

**ACOUSTAT**  
Sound by Design



M3

NATURAL SOUND MULTIMEDIA SPEAKER

**OPERATING INSTRUCTIONS**

■ **PRODUCT PROFILE**

The Scandinavian countries are known amongst other things for their outstanding achievements in industry, architecture and industrial design. In the audio industry, Denmark is home to world leaders in the design and production of acoustic solutions and advanced developments in speaker technologies which have been supplied to over 200 world-class audio giants.

Acoustat has combined these qualities and experience of more than 70 years with the efficiency and latest innovation in production techniques of a state of the art manufacturing plant in China to offer a product that will provide supreme audio enjoyment, excellent design and outstanding reliability.

■ **OVERVIEW**

1. **Appearance:**

Elaborately developed by our industrial design team, the M3 is an extended range Hi-Fi Multimedia loudspeaker system that features an elegant and simple design which delivers the next generation acoustics for PC and portable audio devices.

An overview of the speakers confirms them to be efficient, providing a refined, harmonic and natural sound combined with exquisite craftsmanship and a visually pleasing design.

2. **Electro acoustics technology:**

The unit responsible of reproducing the mid and high frequencies features the VM-28AM01-08 driver, an amazing unit especially designed for multimedia applications, which despite its small diameter has an incredibly extended and very uniform frequency response.

- ◆ Its magnetic circuit incorporates a Neodymium magnet which has a magnetic flux over ten times higher than conventional ferrite ones, hence generating a "big sound" effect. The voice coil support made of Kapton guarantees the capability of handling great power bursts, making it easy to deal with high sound pressure levels and large diaphragm displacement associated with digital audio sources.
- ◆ Point acoustic source: The inverted dome diaphragm of this driver has been designed so that the midrange and high frequencies share the same starting point axis, (sound source point), providing a uniform polar response over its full range which results in accurate sound reproduction. Its 20 KHz HP (high frequency upper limit) makes it possible for users to enjoy the highest quality in DVD audio reproduction.

- ◆ A new generation of improved damping suspended edge technology and unique material does not only quickly reflect the transient change of sound, but also reduces sound distortion at great power to very low levels. It is therefore possible to achieve a vivid sound of small signals as well as an undistorted reproduction of large ones.
- ◆ Low Edge Diffraction Design: This is a new, extremely narrow front panel design aimed at maximizing the audio qualities of the unit. The minimization of the width of the enclosure plus edges with accurately designed arcs reduces to a minimum edge diffraction, commonly present in ordinary loudspeaker boxes generally caused by a wide front panel, thus achieving lower sound coloration and enhancing its purity.
- ◆ NR-Cabinet (non resonance cabinet technology): Precise interior reinforcement combined with special sophisticated damping eliminates stray noises, unwanted sound and a strident sensation resulting from resonance, thus delivering a purer acoustical quality.
- ◆ Optimized Airflow Design: The optimized airflow design of the ultra-bass loudspeaker diffuses a lot of harmful vibration and allows the sound energy at the back of the driver to exit at high speed through the airflow optimized sound wave duct at the front of the enclosure resulting in clearer bass response.

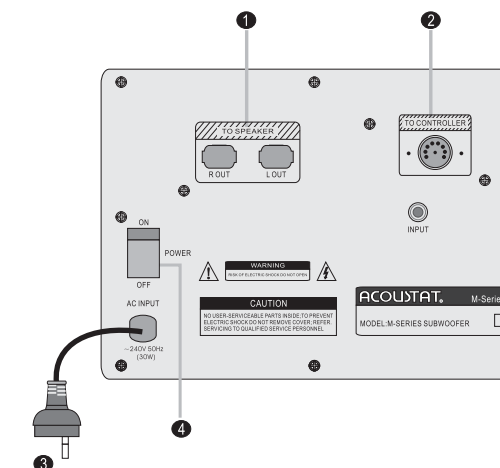
3. **System Technical Features**

To maximize results the following technologies were incorporated to this unit:

- ◆ In terms of the electronics, components of exceptional high standard are used in the design of the M3. Capacitors especially developed for audio frequencies, further enhance filtering and coupling. Highly reliable power amplifier ICs special for audio applications are used in all amplifying stages. A carefully designed heat sink is used to maximize cooling under extreme conditions with a structure that avoids vibration even at very low frequencies.
- ◆ The sleek Audio System Controller incorporates bass level and volume controls plus an earphone input which when connected cancels the speakers.
- ◆ Separate earphone amplifier: The earphone amplifier is a separate circuit integrated in the remote control and compatible with high grade, high impedance earphones.

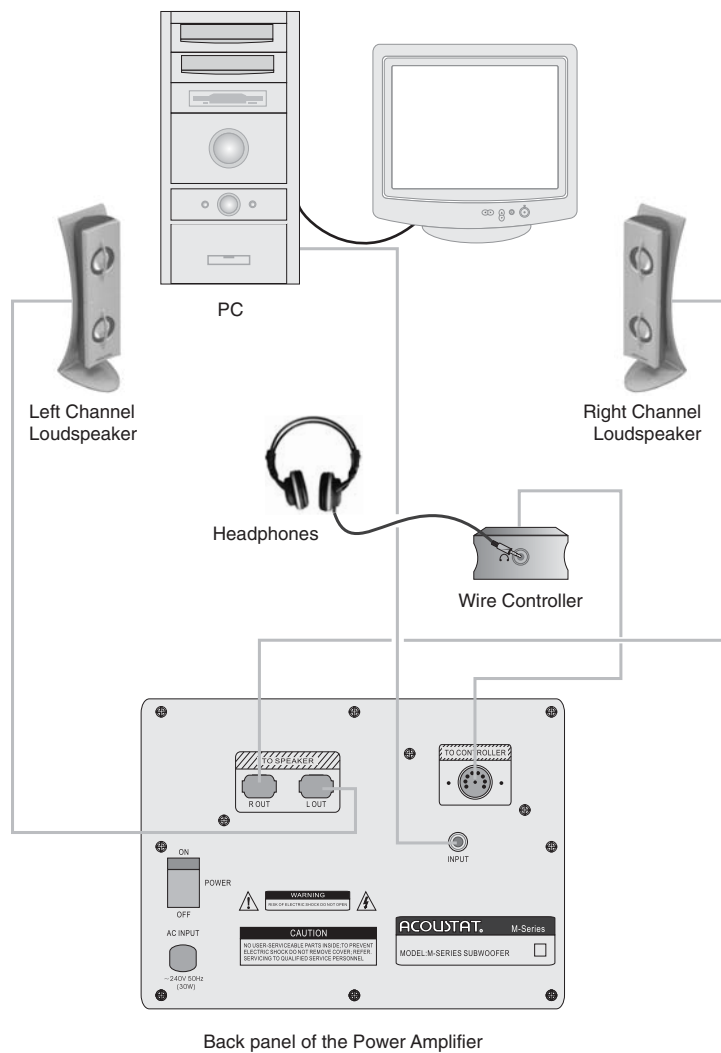
- ◆ High reliability connections: Professional grade connectors used in the system ensure the highest standard of reliability and safety. There are no exposed components on the entire panel that may result in accidents like short circuit. Once connected, all interfaces present better dust proof properties and oxidation resistance than commonly used connectors thus radically preventing poor or contact failure.
- ◆ OFC (High Purity Oxygen Free Copper): Acoustat uses OFC in all high and low signal cables which reduces to a minimum loss of signal due to wire resistance, adding to overall sound quality.
- ◆ Multiple shielded signal line: To maintain purity of signal and reduce external interference Acoustat uses multiple shielded signal lines which provide separate shielding for power supply and signal transmission lines plus overall shielding.

■ **POWER AMPLIFIER BACK PANEL FUNCTIONS**

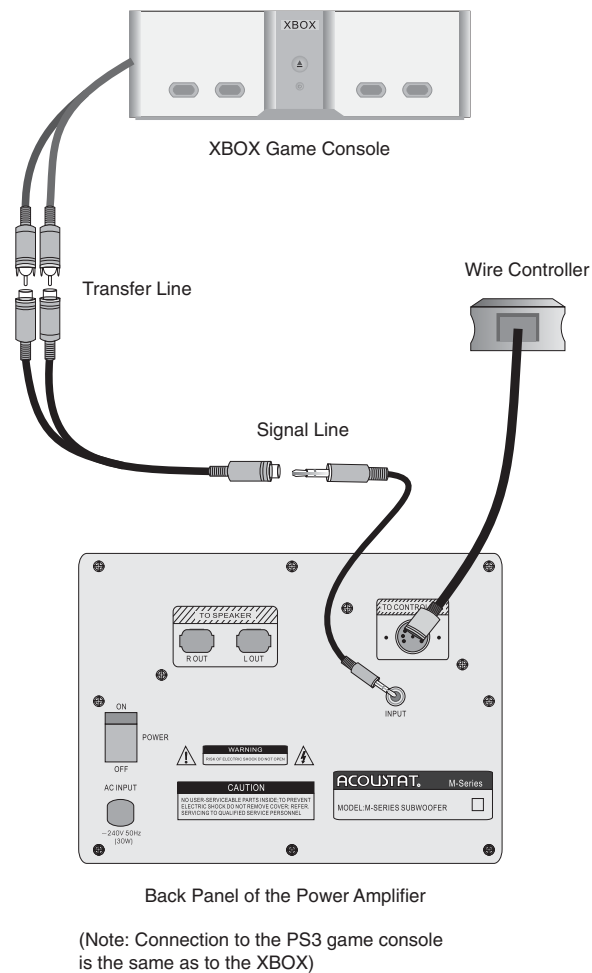


- ① Speaker Output (Left, Right)
- ② Remote Control Interface
- ③ Power Cord
- ④ Power Switch (On, Off)

■ CONNECTIONS

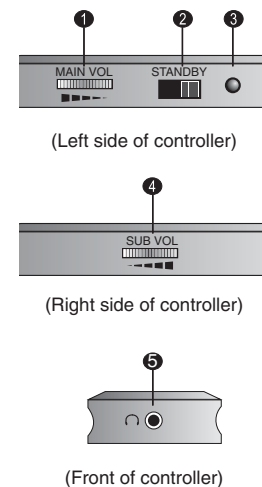


■ CONNECTIONS TO XBOX GAME CONSOLE



■ CONTROLLER FUNCTIONS

- ① Main Volume Control
- ② Standby Switch
- ③ Power Status Light
- ④ Ultra Bass Volume Control
- ⑤ Headphone Socket



■ SPECIFICATIONS

<b>Model</b>	M3 Multimedia Speaker System
<b>Configuration</b>	2 Mid to High Frequency speakers 1 Inversed active subwoofer
<b>Drivers</b>	Mid to high frequency unit VM-28AM01-08 (8 Ohm) x 2 Ultra Low Unit VM-130PL01-04 (4 Ohm) All magnetically shielded for PC compatibility
<b>Power output</b> (Single channel driven)	RMS 5W x 2 + 15W (THD < 1%)
<b>Frequency Response</b>	58 Hz - 20 kHz
<b>Power Consumption</b>	30W
<b>Power Supply</b>	240V/50Hz
<b>Dimensions (W x D x H)</b>	190 x 285 x 300mm
<b>Net Weight</b>	6.15kg

■ ACCESSORIES

- 2 Loudspeaker interconnect cables
- 1 Wired Controller
- 1 Miniplug to 2 RCA adapter
- 1 Signal cable
- 1 User manual
- 1 Warranty form

Note: All designs are subject to change without notice.



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Assembled in China