



LUR66E

INSTALLATION/OWNER'S MANUAL

2-Way Outdoor Rock Speaker





Welcome

Congratulations on your purchase of the LUR66E rock speaker. A high level of design experience and engineering went into its creation. With the rugged look of weathered sandstone, the LUR66E 2-way rock speaker is extremely versatile and are perfect when placed in areas ranging from indoor use like terrariums and interior gardens to back yards, patios and pool or spa settings.

The LUR66E's weather resistant design is made possible by using the most durable components including a fiber-reinforced poly resin composite enclosure. This allows it to resist rain, hail, sleet, coastal environments and snow, but still appear natural and inconspicuous. You will find that the materials used in the LUR66E are also superior in resisting sun fade and water marks. It was specifically designed to look and sound great for seasons to come.

Important

Although the LUR66E speaker is designed to resist weather and withstand unfriendly environmental conditions, there are precautions you should take to optimize the long-term life and performance. Keep soil, debris and wood chips from covering the speaker grille. If debris accumulates on the grille, it can easily be rinsed away with a garden hose using low water pressure. Do not spray water directly into the face of the grille. Avoid placing the speakers where the grille area will come in direct contact with sprinklers. If you desire to rinse the speaker surface, then direct the spray of water at a 45 degree angle away from the grille, again using low water pressure.

Yard chemicals constitute another element that can prematurely shorten the speaker's life. Fertilizers, weed control sprays and many other chemicals commonly used in the yard can potentially cause damage to the rubber and speaker components.

Sound Coverage and Speaker Placement

The LUR66E is sold separately, as many outdoor installations have multiple zones. It is assumed for the purpose of this manual that the rock speaker will be installed using a minimum of two speakers. When deciding on the placement, allow for a total coverage area of approximately 100 to 450 sq.ft. per pair of rock speakers. This estimate is based on the ambient noise levels of a typical outside patio or yard and your personal listening level. If you are using your speakers in a high noise area where your sound coverage requirement is influenced by high automobile traffic noise or located in close proximity to a heavily industrialized urban area, or if you desire music over a physically large area, it is best to have a larger number of speakers playing at low volumes, rather than a few speakers playing at high volumes. Multiple pairs of speakers placed in strategic locations within your coverage area can be a fundamental solution when designing an outdoor system that requires large coverage.

Ideally, you should place the speakers as close to the primary listening area and audio source as possible. The volume of the speaker decreases rapidly as it is moved further from the listener. Keep this in mind when planning the wire run to each speaker location. Patios, walls, and other features in your yard may be difficult to get around when wiring your speakers, so properly planning your design is important. Measure twice, dig once.

The grilles are not designed or intended to be removed. Do not attempt to remove the grilles from your rock speaker. There are no user serviceable parts behind the grille and removal will damage the speaker.

Connections

The LUR66E rock speaker has a two-conductor speaker wire surrounded by a cable sleeve exiting the bottom of the speaker. Any speaker cable used to extend the connection should be of a similar size (wire gauge) running from the speaker location to your audio system.

You may wish to purchase certified direct burial cables (environmentally rated speaker wire) and/or a watertight burial box which also works well for the purpose of protecting your connection. Burial cable or wire rated for in ground installation is available at most hardware stores and home improvements outlets.

The cable or wire can be run either directly beneath the speaker into the ground, or you can use the notch on the bottom edge of the speaker enclosure to exit the cable out the rear for hard surface installations. When attaching the cable to the speaker, it is critical that a high quality connection be achieved. Poor connections will lead to corrosion, possible loss of signal and/or a decline in audio performance.

When possible, try to reduce the distance of your speaker from the audio source to achieve the best audio results. The optimum run should be no longer than 50' for the most favorable results. Runs longer than 50' are possible, but may require larger gauge wire. It is recommended to use 14 or 12 gauge for speaker wire runs longer than 50'. Ask your Dual dealer or consult a professional contractor if you have questions regarding long wire runs.

Parallel or series wiring is commonly acceptable for the LUR66E rock speaker to gain correct amplifier loading. For best results, avoid series wiring The LUR66E speaker with any other speaker type or brand.

The LUR66E speaker wires are marked for polarity for determining the positive and negative identity of the individual wires within the molded pair insulation. Polarity is shown by either a color or stripe on the insulation, by ridges molded into one side of the insulation, the color of the insulation case around the wire, or by the color type or colors of the wires/wire itself (copper or silver).

Important: In order to maintain correct polarity, always connect speaker wire using the positive (+) terminal on the receiver to the positive (+) wire on the speaker, and the negative (-) terminal on the receiver to the negative (-) wire on the speaker.

For a typical audio installation, all speakers in a system will be connected with the same respective polarity. For best results, crimp or solder the wires together using heat shrink to seal each individual conductor. After the individual conductors are sealed, seal over the pair with another layer of heat shrink.

Distortion	If you hear obvious distortion from the speakers, immediately lower the volume level of your receiver. Distortion often indicates the speaker is being over driven, and damage can result by playing at high volume levels for prolonged periods of time.
Using Loudness	The Loudness function on most receivers is designed to enhance the bass and treble (for background music or listening at low volume levels).
Unnatural Sounds	Distorted or unnatural sound can indicate poor connections, defective electronics, poorly recorded source material or speaker failure. If only one of your speakers has poor sound quality, check the speaker wire and audio connections.
Swapping Speaker Locations	That doesn't fix the problem? Try putting each speaker in place of one another (swapping). If the sound remains poor on the suspect speaker after swapping location and the distortion moves with the speaker to the new location, the speaker may be the problem. If the distortion remains in the original location then the problem is elsewhere in your audio system or speaker wiring.
For Your Records	Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your Dual product. Dual Model _____ Dealer Name _____ Dealer Phone _____ Purchase Date _____
Register Your Product	Register your product online at www.dualav.com



Limited Two Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of two years from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product.

What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
 - Call us toll-free at 1-866-382-5476
 - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.



Specifications

Frequency Response	70Hz-20kHz
Nominal Impedance	8 ohms
Sensitivity	88dB (2.83 Volts RMS measured @ 1 Meter)
RMS Power	60 Watts @ 1kHz
Peak Power	150 Watts @ 1kHz
Dimensions	9.63" x 8.75" x 8.75"

Design and specifications subject to change without notice.



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