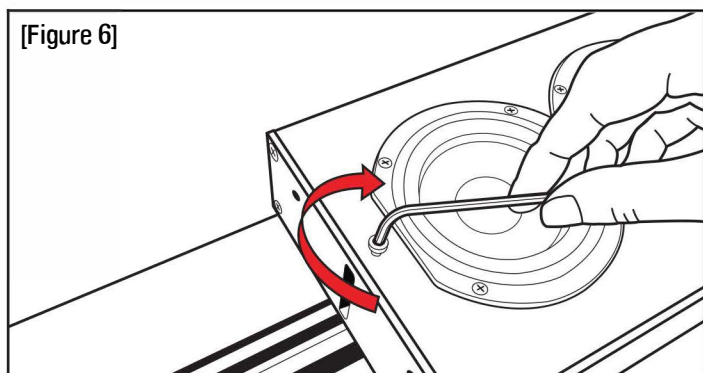
Screw on the mounting wings to the back of the screws (Figure 4). Make sure to leave the wings loose to allow them to slide into the mounting bar in the next step.



Attach the speaker cabinets to the mounting bar by centering the mounting wings in the channel in the mounting bar, and then sliding them into place (Figure 5). Run the wires along the upper edge of the channel in the mounting bar.



If the mounting wings are too tight to fit into the channel, loosen the cabinet screws. The left and right channel cabinets should be mounted so they are flush with the edge of the mounting bar. The center channel cabinet should be centered on the mounting bar. Once the cabinets are slid into the correct positions, tighten them using the screws on the left and right side of each cabinet (Figure 6).



STEP 5 - ATTACH GRILLE

Attach the grille to the soundbar by pressing it over the cabinets. The grille is designed to snap into place using the gap between the cabinets and the mounting bar.

STEP 6 - HOOK UP THE SPEAKERS

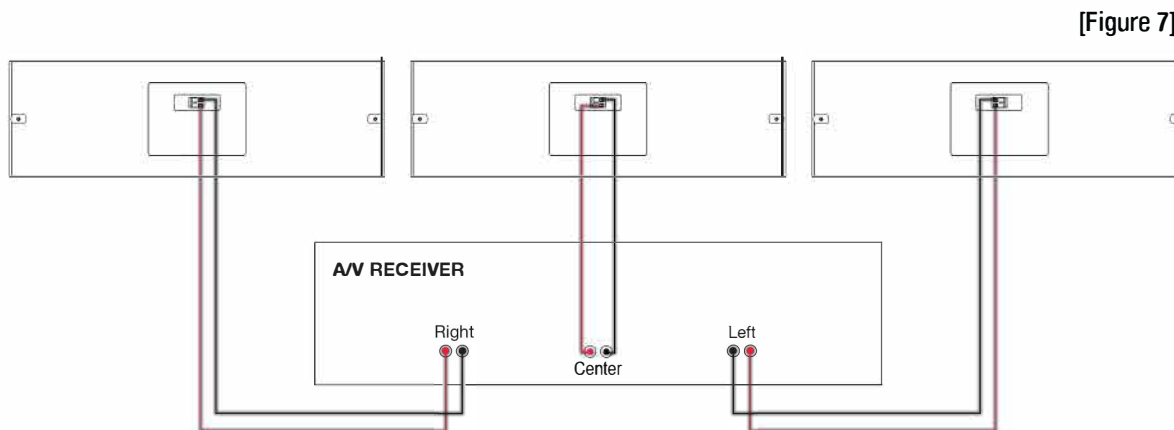
Since the VLS70-LCR and VLS100-LCR speakers perform as the front three speakers in a home theater system (Figure 7), they are to be used and set up as you would any normal 5.1 to 7.2 surround sound system for balance and level adjustments. For the best performance, the amplifier should be set to the small speaker mode for the left/center/right front speakers. The subwoofer setting should be set between 80 -100 Hz.

[CARING FOR YOUR PHASE TECHNOLOGY SPEAKER]

All Phase Technology speakers are finished with a high degree of craftsmanship. We recommend using a lint-free rag with a small amount of glass cleaner to maintain the long-lasting beauty of the finish. Avoid products containing silicones, oils, oil derivatives, or solvents. Enclosures finished in vinyl laminates may be cleaned with a damp cloth as necessary.

[MAINTENANCE AND SERVICE]

Because of Phase Technology's uncompromising quality control programs, it's unlikely that your speakers will ever need service if connected and used as outlined in this Owners' Manual. In the unlikely event that a problem does occur, please contact your Phase Technology dealer. Your dealer has the necessary factory-authorized parts and trained technicians to quickly restore your speaker to its original performance specifications.



[TROUBLESHOOTING]

NO SOUND

1. Verify that all components are plugged in and turned on.
2. Check all speaker wires and cables for loose connections.
3. Check to see if you have selected the proper source on your amplifier.

VOICES DO NOT APPEAR TO COME FROM BETWEEN THE SPEAKERS / BASS RESPONSE IS WEAK

1. Verify that all speaker connections from the amplifier to the speakers are running PLUS+ to PLUS+ and MINUS- to MINUS-.
2. Check to see if there are any furnishings or plants that may be blocking the output of a speaker. Make sure nothing is directly in front of that speaker.

SOUND, BUT NO BASS (MOST LIKELY IN SYSTEMS WITH A SUBWOOFER)

1. Verify that the subwoofer is plugged into an AC outlet and power is turned on.
2. Check that the speaker wire / cable going from the amplifier/receiver to the subwoofer is securely fastened.
3. Check the volume control of the subwoofer.
4. Refer to your amplifier/receiver manual to make sure you have adjusted its bass output properly.

MUDDY OR BOOMY BASS

1. Check the volume control for the subwoofer. Excess volume can cause speakers to sound distorted and unnatural.
2. Try adjusting the crossover control on the subwoofer or the subwoofer setup on your receiver to a slightly lower frequency (example: reduce from 120 Hz to 80 or 60 Hz).
3. If the subwoofer or full size speaker is close to a corner, side or back wall, try moving it away from the wall. This may reduce the "boomy" bass considerably.
4. Bookshelf speakers placed in a semi-enclosed space or cabinet can artificially emphasize bass output. Reduce the bass control on your amplifier or move the speakers to the front of the cabinet. Alternatively, reposition the speakers to a more open location.

DISTORTED SOUND FROM THE SPEAKERS

1. This problem is usually caused by setting the volume control too high. Reduce the amplifier/receiver volume to a lower level.
2. If noise and distortion are audible at higher volume levels, your amplifier may not be powerful enough. Consider upgrading to a unit with higher power.

NOTE: Remember, even though your Phase Technology speakers can handle considerable power levels, ANY speaker if used improperly can be damaged. Consult your Phase Technology dealer for assistance in choosing a new amplifier or receiver.

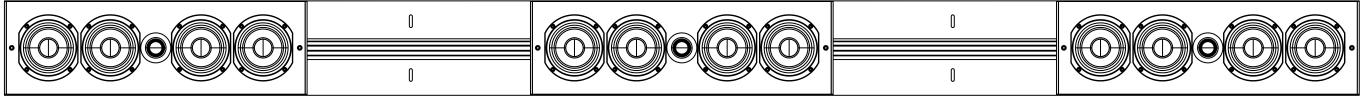
[WARRANTY]

LIMITED WARRANTY: Phase Technology warrants its loudspeakers to be free from defects in material and workmanship for a period of ten (10) years for speaker product, and three (3) years for the electronic components to the original purchaser. Purchase must be made from an authorized Phase Technology dealer.

This warranty does not cover service or parts to repair damage caused by misuse, abuse, damage while in transit, alterations, unauthorized repairs, failure to follow instructions, fire, flood or any other cause beyond the reasonable control of Phase Technology. Defects in speaker cabinets or grilles must be brought to the attention of your dealer immediately after purchase. This warranty will be void if the products' serial number has been altered or removed.

Should your Phase Technology product require service, please call the MSE Audio customer service department for a return authorization. All merchandise returned to Phase Technology without prior authorization will be refused. For your return authorization number, please call 855.663.5600 or email sales@mseaudio.com.

[SPECIFICATIONS]



VLS70-LCR

VLS100-LCR

Description:	2-Way Left, Center, and Right	2-Way Left, Center, and Right
Nominal Impedance:	8Ω	8Ω
Sensitivity:	90 dB	90 dB
Frequency Response:	65 Hz - 20 kHz	65 Hz - 20 kHz
Recommended Power:	15 - 100 Watts	15 - 100 Watts
Crossover Frequency:	3.5 kHz	3.5 kHz
Tweeter(s):	.75" Soft Dome	(2) .75" Soft Dome
Midrange:	N/A	N/A
Woofers(s):	(2) 3" Polypropylene w/ NBR Surround	(3) 3" Polypropylene w/ NBR Surround
Bass Radiator(s):	(2) 3" Polypropylene w/ NBR Surround	(2) 3" Polypropylene w/ NBR Surround
Inputs:	Euroblock Connectors	Euroblock Connectors
Grille:	Black Cloth	Black Cloth
Color Option:	Black Brushed Aluminum	Black Brushed Aluminum
Dimensions:	6.75" H x 66" W x 2.875" D	6.75" H x 94" W x 2.875" D
Weight:	22lbs.	24lbs.

Rockustics
rockustics.com

SOUNDTUBE
ENTERTAINMENT
soundtube.com

PHASE
TECH
phasetech.com

by **MSE AUDIO**

www.mseaudio.com | 13720 W 109th St. | Lenexa, KS 66215 | p: 913.663.5600