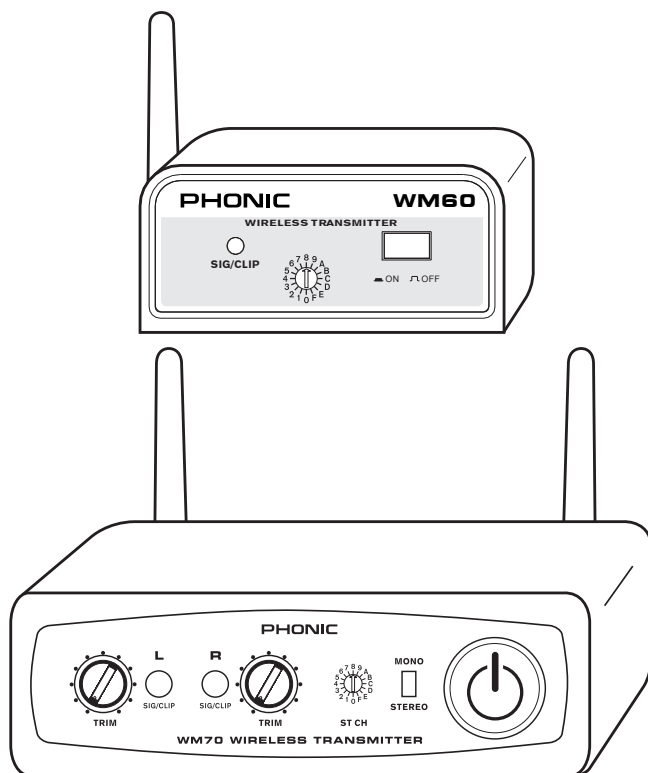


# PHONIC

## WM Series

Wireless Gear For The Performer Speakers



ENGLISH



User's Manual

## IMPORTANT SAFETY INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

**Warning:** the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.
2. Keep these instructions for future reference.
3. Heed all warnings to ensure safe operation.
4. Follow all instructions provided in this document.
5. Do not use this apparatus near water or in locations where condensation may occur.
6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.
7. Do not block any of the 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 is 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 plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a 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.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to 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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.



# WM Series

Wireless Gear For The Performer Speakers

## USER'S MANUAL

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## INTRODUCTION

Congratulations on your purchase of the WM series of wireless accessories for the Performer speakers. With either the stereo or mono WM kits, you are now fast on your way to becoming completely wireless in your audio set up. The WM modules are not only fantastic in style and convenience, however; they are incredibly easy to use, as this manual will no doubt prove.

Please have a thorough read of this user's manual before operating the WM modules. Inside this guide you will find information on the ease of your wireless set up, as well as some great troubleshooting tips and a complete run-down on your modules' features. After reading, place the manual in an easy to remember place so that you can come back to it in future if ever necessary.

## SYSTEM COMPONENTS

### ***WM-SYS1 includes:***

1x WM60 single channel transmitter  
1x WM40-L receiver module

### ***WM-SYS2 includes:***

1x WM70 dual channel transmitter  
1x WM40-L left channel receiver module  
1x WM40-R right channel receiver module

## FEATURES

### **Common Features**

- Operates on a UHF band, 614~870MHz
- 16 selectable UHF channels preset
- Internal squelch and mute circuit mode can resist extraneous noise
- Space-saving integrated compact module

### **WM60 Additional Features**

- Single channel stand-alone transmitter
- Signal/Clip indicator
- External power supply

### **WM70 Additional Features**

- Dual channel stand-alone transmitter
- Signal/Clip indicator
- Volume control to set the appropriate level to avoid clip
- Mono/Stereo switch for easy setting in mono or stereo sound system
- 16 preset channel encoder will decide the left and right channel frequencies automatically
- External power supply

### **WM40-L & WM40-R Additional Features**

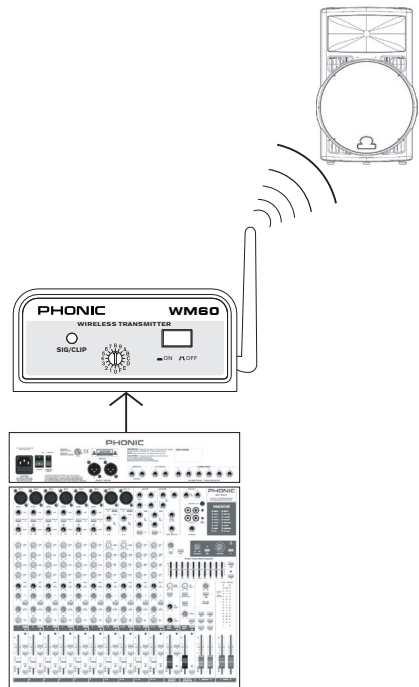
- Left or Right channel receiver module to be installed in any Phonic Performer powered speaker
- Power indicator
- True diversity receiving mode

## QUICK SETUP

### Single Channel Setup

With any one performer speaker, users are able to wirelessly send a monaural signal through the **WM60** transmitter and **WM40-L** receiver.

1. Plug the mixer's main output (with a line-level signal) to either the XLR or 1/4" input of the WM60 transmitter.
2. Connect the provided DC power supply to the WM60's power input and an appropriate AC power source and turn it on.
3. Adjust the channel on both the WM60 and WM40-L so they are identical. If you wish to send and receive a signal successfully, this is of utmost importance!
4. Adjust the WM60's antenna into a vertical position.
5. Slide the WM40-L receiver into the Performer's Wireless Module Receptacle on the top right hand side of the speaker (right hand side, when facing the rear of the speaker) and screw it into place. Be sure to move the module's antennas (protruding from the case) to either side of the module. Ideally, the antennas should be taped to the wall of the module slot.
6. Set the WIRELESS / WIRELESS MIC switch on the rear panel of the performer speaker to the "Wireless" Position, and set the wireless volume control to around the 3 o'clock position.
7. Turn the WM60 on first, then the Performer Speaker.
8. Provided you have a signal going out of your mixer, and your Speaker is turned on, the wireless transmission should be working.

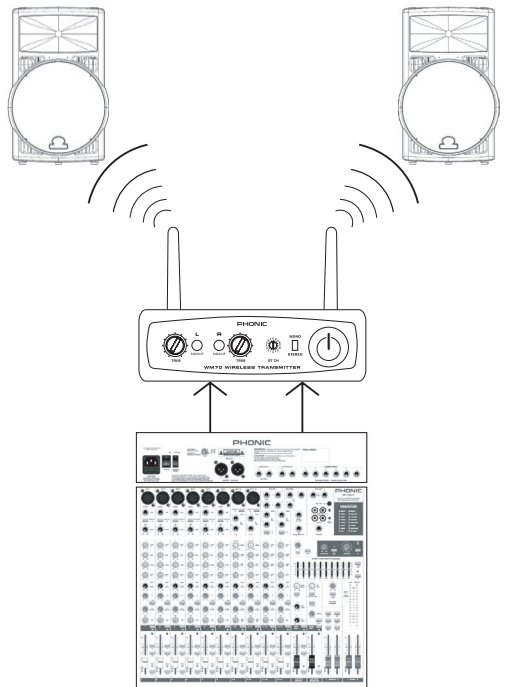


## Dual Channel Setup

With any performer speakers, users are able to wirelessly send stereo signals through the **WM70** transmitter and **WM40-L / WM40-R** receivers.

1. Plug the mixer's main stereo output (with a line-level signal) to the left and right inputs (both XLR and 1/4" inputs can be connected to the combo-jacks) of the WM70 transmitter.
2. Connect the provided DC power supply to the WM70's power input and an appropriate AC power source.
3. Adjust the channel on the WM70 and both WM40s so they are identical. If you wish to send and receive a signal successfully, this is of utmost importance!
4. Make sure the WM70 is switched to "stereo" mode. Turn the left and right level controls to around the 3 o'clock position.
5. Insert the left and right antennas into the left and right antenna plugs on the WM70, and leave them sitting vertically for the best range.
6. You can then insert the WM40-L and WM40-R receiver modules into the Performers' wireless module receptacles on the top right hand side (when facing the rear of the speaker) of the speakers (Use the WM40-L on your left speaker, the WM40-R on your right). Move the modules' antennas (protruding from the case) and tape them to each side of the module slot.

7. Set the WIRELESS / WIRELESS MIC switch on the rear panel of the performer speaker to the "Wireless" Position-, and set the wireless volume control to around the 3 o'clock position.
8. Turn the WM70 on first, then the Performer Speaker.
9. Provided you have a signal going out of your mixer, and your Speaker is turned on, the wireless transmission should be working.



## **TROUBLESHOOTING**

### ***No signal?***

- Ensure both transmitter and receiver are set to the same channel.
- Check the power lights on both receiver and transmitter. If one of them is off, check the device's power supply is connected correctly.
- Make sure the "wireless" volume control on the Performer speakers is turned up.

### ***Weak signal?***

- Try maintaining a better line-of-site connection between the transmitter and receiver.
- Change both transmitter and receiver to a new frequency.

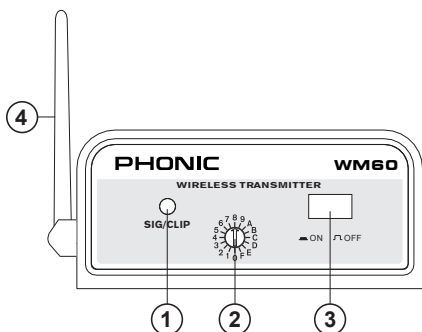
### ***Poor quality signal?***

- It is important to remember that no other devices should be sending signals on the same frequency channel that you are using.
- If no other device can be found on the same frequency channel, find another suitable channel.

## WM60 TRANSMITTER

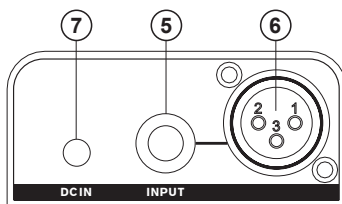
### Front Panel

1. **Sig/Clip Indicator**– the LED indicator will light up green when a signal is being received by the WM60 transmitter. It will turn red when the signal level becomes excessive, just 4dB before clipping.
2. **Channel Selector**– adjusting this dial to one of the preset channels allows the WM60 to know which frequency to send the wireless information at. The wireless receiver should be set to the identical channel if transmission is to occur successfully.
3. **On/Off Button**– this button turns the WM60 on and off.
4. **Antenna**– this is the WM60's antenna. Adjust it so it sits in a vertical position when the device is in use (change the position if the wireless signal quality is poor). Push the antenna in to release it before adjusting its position.



### Rear Panel

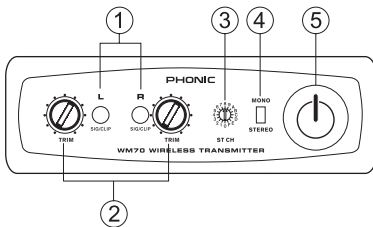
5. **1/4" Input**– this jack accepts balanced and unbalanced 1/4" inputs from line-level sources.
6. **XLR Input**– this jack accepts balanced XLR inputs from line-level sources. Both the 1/4" jack and the XLR jack run in parallel.
7. **DC In**– plug DC end of the supplied DC power adaptor into this jack, and the other end into a suitable AC power source to allow the WM60 to be powered.



## WM70 TRANSMITTER

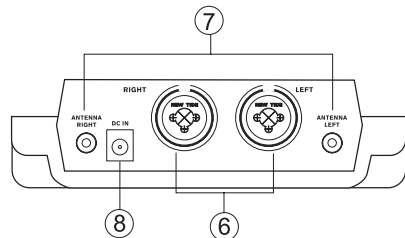
### Front Panel

1. **Left and Right Sig/Clip Indicators** – the LED indicator will light up green when a signal is being received by the WM70 transmitter. It will change to red when the signal level becomes excessive, just 4dB before clipping.
2. **Trim Control** – these controls adjust the level of the signal received via the Combo inputs on the rear that will be sent wirelessly.
3. **Channel Selector** – adjusting this dial to one of the preset channels allows the WM70 to know which frequency to send the wireless information at. Each preset channel will transmit both the left and right signals, so that the WM40-L and WM40-R wireless receivers (if set to the identical channel) will receive the signal successfully.
4. **Stereo/Mono Selector** – This will allow users to change the wireless signal sent from the WM70 to be alternated between a mono and stereo signal.
5. **On/Off Button** – this button turns the WM70 on and off. An LED will illuminate under this button when it is on.



### Rear Panel

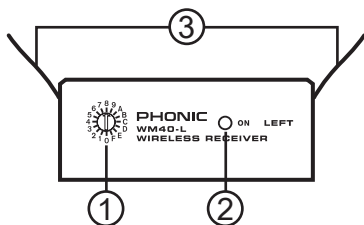
6. **Left and Right Combo Input** – this jack accepts both balanced and unbalanced 1/4" and XLR inputs from line-level sources (such as the main output of a mixer).
7. **Left and Right Antennas** – this for the insertion of the WM70's left and right antennas. Insert the antennas and adjust them to sit in a vertical position when the device is in use. Screw the antenna in to lock it into place.
8. **DC In** – plug DC end of the supplied DC power adaptor into this jack, and the other end into a suitable AC power source to allow the WM70 to be powered.



## WM40-L AND WM40-R RECEIVERS

Insert the wireless receivers into the Active Performer Speakers to allow them to receive signals sent by the wireless transmitters. These modules should be inserted and fixed into the right hand side (when facing the rear of the speaker) compartment at the top of the speaker, and screwed into place with an M3x4 screw.

1. **Channel Selector** – adjusting this dial to one of the preset channels allows the WM40 to know which frequency to look for the wireless information. The wireless transmitter should be set to the identical channel if transmission is to occur successfully.
2. **On Indicator** – this LED indicator illuminates when the WM40 Receiver is powered.
3. **Antenna** – The wireless receiver's antenna comes in the form of 2 small wires protruding from the casing. When you insert the module into the appropriate slot on the Performer speaker, it is best to sticky-tape the antennas to either side of the compartment wall.

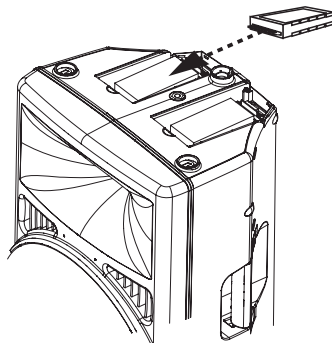


## IMPORTANT

Whenever using the WM40L or WM40R, the included short pin should be inserted into the unused wireless microphone module slot to enable the wireless module to be used.

## INSTALLING THE WM40-L AND WM40-R IN THE PERFORMER SPEAKERS

1. Unscrew the module cover (on the top-right, while facing the rear of the speaker) on the Performer speaker.
2. Slide the WM40 module into the socket.
3. Use the provided screw to fasten the WM40 module to the Performer speaker.
4. Use sticky – tape to attach the 2 antenna wires to the rear-inner wall of the module slot, ensuring they do not cross one another. This will allow for greater quality of reception.
5. Replace the module cover.



## **SPECIFICATIONS**

### **WM60**

**Type** : Single Channel Transmitter  
**RF Frequency** : 614 ~ 870 MHz  
**Oscillation Type** : PLL  
**Preset Channels** : 16 Channels  
**Frequency Response** : 50 Hz ~ 18 kHz  $\pm 3$ dB  
**Bandwidth** : 24 MHz  
**Stability** :  $\pm 0.005\%$   
**Frequency Deviation** :  $\pm 40$  kHz  
**LED Indicators** : Power On/Off, Sig/Clip  
**Power** : External Adaptor, 12 VDC  
**Output Power** : <50 mW

### **WM70**

**Type** : Dual Channel Transmitter  
**RF Frequency** : 614 ~ 870 MHz  
**Oscillation Type** : PLL  
**Preset Channels** : 16 Channels (stereo)  
**Frequency Response** : 50 Hz ~ 18 kHz  $\pm 3$ dB  
**Bandwidth** : 24 MHz  
**Stability** :  $\pm 0.005\%$   
**Frequency Deviation** :  $\pm 40$  kHz  
**LED Indicators** : Power On/Off, Sig/Clip  
**Power** : External Adaptor, 12 VDC  
**Output Power** : <50 mW

### **WM40-L and WM40-R**

**Type** : Single Channel Receiver  
**Preset Channels** : 16 Channels  
**RF Frequency** : 614 ~ 870 MHz  
**Frequency Stability** :  $\pm 0.005\%$   
**S/N Ratio** : >100 dB  
**RF Sensitivity** : -100 dBm  
**Image Rejection** : 75 dB  
**T.H.D.** : <0.5% @ 1 kHz  
**LED Indicator** : Power On  
**AF Output Impedance** : 600 $\Omega$  Unbalanced  
**Squelch** : Pilot Tone & Noise Mute  
**Operation Voltage** : 6 ~ 8 VDC, 500 mA

## **TO PURCHASE ADDITIONAL PHONIC GEAR AND ACCESSORIES**

To purchase Phonic gear and optional accessories, contact any authorized Phonic distributor. For a list of Phonic distributors please visit our website at [www.phonic.com](http://www.phonic.com) and click on Get Gear. You may also contact Phonic directly and we will assist you in locating a distributor near you.

## **SERVICE AND REPAIR**

Phonic has over 100 service centers worldwide. For replacement parts, service and repairs please contact the Phonic distributor in your country. Phonic does not release service manuals to consumers, and advice users to not attempt any self repairs, as doing so voids all warranties. You can locate a dealer near you at [www.phonic.com](http://www.phonic.com).

## **WARRANTY INFORMATION**

Phonic stands behind every product we make with a no-hassles warranty. Warranty coverage may be extended, depending on your region. Phonic Corporation warrants this product for a minimum of one year from the original date of purchase against defects in material and workmanship under use as instructed by the user's manual. Phonic, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. No returns or repairs will be accepted without a proper RMA number (return merchandise authorization). In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. Any tempering of the product or attempts of self repair voids all warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence. This warranty is valid only if the product was purchased new from an authorized Phonic dealer/distributor. For complete warranty policy information, please visit <http://www.phonic.com>.

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