

# STAGE SERIES PHASE TESTER SPT-3rt User Manual

MADE IN  TAIWAN



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**UNiKA**  
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# Overview

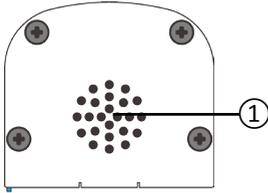
SPT-3rt is the best tools of UNiKA Stage Series. This tool is suitable for any speaker manufacturer, touring and fixed installation applications. It can be used for testing phase either speaker or balance cable. An external microphone input socket can be connected external dynamic microphone to test the speakers that have been hung up. By using neodymium magnet to combine transmitter and receiver units for easy carrying.



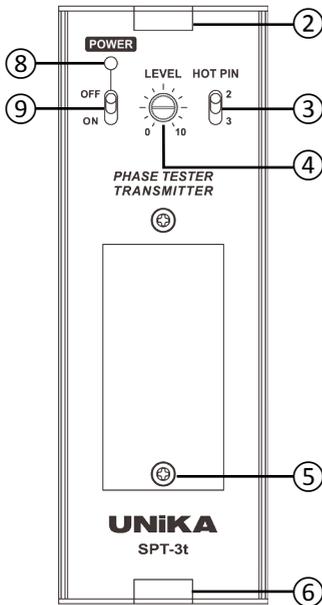
# Features

1. Detect the phase accuracy in any audio system, prevent the musical signal from cancellation due to the opposite phase.
2. Detect the XLR signal cable to prevent it from contact fail, brokerage or opposite connection.
3. Built-in external microphone input socket in order to use for the harder environment such as the hanging speaker cluster.
4. Testable range from 10 cm to 3 meters. Some ideal environment can be tested far away from the axis of speaker for 7 meters.

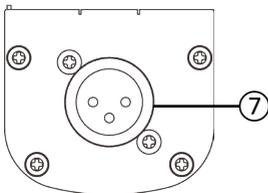
# Functions Instruction



## SPT-3t Transmitter

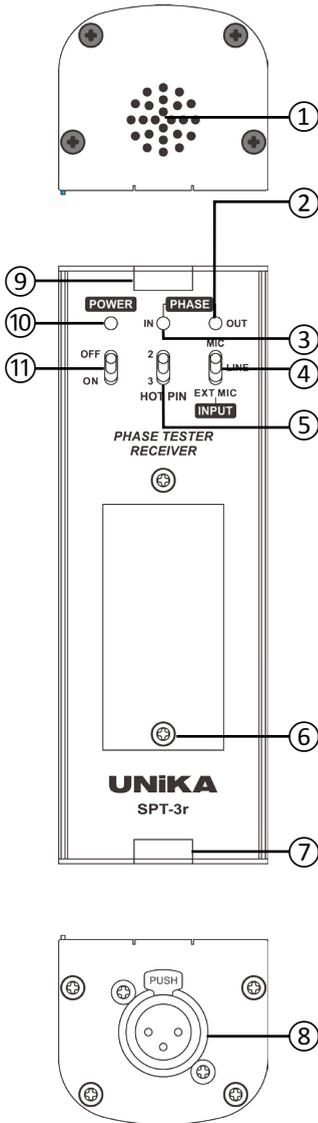


- ① Buzzer to generate pulse tone.
- ② Neodymium magnet to combine SPT-3r receiver.
- ③ HOT PIN selector, select test pin of XLR cable either pin-2 or pin-3.
- ④ Linear pot to tune pulse tone level.
- ⑤ Release screw to open battery cabinet. Recommend to use 9V PP3 Alkaline battery.
- ⑥ Neodymium magnet to combine SPT-3r receiver.
- ⑦ Male XLR connector to connect balance cable to send pulse tone to mixer.
- ⑧ Power and pulse tone indicator.
- ⑨ Power switch.



# Functions Instruction

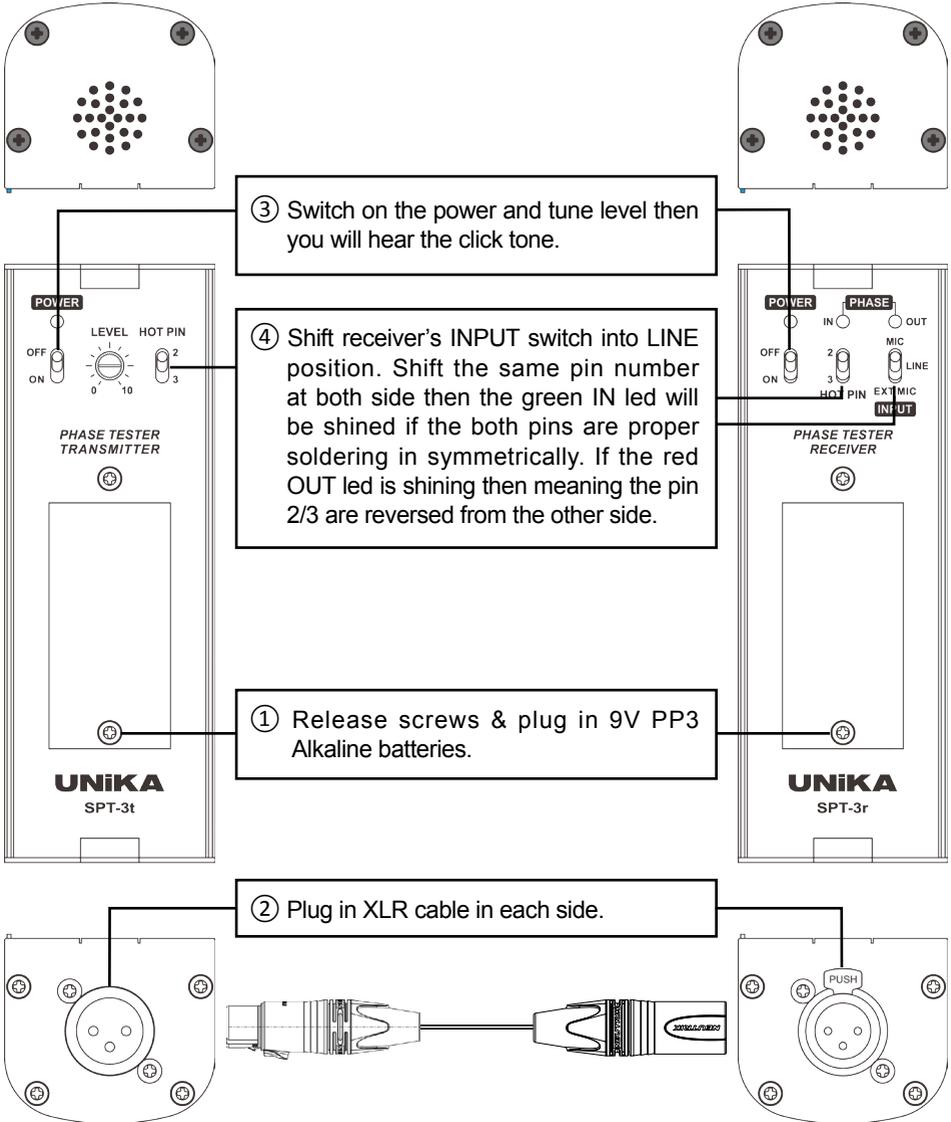
## SPT-3r Receiver



- ① Omni direction microphone.
- ② Red color out phase indicator.
- ③ Green color in phase indicator.
- ④ Input selector, select test sources and applications from built-in Mic/Cable test/EXT MIC etc.
- ⑤ HOT PIN selector, select test pin of XLR cable either pin-2 or pin-3.
- ⑥ Release screw to open battery cabinet. Recommend to use 9V PP3 Alkaline battery.
- ⑦ Neodymium magnet to combine SPT-3t transmitter.
- ⑧ Female XLR connector to connect external dynamic microphone.
- ⑨ Neodymium magnet to combine SPT-3t transmitter.
- ⑩ Blue color power indicator.
- ⑪ Power switch.

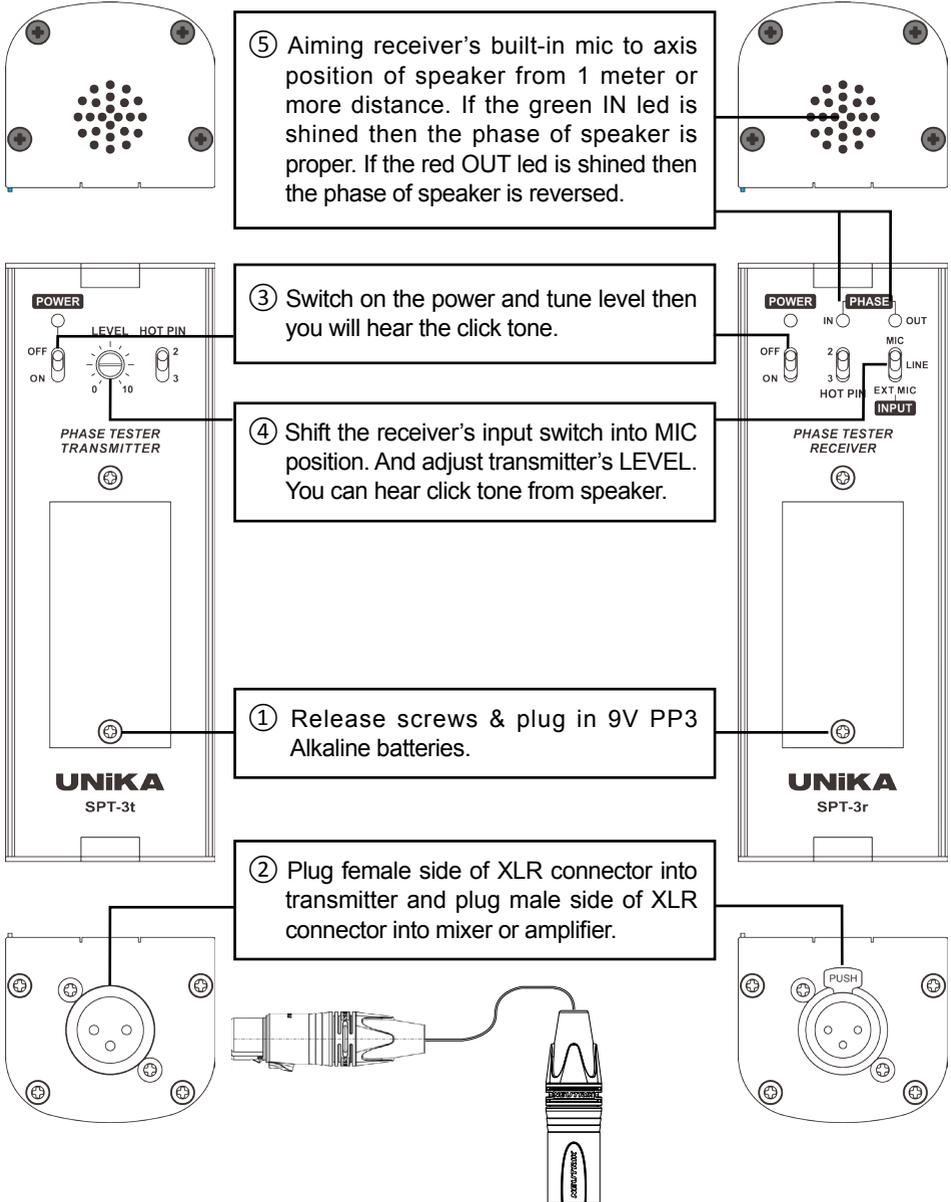
# Operational Guidance

## 1. Phase tester - Test XLR cable



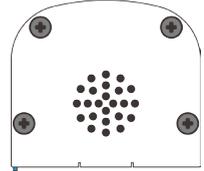
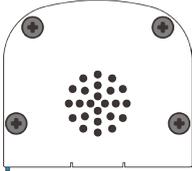
# Operational Guidance

## 2. Test speaker's phase by built-in MIC



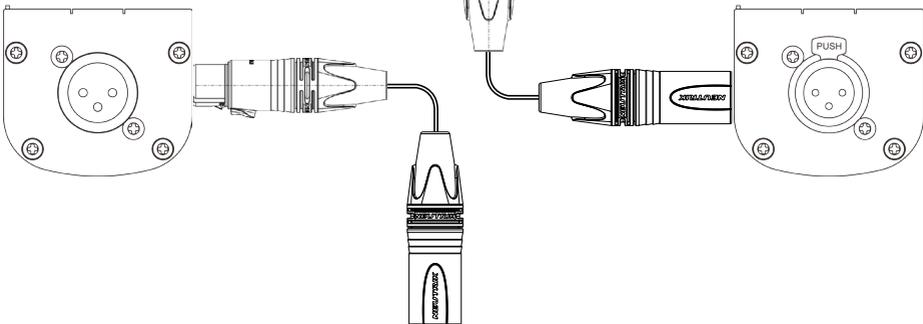
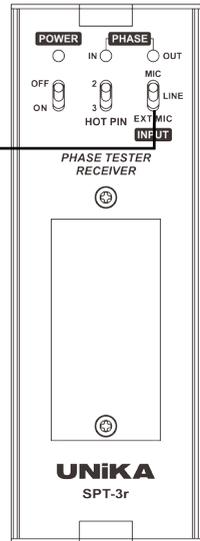
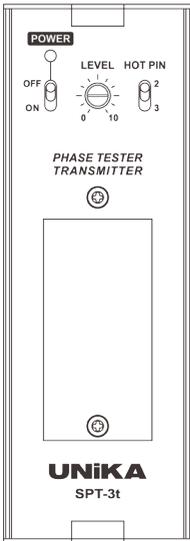
# Operational Guidance

## 3. Test speaker's phase by EXT. MIC



All procedures are same as Chapter-2 But connect ext. dynamic mic to be instead of built-in mic. And shift INPUT switch into EXT.MIC position.

**Note: Do not use condenser mic because receiver did not provide phantom power.**



# Notes

1. Avoid direct sun light and damp working environment.
2. The unit is designed to operate between 0°~55°C (32°~122°F) and in an atmosphere of relative humidity up to 80%.
3. Recommend to use 9V PP3 Alkaline battery.

✉ [info@unikapro.com](mailto:info@unikapro.com)

If you still need further clarification, please send email to us and we will do our very best to reply you in short order.

# Specification

The following information is subject to change without notice.

TRANSMITTER	
Signal type	Pulse tone from buzzer
Frequency spectrum, electrical	1Hz to 20KHz
Frequency spectrum, acoustic	200Hz to 5KHz
Output level, electrical	0 to 1V (Acoustic level is fixed)
Output load impedance	>1K $\Omega$
Output source impedance	1K $\Omega$
Power supply	9V PP3 Alkaline battery (approx. 50 hours)
Power consumption	10mA
RECEIVER	
Frequency spectrum, electrical	1Hz to 20KHz
Frequency spectrum, acoustic	10Hz to 1KHz
Input impedance (Mic)	1K $\Omega$
Input impedance (Line)	10K $\Omega$
Input level (Mic)	10mV - 1V
Input level (Line)	0.5V to 50V
Output level	0V to 1V
Power supply	9V PP3 Alkaline battery (approx. 50 hours)
Power consumption	10mA
PHYSICAL CHARACTERISTICS (whole set)	
Dimensions/Shipping dimensions ( W x D x H )	120 X 95 X 56 mm
20pcs packs dimensions ( W x D x H )	245 X 195 X 117 mm
Weight/Shipping weight	0.4 Kg / 0.45kg
20pcs packs shipping weight	10.0 Kg
Operating temperature	0°~50°C
Storage temperature	-30°~+75°C





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