



Unlike any others ... that's cost & value for you

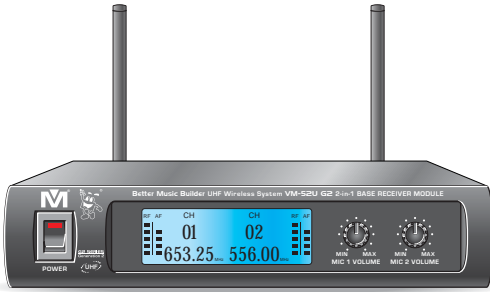
Professional UHF Wireless Microphone System

VM-52U G2

Operating Instructions



Frequency Selectable



2-in-1 Base Module ***1 Receive Module with 2 Wireless Microphones System

Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

Passionate about Music
www.BetterMusicBuilder.com

CONTENTS



INTRODUCTION..... 1



SYSTEM FEATURES..... 1



PACKAGE ACCESSORIES..... 2



2-in-1 BASE MODULE..... 3

- Controls and Functions..... 3~4
- Hardware Setup..... 5~6



HAND-HELD MICROPHONE..... 7

- Controls and Functions..... 7



OPERATION..... 9

- How to Insert/change Batteries of Microphone..... 12
- How to Tell When Microphone is Ready to be Used..... 9
- How to Adjust Microphone Volume..... 9
- How to Turn On/Off Microphone..... 9
- How to Interchange Microphone Head..... 9



TECHNICAL SPECIFICATION..... 10



TROUBLESHOOTING..... 11~12



APPENDIX..... 13



WARRANTY..... 14



INTRODUCTION

If you're looking for simplicity, look no further! The Better Music Builder VM-52U G2 Wireless Microphone is as streamlined as it gets without hindering performance. It requires no setup as it is ready to go out of the box. Its light weight design features dual wireless microphones and balanced XLR audio signal to improve sound quality.

VM-52U G2 Wireless Microphone features Clear Voice, delivering crystal clearer sound quality that pro audio engineers trust. Gone are unpleasant artifact noises wireless microphones are known to emit. What you get is a cleaner, clearer sound at all audio levels.

With years of experience designing wireless microphone system, we at Better Music Builder understand the problem with short battery life. Through intensive research we have developed a better power management system to help extend our wireless microphone battery life.

Its predecessor VM-52U was our best-selling wireless microphone and we believe VM-52U G2 will do the same.



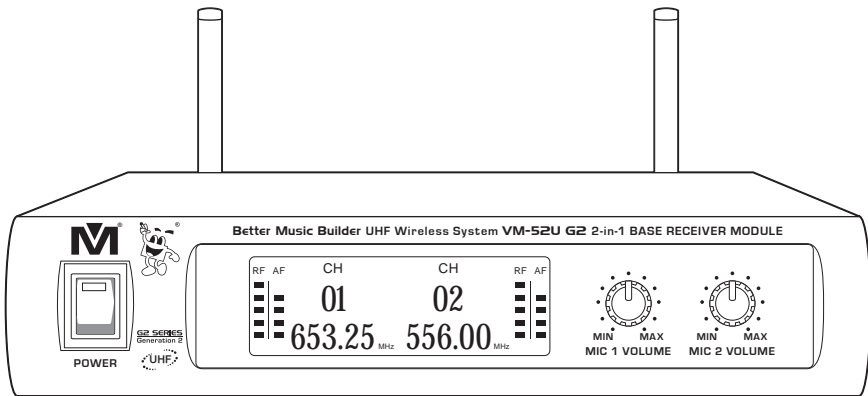
SYSTEM FEATURES

1. Equipped with the latest wireless technology and UHF dual-channel in a 2-in-1 Base Module to pick up weak signals and prevent signal interference.
2. Clear LCD screen displaying Frequency, Channel, Audio Frequency and Radio Frequency.
3. Clear Voice delivering crystal clearer sound just like a wired microphone.
4. No setup required.
5. 6~8 hours of battery life.
6. Light weight mounting design for portability.
7. Adjustable antennas for better signal receiving.
8. AA battery usage for easy handling.

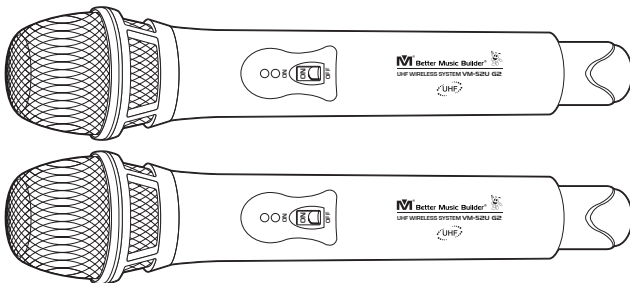


PACKAGE ACCESSORIES

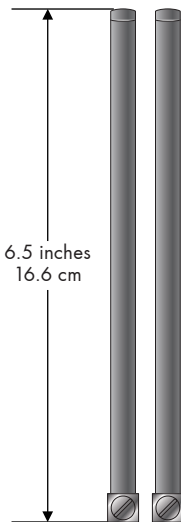
The package comes with one 2-in-1 Base Module [Receiver], two handheld microphones, two receiver antennas, one DC adaptor, one unbalance audio cable, and four AA batteries.



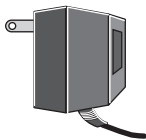
2-IN-1 BASE MODULE [RECEIVER]: 1 SET



HANDHELD MICROPHONE: SET of 2



RECEIVER ANTENNA: 2 UNITS

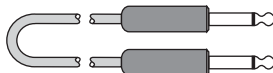


DC POWER ADAPTOR: 1 UNIT



AA (1.5V) BATTERY: 4 UNITS

NOTE DC-POWER USAGE: This wireless microphone system is designed specifically for the North American market, which uses 120V for DC power. For usage in Asia or Europe, please change it to 220V by an adaptor with DC 14V output 500mA.



AUDIO CABLE (FOR MIXED OUTPUT): 1 UNIT

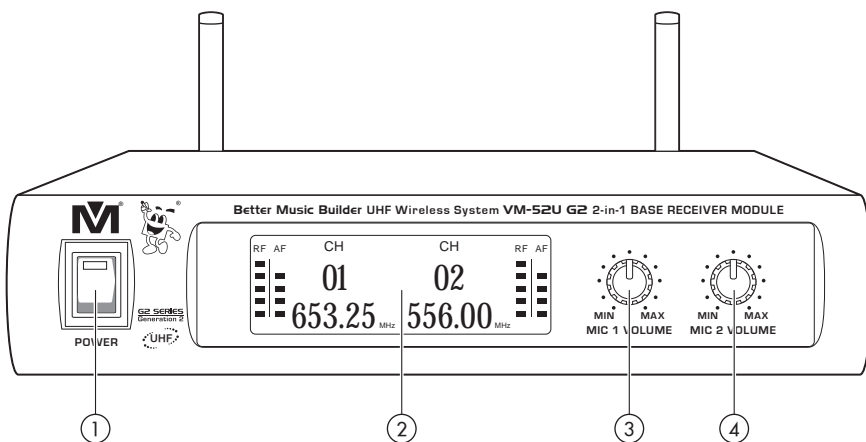


For better quality connections, a XLR to XLR cable is highly recommended.



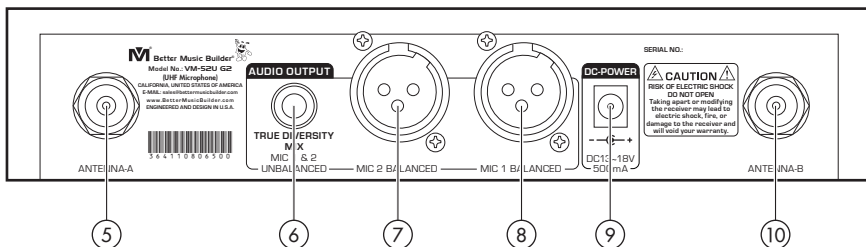
2-in-1 BASE MODULE [RECEIVER]

CONTROLS AND FUNCTIONS



FRONT PANEL:

1. **POWER SWITCH:** Turns the system on/off.
2. **LCD SCREEN:** Displays system status.
3. **MIC 1 VOLUME CONTROL:** Controls Microphone 1 volume.
4. **MIC 2 VOLUME CONTROL:** Controls Microphone 2 volume.

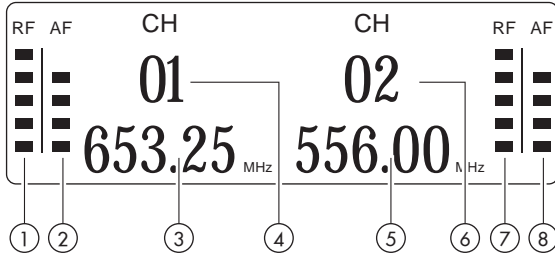


REAR PANEL:

5. **ANTENNA-A:** Connect the antenna to the BNC socket here.
6. **MIXED OUTPUT:** Unbalanced 1/4" audio output for MIC 1 & MIC 2.
7. **MIC 2 BALANCED OUTPUT:** Balanced XLR audio output.
8. **MIC 1 BALANCED OUTPUT:** Balanced XLR audio output.
9. **POWER SUPPLY:** Removable adapter with DC13-18V 500mA.
10. **ANTENNA-B:** Connect the antenna to the BNC socket here.

LCD PANEL:

After turning on the "POWER" button, LCD screen will display the following:



1. MIC 1 RADIO FREQUENCY: Strength indicator of radio signal.
2. MIC 1 AUDIO FREQUENCY: Strength indicator of incoming audio signal.
3. MIC 1 FREQUENCY: Displays the current frequency.
4. MIC 1 CHANNEL: Displays the current channel.
5. MIC 2 FREQUENCY: Displays the current frequency.
6. MIC 2 CHANNEL: Displays the current channel.
7. MIC 2 RADIO FREQUENCY: Strength indicator of radio signal.
8. MIC 2 AUDIO FREQUENCY: Strength indicator of incoming audio signal.



HARDWARE SETUP

HOW TO CONNECT AUDIO OUTPUT:

There are three rear outputs as shown in the below diagram:

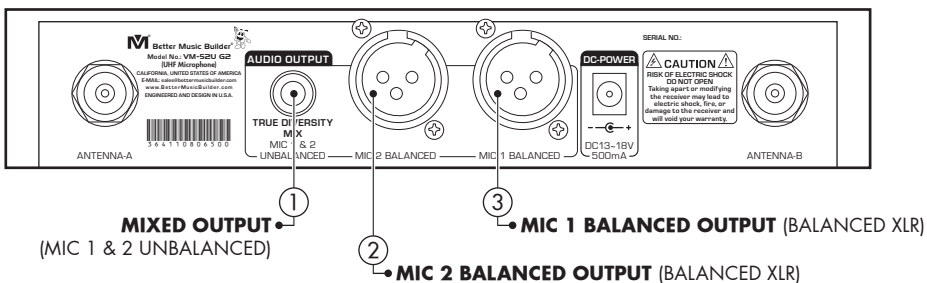
MIXED OUTPUT is unbalanced audio output for MIC 1 & MIC 2 using 1/4" connection. When using this output, MIC 1 and MIC 2 have to share a signal. To produce different effects on each microphone, MIC 1 and MIC 2 need their own signals which can be done by using XLR connections.

MIC 1 BALANCED OUTPUT is balanced audio output for MIC 2 using XLR connection. When using this output, you can change MIC 2 effects without affecting MIC 1 effects.

MIC 2 BALANCED OUTPUT is balanced audio output for MIC 2 using XLR connection. When using this output, you can change MIC 2 effects without affecting MIC 1 effects.



We highly recommend using balanced XLR connections if the distance between the microphone receiver and the amplifier/mixer is more than 10 feet. The grounding of the balanced XLR connection delivers better quality signal by reducing noise.



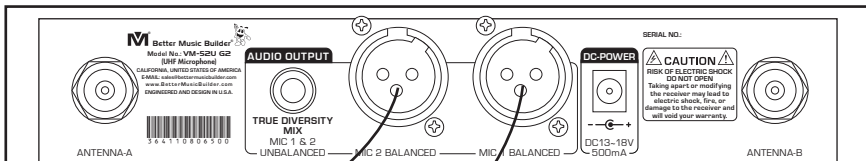
UHF WIRELESS SYSTEM DIAGRAM:



MIC 1 HANDHELD MICROPHONE

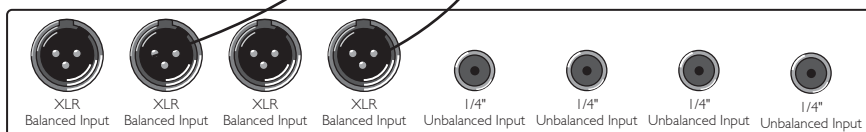


MIC 2 HANDHELD MICROPHONE



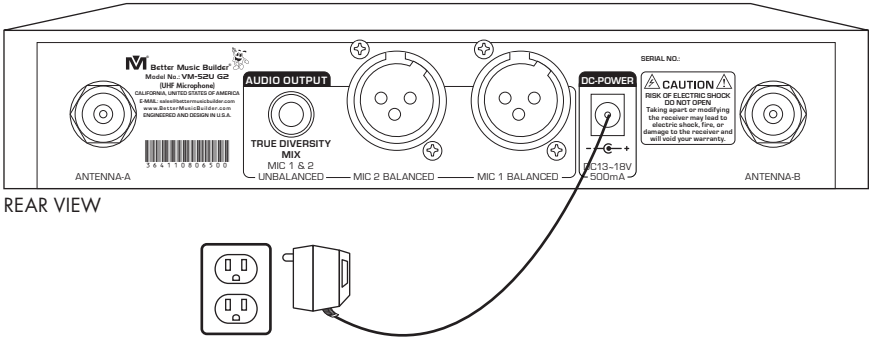
REAR VIEW

BALANCED CONNECTION



AUDIO MIXER AMPLIFIER OR A KARAOKE UNIT INPUT TERMINAL

HOW TO CONNECT DC-POWER:

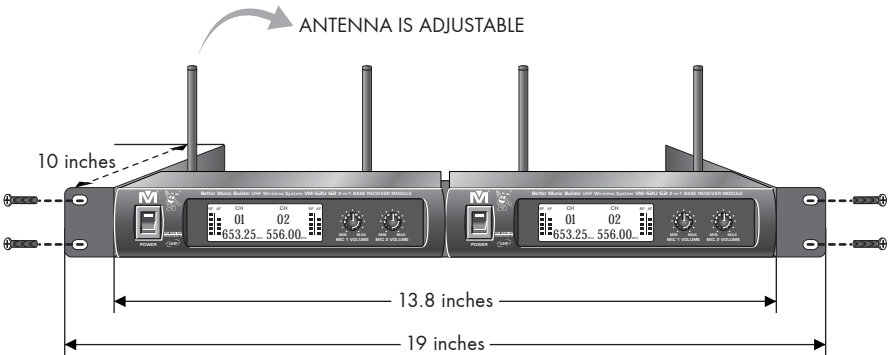


For North America Market, use 120V, DC 14~22V 500mA adaptor. For market outside North America, use 220V~ 240V DC adaptor with a maximum battery capacity of 500mA.

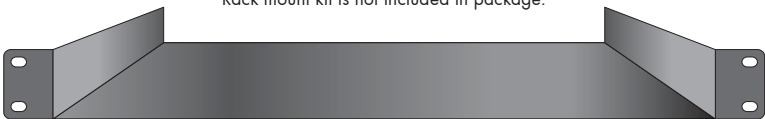
NOTE Please make sure to use the right DC adaptor. Otherwise, it may damage the 2-in-1 Base Module and the charger because their maximum battery capacity is different. The product warranty will be voided if there is damage caused by using the wrong DC adaptor.

OPTIONAL 19" RACK MOUNT KIT:

To put the system onto a mount-kit, please follow the diagram below. Our special design allow it to be mounted on a DJ rack.



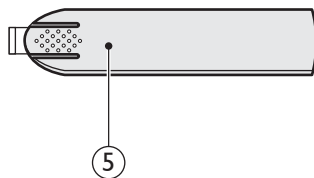
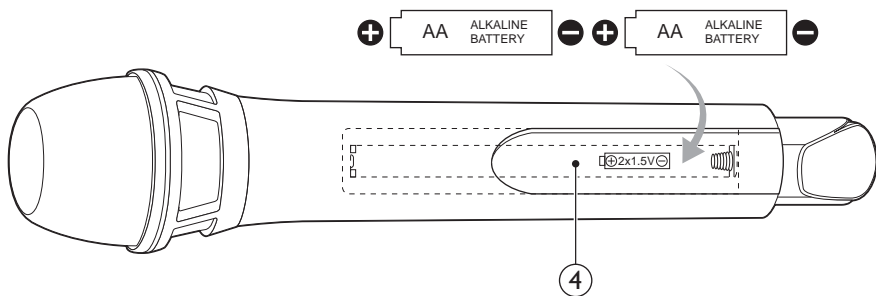
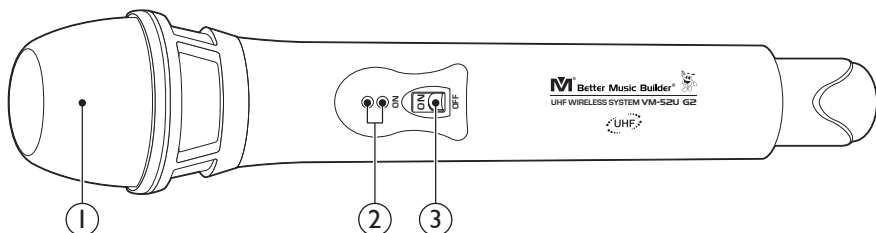
Rack mount kit is not included in package.





HANDHELD MICROPHONE

CONTROLS AND FUNCTIONS



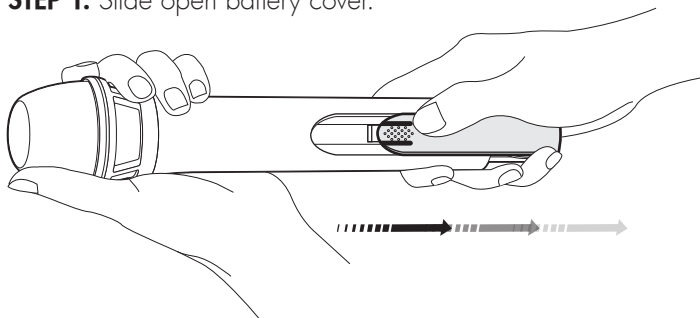
1. INTERCHANGEABLE MICROPHONE HEAD
2. POWER INDICATOR LED: Flashes when batteries are low.
3. POWER SWITCH: Powers ON/OFF and MUTE.
4. BATTERY COMPARTMENT: Insert two 1.5V AA batteries or two 1.2V rechargeable batteries .
5. VARIABLE BATTERY COVER



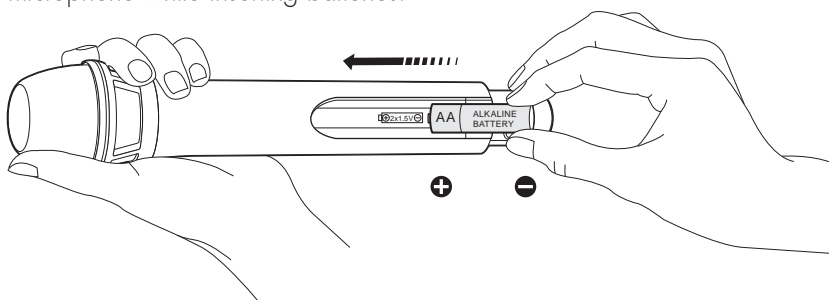
OPERATION

HOW TO INSERT/CHANGE BATTERIES OF MICROPHONE

STEP 1: Slide open battery cover.



STEP 2: Hold the top of the microphone with one hand and with the other hand slide two AA batteries into the battery compartment. Be careful not to drop microphone while inserting batteries.



! Make sure to follow the polarity of the battery according to the diagram.

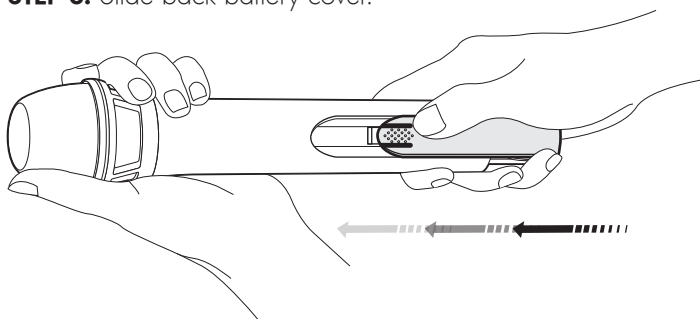
Good



No Good



STEP 3: Slide back battery cover.



HOW TO TELL WHEN MICROPHONE IS READY TO BE USED

After turning on the handheld microphone, pay attention to the RADIO FREQUENCY (RF) on the receiver's LCD SCREEN.

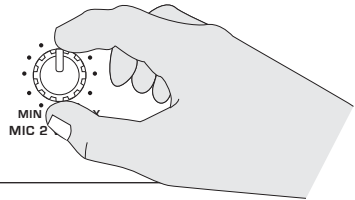
RADIO FREQUENCY (RF) bars indicate that the microphone is ready for usage.



HOW TO ADJUST MICROPHONE VOLUME

Turn the VOLUME CONTROL knob: LEFT to decrease the volume and RIGHT to increase the volume.

Better Music Builder UHF Wireless System VM-52U G2 2-in-1 BASE RECEIVER MODULE



We recommend setting the microphone volume to the center position, then control the overall volume from the amplifier/mixer.

HOW TO TURN ON/OFF MICROPHONE

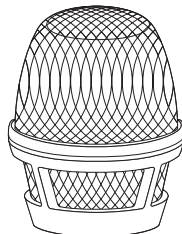
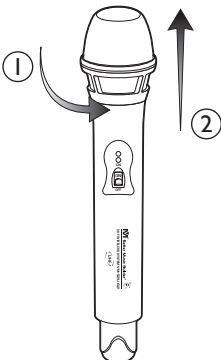
TURN ON: Slide the power switch to the top to turn the power on.

TURN OFF: Slide the power switch to the bottom to turn the power off.

MUTE: Slide the power switch to the middle to mute the vocal.

NOTE ▶ If the microphone cannot be turned on, batteries may be low. Battery life is typically 6 hours. Battery life may vary depending on battery type and usage. Batteries are not covered under our product warranty.

HOW TO INTERCHANGE MICROPHONE HEAD



INTERCHANGEABLE
MICROPHONE HEAD

NOTE

Replacement parts (such as the microphone head as shown on the left) can be purchased from any of our authorized dealers.



TECHNICAL SPECIFICATION

A. TECHNICAL FEATURE OF THE 2-IN-1 BASE MODULE:

1. Channels: 2
2. Frequency Range: UHF 520~700 MHz
3. Maximum Frequency Deviation: ± 45 KHz
4. Sensitivity: 2.0uV
5. Sensitivity Adjustment Range: 12~32dB BUJ
6. Frequency Response: 35Hz~20kHz \pm 3dB
7. Audio Output Level: Balanced Output: 0~0.5V/100
Sound Output: 0~0.5V/5K
8. Stay Control: >75 dB
9. Consume Power: 5 Watts
10. Power Supply: DC 13V~18V with 500mA, AC 120V (For 220V, you may need to change to a 220V~240V DC adaptor)
11. Receiver Dimensions (WxHxD): 8.3 x 2 x 8.1 (inches) / 21 x 5 x 20.5 (cm)
12. Package Dimensions (WxHxD): 18.5 x 14.6 x 3.7 (inches) / 47 x 37 x 9.5 (cm)
13. Shipping Weight: 6.4 lbs / 2.9 kg

B. TECHNICAL FEATURE OF THE MICROPHONE:

1. Transmitter Power: 10mW
2. Osillation Mode: PLL
3. Adjustment Mode: FM
4. Image Controlment: >50 dB
5. Adjust Frequency Deviation: <75 kHz
6. Battery Voltage: 2 x AA 1.5V Alkaline Batteries
7. Continuous Using: 6~8 Hours (GP) 2 x AA 1.5V Batteries
8. Microphone Dimensions (WxH): 10.3 x 2.2 (inches) / 26.1 x 5.5 (cm)

C. THIS SYSTEM INCLUDES THE FOLLOW:

- 2-in-1 Base Module: 1 Set
- Handheld Microphone: 2 Sets
- Antenna: 2 Units
- AA 1.5V Battery: 4 Units
- DC-Power Adaptor: 1 Unit
- Audio Cable: 1 Unit
- Instructional Manual: 1 Unit



TROUBLESHOOTING

! CAUTION: Before troubleshooting any symptoms, make sure equipments are turned OFF.

1. SYMPTOM: NO SOUND

CAUSE: There is no indication of signal.

REMEDIES:

- A. Batteries should be inserted correctly. Make sure to follow the polarity of the battery according to the diagram.
- B. If batteries are inserted correctly and still no power, batteries may be low and should be replaced.
- C. Microphone and receiver should be in the same channel to allow transmitting and receiving signal.
- D. Volume is turned to a low level and should be turned to a high enough but comfortable volume level.
- E. Make sure no wires inside the microphone are loose. If it is, reconnect wires if possible.
- F. Make sure the microphone is turned ON; not OFF or set to MUTE.

2. SYMPTOM: RECEIVER LCD IS OFF.

CAUSE: Receiver is unpowered.

REMEDIES:

- A. Power adapter should be connected properly.
- B. Make sure the right power adapter is being used.
- C. Determine whether there is indeed current coming from the power outlet.

3. SYMPTOM: NOISES.

CAUSE: There is interference within your area.

REMEDIES:

- A. Make sure user isn't standing too close to speakers. Standing too close to speakers with microphone will create feedback unless microphone volume is turned down.

- B. Audio cable of poor quality should not be used. Switching to a cable of higher quality such as a balanced XLR cable can reduce noise.
- C. Switch to a model that uses a different set of channels when the above remedies do not work.

4. SYMPTOM: DISTORTION IS INCREASING GRADUALLY.

CAUSE: Batteries are running low.

REMEDIES:

- A. Replace batteries as soon as possible.
- B. Make sure batteries have enough power. Even if they are new batteries, they may have lost power during its time being on the store shelves.

5. SYMPTOM: POOR SIGNAL.

CAUSE: Objects can be disrupting communication between receiver and microphone.

REMEDIES:

- A. Make sure no objects are between receiver and microphone, such as walls and shelves.
- B. Make sure microphone usage is not in perimeter of police, fire or radio stations.
- C. Devices that send out radio signals can be disruptive, such as cell phones, radios, computers, etc.
- D. Switch to a model that uses a different set of channels when the above remedies do not work.



APPENDIX

VM-52U G2 FCC FREQUENCY: 520.000~700.000 MHz

UHF Frequencies Available for Use for Home Electronics in North America

The RF radio frequencies used in the transmission of wireless information are closely regulated in most countries including North America. A lot of countries strictly enforce their regulations stating which RF frequencies are available for use for certain device, so it can help limit the amount of radio frequency interference in all wireless communications.

Please refer to the following table for MIC 1 and MIC 2 with available RF frequencies. If the RF frequencies indicated in the following table are in conflicts with the local wireless information law in your country, please switch to a different product model or contact our technicians for advice.

FCC Information to User for Reference

This equipment is designed in compliance with the limits for a Class A digital device pursuant to part 15 of the FCC Rules from the United States of America. These limits are designed to provide protection against harmful interference when the equipment is operated in public environment. This equipment generates, uses, and can radiates radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, so the user will have to correct the interference at his/her own expense.



WARRANTY

One-Year Limited Warranty for Home Use Equipment

Our one-year warranty applies to speakers, amplifiers, mixers and microphones for home use only. It covers both parts and labors. The warranty becomes effective on the date of your purchase.

Our warranty only covers defects due to product defectiveness with free of defects in materials or workmanship. However, our warranty does not cover defects due to normal wears, damage in transit, improper use, abuse or failure to follow the proper instructions for maintenance. This warranty is void in the event of unauthorized repairs, alternations, modifications and removing of the product label.

Please also note that our warranty does not cover any shipping cost for the return of defective products to us for inspection, repair and maintenance. Our warranty for Better Music Builder products can only be executed in North America.

NOTE ► Our warranty does not cover the battery for wireless microphone products.

90-Day Limited Warranty for Public and Commercial Use Equipment

Our 90-day warranty applies to speakers, amplifiers, mixers and microphones for both public and commercial use such as restaurant, coffee shop, KTV nightclub, church and school, etc. It covers both parts and labors. The warranty becomes effective on the date of your purchase.

To Register Your Warranty

Please submit the warranty card that comes with your unit; it is also download on our website . However, we need the invoice for your purchase in order to process this warranty. You may also register your warranty online.

Please visit our website at www.BetterMusicBuilder.com.

PRECAUTION

1. If using more than one microphone system, please select the operating frequency or signal channel carefully so as to avoid disturbing.
2. The input power voltage of the 2-in-1 Base Module is 110V/120V ($\pm 10\%$). If it is too low or too high, it will affect the work of the machine.
3. When installing batteries, reversing the electrode will damage the machine.



Caution: To reduce the risk of electrical shock, do not remove the cover (or back). No user serviceable parts inside: refer servicing to qualified personnel.

Warning: To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture.



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. Read the manual.

Better Music Builder is a leader in the Audio and Karaoke equipment industry. We are committed to offering you high quality audio products. We may update our manual, so we highly recommend you to download the free update from our website at www.BetterMusicBuilder.com.



Passionate about Music
www.BetterMusicBuilder.com



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