

# AMC

# *iM05*

**Studio**  
Monitor Speakers  
&  
**Architectural**  
Multi-zone Speakers

with  
**Balanced and Unbalanced**  
input connectors for  
Monitoring and architectural  
for fitting up to 500ft CAT5  
cable wiring systems like  
AMC XO, XOi etc.



# USER GUIDE

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CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



AFIN D'EVITER UN CHOC ELECTRIQUE ET LES CONSEQUENCES GRAVES QUI POURRAIENT EN RESULTER, TENETZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE.



PARA REDUCIR EL RIESGO DE SACUDIDAS ELECTRICAS, NO DEBERA QUITARSE LA TAPA (NI PARTE POSTERIOR). CONSULTESE AL PERSONAL CAPACITADO PARA LAS REPARACIONES INTERNAS.

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**ADVERTENCIA:** PARA EVITAR EL RIESGO DE INCENDIO O SACUDIDA ELECTRICA, NO DEBERA EXPONERSE ESTE APARATO A LA LLUVIA O HUMEDAD.

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARISED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

**PRECAUCION:** PARA EVITAR SACUDIDAS ELECTRICAS, NO DEBERA UTILIZARSE ESTA CLAVIJA POLARIZADA CON UN CORDON DE PROLONGACION, RECEPTACULO U OTRO TIPO DE SALIDA A MENOS QUE SE HAYAN INSERTASO COMPLETAMENTE LAS LENGÜETAS PARA EVITAR SU EXPOSICION.

**NOTE:** Some products are equipped with dual or multi-voltage transformers (which is indicated on the back panel). If you wish to change the voltage, please bring your unit to an authorised service technician for internal conversion.

**ATTENTION:** Quelques pièces sont munies de transformateurs à double ou à multi-voltage (indiqué au panneau arrière). Si vous voulez changer le voltage, veuillez apporter votre appareil au fournisseur de pour le transformer.

**ZUR BEACHTUNG:** Einige Geräte sind mit Umschaltern für unterschiedliche Netzspannungen ausgerüstet (Ein Vermerk auf der Rückseite weist darauf hin).

Die Anpassung, wenn notwendig, muß von einem qualifizieren Techniker in einer Servicestation vorgenommen werden.

**NOTA:** Ciertos componentes de están dotados de transformadores de doble tensión o de varias tensiones (lo que se indica en el panel posterior). Si se desea cambiar la tensión, sírvanse llevar el aparato a un técnico autorizado por para su conversión interna.

**NOTE TO CATV systems installer:** This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**NOTA PARA EL INSTALADOR DE ANTENAS DE TELEVISION COLECTIVAS:** La presente advertencia se provee para llamar la atención del instalador al Artículo 820-22 de NEC (Código Eléctrico Nacional) donde se facilitan las directrices para la pertinente puesta a tierra y que especifica en particular que el conductor a tierra del cable debe conectarse al sistema de conexión a tierra del edificio, lo más proximo posible al punto de entrada del cable.



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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: This speaker shall not be placed in the close area during the operation so that the mains switch can be easily accessed by the user.

# IMPORTANT SAFETY INSTRUCTION

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## 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 use 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.

- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



## 7. WALL OR CEILING MOUNTING

This equipment is not designed for use mounted on a wall or a ceiling.

## 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 bookcase or cabinet that may impede the flow of air through the ventilation openings.

At least 30cm free space around the unit for normal ventilation is required.

## 9. HEAT

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

## 10. CLEANING

The appliance should be cleaned only with dry cloth.

## 11. POWER SOURCES

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

## 12. POWER CORD PROTECTION

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

## 13. POLARIZED PLUG

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. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

## 14. UNPLUG POWER CORD

Unplug this apparatus during lightning storms or when unused for long periods of time.

## 15. OBJECT AND LIQUID ENTRY

No object filled with liquids, such as vases, etc. shall be placed on the apparatus.

## 16. ACCESSORIES

Only use attachments/accessories specified by the manufacturer.

## 17. SERVICING

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

## 18. DAMAGE REQUIRING SERVICE

The appliance should be serviced by qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure is damaged.

## Introduction

Sets a new affordable standard in studio monitoring and architectural Multi-zone speakers systems

Thank you for choosing the iM05 bi-amplified studio monitor & Architectural multi-zone speakers.

The AMC iM05 is with Balanced and Unbalanced input connectors for Monitoring and architectural for fitting up to 500ft CAT5 cable wiring systems like AMC XO, XO<sub>i</sub> etc. AMC is well known for digital audio interface technology, digital converters, audio preamps and mixers. Now, after extensive research and development, AMC is proud to present iM05.

The iM05 was designed and tested by veteran audio engineers to meet your needs in a studio monitoring and architectural environment. It is focused on the functional goal of delivering pure, original sound without any additional coloration. The iM05 monitor is self-powered, directly accepting a line level signal from a variety of sources.

The Studiophile iM05 is designed to overcome all the limitations of conventional studio reference monitors within the digital audio environment and so it will also fit architectural applications. This system delivers a wide range frequency response by employing two extraordinary drivers and unique crossover technology licensed by AMC. It boasts a stable and balanced low-mid frequency response along with a defined mid- and high-frequency response as well. Both drivers are magnetically shielded for desktop music production.

For pro engineers at commercial studios to home studio owners and architectural applications, the iM05 sets a new affordable standard in studio monitoring and architectural multi-zone speaker systems.

## What's in the Box?

Your iM05 box contains:

- Two iM05 speakers
- Two detachable AC power cords
- This manual
- One Cable - RCA to TRS

## iM05 Features

### 1. Woofer

The woofer unit is 5 inches in diameter with a magnetically shielded mineral-filled polypropylene cone, high-temperature voice coil and damped rubber surround. It is designed to deliver balanced mid- and low- frequency response. Polypropylene is used to react against the input signals accurately and to deliver even minimal input precisely while minimizing distortion.

### 2. Tweeter

By employing a specially developed dome with magnetic shielding, the tweeter can deliver distortion-free original sound and offer an extremely natural response. It's design minimizes reaction time by using a specially shaped dome for excellent delivery, and also minimizes resonance by adapting a unique internal damping technology.

### 3.Sub-Frequency Port

The air vent hole in the rear panel is called a Sub-Frequency Port and is designed to allow the discharge of extreme low frequencies occurring below 60Hz.

### 4.Enclosure

Like the other components, the iM05's enclosure has an important role in shaping the overall sonic response. In order to provide more stable performance, the iM05's enclosure employs a special high-acoustic efficiency MDF and unique interior reinforcement designed to absorb vibration and impact generated under extreme conditions. The custom design on the front panel will aid in diffraction and will benefit stereo imaging.

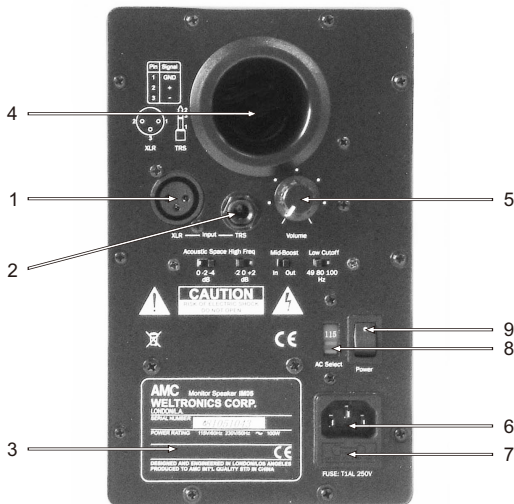
### 5.Network & Power Amplifiers

The active crossover networks and power amplifiers for the iM05 are specially designed for this woofer and tweeter. The network properly distributes low, mid, and high frequencies to the driver components in order to reduce distortion and loss of sound, thus achieving a naturally balanced sound.

In order to generate powerful, ultra-crisp sound, there are two separate power amplifiers inside the iM05 for driving the woofer and tweeter separately in a high-end bi-amp structure. The power delivered to the woofer driver at a low-rated distortion is 40W, and 30W is also delivered to the tweeter.

## Front and Rear Panel Features

### Rear Panel Features



1. **XLR INPUT:** This jack accepts XLR input connections with either balanced or unbalanced wiring. The input wiring of an XLR connector should be as follows:
  - XLR PIN 1 Signal ground (Shield)
  - XLR PIN 2 Signal positive (+)
  - XLR PIN 3 Signal negative (-)
2. **TRS INPUT:** This jack accepts 1/4" connections with either balanced or unbalanced wiring. For balanced wiring, a three-conductor TRS plug is necessary. The input wiring of a TRS connector should be as follows:
  - TRS TIP Signal positive (+)
  - TRS RING Signal negative (-)
  - TRS SLEEVE Signal ground (Shield)

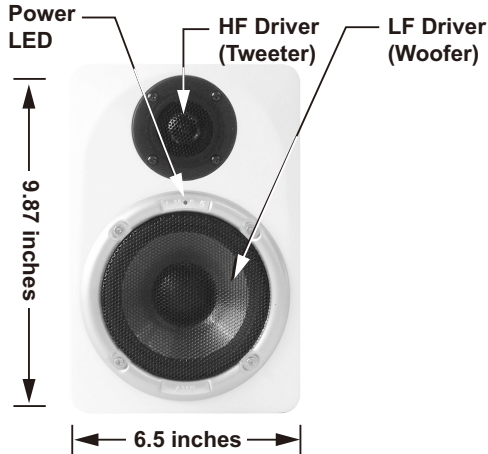
Unbalanced 1/4" wiring can be done with either a two- or three-conductor (TS or TRS) plug. A two-conductor (TS) plug automatically grounds the signal negative input, whereas a three-conductor (TRS) plug, wired unbalanced, provides the option of leaving the negative input open or grounded. We recommend that you ground the unused negative input (this can be done by wiring the ring and sleeve of the TRS plug together).

The TRS input is summed through a balanced input amplifier with the XLR input, allowing both inputs to be used simultaneously. Input specifications apply to both.

3. **PRODUCT SPECIFICATION:** This label contains the model and specification information.
4. **SUB-FREQUENCY PORT:** This port aids in reproduction of very low frequencies by discharging frequencies below 60 Hz.
5. **VOLUME CONTROL:** Use the volume control to set the output sound pressure from the iM05 to proper levels as required.
6. **POWER RECEPTACLE:** Accepts a detachable 3-circuit line cord in order to power the monitor.
7. **FUSE HOLDER:** Holds the external main fuse.
8. **VOLTAGE-SELECT SWITCH:** Provides two selections - 115VAC and 230VAC, and should be set to match the "house supply" (receptacle) voltage of the country or location in which the speaker is used. The 115V setting is correct for the USA, while 230V setting is correct for most of the UK and Europe.
9. **POWER SWITCH:** This switch turns the monitor on and off.

## Front Panel Features

The front panel houses the Power LED, which indicates whether the speakers (amplifier) power is on or off.



## Installation

For optimal performance of the iM05, please read the following thoroughly and carefully prior to installation.

### Precautions

**Handling:** Please do not touch the speaker cones. The iM05 set is packaged in the box tightly, so your attention is required when taking the monitors out of the box. To avoid possible damage to the speaker units, hold both sides of the monitor in order to pull it out of the box. The speaker cones should not be touched in order to avoid damage even after they are out of the box.

**Correct Power Operation:** Since the iM05 contains its own amplifier, it must be connected to a power outlet using the detachable AC cable provided. Before connecting power, please make sure that the Voltage-Select Switch located on the speaker's rear panel is set to the appropriate position, as described in the rear-panel features list appearing earlier in this manual.

**WARNING!** - Use of improper voltage may result in hazardous conditions and/or damage to speaker components not covered by speaker warranty.

**Connections:** You can use either an XLR balanced cable or TRS balanced/unbalanced cable from the input of each iM05 to your corresponding preamp, computer or game console outputs. We recommend that you use high-quality balanced or unbalanced cables for input connections. Also, ALWAYS turn off the power of the iM05 and turn the volume of the iM05 down to a minimum before making the necessary connections.

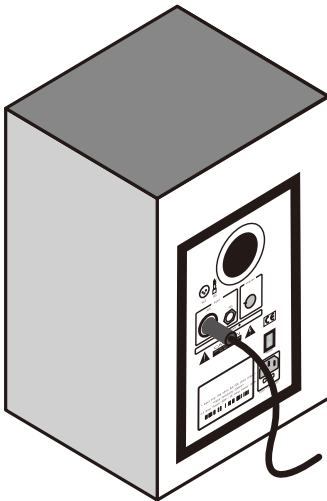


### **XLR Balanced Connection**

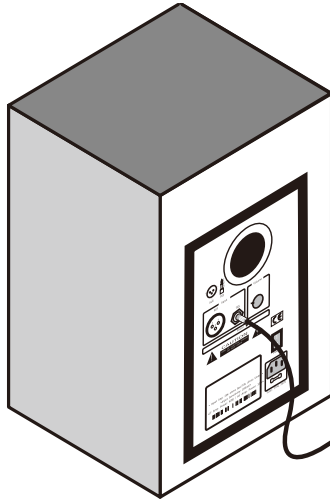
Assure that the power switch of the iM05 is turned off and that the volume control of the iM05 is turned down to a minimum. Connect the male end of an XLR balanced cable to the balanced input of the iM05 (refer to the following diagram for balanced connection).

### **TRS Balanced/Unbalanced Connection**

Assure that the power switch of the iM05 is turned off and that the volume control of the iM05 is turned down to a minimum. Connect the male end of a TRS balanced or TS unbalanced cable to the TRS input of the iM05 (refer to the following diagram for TRS connection).



XLR Balanced Connection



1/4" TRS Balanced or Unbalanced Connection

## **Connecting to Preamp or Computer Outputs**

Before connecting, make sure the output device's power has been turned off. Plug the XLR balanced, TRS balanced or TS unbalanced cable to the corresponding output connectors of a pre-amplifier, computer or game console.

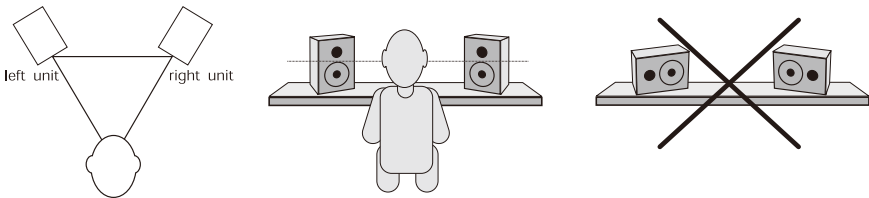
# Placing the iM05

-Studio Monitor Speakers and Architectural Multi-Zone Speakers

## Studio Monitor Speaker Applications

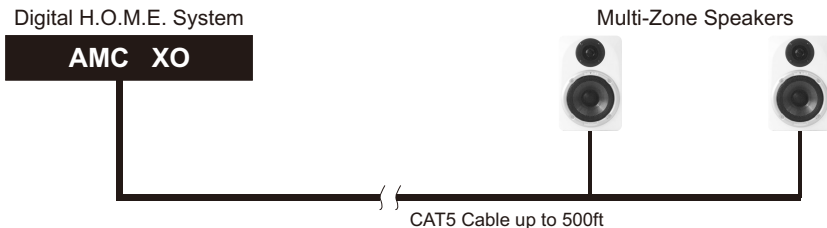
Placing the speakers is one of the most important procedures in order to monitor sound accurately. To monitor with the iM05's performing to their maximum capability, an appropriate listening environment and correct placement are required. Please refer to the following for correct iM05 placement.

1. The two units and the listener should basically align to form a regular triangle. Refer to the following diagram.
2. Position the monitors so that the top of the woofers are level with your ears in a normal listening environment. Refer to the following diagram.
3. Place the iM05's vertically with the woofer on the bottom. Placing the iM05's horizontally is not recommended.



**Remarks:** DO NOT place any obstacles that may block the flow of air in front or between the monitors. Also remove reflective materials such as glass, mirrors or metal from the monitoring environment. PLACE THOSE MATERIALS AWAY FROM THE PATH OF THE SOUND FROM THE iM05's.

## Architectural Multi-zone speaker applications



**Remarks:** Above is a simplified diagram. For detail wiring please refer to brochure of Cable - RCA\_to\_TRS

## Appendix A - Technical Specifications

<b>Type:</b>	2-way studio reference monitors & Architectural Speakers
<b>LF Driver:</b>	5-inch cone with high temperature voice coil and damped rubber surround
<b>HF Driver:</b>	Specially developed dome with magnetic shielding
<b>Frequency Response:</b>	56Hz - 22kHz
<b>Crossover Frequency:</b>	3kHz
<b>LF Amplifier Power:</b>	40W
<b>HF Amplifier Power:</b>	30W
<b>S/N Ratio:</b>	> 100dB typical A-weighted
<b>Input Connectors:</b>	1 x XLR balanced input connector 1 x TRS balanced/unbalanced input connector
<b>Polarity:</b>	Positive signal at + input produces outward LF cone displacement
<b>Input Impedance:</b>	20k ohms balanced, 10k ohms unbalanced
<b>Input Sensitivity:</b>	85mV pink noise input produces 90dBA output SPL at one meter with volume control at maximum
<b>Protection:</b>	RF interference, output current limiting, over temperature, turn-on/off transient, subsonic filter, external main fuse
<b>Indicator:</b>	Blue power on/off indicator on front panel
<b>Power Requirements:</b>	factory programmed either 115V~50/60Hz, 230V~50/60Hz or 100V~50/60Hz
<b>Cabinet:</b>	vinyl-laminated high acoustic efficiency MDF
<b>Dimension:</b>	250 mm (H) x 176 mm (W) x 200 mm (D)
<b>Weight:</b>	5kg/unit (without packing)

\*Above specifications subject to change without notice



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