

## User Manual



# MONITOR SPEAKERS MS16

High-Performance, Active 16-Watt Personal Monitor System



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### Thank you

Thank you very much for expressing your confidence in us by purchasing the BEHRINGER MONITOR SPEAKERS MS16. The MS16 are active loudspeakers that can be used in a variety of applications, e.g. for your computer setup, MIDI studio or to monitor your keyboards and playbacks. For utmost flexibility, the MS16 feature a broad range of connection options. Two stereo inputs enable you to connect two sound sources. Additionally, we have equipped the MS16 with headphones and microphone connectors so you will enjoy the allround features of your monitor speakers.

## EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



### Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



### Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



### Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.

4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the

apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.



16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

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## LEGAL DISCLAIMER

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British Virgin Islands

## LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at [www.music-group.com/warranty](http://www.music-group.com/warranty).

## 1. Introduction

### 1.1 Shipment

The MS16 were carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

- ❖ **Damaged units should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery of the unit. Otherwise, all claims for replacement/repair may be rendered invalid.**

### 1.2 Initial operation

Please make sure the unit is provided with sufficient ventilation, and never place the MS16 on top of an amplifier or in the vicinity of a heater to avoid the risk of overheating.

- ❖ **Before plugging the unit into a power socket, please make sure that the voltage corresponds to the voltage stated on the label on the backside of your MS16.**

Power is delivered via the cable attached to the unit. All required safety precautions have been adhered to.

### 1.3 Warranty

Please take a few minutes and send us the completely filled out warranty card within 14 days of the date of purchase. You may also register online at behringer.com. The serial number needed for the registration is located on the rear of the unit. Failure to register your product may void future warranty claims.

### 1.4 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/ European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

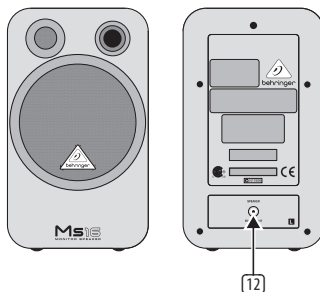
Thank you for your cooperation!

### Attention!

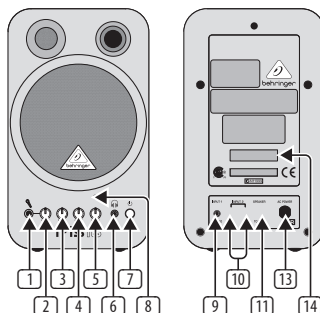
- ❖ **The MS16 loudspeakers are capable of producing extreme volumes. Please bear in mind, that high sound pressures do not only temporarily damage your sense of hearing, but can also cause permanent damage. Be careful to select a suitable volume.**

## 2. Control Elements and Connections

Left Speaker



Right Speaker



- ❶ **MICROPHONE INPUT** (¼" TRS). This connector allows you to connect your dynamic microphone.
  - ❷ Turn the **MIC LEVEL** control to adjust the volume of your microphone. This control should be set fully counterclockwise when connecting a microphone. When all connections are made, slowly start raising gain.
  - ❸ **BASS** control. Turn the bass control to adjust the bass level.
  - ❹ **TREBLE** control. Turn the treble control to adjust the treble level.
  - ❺ Turn the **VOLUME** control to adjust the volume level of the devices connected to your MS16.
- ❖ **We would like to bring your attention to the fact that high volume levels may damage your hearing and/or your headphones. Please turn the VOLUME CONTROL all the way to the left before powering up the unit. Please always pay keen attention to an appropriate volume level.**

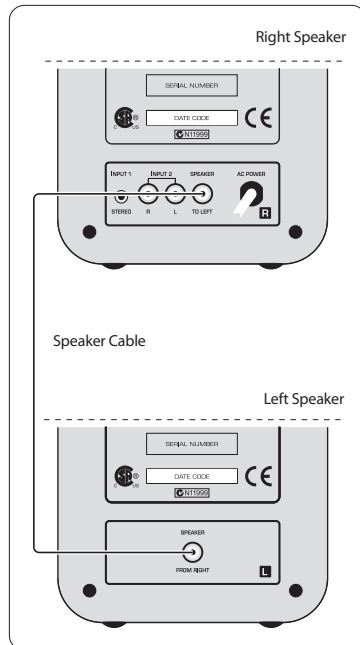
- 6 Connect your headphones via the **PHONES** output (1/8" TRS) to monitor any of the input devices. When headphones are connected, the internal loudspeakers are automatically switched off.
  - 7 The **POWER** switch turns the unit on or off. The **POWER** switch should always be in the "Off" position when you are about to connect your unit to the mains.
- ◆ Please note that the **POWER** switch does not disconnect the device from the mains. If the device is not in use for a long period of time, please disconnect it from the mains by unplugging the power cord from the power socket.
- 8 The **POWER LED** lights up when power is switched on.
  - 9 **INPUT 1** (1/8" TRS) allows you to connect audio equipment such as CD/MD players.
  - 10 Use **INPUT 2** (RCA) to connect your soundcard, keyboard or expander.
- ◆ You can play back various signals by using both stereo inputs simultaneously.
- 11 **SPEAKER TO LEFT** connector. Connect both speakers by using the speaker cable included in this package. As soon as both speakers are properly connected, they will function as a stereo speaker system.
  - 12 **SPEAKER FROM RIGHT** connector. Insert the speaker cable from the SPEAKER TO LEFT connector.
  - 13 **AC POWER** input. Connects your MS16 to the power source. Before you connect the unit to the power source make sure that the power switch is turned off and the volume control is turned to the far left position to avoid any damage to speakers or any other device.
  - 14 **SERIAL NUMBER**. Please take the time to fill in and return the warranty card within 14 days after the date of purchase, so as to benefit from our extended warranty. Or register online at ([behringer.com](http://behringer.com)).

### 3. Wiring and Application Example

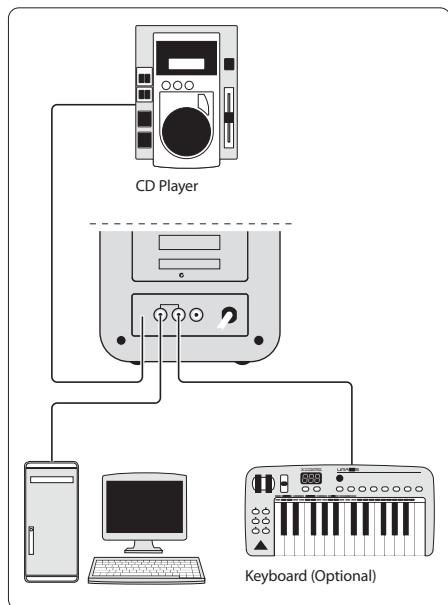
The MONITOR SPEAKERS MS16 are designed to accommodate a variety of different connector types for almost any situation you may encounter.

You will find all audio inputs on the right speaker. The left speaker only has one audio input which is fed from the right speaker.

First of all, you should connect the left to the right speaker by wiring the attached speaker cable from the right speakers' SPEAKER TO LEFT connector to the SPEAKER FROM RIGHT connector of the left speaker.



Connect your soundcards' speaker outputs to the MS16 stereo input. Of course, you can also connect your keyboard or mixer to this input. If you own an additional sound source—such as CD or MD player—simply connect it to the second stereo input. Both input signals are mixed in the MS16 which enables you to monitor two different sound sources simultaneously.



The MS16 are magnetically shielded which allows you to place them near your computer monitor without causing interference or damage.

Do not place your MS16 near power amps to avoid induced hum. To avoid feedback noise, do not get too close to the speakers with a microphone. In case of feedback, change the position of the microphone relative to the speakers or reduce the volume level.

## 4. Specifications

### Loudspeaker

Tweeter	Ø 38 mm (1.5"), 4 Ω
Woofer	Ø 100 mm (4"), 4 Ω

### Audio Inputs

Input 1	1/8" TRS stereo, input level -10 dBm, 10 kΩ
Input 2	2 RCA stereo, input level -10 dBm, 10 kΩ
Mic	1/4" TRS, input level -50 dBm, 50 Ω

### System Specifications

Output power	2 x 8 Watts
Frequency response	80 Hz to 20 kHz

### Power Supply

#### Mains Voltages

USA/Canada	120 V~, 60 Hz
Europe/U.K./Australia	230 V~, 50 Hz
Japan	100 V~, 50 - 60 Hz
General export model	120/230 V~, 50 - 60 Hz
Power consumption	0.14 x 0.28 x 0.33 A 230 x 120 x 100 V

### Physical

Dimensions (H x W x D)	5 1/2 x 5 9/16 x 9 1/2" 140 x 150 x 241 mm
Weight	right: 4 2/3 lbs / 2.1 kg, left: 3 lbs / 1.4 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.



We Hear You