



M2

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 M2 is an extended range 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 M-2 is an outstanding small foot-print multimedia audio product. To achieve the highest audio quality the material we selected for the M2 enclosure is a Magnalium based metal usually only applied in very high end products.

This material not only provides a great flexibility in being able to be injected into complex and precise shapes but it also completely eliminates negative acoustic qualities described as "coldness" and "harshness" typical of traditional metal boxes and reduces the enclosure resonance to a minimum providing a more real and natural sound.

In terms of driver, for the high and mid frequencies Acoustat incorporates the VM-35PL01-04 full frequency unit, which was specifically developed for multimedia applications.

- ◆ A Neodymium magnet is utilized in this driver. This magnetic material has a better flux density than conventional ferrite magnets used in high grade loudspeakers, laying a solid foundation to create a "big sound". The voice coil support made out of Kapton guarantees the capability of handling great power bursts, making it easy to deal with unexpected high sound pressure levels and large diaphragm displacement associated with digital audio sources.

- ◆ FRLPC (Full Range Linearity Paper Cone) an innovative design for alto and bass units' paper cones is incorporated to this system which lifts the sensitivity and reproduction band characteristics of small diameter loudspeakers to a completely new height. 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 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 enclosure's width plus edges with accurately designed arcs reduces to minimum edge diffraction commonly present in most loudspeaker boxes caused by a wide front panel, thus achieving lower sound coloration and enhancing its purity.
- ◆ The incorporation of a VM passive radiator improves the loudspeaker's enclosure working parameters, maintaining the exceptional effect of the phase-reversed design, avoiding stray airflow noise and producing a more natural sound.
- ◆ NR-Cabinet (non resonance cabinet technology): Precise interior reinforcement combined with special sophisticated damping eliminates stray noises, unwanted sound and strident sensation resulting from resonance, thus delivering a purer acoustical quality
- ◆ Optimized Diffuser for Linear Frequency Response: An arc shaped optimized diffuser (equalizer) for linear frequency response is added to the front of the Acoustat wide range unit's diaphragm which allows the higher frequencies to diffuse outwards after forced compression, achieving a more linear response
- ◆ 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.

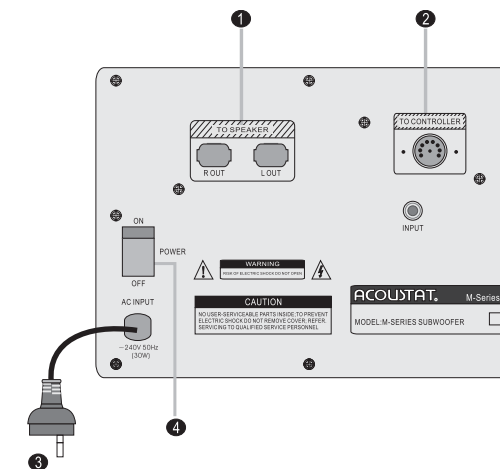
3. System Technical Features

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 M2. 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.

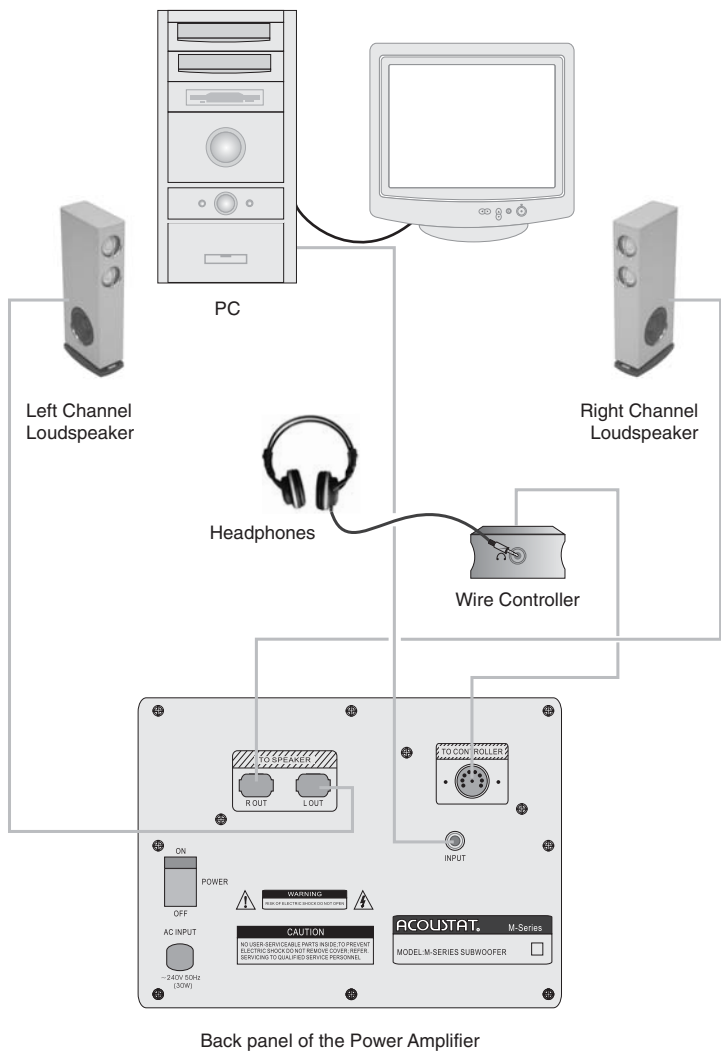
- ◆ The sleek Audio System Controller incorporates bass level and volume controls plus an earphone input which when connected cancels the speakers.
- ◆ Separate earphone amplifier: The earphone amplifier is a separate circuit integrated in the remote control and compatible with high grade, high impedance earphones.
- ◆ High reliability connections: Professional grade connectors used in the system ensures 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 the 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

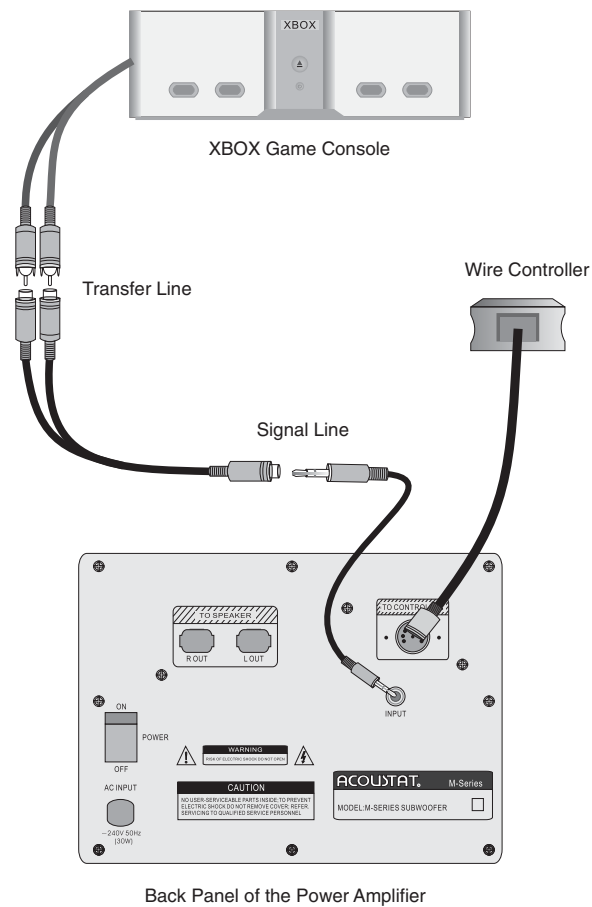


- 1 Speaker Output (Left, Right)
- 2 Remote Control Interface
- 3 Power Cord
- 4 Power Switch (On, Off)

■ CONNECTIONS



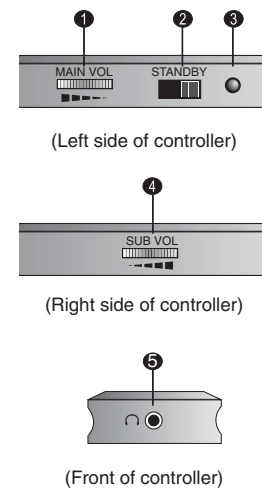
■ CONNECTIONS TO XBOX GAME CONSOLE



(Note: Connection to the PS3 game console is the same as to the XBOX)

■ CONTROLLER FUNCTIONS

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



■ SPECIFICATIONS

Model	M2 Multimedia Speaker System
Configuration	2 Mid to High Frequency speakers combined with a passive radiator 1 Inversed active subwoofer
Drivers	Mid to high frequency unit VM-35PL01-04 (8 Ohm) x 2 Passive radiator VM-63PL01-RS Ultra low unit VM-130PI01-04 (4 Ohm) All magnetically shielded for PC compatibility
Power output (Single channel driven)	RMS 5W x 2 + 15W (THD < 1%)
Frequency Response	58 Hz - 20 kHz
Power Consumption	30W
Power Supply	240V/50Hz
Dimensions (W x D x H)	190 x 285 x 300mm
Net Weight	6.35kg

■ 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.



ACOUSTAT®
Sound by Design

M2

NATURAL SOUND MULTIMEDIA SPEAKER

Assembled in China