

# PHASE TESTER

# SPT.Light

## User Manual



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# Introduction

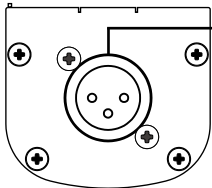
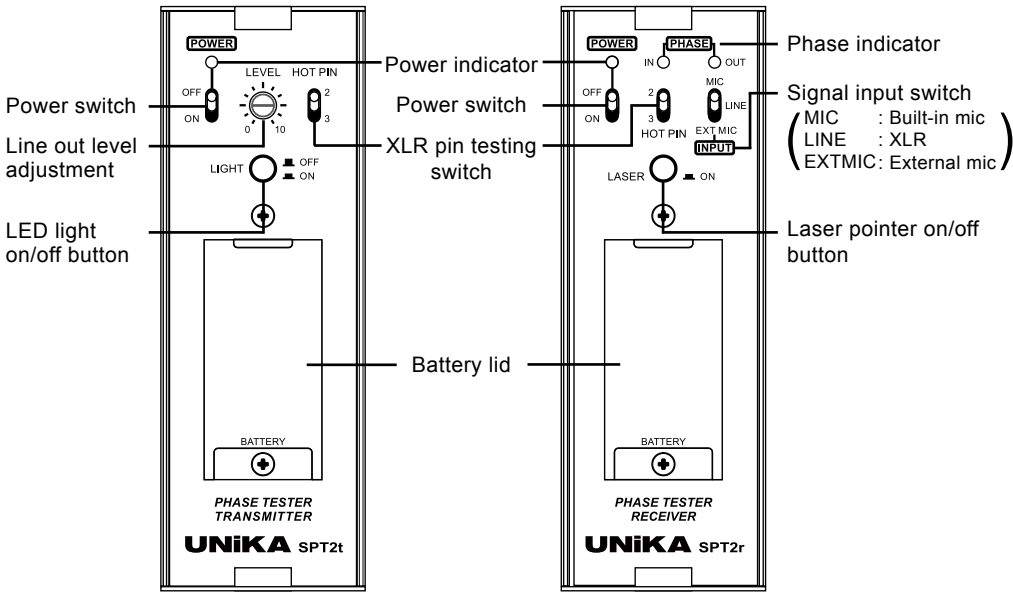
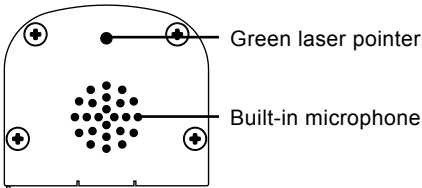
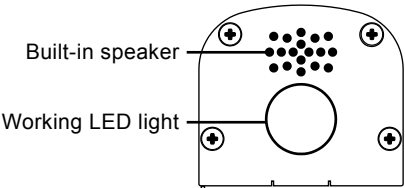
SPT.LIGHT is Unika's second generation advanced product of SPT series. Besides basic speaker polarity testing, it provides XLR cable detection, working LED light and laser pointer.

## Features

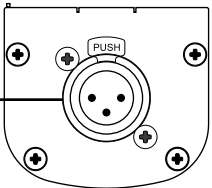
1. Detect the phase accuracy in any audio system, prevent the musical signal from cancellation due to the opposite phase.
2. Detect the XLR signal cable to prevent it from contact fail, brokerage or opposite connection.
3. LED light enable to work in the dark.
4. Green laser pointer which can reach up to 300 meters.



# Controls and Features



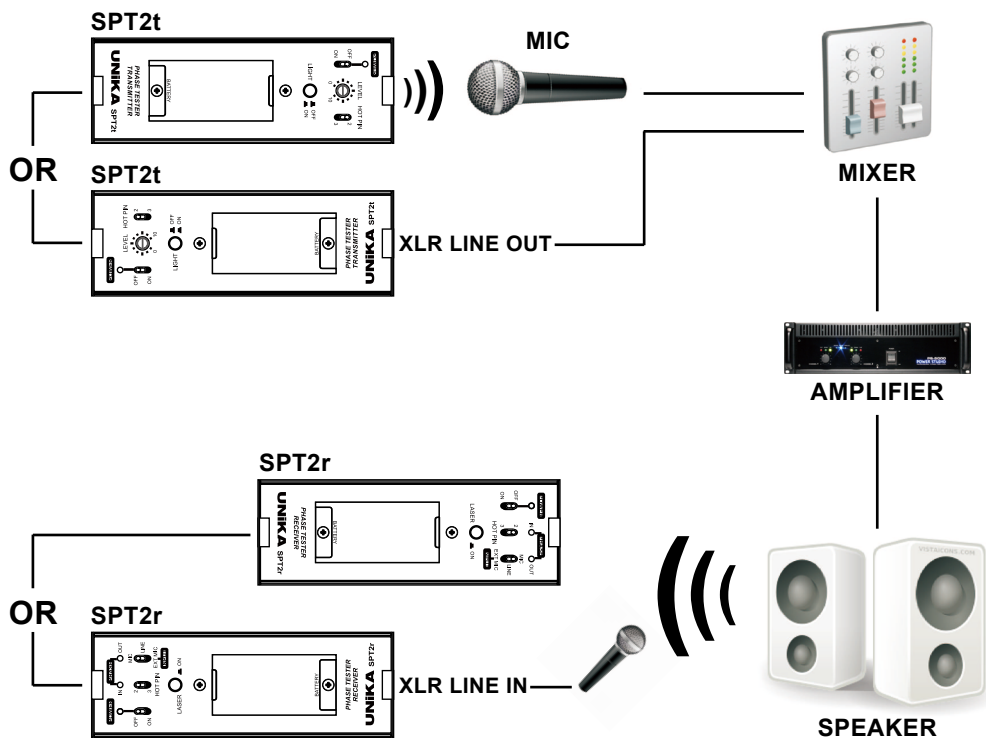
Signal transmitter  
( SPT2t )



Signal receiver  
( SPT2r )

# Operating Instruction

## Speaker Phase Testing



# Operating Instruction

## Signal Output

When using SPT2t built-in speaker:

1. Turn on the power switch on SPT2t, it will generate "Bee" sound from its built-in speaker and the power LED will flash.
2. Using a microphone to pick up the "Bee" signal and send the signal through mixer to amplifier then to speakers.

When using SPT2t's line output:

1. Turn on the power switch on SPT2t, it will generate "Bee" sound from its built-in speaker and the power LED will flash.
2. Connect SPT2t from its XLR line output to a mixer and send the signal to amplifier then to speakers.
3. The rotary fader on SPT2t allows you to adjust the signal level transmitted by XLR cable.

## Signal Input

When using SPT2r built-in microphone:

1. Turn on the power switch on SPT2r, the power LED will be lit.
2. Switch the INPUT to "MIC" position.
3. Place microphone on SPT2r close to the loud speaker to pick up the signal from SPT2t.
4. When the green LED is lit, the signal from the speaker is In-Phase (positive). If the red LED is lit, the signal from the speaker is out of phase (negative). Please check all the wire connections.

When using SPT2r with external microphone:

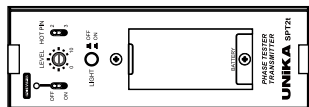
1. Turn on the power switch on SPT2r, the power LED will be lit.
2. Switch the INPUT to "EXT MIC" position.
3. Connect a microphone to SPT2r through a XLR cable.
4. Place an external microphone close to the loud speaker to pick up the signal from SPT2t.
5. When the green LED is lit, the signal from the speaker is In-Phase (positive). If the red LED is lit, the signal from the speaker is out of phase (negative). Please check all the wire connections.

※ **Note:** This unit Dose Not provide Phantom Power for external microphone.

# Operating Instruction

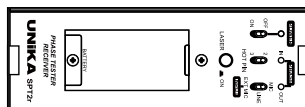
## XLR Cable Detection

SPT2t



XLR LINE OUT — XLR LINE IN

SPT2r

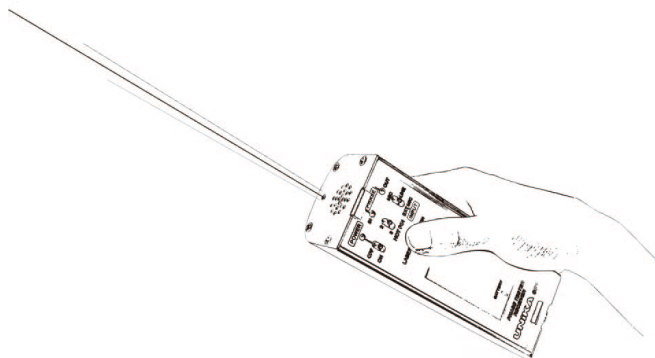


1. Turn on SPT2t and SPT2r power switches, the power indicators are lit.
2. Connect the cable that you wish to test to SPT2t and SPT2r.
3. The "HOT PIN" switches on SPT2t and SPT2r need to be set at the same PIN position.(Both set to 2, or both set to 3)
4. Switch the INPUT selection to "LINE" on SPT2r.
5. When the green LED on SPT2r is lit, the cable is fine and the PIN position is correct. If the LED on SPT2r is not lit, it means the cable might be damaged or wired incorrectly.
6. You may adjust the signal level transmitted by XLR cable on SPT2t.

## Green Laser Pointer

To use the Laser pointer, simply press and hold "ON" on SPT2r.

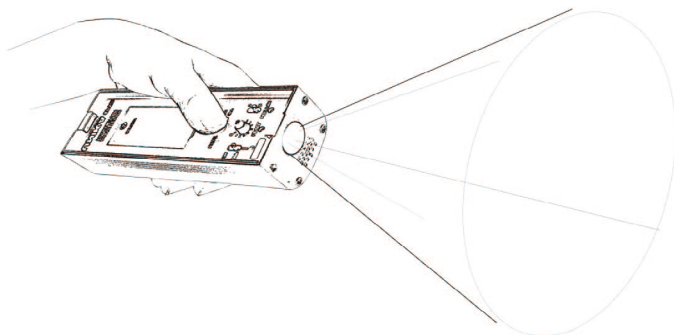
※ Please do not aim the laser pointer directly at your or other's eyes.



# Operating Instruction

## Working LED Light

To use or turn off the LED light, press the "ON/OFF" button on SPT2t.



## 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. Please use 9V PP3 battery.

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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.

GENERATOR	
Pulse rate	1Hz
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	9V PP3 battery (=approx 50 hours)
Power drain	10mA
Flashlight	5 LED lights
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	9V PP3 battery (= approx 50 hours)
Power drain	10mA
Laser light	Green light 4mw
PHYSICAL CHARACTERISTICS (each box)	
Dimensions ( W x D x H )	140mm x 80mm x 50mm
Weight	0.25 Kg
Shipping weight	0.65 Kg
Operating temperature	0°~50°C
Storage temperature	-30°~+75°C