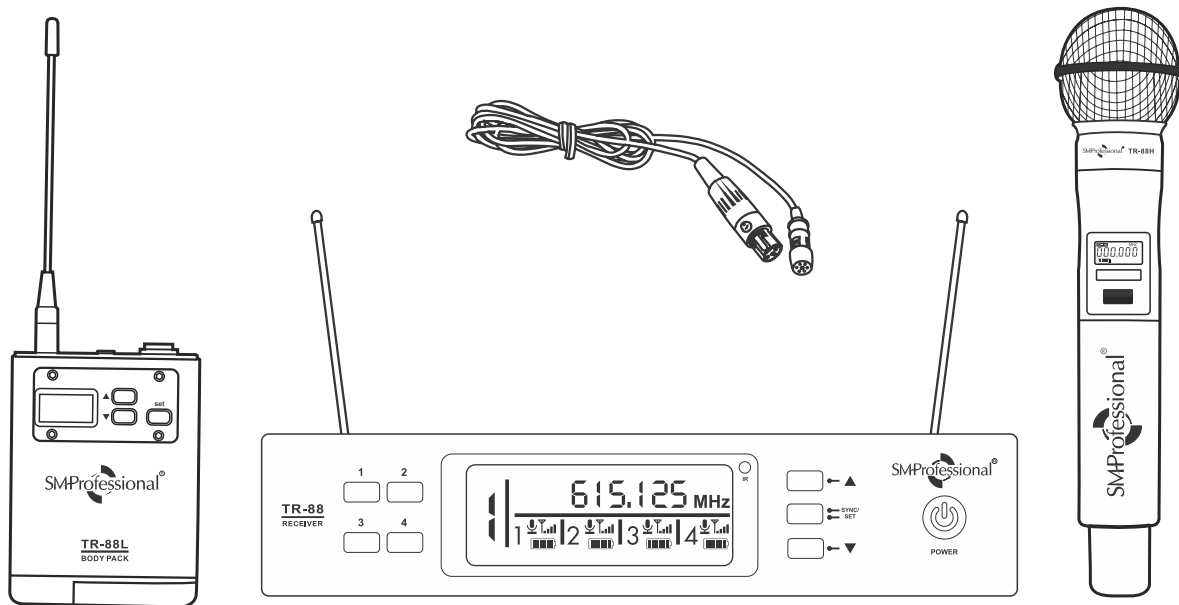




TR-88

Professional Four channels UHF Wireless Microphone System



The SMProfessional TR-88 is a high quality four channels UHF wireless microphone system engineered for the most demanding touring and installation applications. To ensure optimum performance and safety, please follow this instruction manual carefully. Please retain this manual for future reference. For any complaint, feedback or testimonials please contact our distributor / dealer.

1.....	Features
2.....	System Options
3.....	Operating Instructions
4.....	Channel No. & Frequency
5.....	Basic Troubleshooting.
6.....	Technical Specifications
7.....	Safety Instructions

1. Features

- High Quality Four Channels UHF Wireless Microphone System.
- Up to 200 Selectable Frequencies.(50 Variable frequencies each channels)
- Easy Setup via Infrared (IR).
- Anti Mobile & RF Interference Technology.
- Clear Backlit LCD Colour Display for Frequency, Channel, RF, AF & Battery Level Indication.
- Tactile Switches for Frequency Adjustment, Sync, Set & Volume Control.
- Panel Lock Option to Avoid Tampering During Operation.
- Balanced XLR (Individual Channels) & Unbalanced 1/4" Jack (Mix) Outputs.
- Premium, Robust & Attractive Metal Housing.

2. System Options

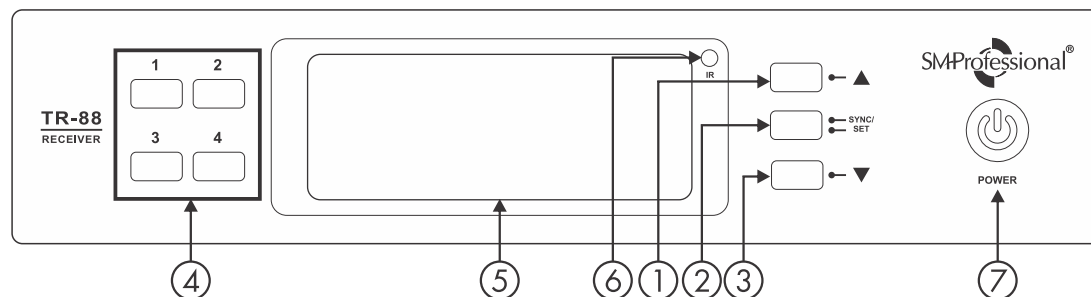
Model:

- TR-88 (Receiver / Handheld / Lapel)

3. Operating Instructions

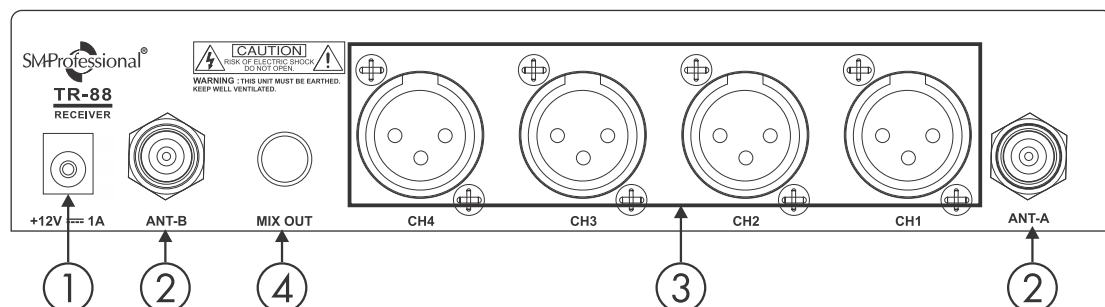
3.1 Receiver Features: Front & Rear Panel

Front Panel



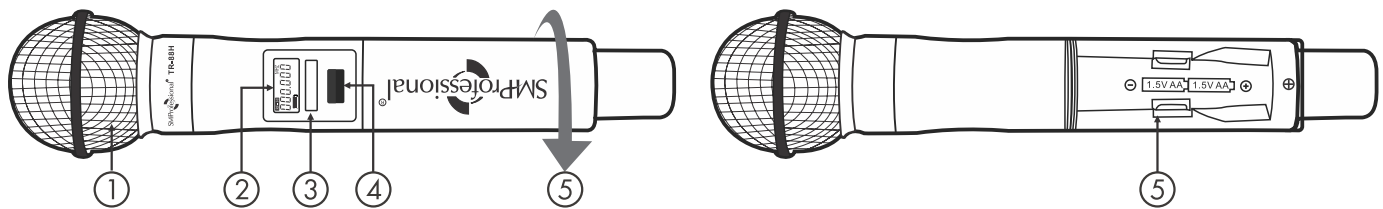
1. **▲ UP Key:** It is used to increase the volume or select channel frequency.
 - a) Single press to increase the channel volume.
 - b) Long press to increase the channel frequency.
2. **SET/SYNC:** After selecting the desired channel frequency, press "SET/SYNC" button to deploy it.
3. **▼ DOWN Key:** It is used to decrease the volume or select channel frequency.
 - a) Single press to decrease the channel volume.
 - b) Long press to decrease the channel frequency.
4. **Channels selection:** To select the channel on display.
5. **Display:** The screen displays the channel number, channel frequencies, volume, battery levels, lock activation status & handheld signal.
6. **IR Sensor:** Infrared (IR) sensor for quick auto sync with the transmitters.
7. **Power ON/OFF Switch:** To switch the receiver ON/OFF.

Rear Panel



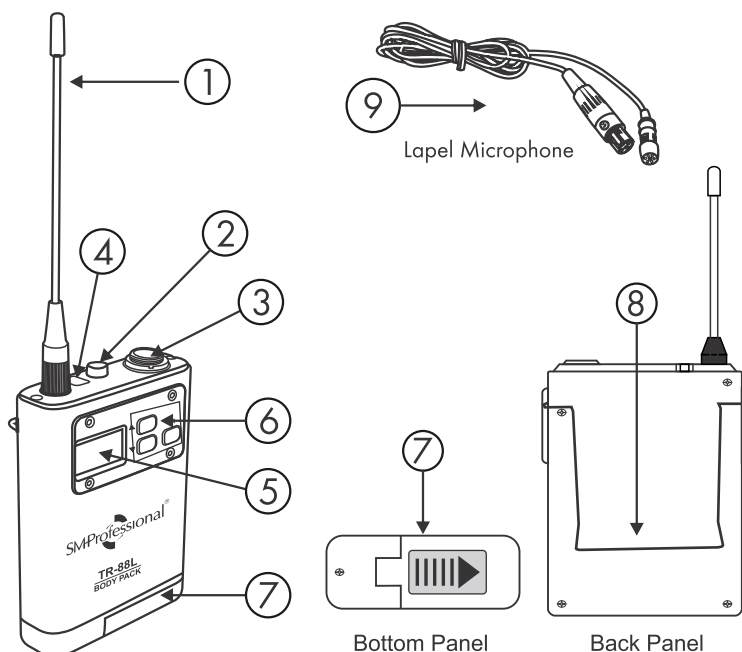
1. **Power Jack:** 12VDC input to power up the unit.
2. **Antenna:** Connect the supplied antennas to this port. The antennas receives signals from the transmitter. For better strength, keep the antennas fully extended.
3. **Balanced Audio Output:** 3-pin XLR (male) connectors are provided to connect to the sound reinforcement system.
4. **Mix Out:** 1/4" (6.35) unbalanced TRS jack is provided to connect the mix out to the sound reinforcement system.

3.2 Handheld Transmitter Features

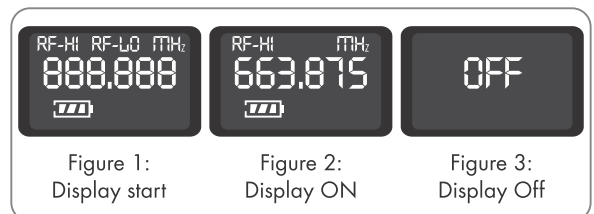


1. **Grill:** It protects the mic capsule from damage. It also acts as an effective pop filter.
2. **LED Screen:** It displays the channel frequency and battery level status.
3. **IR Window:** Infrared (IR) sensor for quick auto sync with the receiver.
4. **Power ON/OFF Switch:** Slide the switch UP/DOWN to switch the microphone ON/OFF.
5. **Battery Compartment:** Turn the cover anticlockwise to access the battery compartment. Insert 2 x 1.5V AA batteries to power the handheld transmitter.

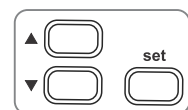
3.3 Body Pack Features



1. **Antenna:** Transmission Antenna.
2. **Power Switch:** It is used to switch the microphone ON/OFF.
3. **Mic Input:** 3-pin mini-XLR input socket to connect lapel microphone.
4. **IR Window:** Infrared (IR) sensor for quick auto sync with the receiver.
5. **Display Screen:**
 - It displays the channel frequency and battery level status.
 - When the battery completely gets dry the backlight will continuously blink.



6. **Function button:**
 - **Set:** Press set button to enter the multiple options and to select it.
 - **▲Up/▼Down button:** Press ▲Up/▼Down button to switch between available options.



How to change frequency:

- Press Set button one time to enter frequency change option
- Change Up/down button to switch between frequencies
- Press Set button to set the frequency

How to select RF power level:

- Press Set button two time to enter RF level change option
- Change Up/down button to switch between the RF power level Hi (P-H) & Lo (P-L)
- Press Set button to set the RF level

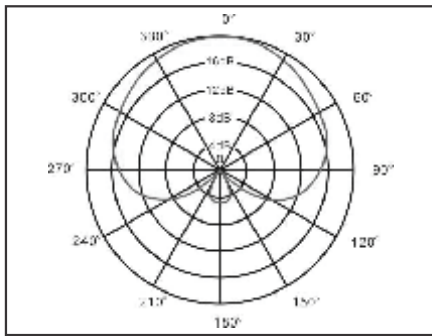


How to change volume:

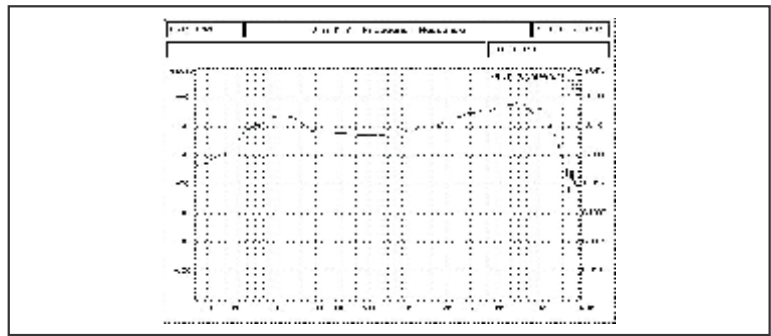
- Press Set button three time to enter volume change option
- Change Up/down button to increase/decrease the Volume
- Press Set button to set the volume

7. **Battery Compartment:** Slide the cover on the bottom panel sideways to access the battery compartment. Insert 2 x 1.5V AA batteries to power the bodypack transmitter.
8. **Belt Clip:** To hang on a belt/apparel.
9. **Lapel Microphone:** Connect the supplied lapel microphone to the bodypack transmitter.

3.4 Polar Pattern Transmitter

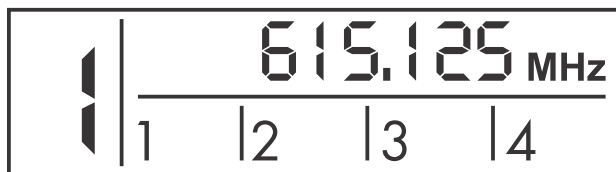


3.5 Frequency Response Curve Transmitter



3.6 How to operate

1. Check the connections between the receiver, mixer and amplifier are correct. Turn down the volume on the amplifier or mixer.
2. Switch the receiver ON. It will display the last selected frequency. There will be no indication on the display as the transmitters are OFF.



Receiver Display



Channel 1 Transmitter is OFF



Channel 2 Transmitter is OFF

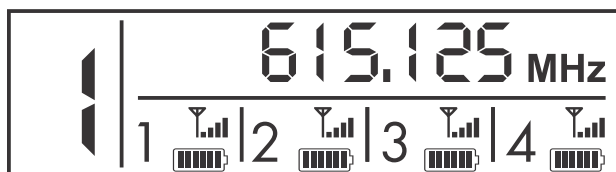


Channel 3 Transmitter is OFF



Channel 4 Transmitter is OFF

3. Switch the transmitter ON. When the transmitter is switched ON, the screen on the receiver displays the connected frequency.



Receiver Display



Channel 1 Transmitter



Channel 2 Transmitter



Channel 3 Transmitter



Channel 4 Transmitter

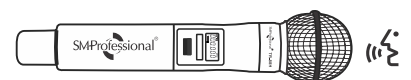
4. Test the transmitters. When the microphone is active, the microphone icon will blink on the display.



Receiver Display



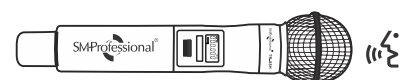
Channel 1: No Audio



Channel 2: Audio

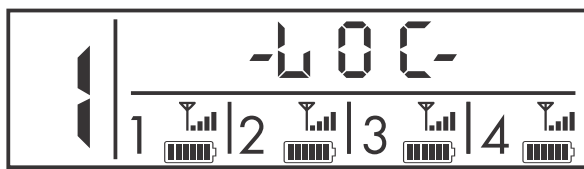
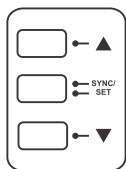


Channel 3: No Audio

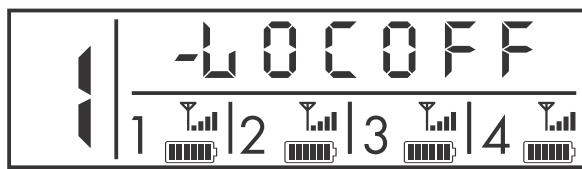


Channel 4: Audio

5. Panel locking. Press the SYNC/SET button two times to lock the panel.
Press the SYNC/SET button three times to Inlock the panel.

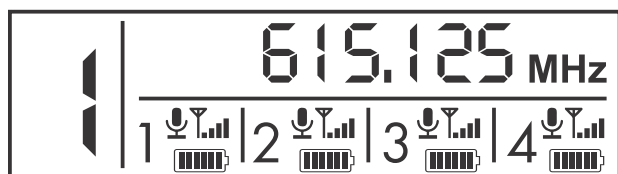


Screen Locked



Screen Unlocked

6. Changing / re-selecting the channel frequency:



Receiver Display



Channel 1 Transmitter



Channel 2 Transmitter

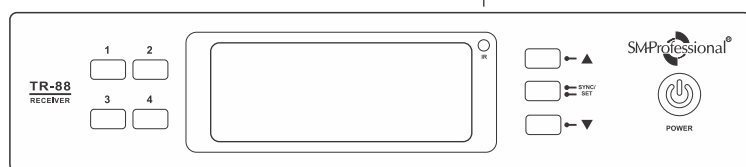


Channel 3 Transmitter



Channel 4 Transmitter

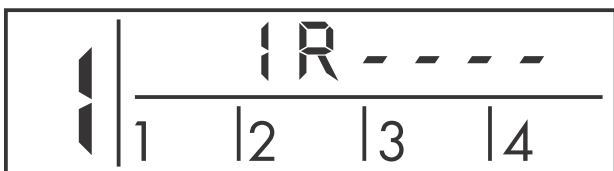
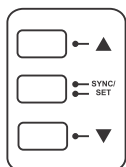
- Bring the transmitter and receiver close to each other and ensure that their respective Infrared (IR) windows face each other at a close proximity.



Channel 1 Transmitter



- Change the channel frequency on the receiver unit using the UP/DOWN keys as shown below. (long press the UP/DOWN keys & change the frequencies)



Receiver Display



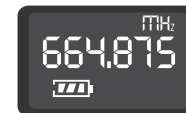
Channel 1 Transmitter



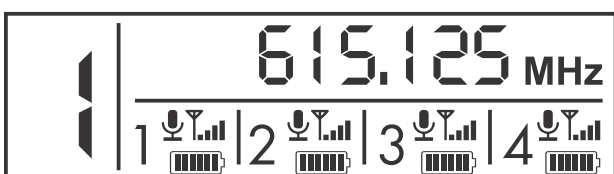
Channel 2 Transmitter



Channel 3 Transmitter



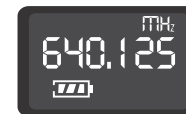
Channel 4 Transmitter



Receiver Display



Channel 1 Transmitter



Channel 2 Transmitter



Channel 3 Transmitter



Channel 4 Transmitter

4. Channel No. & Frequency

Note: For better reception, dropout-free performance and to avoid interference, TR-88 offers you a selection of total 200 UHF, 50 variable frequencies each channels. Listed below are the channels with their respective frequencies.

CH. 1		CH. 2		CH. 3		CH. 4	
615.125	621.375	640.125	646.375	627.625	633.875	652.625	658.875
615.375	621.625	640.375	646.625	627.875	634.125	652.875	659.125
615.625	621.875	640.625	646.875	628.125	634.375	653.125	659.375
615.875	622.125	640.875	647.125	628.375	634.625	653.375	659.625
616.125	622.375	641.125	647.375	628.625	634.875	653.625	659.875
616.375	622.625	641.375	647.625	628.875	635.125	653.875	660.125
616.625	622.875	641.625	647.875	629.125	635.375	654.125	660.375
616.875	623.125	641.875	648.125	629.375	635.625	654.375	660.625
617.125	623.375	642.125	648.375	629.625	635.875	654.625	660.875
617.375	623.625	642.375	648.625	629.875	636.125	654.875	661.125
617.625	623.875	642.625	648.875	630.125	636.375	655.125	661.375
617.875	624.125	642.875	649.125	630.375	636.625	655.375	661.625
618.125	624.375	643.125	649.375	630.625	636.875	655.625	661.875
618.375	624.625	643.375	649.625	630.875	637.125	655.875	662.125
618.625	624.875	643.625	649.875	631.125	637.375	656.125	662.375
618.875	625.125	643.875	650.125	631.375	637.625	656.375	662.625
619.125	625.375	644.125	650.375	631.625	637.875	656.625	662.875
619.375	625.625	644.375	650.625	631.875	638.125	656.875	663.125
619.625	625.875	644.625	650.875	632.125	638.375	657.125	663.375
619.875	626.125	644.875	651.125	632.375	638.625	657.375	663.625
620.125	626.375	645.125	651.375	632.625	638.875	657.625	663.875
620.375	626.625	645.375	651.625	632.875	639.125	657.875	664.125
620.625	626.875	645.625	651.875	633.125	639.375	658.125	664.375
620.875	627.125	645.875	652.125	633.375	639.625	658.375	664.625
621.125	627.375	646.125	652.375	633.625	639.875	658.625	664.875

Usage Tips

- Make sure you can always see the receiver antenna from the transmitter position.
- Keep the distance from the transmitter to receiver as short as possible
- Avoid obstructions between the transmitter and the receiver.
- Perform a "Walk Test" before the performance or presentation. If dead spots are found, adjust the location of the receiver. If dead spots remain, mark and avoid the spots.

5. Basic Troubleshooting

Problem	Solution
No Voice: (No signal on receiver)	• Check whether power switches of transmitter & receiver are ON. • Check whether the battery connections are correct & battery polarity is right in the transmitter. • Check whether the antenna is properly connected to the receiver. • Make sure that there is no obstruction between the antenna & the transmitter.
No Voice: Signal is normal.	• Check whether the receiver level is set to max. • Check whether the connection between receiver & mixer, mixer & amplifier or amplifier & speaker are correct. Also check if the mixer or amplifier volumes are ok.
No Voice: RF signal is normal but AF signal is weak.	• Check whether the transmitter battery is fully charged.. • Check whether the same channel frequency is selected on the receiver as of the microphone.
When the transmitter is ON, there is noise or interruption in the receiving signal.	• Check whether the battery is charged fully. • Eliminate any RF sources of disturbance nearby which causes interference. • If the signal is too weak, place the receiver closer to the transmitter.

6. Technical Specifications

RECEIVER

Operating frequency range	615MHz-665MHz
Receiving Frequency	Variable
Modulation mode	FM
Oscillation mode	PLL
Frequency Response	50Hz-15KHz
Total Harmonic Distortion (1 kHz)	<0.3%
Signal to noise ratio (S/N)	>105dB
Maximum frequency offset	±45KHz
Spurious suppression	≥ 80dB
Mirror suppression	≥ 80dB
Sensitivity	5dBuV
Audio output level	
Balanced output (XLR output jack)	250mV/600 Ω
Unbalanced output (1/4" output jack)	400mV/K3Ω
Power Requirement	DC 12-16V
Current Consumption	150 mA

HANDHELD TRANSMITTER

Operating frequency range	615MHz-665MHz
Modulation mode	FM
Oscillation mode	PLL
Transmit frequency stability	+0.03%
Frequency Response	50Hz-15KHz
Dynamic Range	≥100dB (A)
RF Power output	Max 30mW
Maximum input sound pressure	130dB SPL
Battery Type	2 x 1.5V (AA)
Current Consumption	100 mA
Battery Life	4-5 Hours
Working distance	50 meters (Line of sight)

7. Safety Instructions

- Keep the wireless receiver in a good location to ensure good signal strength.
- Please keep the product away from direct sunrays & rain.
- Please keep the product away from heavy magnetic or electromagnetic fields, it could affect product performance.
- Please switch off when removing the batteries.
- Please remove the batteries/ power supply when the product is not being used for a long time.
- Do not open any of the components yourself, for repairs please contact an authorised SMProfessional dealer.
- Do not use systems with the same frequency at the same place, please separate them by a considerable distance.

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