# Professional Active Reference
# 4" Studio Monitors

# uniK 04

# User's Guide

ESI

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# 1. Introduction

Congratulations on your purchase of the ESI uniK 04.

Our active uniK 04 reference studio monitors deliver drastically improved sound distribution with high transparency compared to other speakers of this level. The sound system has been optimized for both phase and level and has been engineered in Germany following extensive tests and measurements. As the smallest model of our uniK series, the uniK 04 pair features many of the distinctive elements of its larger siblings like a special mechanical design that provides an exceptionally rich sound without any unwanted resonance. Just don't get fooled by the remarkable small size, your pair of uniK 04 will be an important part of your recording studio very quickly!

# 2. Basics & Installation

For optimal performance of uniK 04, read the instructions in this manual thoroughly and carefully before you are using the speakers. We tried to keep this manual short so that you are not loosing much time to read through it completely.

### Unpacking / Handling

To remove the monitors from the carton its best to turn the package carefully upside down on the floor or on a table and then lift the carton vertically up slowly to leave the monitors resting in the packaging foam. Make sure that you don't grab the speaker driver units on the front to avoid damage. Now check the monitors for signs of damage that might have occurred in shipping. In the unlikely event of this, please contact the reseller of the product immediately. Be careful when you remove the packaging foam. Please keep all packing materials.

### Connection

High quality balanced or unbalanced audio cables are recommended for input connection. The monitors typically connect to the line level output of a mixing console or to a computer audio card. One monitor has to be connected to power connection, the other monitor is connected via the supplied speaker wire to the first monitor. Make sure the power of the main monitor is switched off before you connect any audio cables. Also turn down the volume initially.

**TRS balanced / unbalanced connection**

Connect male side of TRS balanced or unbalanced cable to the TRS input of uniK 04. Do this for both the left and right audio channels with separate cables. Make sure the power cable is connected as well.
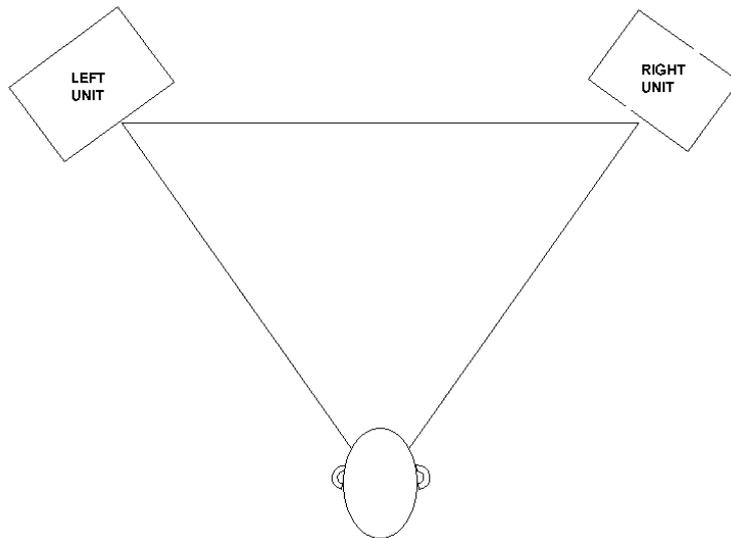
**Second speaker connection**

After that, connect the second speaker with the included speaker wire. Make sure the + / - (red / black) connectors are not swapped with each other to avoid phase problems during playback.

# 3. Placement of the speakers

The placement of monitoring speakers is very critical and can compromise their performance. This is a general rule for every loudspeaker. To monitor with uniK 04 utilizing their maximum capabilities, an appropriate listening environment and a correct placement are important.
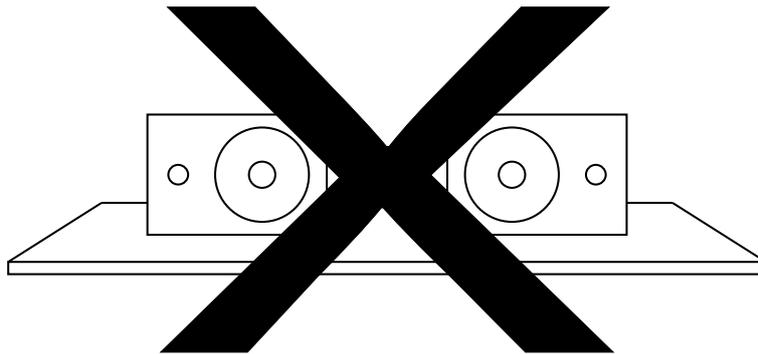
## Positioning

In principle, two units and the listener should be positioned or aligned in a regular triangle form. Please refer to the following diagram to understand how to position your monitors.



## Orientation

It's very important to place the uniK 04 vertically. Never place them horizontally.



## Comments

Please also make sure to not place any obstacles that may block the flow of air or that could generate sound reflections (especially highly reflective material including glass or metal) in front of the speakers. Also, don't put plants in pots on top or too close to your monitoring speakers. Keep a certain distance to the wall behind the speakers, as it could block air flow.

# 4. Technical Data

Please note that technical specifications are subject to change without any prior notice. The specs given in this manual are up-to-date at the time of the creation of this document.

## Specifications

| | |
|---|---|
| Model: | uniK 04 |
| Type: | 2-way, 1 speaker with amplifier, 1 speaker passive |
| System Type: | Active Studio Monitor Speaker |
| Dimensions (W x H x D): | 150 x 210 x 160 mm |
| Weight: | 2,45 kg / 2,1 kg |
| HF Driver: | 1" silk dome tweeter |
| LF Driver: | 4" kevlar curved cone (Magnetic shielding Type) |
| Output Power: | 50W (HF: 30W, LF: 20W) |
| Working Voltage: | AC100-240V  50/60Hz |
| Frequency Response: | 55Hz-20kHz -10dB SPL |
| Input Impedance: | 27kOhm |
| Crossover Point: | 5.7kHz |
| SPL: | 82dB ±3dB @1W / 1M at 300. 400. 500. 600 Hz |
| Rated Noise Power: | 15W  (THD1%, 4ohm load, 1kHz) |
| Input Sensitivity: | 135mV@1W; 525mV@15W (1kHz) |
| Input Connectors: | 2 TRS1/4" balanced / unbalanced inputs |
| Output Connectors: | Output R+ / R- for right passive speaker |
| Volume Control: | Min - Max |
| Indicator: | Power ON: Blue LED |

## Rear Panel

**1. TRS input (Left / Right)** – these jacks accept TRS input connections, either balanced or unbalanced. For balanced connections, a 3-conductor TRS plug is necessary. The TRS input is wired like this:

| INPUT SIGNAL | TRS CONNECTIONS |
|---|---|
| + | Tip |
| - | Ring |
| Shield | Sleeve |

Unbalanced wiring works with either a 2- or 3-conductor TRS connector. A 2-conductor TRS plug (or sometimes also just called TS plug) automatically grounds the minus signal input, whereas a 3-conductor TRS plug wired unbalanced provides the option of leaving the minus open or grounded. We recommend that you ground the unused input.

**2. vent port** – uniK 04 is a vented box speaker system with a vent port on the rear panel. Make sure you are not blocking the vent port (i.e. by putting the speaker too close to a wall) or the sound colour will be changed.

**3. speaker wire connection** – use these connectors to connect the included speaker wire with the second passive uniK 04 speaker.

**4. power switch** – when you push the power switch, uniK 04 will be turned on, and –surprise– it will be turned off when you push the power switch again.

**5. power port with ext. fuse** – use this connector to plug in the detachable 3-circuit line cord that connects to the power outlet. The connector contains a replaceable fuse (T1AL/250V).

## Front Panel

**6. volume control knob** – use the volume control to set the proper output level of uniK 04. Please be careful and never set the volume too high as it could damage your equipment otherwise.

**7. power indicator** – the blue LED on the front shows if uniK 04 is switched on or not.

# 5. General Information

**Trademarks**

ESI, uniK and uniK 04 are trademarks of ESI Audiotechnik GmbH. Other product and brand names are trademarks or registered trademarks of their respective companies.

**Correspondence**

For technical support inquiries, contact your nearest dealer, local distributor or ESI support online at www.esi-audio.com.

**Disclaimer**

All features and specifications subject to change without notice.

Parts of this manual are continually being updated. Please check our web site www.esi-audio.com occasionally for the most recent update information.

## CAUTION

**Risk of electric shock**
**Do not open**
**Risque de shock electrique**
**Ne pas ouvrir**

## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE
PARTS INSIDE. DO NOT EXPOSE THIS EQUIPMENT TO RAIN
OR MOISTURE. REFER SERVICING TO QUALIFIED PERSONNEL.**

## NOTE

**REAR PANEL MAY BECOME TOO HOT TO TOUCH. LEAVE ENOUGH
SPACE FOR VENTILATION. NO ANIMALS WERE HARMED
DURING THE DESIGN OF THIS EQUIPMENT.**

**Designed in Germany
by ESI Audiotechnik GmbH**
**Made in China**