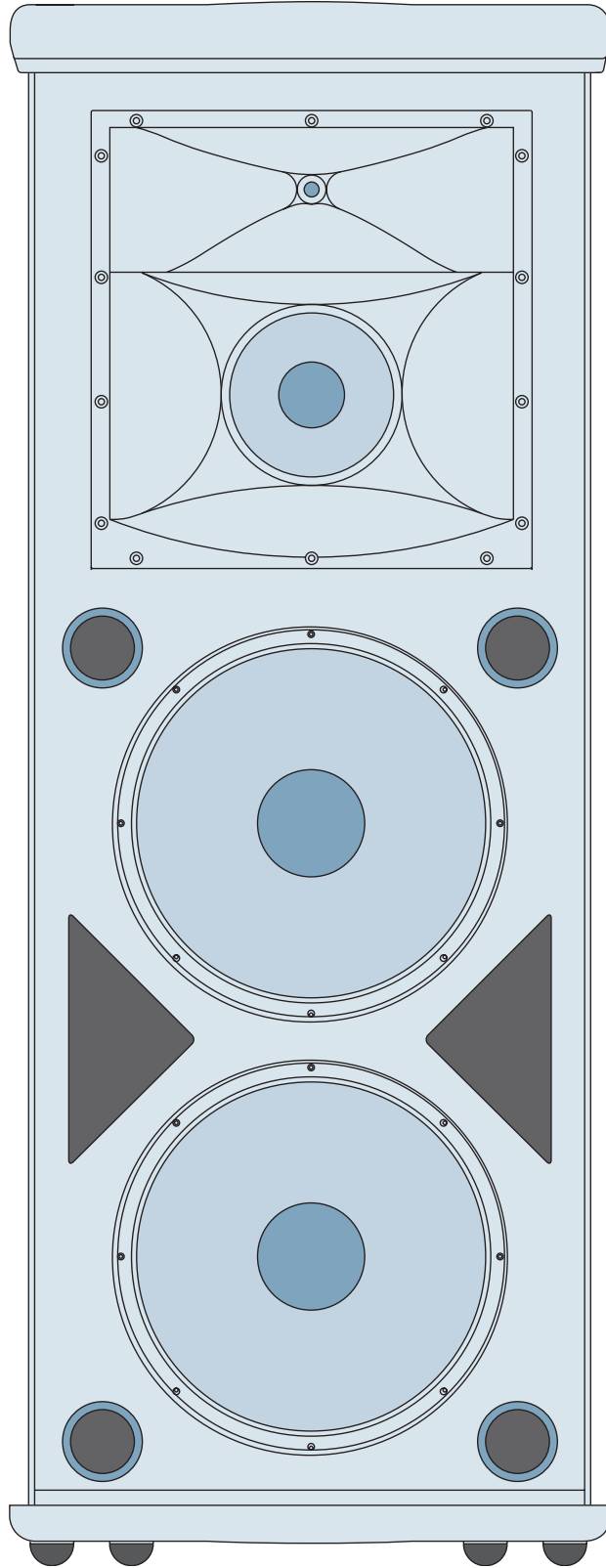


<sup>®</sup>**MACRÉ**

**SA1532z  
3-WAY ACTIVE  
LOUDSPEAKER SYSTEM  
USER'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 dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases, shall be placed on the apparatus.
16. This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
17. This apparatus has been equipped with an all-pole, rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.



**18. NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications to this device not expressly approved by LOUD Technologies Inc. could void the user's authority to operate the equipment under FCC rules.

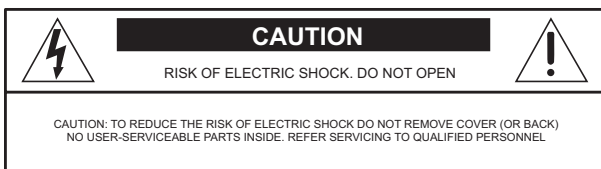
**19.** This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

**ATTENTION** — *Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*

**20.** Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart.

According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here.


Duration, per day in hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	Fooyoung screaming at desTROyER about deadlines
0.5	110	
0.25 or less	115	Loudest parts at a rock concert



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 of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING** — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

 **Correct Disposal of this product:** This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

# INTRODUCTION

Thank you for choosing Mackie's active sound reinforcement loudspeaker systems.

The SA1532z is a high-efficiency, extreme output, horn-loaded, 3-way, wide-dispersion, active sound reinforcement system. It features a one-piece 90° x 40° horn, which includes both the mid- and high-frequency sections in a proprietary optimized Wavefront™ design. Unlike typical mid/high horn designs, the high-frequency section is positioned to fire down into the 6-inch mid-range's dispersion pattern. This creates a focused, single wave front with excellent phase and power response characteristics. The resulting 90° x 40° dispersion pattern provides a very open, natural sound at extreme output levels.

The 6-inch neodymium mid-range transducer operates between 700 Hz and 3000 Hz, eliminating the placement of a crossover point in the middle of critical voice frequencies. Frequencies above 3000 Hz are reproduced by a 1.75-inch neodymium compression driver. The low frequencies are produced by two high-output 15-inch woofers.

Connecting and setting up the SA1532z is a breeze. It accepts a line-level signal via a female XLR input jack.

A male XLR Thru jack is provided for daisy-chaining the signal to additional SA1532z cabinets.

Three built-in power amplifiers provide 100 watts rms each for the mid-frequency and high-frequency drivers, and 1100 watts rms for the low-frequency driver. The amplifier modules sit on a mammoth aluminum heatsink that eliminates the need for fans. A tremendous benefit of having the amplifiers located within the loudspeaker cabinet is that the SA1532z functions as a system, optimizing acoustic, electronic, and mechanical designs to achieve the highest level of performance and value.

The rear mounted amplifier assembly features separate signal and AC power panels separated by the heatsink. The signal input panel contains:

- an input XLR and loop-through XLR
- a volume level control
- Power ON indicator
- Signal Present indicator
- Limit indicator
- Thermal Protection indicator

The cabinet is constructed using both 18 mm multi-layered plywood and pressure injected structural resin. A carrying handle is integrated into each side for easy loading and transport.

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Don't forget to visit our website at [www.mackie.com](http://www.mackie.com)  
for more information about this and other Mackie products.

# REAR PANEL DESCRIPTION

## 1. MAIN INPUT

This is a female XLR-type connector that accepts a balanced line-level signal from a mixing console or other signal source.

## 2. LOOP OUT

This is a male XLR-type connector that produces exactly the same signal that is connected to the MAIN INPUT jack. Use it to daisy-chain several SA1532z's together off the same signal source.

## 3. Level Control

This controls the overall signal level at the input to the built-in power amplifiers. It ranges from  $-15$  dB to  $+5$  dB of gain. The center detent is 0 dB (unity gain).

## 4. Power ON Indicator

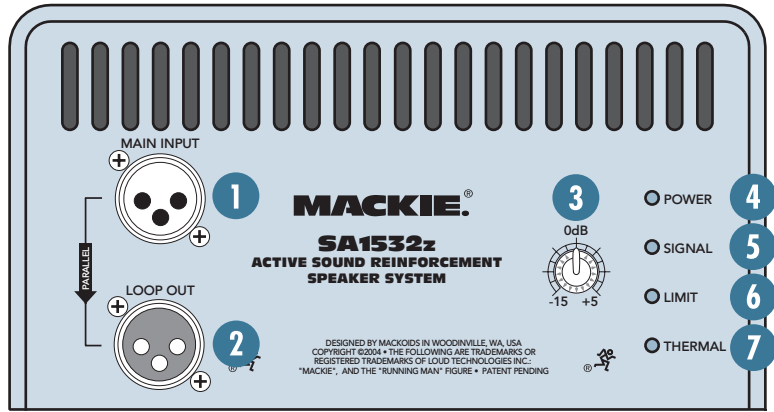
When the POWER switch is turned on, and the linecord is connected to an active AC power supply, this indicator lights green to let you know that you're ready to rock and roll. The cool blue LED on the front of the cabinet works in the same way.

## 5. SIGNAL Present Indicator

This LED illuminates whenever there is a signal present at the MAIN INPUT connector on the rear panel. It senses the signal just after the level control, so if the level control is turned down, the SIGNAL Present indicator turns off.

## 6. LIMIT Indicator

The SA1532z has a built-in limiter that prevents the amplifier outputs from clipping or overdriving the transducers. The LIMIT indicator lights when the limiter is activated. It's okay for the LIMIT indicator to blink occasionally, but if it blinks frequently or lights continuously, turn down the level control until the LIMIT indicator only blinks occasionally.



## 7. THERMAL Indicator

There is also a thermal protection circuit that monitors the internal temperature of the amplifiers and heatsink. If the temperature should exceed a safe operating level, this indicator lights and the signal is muted to allow the amplifiers to cool. When the temperature cools to a safe level once again, the thermal protection circuit deactivates and normal operation continues.

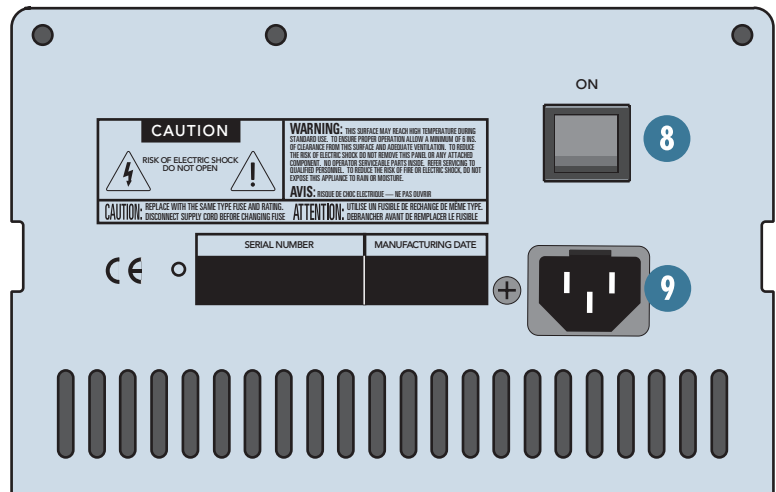
**Note:** Activation of the thermal protection circuit is an indication that you should take steps to avoid continued thermal problems. See “Thermal Considerations” on page 6.

## 8. POWER Switch

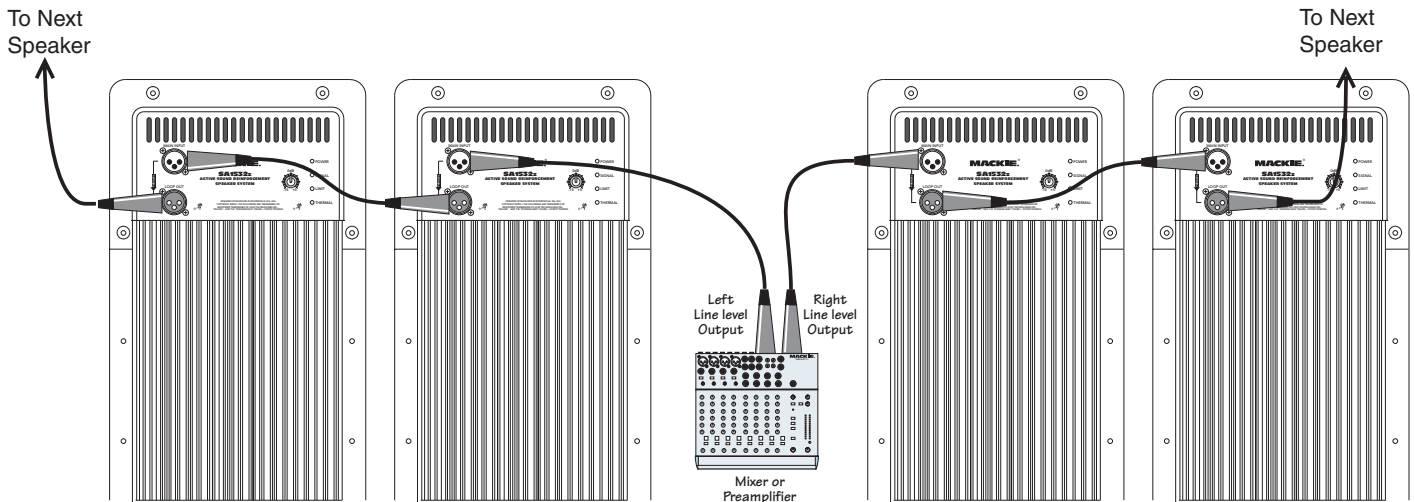
Use this switch to turn the SA1532z on and off. Make sure the level control is turned down before you turn it on.

## 9. AC Receptacle

This is where you connect the AC linecord to provide AC power to the SA1532z's built-in power amplifiers. Plug the linecord into an AC socket properly configured for your particular model.



# HOOKUP DIAGRAM



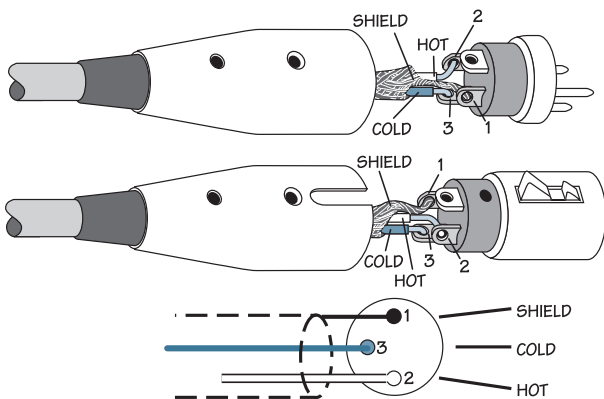
## DAISY-CHAINING MULTIPLE SA1532z's

## CONNECTIONS

The SA1532z has one female XLR input that accepts a balanced line-level signal. When connecting a balanced signal, be sure it's wired per AES (Audio Engineering Society) standards:

### XLR

- Hot (+) Pin 2
- Cold (-) Pin 3
- Shield (Ground) Pin 1



### Balanced XLR Connectors

There is also a male XLR connector labeled LOOP OUT. This is also wired according to the above AES standard.

The LOOP OUT connector allows you to connect more than one SA1532z to your system. Simply plug the signal source (i.e., mixer output) into the first MAIN INPUT jack, and patch that speaker's LOOP OUT jack to the next MAIN INPUT jack, and so on, daisy-chaining multiple speakers.

The LOOP OUT jack is wired straight from the MAIN INPUT connector — there is no electronic circuitry between — so the signal coming out of the LOOP OUT jack is exactly the same as the signal going in.

## PLACEMENT

The SA1532z speaker is designed to sit on the floor or stage.



**WARNING:** The cabinet has no rigging points and is not suitable for rigging. **NEVER** attempt to suspend the SA1532z by its handles. *The SA1532z should never be pole-mounted.*

You can create a horizontal array by placing the cabinets side-by-side. However, you should have a good understanding of the relationship between the splay angle (the angle between the facing sides of the cabinets), the on-axis power, and frequency cancellation effects between cabinets.

When two cabinets are placed side-by-side, the actual splay angle is 20° (determined by a 10° angle on each cabinet side). As the splay angle increases toward the angle of horizontal coverage (90° for the SA1532z), the on-axis power decreases, but the frequency response becomes smoother as the comb-filtering effects (caused by the interaction in the area of double-coverage) decrease.



As with any powered components, protect them from moisture. If you are setting them up outdoors, make sure they are under cover if you expect rain.

## Room Acoustics

The SA1532z loudspeakers are designed to sound as neutral as possible; that is, to reproduce the input signal as accurately as possible.

Room acoustics play a crucial role in the overall performance of a sound system. Here are some additional placement tips to help overcome some typical room problems that might arise:

- Avoid placing loudspeakers in the corners of a room. This increases the low frequency output and can cause the sound to be muddy and indistinct.
- Avoid placing loudspeakers against a wall. This, too, increases the low frequency output, though not as much as corner placement. However, if you do need to reinforce the low frequencies, this is a good way to do it.
- Avoid placing the speakers directly on a hollow stage floor. A hollow stage can resonate at certain frequencies, causing peaks and dips in the frequency response of the room. It's better to place the loudspeakers on a sturdy table or stand designed to handle the weight of the SA1532z.
- Position the loudspeakers so the high-frequency drivers are 2 to 4 feet above ear level for the audience (make allowances for a standing/dancing in the aisles audience). High frequencies are highly directional and tend to be absorbed much easier than lower frequencies. By providing direct line-of-sight from the loudspeakers to the audience, you increase the overall brightness and intelligibility of the sound system.
- Highly reverberant rooms, like many gymnasiums and auditoriums, are a nightmare for sound system intelligibility. Multiple reflections off the hard walls, ceiling, and floor play havoc with the sound. Depending on the situation, you may be able to take some steps to minimize the reflections, such as putting carpeting on the floors, closing draperies to cover large glass windows, or hanging tapestries or other materials on the walls to absorb some of the sound.

However, in most cases, these remedies are not possible or practical. So what do you do? Making the sound system louder generally doesn't work because the reflections become louder, too. The best approach is to provide as much direct sound coverage to the audience as possible. The farther away you are from the speaker, the more prominent will be the reflected sound.

Use more speakers strategically placed so they are closer to the back of the audience. If the distance between the front and back speakers is more than about 100 feet, you should use a delay processor to time-align the sound. (Since sound travels about 1 foot per millisecond, it takes about 1/10 of a second to travel 100 feet.)

## THERMAL CONSIDERATIONS

The SA1532z has three powerful built-in amplifiers capable of producing a combined 1300 watts of power. As amplifiers produce heat, it is important to dissipate the heat as quickly as possible. This results in increased reliability and longevity for the amplifier.

The amplifier module is mounted on a large heatsink, which is cooled by convection where cool air is drawn through it's fins, carrying the heat away. In order for this convection cooling to work efficiently, it is important to provide adequate airspace behind the loudspeaker. When you position the SA1532z, we recommend leaving at least six inches of air space behind it.

In the unlikely event of the amplifier overheating, a built-in thermal switch will activate, which mutes the signal and lights the THERMAL LED. When the amplifier has cooled down to a safe operating temperature, the thermal switch resets itself, and the SA1532z resumes normal operation.

If the thermal switch activates frequently, try turning down the level control a notch or two on the mixing console (or the back of the SA1532z) to avoid overheating the amplifier.

If the temperature in the room is too high, it could cause the amplifier to overheat. In this case, you should try aiming a fan at the rear panel to move more air through the heatsink fins.

## AC POWER

Be sure the SA1532z is plugged into an outlet that is able to supply the correct voltage specified for your model. If the voltage should drop below 97% of the specified line voltage, the built-in amplifiers will no longer be able to supply rated power. (They will continue to operate down to 80% of the rated line voltage, but won't reach full power, resulting in lower headroom.)

Be sure the electrical service can supply enough amperage for all the components connected to it.

We recommend that a stiff (robust) supply of AC power be used because the amplifiers place high current demands on the AC line. The more power that is available on the line, the louder the speakers will play and the more peak output power will be available for cleaner, punchier bass. A suspected problem of "poor bass performance" is often caused by a weak AC supply to the amplifiers.



Never remove the ground pin on the power cord of the SA1532z or any other component. This is very dangerous.

# SERVICE INFORMATION

If you think your Mackie product has a problem, please check out the following troubleshooting tips and do your best to confirm the problem. Visit the Support section of our website ([www.mackie.com/support](http://www.mackie.com/support)) where you will find lots of useful information such as FAQs, documentation, and user forums. You may find the answer to the problem without having to send your Mackie product away.

## Troubleshooting

### No power

- Our favorite question: Is it plugged in? Make sure the AC outlet is live (check with a tester or lamp).
- Our next favorite question: Is the POWER switch on? If not, try turning it on.
- Is the POWER LED on the rear panel glowing green? If not, make sure the AC outlet is live. If so, refer to “No sound” below.
- The internal AC line fuse may be blown. This is not a user serviceable part. If you suspect the AC line fuse is blown, please see the "Repair" section next.

### No sound

- Is the input level control for the input source turned all the way down? Verify that all the volume controls in the system are properly adjusted.
- Is the signal source working (and making union scale)? Make sure the connecting cables are in good repair and securely connected at both ends. Make sure the output volume (gain) control on the mixing console is turned up sufficiently to drive the inputs of the speaker.
- Make sure the mixer does not have a Mute on or a Processor loop engaged. If you find something like this, make sure the volume/gain is turned down before disengaging the offending switch.
- Is the THERMAL indicator lit red on the rear panel? Make sure there is at least six inches of free space behind the SA1532z.

### Poor bass performance

- Check the polarity of the connections between the mixer and the loudspeakers. You may have your positive and negative connections reversed at one end of one cable, causing one loudspeaker to be out-of-phase.

### Poor sound

- Is it loud and distorted? Make sure that you're not overdriving a stage in the signal chain. Verify that all level controls are set properly.
- Is the input connector plugged completely into the jack? Be sure all connections are secure. It's a good idea to periodically clean all electrical connections with a non-lubricating electrical contact cleaner.

### Noise

- Make sure all connections to the active loudspeakers are good and sound.
- Make sure none of the signal cables are routed near AC cables, power transformers, or other EMI-inducing devices.
- Is there a light dimmer or other SCR-based device on the same AC circuit as the SA1532z? Use an AC line filter or plug the SA1532z into a different AC circuit.

### Hum

- Try disconnecting the cable connected to the MAIN INPUT jack. If the noise disappears, it could be a “ground loop,” rather than a problem with the SA1532z. Try some of the following troubleshooting ideas:
  - ◇ Use balanced connections throughout your system for the best noise rejection.
  - ◇ Whenever possible, plug all the audio equipment's linecords into outlets which share a common ground. The distance between the outlets and the common ground should be as short as possible.

## Repair

For warranty repair or replacement, refer to the warranty information on page 11.

Non-warranty repair for Mackie products is available at a factory-authorized service center. To locate your nearest service center, visit [www.mackie.com](http://www.mackie.com), click “Support” and select “Locate a Service Center.” Service for Mackie products living outside the United States can be obtained through local dealers or distributors.

If you do not have access to our website, you can call our Tech Support department at 1-800-898-3211, Monday-Friday, 7 am to 5 pm Pacific Time, to explain the problem. Tech Support will tell you where the nearest factory-authorized service center is located in your area.

## CARE AND MAINTENANCE

Your Mackie loudspeakers will provide many years of reliable service if you follow these guidelines:



Avoid exposing the loudspeakers to moisture. If they are set up outdoors, be sure they are under cover if you expect rain.

- Avoid exposure to extreme cold (below freezing temperatures). If you must operate the loudspeakers in a cold environment, warm up the voice coils slowly by sending a low-level signal through them for about 15 minutes prior to high-power operation.
- Use a slightly damp cloth with a mild soap solution to clean the cabinets. Only do this when the power is turned off. Avoid getting moisture into any of the openings of the cabinet, particularly where the drivers are located.

### Need Help?

**You can reach a technical support representative  
Monday through Friday  
from 7 AM to 5 PM PST at:**

**1-800-898-3211**

**After hours, visit [www.mackie.com](http://www.mackie.com) and click Support,  
or email us at: [techmail@mackie.com](mailto:techmail@mackie.com)**

# SA1532z SPECIFICATIONS

## Acoustic Performance

<i>Frequency Range (-10 dB)</i>	38 Hz–20 kHz
<i>Frequency Response (-3 dB)</i>	47 Hz–18 kHz
<i>Horizontal Coverage Angle (-6 dB)</i>	90° averaged 2 kHz to 10 kHz
<i>Vertical Coverage Angle (-6 dB)</i>	40° averaged 2 kHz to 10 kHz
<i>Directivity Factor; DI (Q)</i>	11.1 (12.9) averaged 2k Hz to 10 kHz
<i>Max SPL long-term</i>	135 dB @ 1m
<i>Max SPL peak</i>	138 dB @ 1m
<i>Crossover Points</i>	700 Hz, 3000 Hz

## Input/Output

<i>Input Type</i>	Female XLR Balanced/Unbalanced
<i>Input Impedance</i>	50 kohms balanced
<i>Loop-Through</i>	Male XLR Balanced/Unbalanced (parallel with input)
<i>Level Control</i>	Rotating knob (-15 to +5 dB), center detent at 0 dB

## High-Frequency Section

<i>Voice Coil Diameter</i>	1.75 in/44 mm
<i>Horn Exit Diameter</i>	1.0 in/25 mm
<i>Phase Plug</i>	3-slot optimized geometry
<i>Diaphragm Material</i>	Titanium
<i>Magnet Material</i>	Neodymium

## Mid-Frequency Section

<i>Diameter</i>	6.0 in/152 mm
<i>Phase Plug</i>	Optimized geometry
<i>Diaphragm Material</i>	Epoxy-reinforced cellulose
<i>Magnet Material</i>	Neodymium

## Low-Frequency Section

<i>Number of Drivers</i>	2
<i>Woofers Diameter</i>	15.0 in/381 mm
<i>Voice Coil Diameter</i>	3.0 in/75 mm
<i>Diaphragm Material</i>	Epoxy-reinforced cellulose
<i>Magnet Material</i>	Ferrite

## Power Amplifiers

### Low-Frequency Power Amplifier

<i>Rated Power</i>	1100 watts rms
<i>Rated THD</i>	< 0.03%
<i>Design</i>	Class G, Hybrid

### Mid and High-Frequency Power Amplifiers

<i>Rated Power</i>	100 watts rms
<i>Rated THD</i>	< 0.03%
<i>Design</i>	Class AB

## Line Input Power

<i>US</i>	120V, 60Hz	
	Recommended Amperage Service:	20 amps
<i>Europe</i>	230V, 50Hz	
	Recommended Amperage Service:	16 amps
<i>AC Connector</i>	3-pin IEC 250 VAC	

## Safety Features

<i>Input Protection</i>	Low frequency dynamic bass protection, rms limiting, power supply and amplifier thermal protection
<i>Display LEDs</i>	Power ON, Signal Present, Limit, Thermal (cool down auto-reset)

## Construction Features

<i>Basic Design</i>	Trapezoidal, 10° sides
<i>Material</i>	13-ply Baltic birch, resin end caps
<i>Finish</i>	Wear-resistant textured black PVC vinyl
<i>Handles</i>	One on each side, one top, one bottom
<i>Grille</i>	Perforated metal with weather-resistant coating

## Physical Properties

<i>Height</i>	50.0 in/127.0 cm
<i>Front Width</i>	19.1 in/48.5 cm
<i>Rear Width</i>	13.9 in/35.3 cm
<i>Depth</i>	18.1 in/46.0 cm
<i>Weight</i>	132 lb/60 kg
<i>Mounting Methods</i>	<b>Floor mount only.</b>

The SA1532z should never be pole-mounted. The cabinet has no rigging points and is not suitable for flying. *Never attempt to suspend the cabinet by its handles.*

## Disclaimer

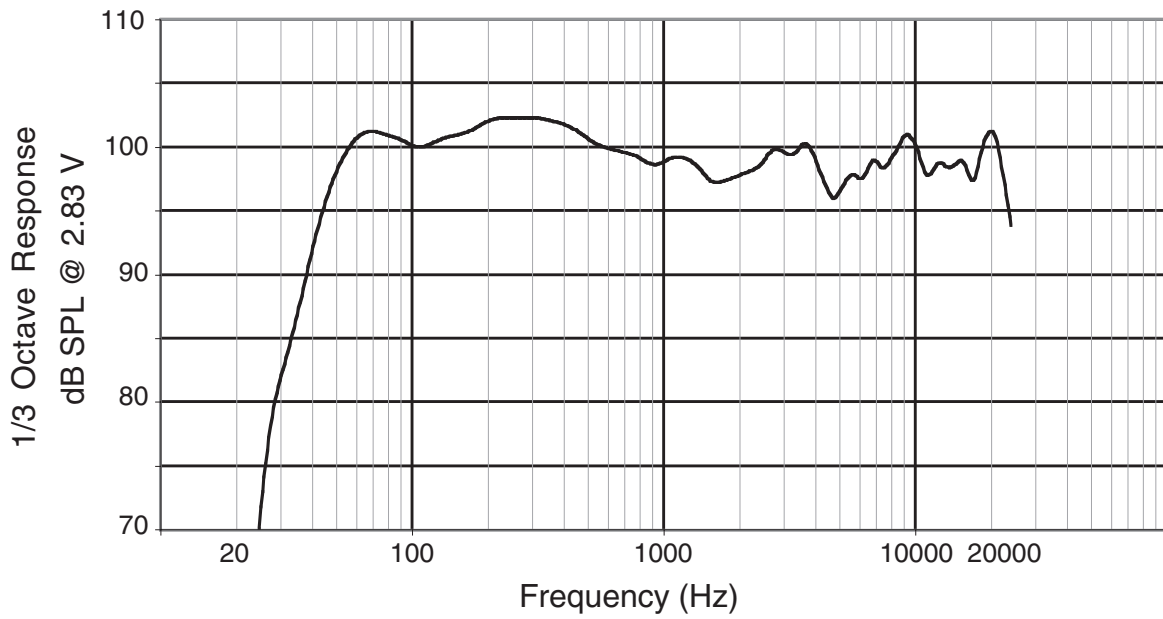
Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

“Mackie” and the “Running Man” figure are registered trademarks of LOUD Technologies Inc.

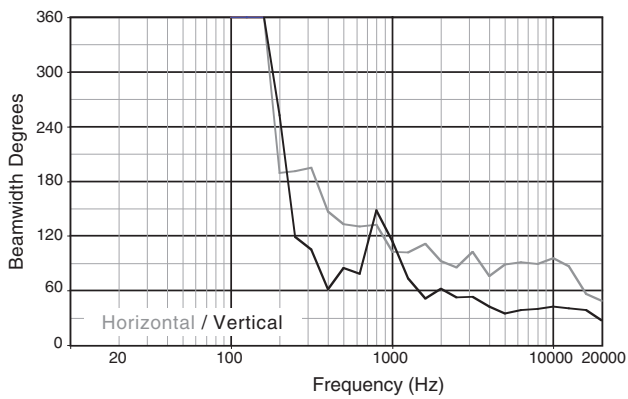
All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.



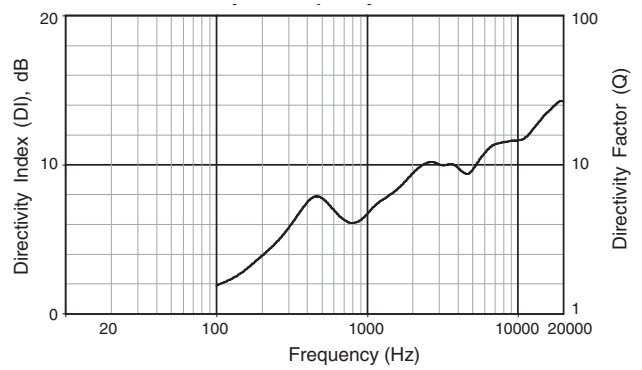
## SA1532z Frequency Response On-Axis



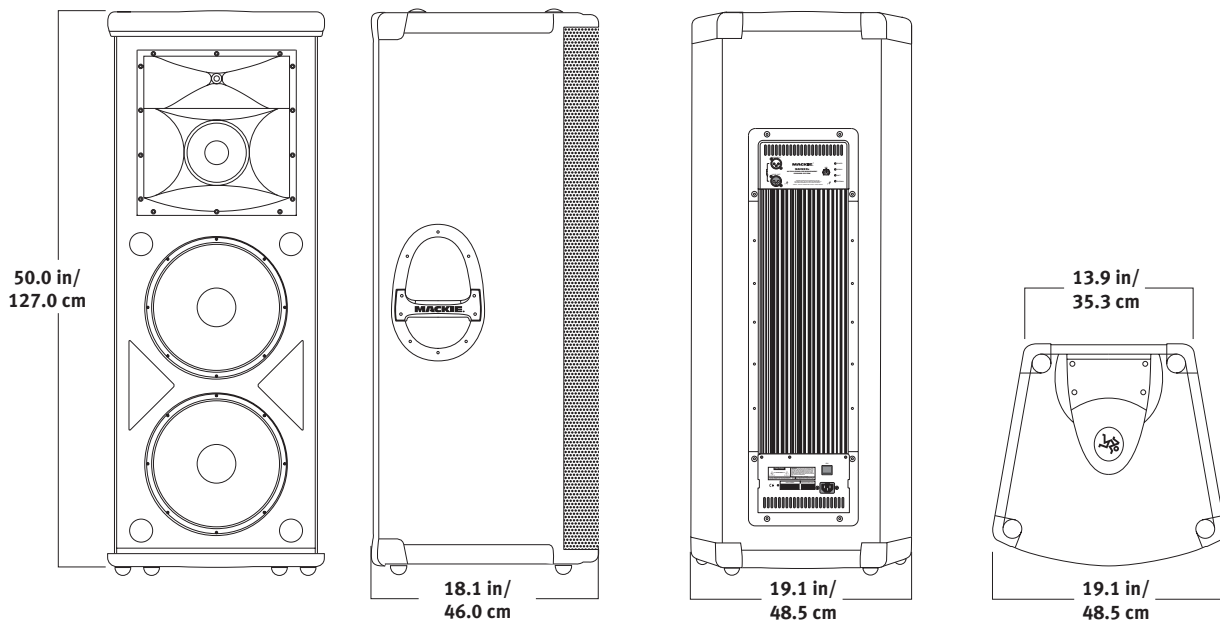
## SA1532z Beamwidth vs. Frequency



## SA1532z Directivity vs. Frequency



## SA1532z Dimensions



# SA1532z Limited Warranty

**Please keep your sales receipt in a safe place.**

**A.** LOUD Technologies Inc. warrants all materials, workmanship and proper operation of this product for a period of **three years** from the original date of purchase. You may purchase an additional 24-month Extended Warranty (for a total of 60 months of coverage). Visit our website and follow the "Product Registration" links for details ([www.mackie.com](http://www.mackie.com)). If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, LOUD Technologies, at its option, will repair or replace the product. **This warranty applies only to equipment sold and delivered within the U.S. and Canada by LOUD Technologies Inc. or its authorized dealers.**

**B.** For faster processing (not to mention a free gift), register online or mail in the product registration card.

**C.** Unauthorized service, repairs, or modification of Mackie products will void this warranty. To obtain repairs or replacement under warranty, you must have a copy of your sales receipt from the authorized Mackie dealer where you purchased the product. It is necessary to establish purchase date and determine whether your Mackie product is within the warranty period.

**D.** To obtain warranty repair or replacement:

1. Call Mackie Technical Support at 800/898-3211, 7 AM to 5 PM Monday through Friday (Pacific Time) to get authorization for repair or replacement. Alternately, go to the Mackie website, click "Support" ([www.mackie.com/support](http://www.mackie.com/support)), and follow the instructions for reporting a warranty issue and submitting a request for an advance replacement.

**2. Advance Replacement:** Mackie will ship a replacement unit to you along with an invoice for the suggested retail price of the replacement unit. You must return the defective unit immediately to cancel the invoice. If you do not return the defective unit within 30 days, you must pay the full amount stated in the invoice to satisfy your debt.

**3. Repair:** When you call Mackie Technical Support, explain the problem and obtain a Service Request Number. Have your Mackie product's serial number ready. ***You must have a Service Request Number before you can obtain factory-authorized service.***

- Pack the product in its original shipping carton. Also include a note explaining exactly how to duplicate the problem, a copy of the sales receipt with price and date showing, your daytime phone number and return street address (no P.O. boxes or route numbers, please!), and the Service Request Number. If we cannot duplicate the problem or establish the starting date of your Limited Warranty, we may, at our option, charge for service time and parts.

- Ship the product in its original shipping carton, **freight prepaid** to the authorized service center. Write the Service Request Number in **BIG PRINT** on top of the box. The address of your closest authorized service center will be given to you by Technical Support, or it may be obtained from our website. Once it's repaired, the authorized service center will ship it back by ground shipping, pre-paid (if it qualified as a warranty repair).

**Note:** Under the terms of the warranty, you must ship or drop-off the unit to an authorized service center. The return ground shipment is covered for those units deemed by us to be under warranty.

**Note:** You must have a sales receipt from an authorized Mackie dealer for your unit to be considered for warranty repair.

**IMPORTANT: Make sure that the Service Request Number is plainly written on the shipping carton. No receipt, no warranty service.**

**E.** LOUD Technologies reserves the right to inspect any products that may be the subject of any warranty claims before repair or replacement is carried out. LOUD Technologies may, at our option, require proof of the original date of purchase in the form of a dated copy of the original dealer's invoice or sales receipt. Final determination of warranty coverage lies solely with LOUD Technologies.

**F.** Any products returned to one of the LOUD Technologies factory-authorized service centers, and deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced. LOUD Technologies and its authorized service centers may use refurbished parts for repair or replacement of any product. Products returned to LOUD Technologies that do not meet the terms of this Warranty will not be repaired unless payment is received for labor, materials, return freight, and insurance. Products repaired under warranty will be returned freight prepaid by LOUD Technologies to any location within the boundaries of the USA or Canada.

**G.** LOUD Technologies warrants all repairs performed for 90 days or for the remainder of the warranty period. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse, or to exterior appearance. This warranty is recognized only if the inspection seals and serial number on the unit have not been defaced or removed.

**H.** LOUD Technologies assumes no responsibility for the timeliness of repairs performed by an authorized service center.

**I.** This warranty is extended to the original purchaser. This warranty may be transferred to anyone who may subsequently purchase this product within the applicable warranty period for a nominal fee. A copy of the original sales receipt is required to obtain warranty repairs or replacement.

**J.** This is your sole warranty. LOUD Technologies does not authorize any third party, including any dealer or sales representative, to assume any liability on behalf of LOUD Technologies or to make any warranty for LOUD Technologies Inc.

**K.** THE WARRANTY GIVEN ON THIS PAGE IS THE SOLE WARRANTY GIVEN BY LOUD TECHNOLOGIES INC. AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE WARRANTY GIVEN ON THIS PAGE SHALL BE STRICTLY LIMITED IN DURATION TO THREE YEARS FROM THE DATE OF ORIGINAL PURCHASE FROM AN AUTHORIZED MACKIE DEALER. UPON EXPIRATION OF THE APPLICABLE WARRANTY PERIOD, LOUD TECHNOLOGIES INC. SHALL HAVE NO FURTHER WARRANTY OBLIGATION OF ANY KIND. LOUD TECHNOLOGIES INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES THAT MAY RESULT FROM ANY DEFECT IN THE MACKIE PRODUCT OR ANY WARRANTY CLAIM. Some states do not allow exclusion or limitation of incidental, special, or consequential damages or a limitation on how long warranties last, so some of the above limitations and exclusions may not apply to you. This warranty provides specific legal rights and you may have other rights which vary from state to state.

# **MACKIE®**

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**16220 Wood-Red Road NE • Woodinville, WA 98072 • USA**  
**United States and Canada: 800.898.3211**  
**Europe, Asia, Central and South America: 425.487.4333**  
**Middle East and Africa: 31.20.654.4000**  
**Fax: 425.487.4337 • [www.mackie.com](http://www.mackie.com)**  
**E-mail: [sales@mackie.com](mailto:sales@mackie.com)**