

Thank you for your purchase of the NHT O2 loudspeaker. Please take a few minutes to read through this Owner's Manual prior to installing your new speakers. The information provided will help you to obtain maximum performance from your audio system. If you have questions or need assistance at any time during the installation or operation of your new speakers, please call your NHT Dealer or our Toll-Free Customer Hotline at:

**1-800-NHT-9993**

Please retain the O2's packaging to protect the speaker in the event that you move or transport it.

## Design

NHT loudspeakers are designed to deliver refined, musical sound from attractive and affordable packages. Our efforts are guided by the study of human hearing and are optimized for real-world use. Every NHT speaker undergoes rigorous testing and quality control at the factory to ensure you years of listening pleasure.

The O2 brings NHT sonic performance to outdoor environments, thanks to its proprietary molded enclosure, moisture-resistant drive units and aluminum grille. The O2 is easily mounted to walls with its customized mounting bracket (included) or alternately, it may be placed on horizontal surfaces using its rubber base (also included).

The acoustical properties of outdoor environments differ greatly from that of indoor environments, where there are typically six room boundaries to reinforce low frequency response. "Indoor/outdoor" speakers cannot offer optimized performance for both due to the different acoustical requirements of each environment. To address this problem, the O2 is designed specifically for outdoor use only. Its bass and lower midrange response is custom-tailored to compensate for the lack of boundary reinforcement, resulting in uncommonly rich, full-range sound in outdoor environments. Additionally, the O2 has been engineered to withstand temperatures ranging from -20 to 140 degrees Fahrenheit.

## Placement

The O2 is designed for outdoor use only and is not recommended for use indoors. The equivalent NHT model for indoor use is the Classic Two.

The O2 is primarily designed for wall-mounting with the supplied bracket. If one pair will be employed on either side of a targeted listening area (such as a patio or deck), we recommend mounting the speakers to either side, slightly toed-in and equidistant from the center of the listening area. This configuration will result in optimal stereo imaging. If they are mounted above the listening area, angle them down appropriately. If multiple O2s will be mounted around the perimeter of a large area, attempt to install them equidistant from each other to achieve consistent sound dispersion between them.

Ideally, the front of the O2 should face the listening area without direct obstruction from beams, joists, etc. To prolong the life of the speaker, avoid installing it where it will be exposed to direct rain or snow. If possible, install it below an eave or overhang.

## Mounting Bracket

**Before attempting this installation, carefully evaluate the mounting surface, making sure that its composition and construction are strong enough to support the load safely. If you are unsure about the type or use of mounting hardware for your installation, consult a professional contractor or a knowledgeable hardware store. The O2 mounting bracket is suitable only for attaching the speaker to walls or ceilings constructed of solid wood, brickwork, concrete, hollow building block, or wood studs. Do not mount the bracket to unreinforced plaster or drywall (sheetrock /gypsum board).**

See Fig. 1.

The integrated bracket has two keyholes to accommodate your mounting fasteners, and allows you to mount the speaker horizontally or vertically.

The integrated bracket is designed to rotate so you can aim the speaker at the listening area. Loosen the two large recessed knobs on each end to free up the bracket and enable you to rotate the speaker. Once you have found the right position, tighten the two large recessed knobs to lock the speaker in position.

Centered on the back panel of the O2, just above the terminal cup, is a 1/4 - 20 threaded insert designed to accommodate an Omnimount bracket. You can remove the integrated bracket completely by unscrewing the two large recessed knobs.

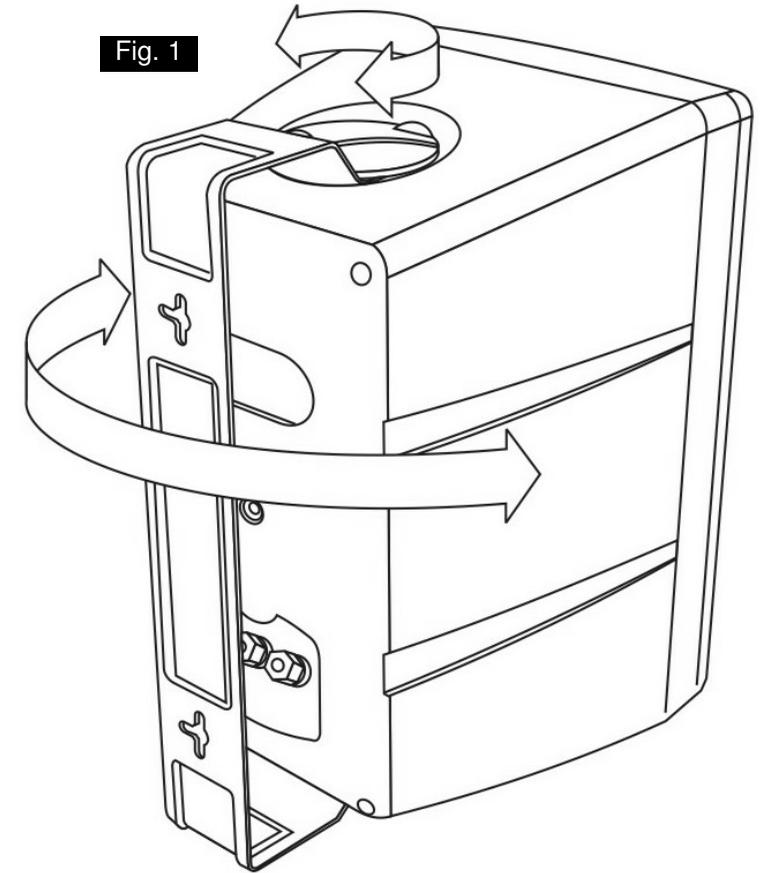
## Connections

**Before connecting speakers to your audio system, it is important that you turn off the power to your amplifier / receiver to avoid damage to the equipment.**

The O2 is compatible with virtually all quality amplifiers. Proper wiring of the speakers is essential to good sound. At a minimum, 16AWG speaker cable is recommended for runs of 10 feet or less, with heavier special purpose cable used for longer runs. For specialty cable considerations, consult your local authorized NHT retailer.

Prepare your speaker cable by stripping 1/4" to 3/8" of insulation from the ends and twisting the exposed wire strands tightly. The five-way binding posts on the back of the speaker will accept bare wire, banana plugs or spade plugs. Tighten the binding posts by hand, as pliers can strip or break them.

**Be sure to wire both the left and right speakers "in-phase." That is, the Positive (red) terminal on the amplifier output must be connected to the corresponding Positive (red) terminal on the speaker. Likewise with the Negative (black) terminals.** All speaker cables have some sort of marking along one or both conductors to help you make the correct connections. Incorrect speaker phase is indicated by weak bass and the lack of a well-defined stereo image. indicated by weak bass and the lack of a well-defined stereo image.



## O2 Specifications

- **System Type:** 2-way, 7.4 liter acoustic suspension design
- **Driver Complement:** 6.5" long-throw polypropylene woofer, 1" fluid-cooled UFLC-coated dome tweeter
- **Crossover:** 2.5KHz, 12db/octave
- **Response:** 60Hz - 20KHz, +/- 3dB
- **Sensitivity:** 88db (2.83V at 1M)
- **Power Rating:** 25W/ch minimum, 125W/ch maximum
- **Impedance:** 6 ohms nominal
- **Inputs:** 5-way binding posts
- **Weight:** 7.2 lbs. each
- **Dimensions:** 11.7"H x 7.3"W x 7.5"D
- **Finish:** White

Specifications are subject to change without notice, in accordance with our policy of continuously upgrading the performance of our products.

To minimize noise pickup, segregate cables by function. Do not run low level signal cables parallel to power cables, speaker cables, or digital cables. Also, do not run speaker cables or digital cables parallel to power cords or parallel to each other. If different types of cables are placed near each other at some place in your system, separate them by the maximum practical distance and cross them at right angles where they meet. Do not twist or tie AC power cords with speaker cables.

## Operation

The O2 was designed to handle a wide range of listening levels, but every speaker has limits. It is important to use common sense and listen for signs of possible distress from the speakers. Underpowered amplifiers are most often the cause of speaker damage. For example, a 60-watt amplifier runs out of power when called upon to produce more than 60 watts, and the resulting distortion can damage the speaker. If you tend to listen at high volume levels, more powerful amplifiers are preferable because they are less likely to run out of power.

Noticeable distortion or harsh breakup is an indication that either your amplifier or your speakers are running beyond their capacity, and the volume should be decreased. Speaker damage most often occurs from sustained high volume levels, not from transient sounds or brief musical peaks. Excessive boosting of bass, treble or equalizer controls can worsen the problem, and is not recommended.

## Logo

An adhesive NHT logo is supplied with the O2. If you choose, you may peel off the adhesive backing and place it on the center of the grille, about a half inch from the bottom edge.

## Maintenance

Your speakers require minimal maintenance under normal use. If desired, the cabinet and aluminum grille may be cleaned using a damp cloth or a foaming upholstery cleaner. Do not use lint cloth or furniture polish. Do not attempt to clean the actual drivers.

**Use caution to avoid dropping the O2, as its enclosure may crack.**

### Limited Warranty Valid Only in the U.S.A.

#### Warranty Period

For the period of 5 years for parts and 5 years for labor from date of original purchase (the warranty period) from an authorized NHT dealer, Now Hear This (NHT) warrants that if our product fails to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual instructions enclosed with the unit, it will be repaired or replaced with a unit of comparable value at the option of NHT without charge to you for parts or actual repair work. Parts supplied under this warranty may be new or rebuilt at the option of NHT.

#### What's Not Covered

This warranty does not cover any product which is used in any trade or business, or in an industrial or commercial application.

This warranty does not cover the cabinet or any appearance item, or any damage caused to the product resulting from: alterations, modifications not authorized in writing by NHT, accident, misuse or abuse, damage due to lightning or power surges, or being subjected to power in excess of the speaker's published power rating.

This warranty does not cover the cost of parts which would otherwise be provided without charge under this warranty, obtained from any source other than an authorized NHT service location. This warranty does not cover defects or damage caused by the use of unauthorized parts or labor or from improper maintenance.

**Altered, defaced or removed serial numbers void this warranty.**

#### Your Rights

The liability of NHT will be limited to the purchase price of the product, and NHT will not be liable for incidental or consequential damages. NHT limits its obligations under any implied warranties under state laws to a period not exceeding the warranty period. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. The above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

#### To Obtain Service

NHT has appointed a number of authorized service companies throughout the USA should your product ever require service. To receive warranty service, you will need to present your sales receipt showing place and date of original owner's transaction.

To find the name and address of the nearest authorized NHT service location, call:  
**1-800-NHT- 9993**

**Keep this warranty with your sales receipt.  
Record date and place of purchase for future reference.**



# O2

## Outdoor Loudspeaker

## Owner's Manual

**Now Hear This**  
Benicia, CA  
800-NHT-9993  
nhthifi.com