

# Wireless Transceiver System (TPRF-900) Manual

## 1. Getting Started

### . Introduction:

This equipment has been manufactured and tested under strict quality control conditions. This Wireless Transceiver System has been tested within a 1000 feet radius. The receiving chips use a Super Heterodyne method, while the Base and Hand sets use and coincides with a Digital Coded method. In case of frequencies overlapping with other waves, up to 40 different channels can be selected for clearer reception by manually using the Channel Switch button

### . Equipments:

- a. Base Set – 1 unit
- b. Hand Set – 1 unit
- c. Headset (optional) – 2 units
- d. Microphone – 1 unit
- e. Rechargeable Battery – 1 pack
- f. User's Manual – 1 book

\* Accessories parts are subject to change without any notice for functional improvements.

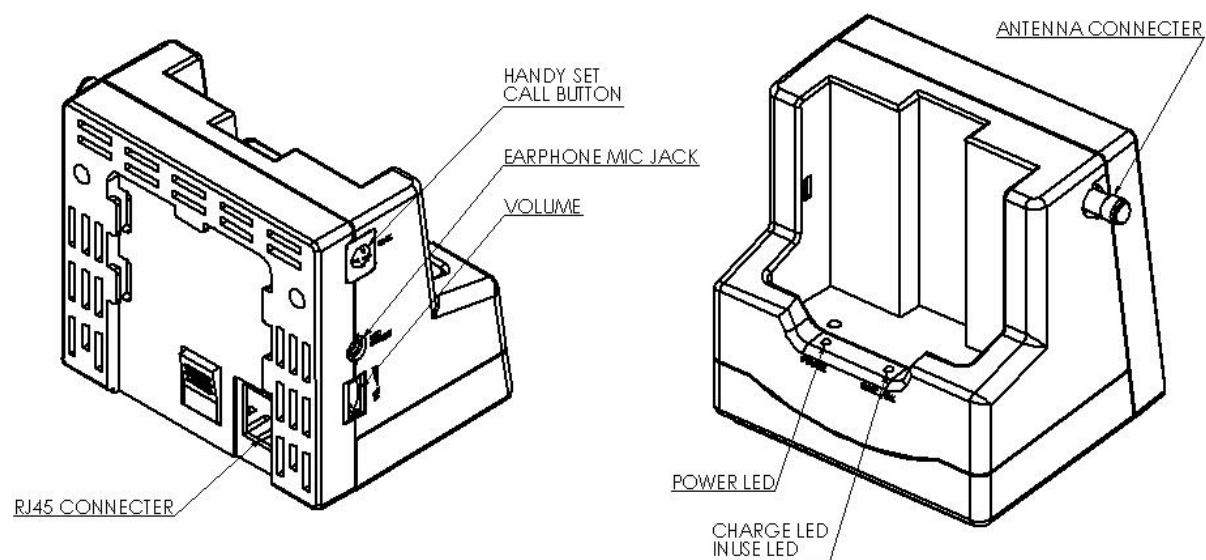
### . Cautions:

- a. Use only the given antenna with the Base Set
- b. Do not immerse in water or keep in humid areas
- c. Do not place near TV, speakers, or other electronic devices
- d. Before installation, check power supply and voltage to avoid hazards
- e. Do not apply force or shock to the unit
- f. Do not disassemble the unit

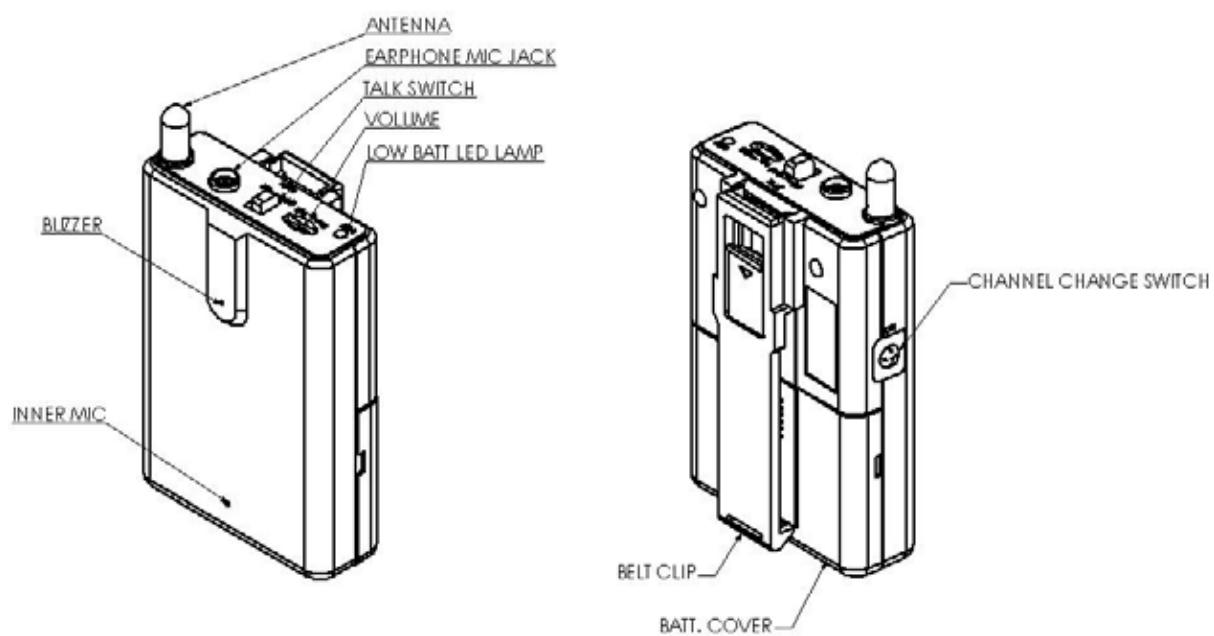
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## Parts Description:

### Base Set:



### Hand Set:



## **2. Functions:**

This Wireless Transceiver System can automatically search, find, and memorize the best reception within 40 channels. Therefore, top of the line clarity and communication is guaranteed.

### **a. Hand Set:**

The Talk ON/OFF switch, can activate the Base unit.

### **b. Base Set:**

The RJ-45 #6 pin is used for controlling the communication. If a LOW (TTL:"L") signal is received, the communication is enabled regardless the Hand Set is ON or OFF. If a HIGH (TTL:"H") signal is received, the communication is disconnected.

### **c. Channel Surfing:**

If reception becomes unclear, press the Channel Switch button once.

### **d. Security:**

The CPU and EEPROM can choose from one million different passwords to prevent eavesdropping.

### **e. Paging:**

The Base Set can page the Hand Set for communication.

### **f. Standby:**

While charging, the Hand Set is in standby mode.

### **g. Communication Range:**

When the Hand Set goes out of range, a warning beep will sound on the Hand Set.

### **h. Low Battery:**

When the Hand Set is low on battery, a warning beep will sound and a warning light will appear.

### 3. Base and Hand Set Installation

#### Base Set

- a. Connect the RJ-45 connector to the Base Set
- b. Connect the Microphone (optional Headset) to the Base Set

#### Hand Set

- a. The battery pack is not built-in the Hand Set for safety reasons. Connect the battery pack to the Hand Set and then turn the power switch ON (located in the battery storage area)
- b. Prior to use, charge the unit by placing the Hand Set in the Base Set for at least 3~5 hours
- c. Connect the Microphone (optional Headset) to the Hand Set

#### RJ-45 Connector Pin Description

- ① VCC : DC power (10V ~ 16V DC)
- ② GND : DC power GND
- ③ RX Audio : RX Audio signal + TX Audio signal
- ④ GND :
- ⑤ TX Audio(AUX) : TX Audio
- ⑥ RF module ON : (TTL : “L”)
- ⑦ RF Loop ON : Hand, Base Set Loop ON signal (TTL : “L”)
- ⑧ MIC/Headset ON : MIC/Headset ON signal (TTL : “L”)

#### Beep Tone

Power ON/OFF-----	→ Beep
Low Battery -----	→ Bee- Beep
Connection Established -----	→ Beep~
Hand and Base Set Recognition -----	→ Beep~
Charging Mode -----	→ Beep~
Paging from Base Set-----	→ Beep~ Beep ~ Beep (continuously)
Out of Communication Range-----	→ Bee-Bee-Beep
Disconnection-----	→ Beep

## 4. Rechargeable Battery Pack

It is recommended that before using, charge the unit by placing the Hand Set in the Base Set for at least 3~5 hours.

### Replacing the Battery Pack

- a. Remove the battery cover on the Hand Set
- b. Turn the power switch OFF (located in the battery storage area)
- c. Detach the battery pack cable from Hand Set
- d. Connect the new battery pack to the Hand Set and then turn the power switch ON (located in the battery storage area)
- e. Close the battery cover

## 5. Recommendations

- a. Prior to use, charge the unit by placing the Hand Set in the Base Set for at least 3~5 hours
- b. The LED on the Base Set indicates Charging Mode. If LED light does not turn on, call the A/S center
- c. If the Hand Set is not in use for long periods, turn the power switch OFF (located in the battery storage area).
- d. Check the LED on Hand Set for Low Battery status
- e. Charge Hand Set when not in use for short periods

## 6. Troubleshooting

Problems	Check Points
No reception	<ul style="list-style-type: none"><li>- check the battery status</li><li>- check the connection and cables</li><li>- check the communication range</li></ul>
Poor reception, static, noise	<ul style="list-style-type: none"><li>- change the location of Base Set</li><li>- check the communication range</li><li>- check to see if placed near TV, speakers, or other electronic devices</li></ul>

### **FCC COMPLIANCE STATEMENT**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

Operation is subject to the following two conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:**

- 1) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 2) This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.