



## Professional UHF Wireless Microphone System

# VM-99U

### Operating Instructions



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. After reading this manual, retain this booklet together with the Warranty Card for future use in case of maintenance or troubleshooting.



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## FOREWORD

Thank you for purchasing our company's product VM-99U. This product is designed using America's most advanced audio technology up to date.

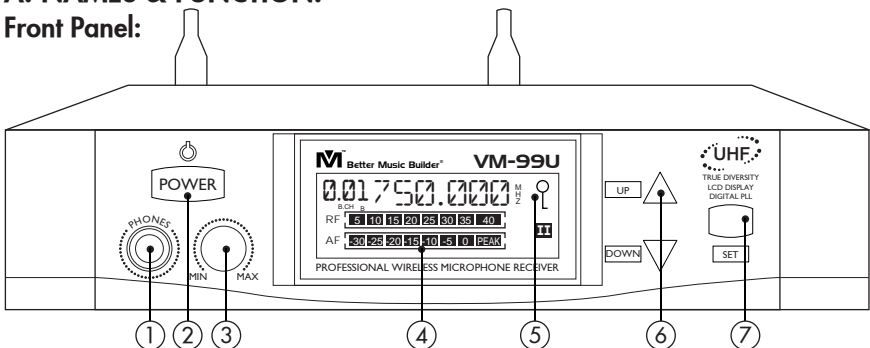
### The system has the characteristic as follows:

1. Working frequency range: UHF520-810MHz (tunable)
2. CPU control: PLL frequency compose technique)
3. CPU controlled true diversity system for advance break up and receiver control of left and right channels
4. LCD (Liquid Crystal Display) screen
5. Transmitter and receiver audio system for high-pass, low-pass & band-pass filter technique to avoid noise and keep sound quality

## RECEIVER SPECIFICATION

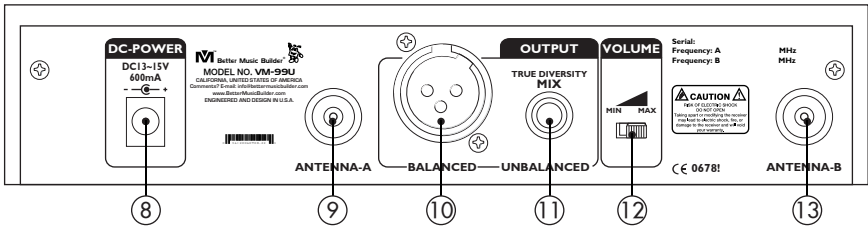
### A. NAMES & FUNCTION:

Front Panel:



# RECEIVER SPECIFICATION

## Rear Panel:



## Front Panel:

1. Headphones jack
2. Power
3. Volume control
4. LCD screen
5. locking display
6. (up and down button) selects different frequency & model settings
7. Model programming setup (set button)

## Rear Panel:

8. Power jack
9. Antenna socket A
10. Balanced output
11. Unbalanced output
12. Audio output volume
13. Antenna socket B

## B. MODEL SETUP SPECIFICATION:

1. Install two antennas to the antenna socket A B of the rear panel, the direction between them should be adjusted about 90°.

**NOTE** Do not install in too firmly or it may damage your system's antenna output. (Your warranty may be terminated if you damage the system like this.)

2. Insert the DC power to the rear panel of your system.

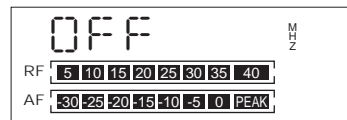
**NOTE** Only use a DC 13~15v DC power, if you use any other power voltage other than DC 13~15v you may damage the system. Your warranty may be terminated if you damage it like this.

3. Turn the volume to minimum, then press and hold the power button for 2-3 seconds until LCD screen is on.

4. Adjust the receiver's status to your liking.

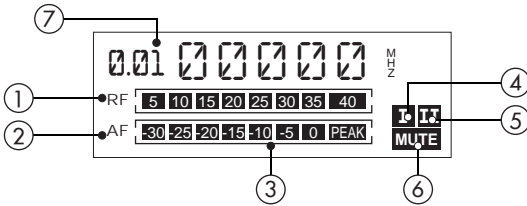
**NOTE** Receiver adjustments will be mentioned on pages 4-6.

5. To turn off power press and hold the power button for 2-3 seconds. The LCD screen will display "OFF" as shown to on the diagram to the right. Then, power will automatically shut off.



## C. LCD PANEL OPERATION:

After turn on the power, LCD is light up as screen:



1. RF (radio frequency) Indicator
2. AF (audio frequency) Indicator
3. Current Frequency Display: shows the frequency that your receiver and transmitter are on.

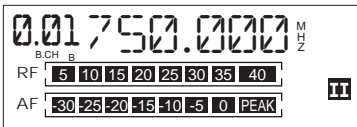
**NOTE** If there is static or no sound coming out of your speakers, than there may be a frequency interruption from another system. If this occurs change your frequency.

4. Channel A signal receiving indicator: When the "I" is displayed as shown above, this means that Antenna A is receiving a signal.
5. Channel B signal receiving indicator: When the "II" is displayed as shown above, this means that Antenna B is receiving a signal.
6. Mute Indicator: When the "MUTE" is displayed as shown above, this means that the system is currently not receiving any vocal signal.
7. Current Channel Display

**NOTE** Make sure your receiver's channel/frequency matches the one in your transmitter's channel/frequency. (Channel/frequency display may be changed in the transmitter's settings. Refer to pg 7-9.)

## D. CHANGING FREQUENCY

Press "SET", LCD will display below screen:

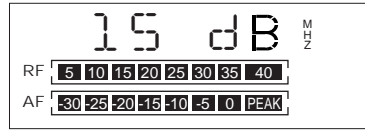
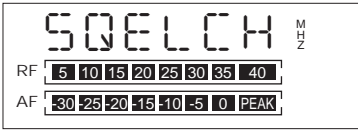


**NOTE** The number displayed depends on your current setting.

Press set for LCD screen displays several numbers as shown above. This is the frequency current station, to change frequency use the "▲" or "▼" button to select a different channel, then the LCD screen will flash to remind you to confirm please press set again to confirm.

## E. THE RECEIVER SENSITIVITY ADJUSTING MENU:

Keep pressing the set button until LCD screen displays “SQELCH” as shown below:

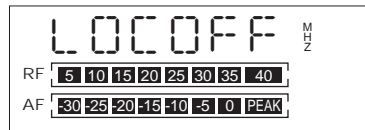
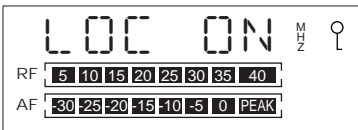


After 2-3 seconds, the screen will display “XX\* dB” (\*various numbers, depending on your current adjustments). This is the status of your receiver’s current sensitivity level. You can press the “▲” or “▼” buttons to select a different level. After you made your selection, the LCD screen will flash to remind you to confirm, please press set to confirm.

**NOTE** ▶ If you want a more active signal between the transmitter and receiver set the sensitivity level to at least 15dB. Setting the sensitivity level higher lets the signal become active from a further distance.

## F. SYSTEM LOCKING MENU:

**Locking or Unlocking your system’s current statuses:**



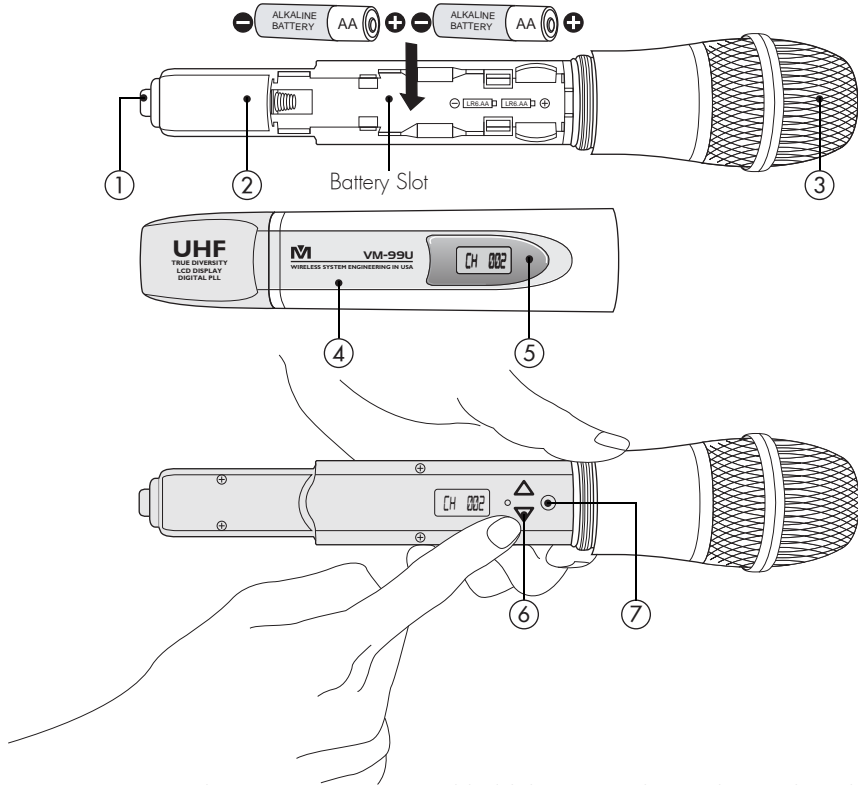
Keep pressing the set button until the LCD screen displays “LOCK”. After 2-3 seconds screen will display “LOC ON” or “LOC OFF” as shown above (“LOC ON” means that system is locked [if system is locked the lock indicator will display on the LCD screen, in this mode no adjustment can be made to the system and system can not be powered off. “LOC OFF” means system is unlocked, in this mode adjustments can be made to the system and power can be powered off.] Press the “▲” button to switch to “LOC ON” to lock system’s current status or press the “▼” button to switch to “LOC OFF” to enable system adjustments.

**NOTE** ▶ If system is locked the lock indicator will be on.

# HANDHELD TRANSMITTER (Wireless Mic.) SPECIFICATION

## NAMES & FUNCTION:

### Uncover Looking of the Handheld Transmitter:

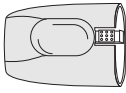


1. Power switch: To turn on press and hold the power button located on the bottom cap of the transmitter for 2-3 seconds, until the LCD screen's light is on. To turn off press and hold the power button until LCD screen's light is off.
2. Built-in Transmitter Antenna
3. Condenser and grille
4. Battery Cover: Insert 2 "AA" batteries into the battery slot, putting battery's polarity on different ends may damage system and your warranty may be terminated if damage does occur because of it.
5. Battery power indicator light: If light is flashing this means battery power is low and must be replaced, if light is not flashing battery is at normal power.
6. "▲" or "▼" buttons: Adjustment buttons to adjust system statuses.
7. Set button: Opens the different statuses your system lets you adjust, and adjustment confirmation.

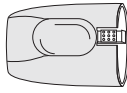
**NOTE** After using set and the up or down buttons to adjust your receiver's status, press set again to confirm, or your adjustments will remain the same.

# HOW TO SET UP YOUR HANDHELD TRANSMITTER (Wireless Mic.)

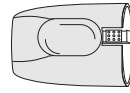
Firstly, push the release button on the bottom cap.



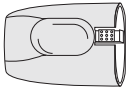
Green



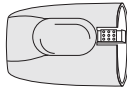
Blue



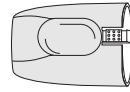
Yellow



Silver



Orange

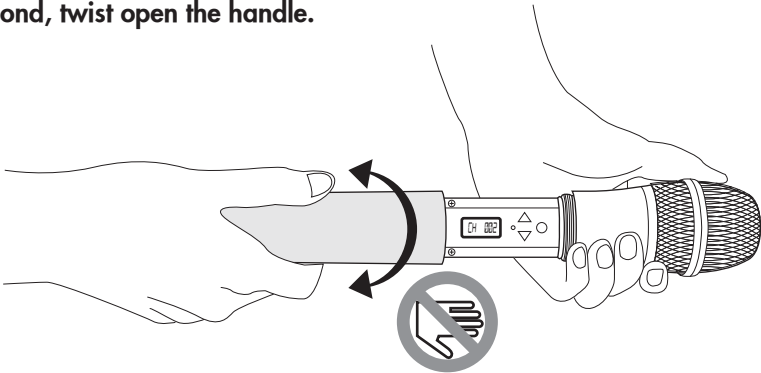


Black

(\*Optional: You can switch the caps with 6 different colors; green, blue, yellow, silver, orange and black. Sold separately)

**NOTE** If you or anyone do any damage, either accidental or incidental, on the transmitter [microphone] head's grille, we have the right to void your warranty.

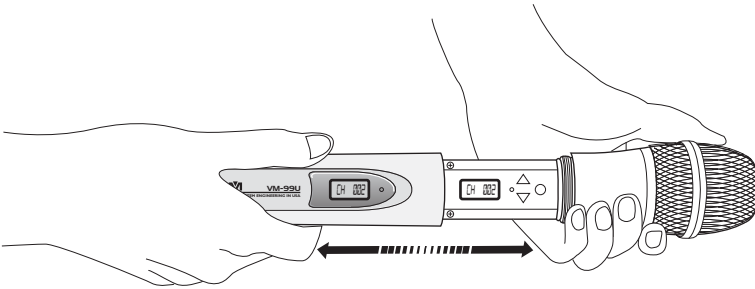
**Second, twist open the handle.**



**NOTE** when twisting back on the handle don't twist it in too firmly or it may damage the transmitter [wireless microphone].

**NOTE** Damage because of improper usage will void your warranty.

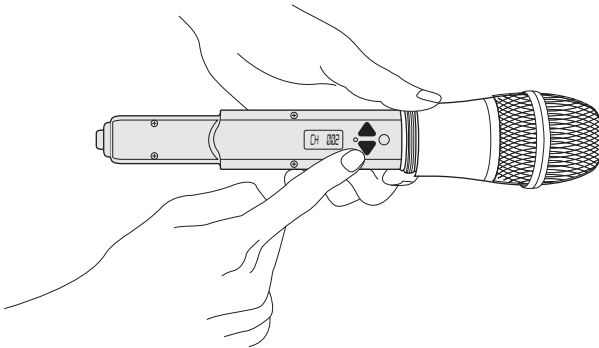
**Third, Pull open handle to reveal the transmitter's LCD monitor.**



**NOTE** When pulling out handle make sure that you pull it straight out then when you hit a click wedge the handle a little bit and it will loosen, then pull it straight out.

**Fourth, to change the settings press set to switch to the mode you want to adjust on the transmitter, and up and down to select press set again to confirm. When the battery is low the light above the LCD screen will be flashing.**

To modify the other modes, press "SET" to that mode and the "▲" and "▼" button to select the adjustments. Press "SET" again to confirm.



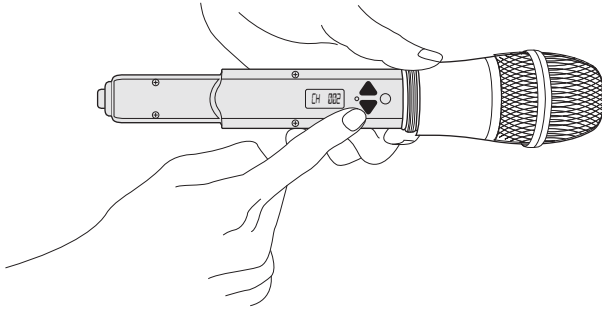
**NOTE** Match your frequency on the transmitter to those on the receiver for a better signal.

**NOTE** If you do not press set to confirm no adjustments will be made.

**NOTE** Damage because of improper usage will void your warranty.



## Setting Up your Handheld Transmitter (Wireless Mic.)



To change frequency/channel press set until LCD screen displays CH 001\* (channel display values) or 750.000\* (frequency display values) (\*varies depends on current settings). Press the up or down buttons to select a different channel/frequency (channel ranges from 1-9 & A-F). Then the LCD screen will flash. Press set again to confirm (if you don't confirm no adjustments will be made.)

**NOTE** Match your frequency/channel to the receiver's the RF indicator on the receiver will show a signal.

### To change display between frequency/channel:

Frequency displays frequency signal's actual units, while channel displays a substitute letter or number. (Refer to pg.20 for the frequency's value in channel and actual unit)

Keep pressing set until LCD screen displays "disply". After 1-2 seconds screen will show FYE 9u (for frequency) or CHAnn1 (for channel). Note: Current display depends on settings. Press the up or down button to switch between the two. Then the LCD screen will flash. Press set again to confirm (if you don't confirm no adjustments will be made.)

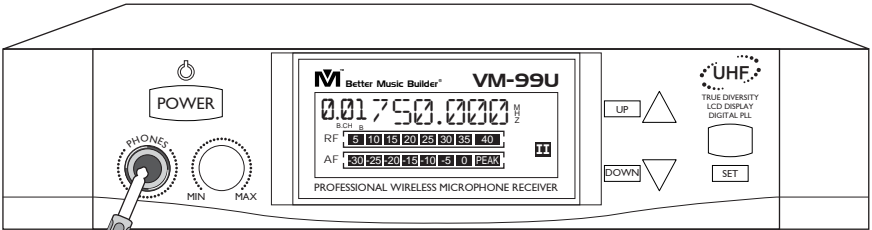
### To unlock/lock your settings:

**NOTE** In lock mode settings can not be adjusted and transmitter can not be powered off, in unlock mode all settings can be adjusted.

Keep pressing set until LCD screen displays "loc Set" after 1-2 seconds screen will display Loc OFF (unlock) or Loc on (locked). Press up or down to switch between the two settings. Then the LCD screen will flash. Press set again to confirm (if you don't confirm no adjustments will be made.)

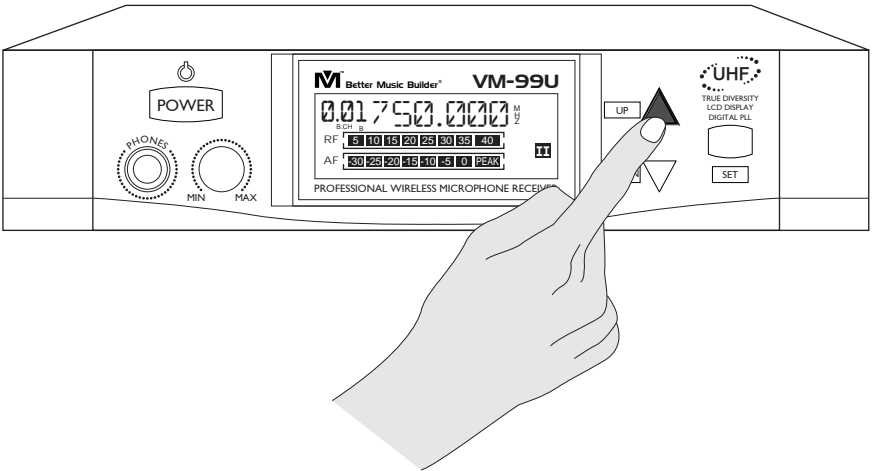
# HOW TO MONITOR YOUR VOCAL

(\*Optional: You can insert a Stereo Headphone in the headphone jack on the front panel of your receiver to monitor your vocal via Headphone.)



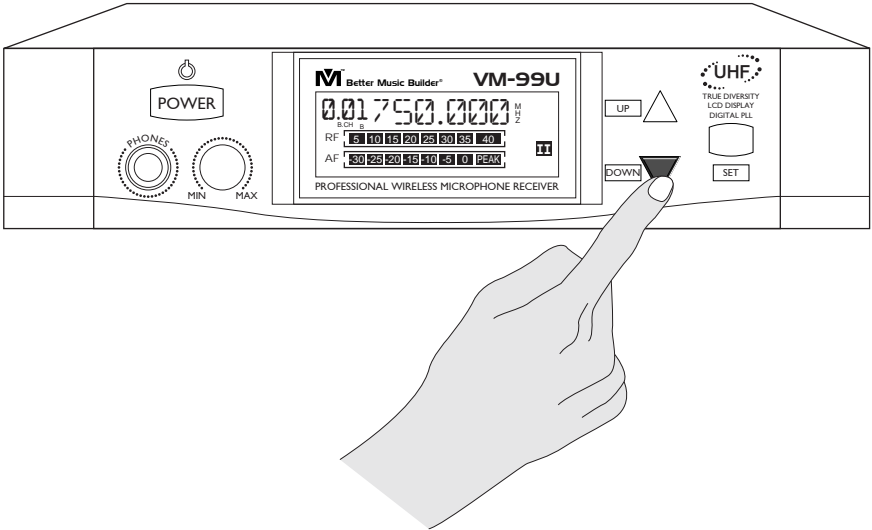
**NOTE** ➤ If you or anyone do any damage on the receiver's headphone jack, either accidentally or intentionally we have the right to void your warranty.

You can adjust your receiver's frequency by pressing the "UP" button to select your frequency.

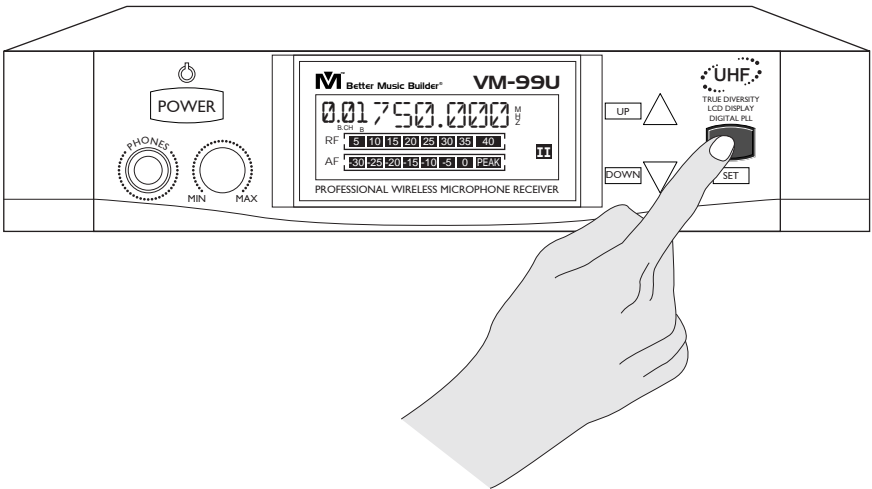


**NOTE** ➤ If you or anyone do any man made damage on the receiver's buttons, either accidentally or intentionally, we have the right to void your warranty.

You can adjust your receiver's frequency by pressing the "DOWN" button to select your frequency.



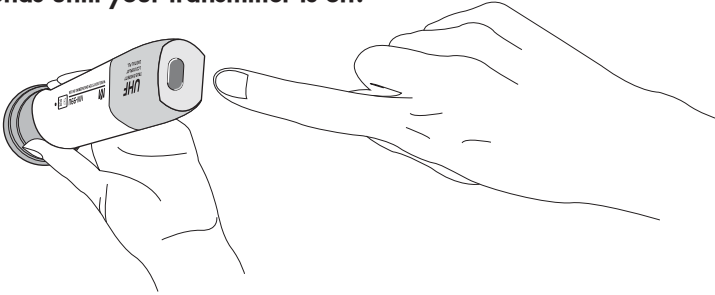
Press "SET" afterwards to confirm your selection.



**NOTE** If you or anyone do any damage on any part of the receiver either accidentally or intentionally, we have the right to void your warranty.

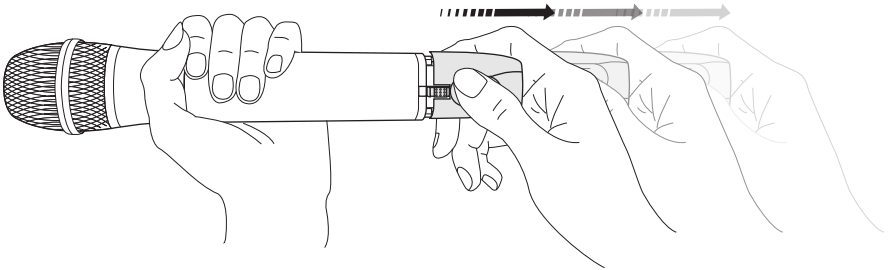
# HOW TO CHANGE YOUR TRANSMITTER'S BATTERIES

1. Press and hold the power button on the bottom of the cap for 3-5 seconds until your transmitter is off.

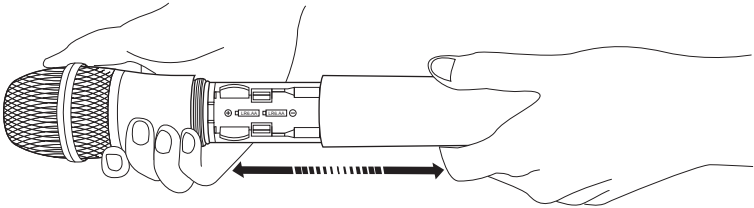


2. Press the release button on the cap and pull out

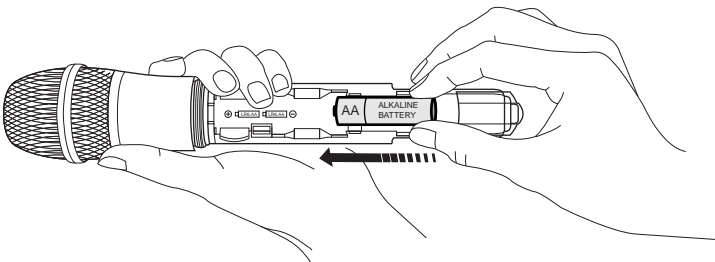
(\*Optional: You can replace your cap with different colors to recognize your transmitter easily)



3. Use one hand to hold onto the top of your transmitter, use the other hand to twist out your transmitter's handle.



4. Insert 2 double A (AA) batteries into the battery slot of your transmitter.



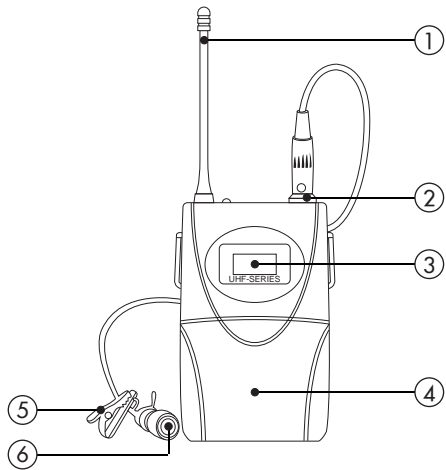
# TIE-CLIP TRANSMITTER SPECIFICATION

## NAMES & FUNCTION:

### Transmitter:

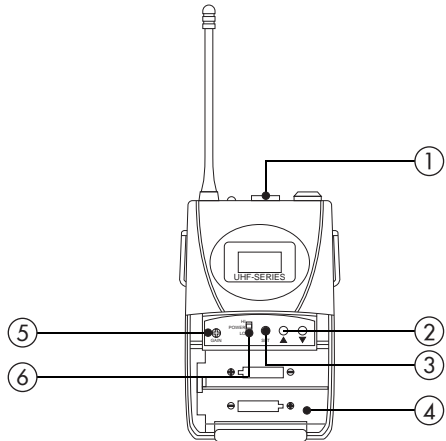
#### Outside Picture

1. Antenna
2. Microphone Jack
3. LCD
4. Battery Cover
5. Tie-Clip
6. Microphone Extension Jack

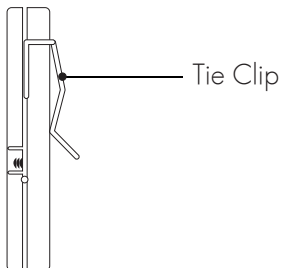


#### Inside Picture

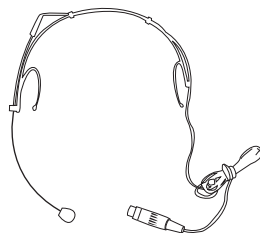
1. Power Switch
2. Channel Selection
3. Setting
4. Battery Slot
5. Volume Control
6. Transmitter Power Switch on/off



### Side-face Picture :

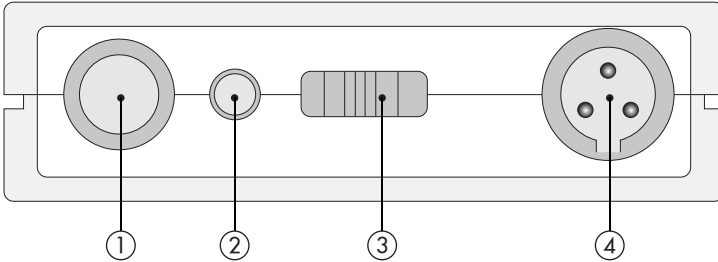


### Headset Microphone (Accessories):



## Operating Panel:

### Apical Panel



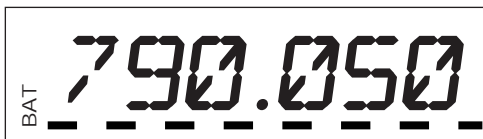
1. Antenna Jack
2. Power Indicator
3. Power Switch
4. Microphone Jack

### TIE-CLIP TRANSMITTER INSTALLATION SPECIFICATION:

1. Connect the microphone jack on the apical panel
2. Put 2 double A (AA) alkaline batteries in the battery box.

### LCD Panel Operation:

1. Switch "Power" to the "ON" position on the apical panel, then the LCD screen will display as below:

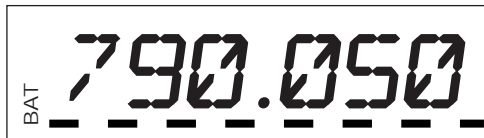
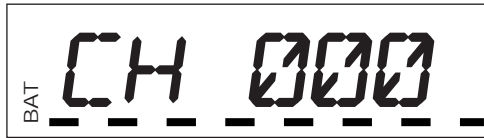


## 2. Button Name & Function:

1. Button "SET", menu selection and confirmation button, by pressing the set button you can choose the function menu for adjusting. After using button "▲" or "▼" to change the function status, please press "SET" to confirm.
2. Button "▲" or "▼" is to select adjustments of every menu.

## CHANNEL DISPLAY AND MENU ADJUSTMENT:

Press "SET", LCD screen will display as below:

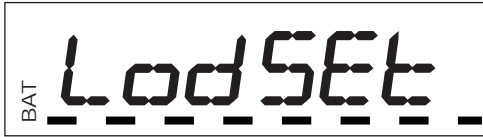


The menu displays the working frequency of the transmitter (it can be displayed differently from display selection menu), press "▲" or "▼" to select a different frequency, then press "SET" to confirm.

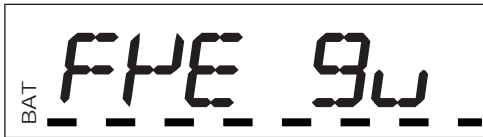
If you choose a new channel or frequency, but didn't press "SET" to confirm, LCD screen will flash to remind you, afterwards press "SET" to confirm and the LCD screen will stop flashing.

## FREQUENCY DISPLAY SELECTION:

Press "SET" until, LCD screen displays as below:



After 2~3 seconds, it will display as below screen:



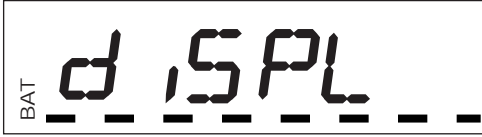
(The above screen displays according to the present setting)

Press "▲" to select "FYE 9u" for frequency display, or "▼" to select "CHA nnl" for channel display. In frequency mode, your current frequency level will be displayed in their actual units, In channel mode your current frequency level will be displayed in "whole numbers".



## SYSTEM LOCKING MENU:

Keep pressing "SET" until, LCD display the below screen:



After 2~3 seconds, it will display the screen below:



(The screen above displays according to your present status)

This menu's function is for locking the transmitter's working status (Channel, Displaying, Selecting, Power ON/OFF etc.). If it is in "Loc on" (lock position), it can not change the present working status, also can not power off the receiver. If it is in the "LOC OFF" (unlock position), it can change all of the current settings.

When pressing the "▲" or "▼" to change the menu's status, press "SET" to confirm, otherwise it will be ineffective.

If you change the previous status, but didn't press "SET" to confirm, the LCD screen will flash to remind you after 2~3 seconds. Press "SET" to confirm, then LCD screen will stop flashing.

# TECHNICAL SPECIFICATION

## A. OVERALL SYSTEM

1. OSD Model: PLL LOCK
2. Operating Frequency: 520~820 MHz (Tunable)
3. Modulation Model: FM
4. Maximum Deviation:  $\pm 45$  KHz
5. Frequency Response: 80Hz~15KHz( $\pm 3$ dB)
6. Image Rejection:  $\leq 1\%$
7. Operating Temperature:  $-10^{\circ}\text{C}\sim+55^{\circ}\text{C}$
8. Shipping weight: 5 lbs
9. Quantity: 1 Set

## B. HANDHELD TRANSMITTER

1. Output Power: 25 • ~30 mW
2. Harmonic Interference Ratio: -50dB
3. Battery: 2 PCS AA Type Alkaline Battery
4. Cartridge: Dynamic

## C. TIE-CLIP TRANSMITTER

1. Output Power(Lowest): 4~6 mW Output Power(Highest): 20~30mW
2. Harmonic Interference Ratio: -50dB
3. Battery: 2 PCS AA Type Alkaline Battery
4. Cartridge: Single polar Pattern capacity Microphone

## D. RECEIVER

1. Sensitivity: 12dBuV (80dB S/N)
2. Sensitivity Range: 12~32dBuV
3. Harmonic Interference Ratio:  $\geq 75$  dB
4. Audio Output: Balanced: 0~0.5V/600 $\Omega$   
Audio output: 0~0.5V/5K $\Omega$
5. Power Supply: Connect direct power 12~14V
6. Current: 300 mA

## THIS SYSTEM INCLUDES THE FOLLOWING:

- Receiver: 1 Set
- Handheld Transmitter: 1 Set
- Antenna: Receiver  $\times$  2 PCS  
Handheld Transmitter  $\times$  1 PC
- AC Adapter: 1 Set
- User Manual: 1 PC

# 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 from the date of your purchase for one year.

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 from the date of your purchase for 90 days.

### To Register Your Warranty

Please fill out the warranty card that came with your unit, download or submit online warranty form. 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](http://www.bettermusicbuilder.com).

## PRECAUTION

1. If you want to use more than one of this system, please select the work frequency (or signal channel) carefully so as to avoid disturbing.
2. The input power voltage of the receiver is 120V ( $\pm 10\%$ ). If it is too low or too high, it will affect the work of the machine.
3. When you install the battery, you must not reverse the electrode or you will damage the machine.
4. When using the sensitivity solution function, the numerical value you select must be at least 15dB. Otherwise, if the distance is too far, its signal-to noise radio goes worse.



**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.

# VM-99U FCC FREQUENCY 750 MHz and 800 MHz

<b>VM-99U FCC Frequency 750 MHz</b>		
<b>TV ch.</b>	Receiver Frequency	Transmitter Frequency
1	750.025	000
2	752.800	001
3	753.625	002
4	754.525	003
5	755.456	004
6	756.150	005
7	758.130	006
8	758.850	007
9	760.050	008
10	760.650	009
11	760.650	00A
12	761.650	00B
13	762.150	00C
14	763.850	00D
15	764.350	00E
16	764.875	00F

<b>VM-99U FCC Frequency 800 MHz</b>		
<b>TV ch.</b>	Receiver Frequency	Transmitter Frequency
1	785.025	000
2	785.825	001
3	787.000	002
4	788.250	003
5	789.000	004
6	790.750	005
7	791.250	006
8	792.750	007
9	795.000	008
10	795.750	009
11	797.500	00A
12	798.000	00B
13	800.325	00C
14	802.275	00D
15	803.500	00E
16	804.625	00F

# FREQUENCY SCAN GROUPS FOR BAND C & BAND D

## Band C

Band C Scan Group 1			Band C Scan Group 2			Band C Scan Group 3		
TV Ch.	Frequency – MHz *		TV Ch.	Frequency – MHz *		TV Ch.	Frequency – MHz *	
25	(None)	0	25	541.500	1	25	541.500	1
26	542.750		26	542.750		26	542.125	
26	545.500		26	544.375		26	543.500	
26	547.125		26	544.750		26	544.000	
26	547.375	4	26	545.750		26	546.250	4
27	549.750		26	547.500	5	27	548.250	
27	550.375		27	(None)	0	27	549.750	2
27	550.625	3	28	554.250		28	555.750	
28	557.250		28	556.125		28	556.625	
28	557.500		28	557.500		28	558.250	
28	559.250		28	559.375	4	28	559.375	4
28	559.500	4	29	560.000		29	560.125	
29	562.000		29	561.875		29	561.500	
29	563.375		29	562.250		29	564.000	
29	563.625	3	29	563.250		29	564.250	4
30	566.000		29	565.500	5	30	566.125	1
30	566.250	2	30	566.000	1			

## Band D

Band D Scan Group 1			Band D Scan Group 2			Band D Scan Group 3		
TV Ch.	Frequency – MHz *		TV Ch.	Frequency – MHz *		TV Ch.	Frequency – MHz *	
44	655.500	1	44	655.875	1	44	655.500	
45	658.000		45	656.250		44	655.750	2
45	658.375		45	658.500		45	656.625	
45	659.250		45	659.750		45	658.500	
45	659.500		45	660.000		45	658.750	
45	661.500	5	45	660.500	5	45	659.500	4
46	662.375		46	664.375		46	662.750	
46	662.750	2	46	665.500	2	46	665.250	2
47	669.625		47	671.625		47	671.250	
47	671.750	2	47	672.000	2	47	672.375	
48	674.750		48	674.000		47	673.125	3
48	675.750		48	674.500		48	674.125	
48	676.125		48	675.750		48	674.500	
48	678.000		48	676.750		48	675.375	
48	678.250		48	678.250	5	48	678.625	
48	679.500	6	49	680.250	1	48	679.125	5
49	(None)	0	49	(None)	0			

\* Number of wireless frequencies in TV Channel.

# US UHF WIRELESS OPERATING FREQUENCIES

TV Ch.	Band C: 541.500 - 566.375 MHz							
25	–	–	–	–	541.500	541.625	541.750	541.875
26	542.000	542.125	542.250	542.375	542.500	542.625	542.750	542.875
26	543.000	543.125	543.250	543.375	543.500	543.625	543.750	543.875
26	544.000	544.125	544.250	544.375	544.500	544.625	544.750	544.875
26	545.000	545.125	545.250	545.375	545.500	545.625	545.750	545.875
26	546.000	546.125	546.250	546.375	546.500	546.625	546.750	546.875
26	547.000	547.125	547.250	547.375	547.500	547.625	547.750	547.875
27	548.000	548.125	548.250	548.375	548.500	548.625	548.750	548.875
27	549.000	549.125	549.250	549.375	549.500	549.625	549.750	549.875
27	550.000	550.125	550.250	550.375	550.500	550.625	550.750	550.875
27	551.000	551.125	551.250	551.375	551.500	551.625	551.750	551.875
27	552.000	552.125	552.250	552.375	552.500	552.625	552.750	552.875
27	553.000	553.125	553.250	553.375	553.500	553.625	553.750	553.875
28	554.000	554.125	554.250	554.375	554.500	554.625	554.750	554.875
28	555.000	555.125	555.250	555.375	555.500	555.625	555.750	555.875
28	556.000	556.125	556.250	556.375	556.500	556.625	556.750	556.875
28	557.000	557.125	557.250	557.375	557.500	557.625	557.750	557.875
28	558.000	558.125	558.250	558.375	558.500	558.625	558.750	558.875
28	559.000	559.125	559.250	559.375	559.500	559.625	559.750	559.875
29	560.000	560.125	560.250	560.375	560.500	560.625	560.750	560.875
29	561.000	561.125	561.250	561.375	561.500	561.625	561.750	561.875
29	562.000	562.125	562.250	562.375	562.500	562.625	562.750	562.875
29	563.000	563.125	563.250	563.375	563.500	563.625	563.750	563.875
29	564.000	564.125	564.250	564.375	564.500	564.625	564.750	564.875
29	565.000	565.125	565.250	565.375	565.500	565.625	565.750	565.875
30	566.000	566.125	566.250	566.375	–	–	–	–

Avoid using same frequencies as TV channels or other radio signals for better performance.

TV Ch.	<b>Band D: 655.500 - 680.375 MHz</b>							
44	–	–	–	–	655.500	655.625	655.750	655.875
45	656.000	656.125	656.250	656.375	656.500	656.625	656.750	656.875
45	657.000	657.125	657.250	657.375	657.500	657.625	657.750	657.875
45	658.000	658.125	658.250	658.375	658.500	658.625	658.750	658.875
45	659.000	659.125	659.250	659.375	659.500	659.625	659.750	659.875
45	660.000	660.125	660.250	660.375	660.500	660.625	660.750	660.875
45	661.000	661.125	661.250	661.375	661.500	661.625	661.750	661.875
46	662.000	662.125	662.250	662.375	662.500	662.625	662.750	662.875
46	663.000	663.125	663.250	663.375	663.500	663.625	663.750	663.875
46	664.000	664.125	664.250	664.375	664.500	664.625	664.750	664.875
46	665.000	665.125	665.250	665.375	665.500	665.625	665.750	665.875
46	666.000	666.125	666.250	666.375	666.500	666.625	666.750	666.875
46	667.000	667.125	667.250	667.375	667.500	667.625	667.750	667.875
47	668.000	668.125	668.250	668.375	668.500	668.625	668.750	668.875
47	669.000	669.125	669.250	669.375	669.500	669.625	669.750	669.875
47	670.000	670.125	670.250	670.375	670.500	670.625	670.750	670.875
47	671.000	671.125	671.250	671.375	671.500	671.625	671.750	671.875
47	672.000	672.125	672.250	672.375	672.500	672.625	672.750	672.875
47	673.000	673.125	673.250	673.375	673.500	673.625	673.750	673.875
48	674.000	674.125	674.250	674.375	674.500	674.625	674.750	674.875
48	675.000	675.125	675.250	675.375	675.500	675.625	675.750	675.875
48	676.000	676.125	676.250	676.375	676.500	676.625	676.750	676.875
48	677.000	677.125	677.250	677.375	677.500	677.625	677.750	677.875
48	678.000	678.125	678.250	678.375	678.500	678.625	678.750	678.875
48	679.000	679.125	679.250	679.375	679.500	679.625	679.750	679.875
49	680.000	680.125	680.250	680.375	–	–	–	–

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