

WIRELESS MICROPHONE SYSTEM

MMARTIN RANGER

WM-300



- To be sure you take maximum advantage of the features, read this manual carefully before use.
- For purposes of improvement, specifications and design are subject to change without notice.
- This manual has been checked carefully, if any mistakes because of printing or other reason make you puzzle, please call the dealer.

OWNER'S MANUAL

PREFACE

Thank you for buying our excellent wireless microphone series products. Before you use our products, please read this Owners Manual, so that you can enjoy it. Keep this manual in a safety place for your future references.

This series professional wireless microphone system introduces a number of advanced technology and components, including the efficient low-consumption RF transmission technology, elimination of switching impact technology, slow changed output control technology, superb sensitive VHF narrowband receiver and etc..

EDA, online simulation accessorial design and strict quality control are applied to ensure each system with excellent electronic function.

Features:

- Desktop receiver and enhanced muting, high signal / noise ratio.
- Almost zero noise output when standby.
- Broad frequency response range, super low distortion.
- No impact on switching receiver, ensure safety of rear stage amplifier system and speaker.
- Perfect operative status signals, fluorescence display, with digital microphone.
- Long practical distance. Over 30 m in ideal circumstances; practical 20 m radius in complex circumstances.
- Dual frequency design. Be able to use two microphones at the same time without mutual interference.
- Applicable for medium & small stages, karaoke halls, and home entertainment etc.

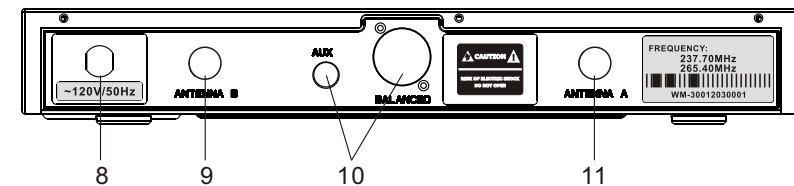
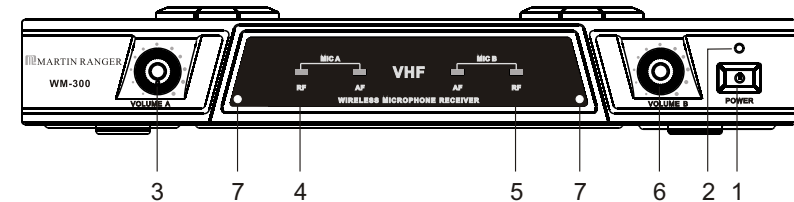
Matters Needing Attention:

1. Be sure to check whether the local voltage accord with operative voltage of the microphone before using, make correct selection. (Wrong selection may lead to burnout of the whole machine.)
2. Please don't open or dismantle the machine on your own. For internal repair, please contact the local distributor or accepted service center.
3. When the machine will not be used for a long time, please pull the power plug out of AC power socket.

Cleaning:

1. Please make sure to cut off the power before repairing or cleaning this machine.
2. The machine can be cleaned by soft cloth. To clean off stiff dirt, please use dry cloth dipping with neutral wash; clean the machine with dry cloth then.
3. Please don't use volatile gasoline, diluents or other chemicals for the machine body, or the surface will be corrupted.

RECEIVER

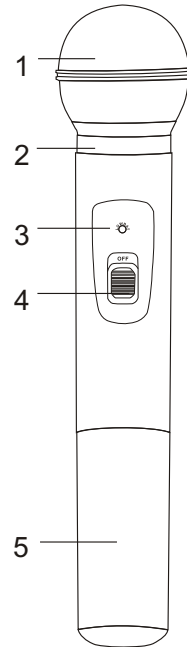


1. Power on/off switch
2. Power signal lamp
3. Channel A volume control knob
4. Channel A signal lamp
5. Channel B signal lamp
6. Channel B volume control knob
7. Charging indicator
8. Power input
9. Channel B antenna
10. Audio output jack
11. Channel A antenna

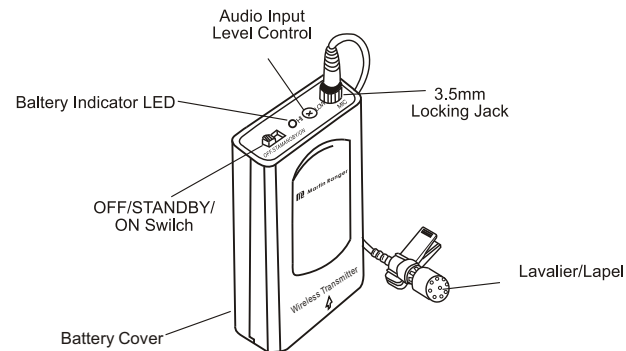
TRANSMITTER

HAND-HOLD MICROPHONE

1. Cartridge module
2. Mic body
3. Operating indicator
4. Power switch
5. Battery cover



LAVALIER BODYPACK TRANSMITTER



TROUBLESHOOTING

Receiver

Problem	Possible cause	solution
Fail to operate	<ul style="list-style-type: none"> ● Poor connecting of the receiver power or the power isn't correct 	<ul style="list-style-type: none"> ● Check the operation power correct or not and plug it securely
No receive	<ul style="list-style-type: none"> ● The transmitter is out of the effective range ● The frequency of the transmitter and the receiver isn't same ● The antenna hasn't be pull out 	<ul style="list-style-type: none"> ● Operating it in the effective range ● Set the frequency to same ● Pull out the antenna
Distorted sound	<ul style="list-style-type: none"> ● The volume of microphone is too loud 	<ul style="list-style-type: none"> ● reduce the volume of the microphone

Transmitter

Problem	Possible cause	solution
Fail to operate	<ul style="list-style-type: none"> ● The battery voltage isn't enough ● The battery install isn't correct polarity 	<ul style="list-style-type: none"> ● Replace the batteries ● Install the batteries correctly
No carrier signal	<ul style="list-style-type: none"> ● The transmitter is working out of effective field ● The frequency of the transmitter and the receiver isn't same 	<ul style="list-style-type: none"> ● Operating it in effective field ● Set the frequency to same
Noise and distorted sound	<ul style="list-style-type: none"> ● Disturb by other electric wave ● The operation frequency of two transmitter is same. ● The batteries voltage of the transmitter isn't enough. 	<ul style="list-style-type: none"> ● Shorten the operation distance of the transmitter and the receiver ● Move the receiver far away interference. ● The same operation frequency of two transmitter should be avoid. ● Replace the batteries.

ATTENTION

For the rechargeable system, which uses AA recycle rechargeable batteries. It has recharge equipment. The recharge instructions are as below:

1. When the handheld microphone is out of power during using, please recharge it in time.
2. Plug in the receiver, screw out antenna of the microphone. and connect the microphone into the recharge socket on top of the receiver. the recharge signal When the batteries are recharged.
3. In recharge status, the receiver will automatically close its display and audio output.

Special Warning:

This charger is applicable for AA recycle rechargeable batteries only. Non-rechargeable batteries are forbidden to be used to avoid any danger.

Application:

1. Applicable batteries: AA 1.5V rechargeable batteries.
2. Rated recharge power: 100mA \pm 10%
3. Rated recharge time: > 4hrs.

Hold The Transmitter With Care:

- Please don't let any objects (dust, raindrop, grit) fall into the machine to cause any damage to it.
- Please avoid the machine falling onto the ground. Keep it away from serious strike or shake.
- The machine is not waterproof. Please avoid raindrop, tea etc. splattering onto the machine.

Ensuring:

Should this machine does not work as usual, please stop using, take out the batteries or cut off the AC power immediately. Please contact the local distributor or accepted service center to ensure your effective rights and interests.

Permission:

In most countries of the world, regulations for wireless system are generally stipulated by the governments. To get legal usage permission is a must. The local distributors may give you regulations for wireless system in your district.

SPECIFICATION

Receiver

Receive mode	crystal frequency lock
frequency stability	15PPM
sensitivity	3uV 30dB S/N
signal to noise ratio	60dB
audio output	0~0.5V/4.7K
power	AC120(\pm 10%)

Transmitter

frequency stability	15PPM
modulate mode	FM
modulate degree	>30KHz
emission power	30mV MAX
harmonic suppression	40dB
battery	1.5V AA battery

System specification

frequency stability	\pm 0.005%
modulate mode	FM
frequency response	50-16000Hz
signal to noise ratio	>60dB
maximum sound pressure	\geq 120dB
distortion factor	\leq 1%
effective field (in the open air)	50M
operation temperature	10 $^{\circ}$ C~+50 $^{\circ}$ C