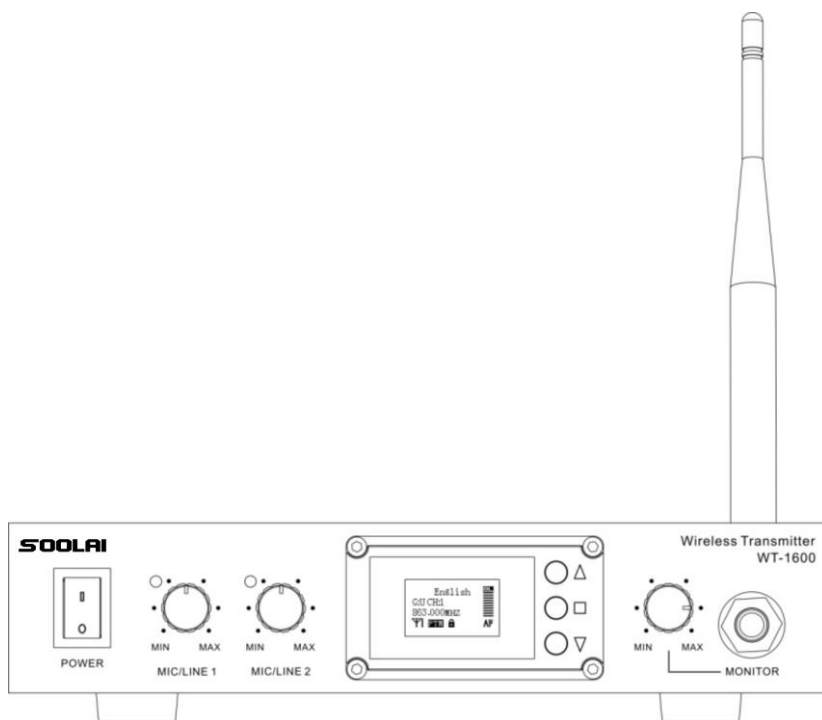


Stationary Wireless Transmitter

WT-1600

User Manual



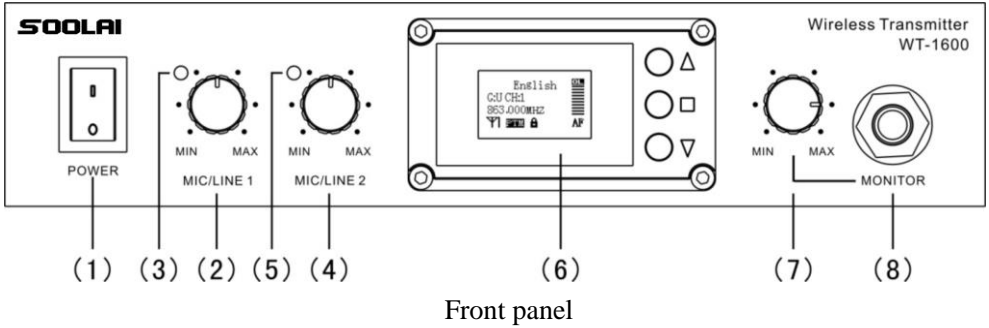
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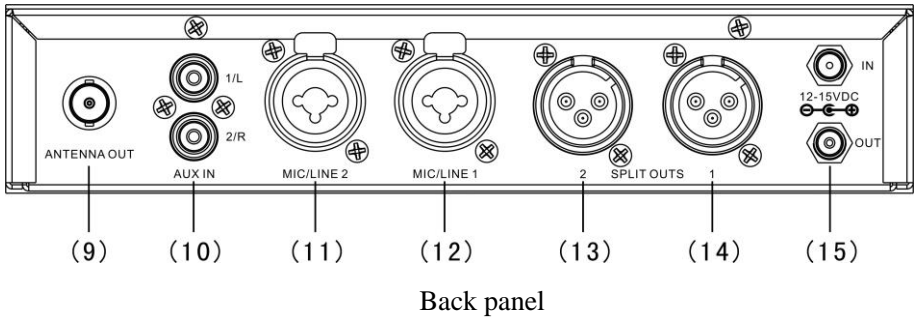
Special Features

- UHF professional frequency, PLL synthesized design, an ultra-wide 40MHz bandwidth, 1599 frequencies be selected.
- Switching 32 language-channels quickly, displaying languages name / channel / frequency simultaneously.
- Channel group design, with 32 channels in User Group, could adjust frequency and name in it.
- 128*64 dot matrix double-color OLED display.
- Displaying name, group, channel, frequency, volume, RF level, phantom power and lock Mode.
- Two microphone / Line balanced input (XLR-1/4 ") and unbalanced RCA input.
- Phantom power ON/OFF function, supplying 48v phantom voltage for two microphones input.
- Microphone / Line input level indicators.
- XLR split output, each male XLR output jack duplicates the signal of the corresponding MIN/line input.
- Headphone monitor on WT-1600 for local listening.
- Supporting Quick-mute function.
- Panel lock with password.
- RF power output setting, Low / Normal / High.
- Operating range 300-600ft in open ground.

WT-1600 Parts Instruction

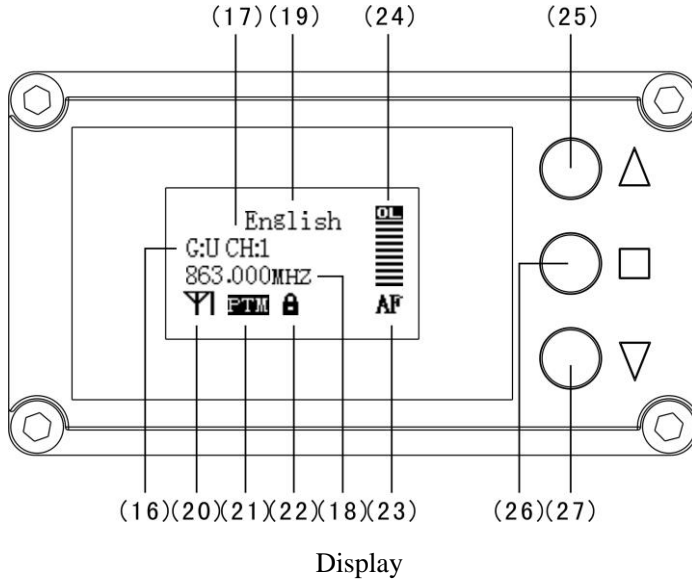


- (1). ON / OFF button.
- (2). "MIC/LINE 1" input volume control.
- (3). "MIC/LINE 1" input indicator light.
- (4). "MIC / LINE 2" input volume control.
- (5). "MIC/LINE 2" input indicator light.
- (6). Display screen and control panel.
- (7). Monitoring level control.
- (8). Monitoring output with 1/4 inch jack socket and dual track output, could be connected to earphone or recording device.



- (9). Antenna, BNC jack socket
- (10). Mixing input "AUX IN".
- (11). "MIC/LINE 2" input with XLR-1/4 inch balanced input, supporting of 48v phantom voltage.
- (12). "MIC/LINE 1" input with XLR-1/4 inch balanced input, supporting of 48v phantom voltage.

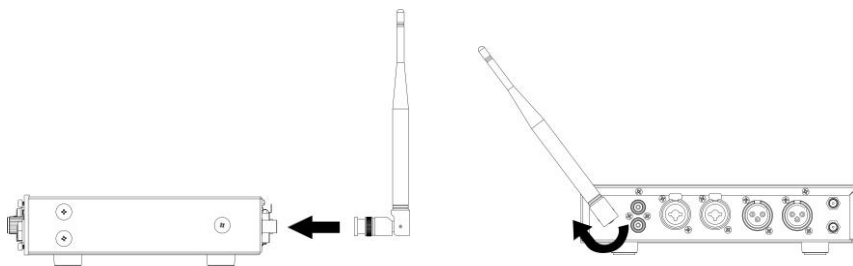
- (13). XLR 2 split output, connecting MIC/LINE 2 signal to mixing console or other devices.
- (14). XLR 1 split output, connecting MIC/LINE 1 signal to mixing console or other devices.
- (15). Power supply input / output, DC 12-15V/1A.



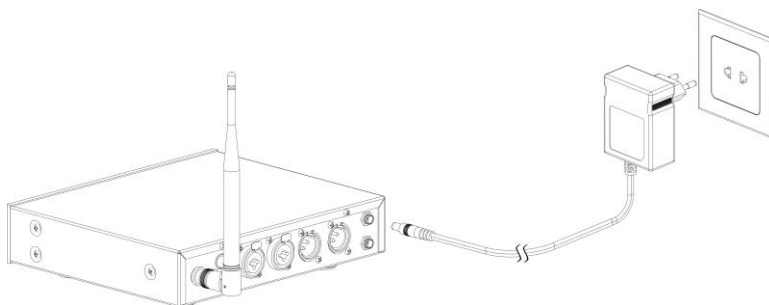
- Display
- (16). Group display. Channel group "1-7", User Group "U".
 - (17). Channel display.
 - (18). Frequency display, frequency of 32 channels in User Group can be user-defined.
 - (19). Name display.
 - (20). Transmitting RF power display.
 - (21). 48V phantom voltage display.
 - (22). Lock mode item.
 - (23). Audio display, MUTE / AF display.
 - (24). Audio overload display, 'OL' means transmitter MIC input volume is too high. Please decrease the input volume of MIC/LINE 1, MIC/LINE 2 or AUX IN.
 - (25). UP button "▲".
 - (26). SET button "■".
 - (27). DOWN button "▼".

Operation Control

1. Setup antenna.

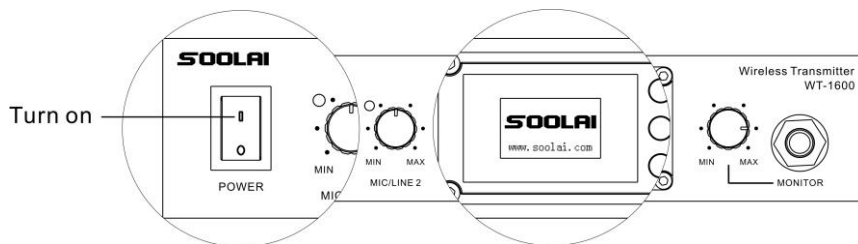


2. Connect 12V DC power adapter with DC input.

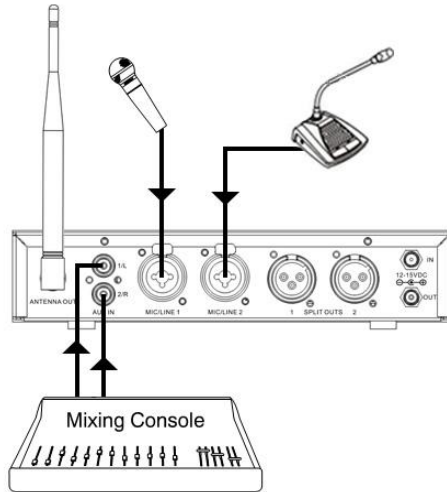


Remark: Please make sure the ON/OFF button is on OFF state before you connect power adapter

3. Press ON/OFF button to turn on the device.

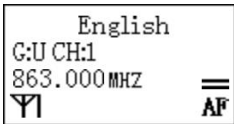
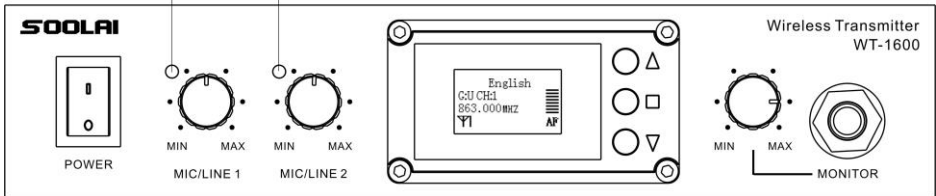


4. Connect audio device via MIC/LINE1, MIC/LINE2 or AUXIN.

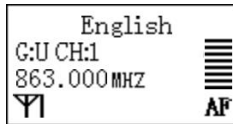


5. Adjust input volume.

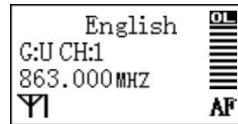
- Light is out, low input level.
- Green light, it is normal.
- Red light, high input level.



Low input level



Normal input level

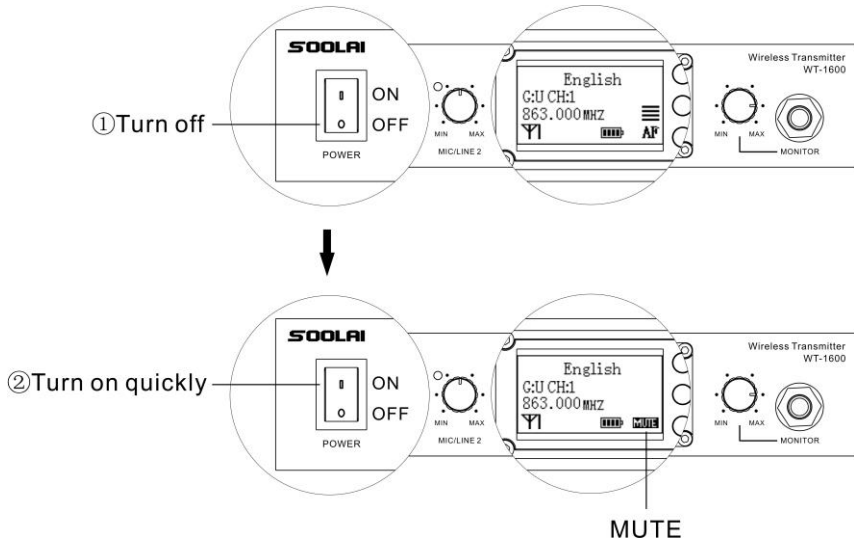


High input level

Remark: - Only volume of input "MIC/LINE1", "MIC/LINE2" can be adjusted.
 - The input volume of "AUXIN" cannot be adjusted here.

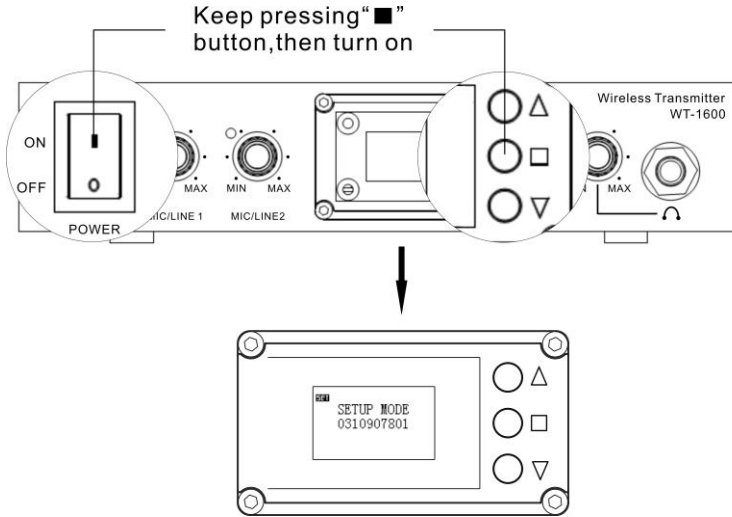
6. Quick mute function.

Turning off and turn on quickly would make the transmitter turn to mute.

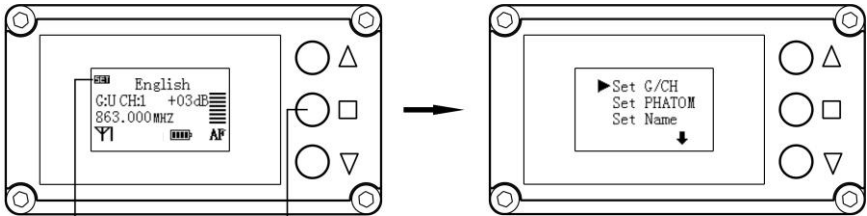


Enter setting mode

1. In the power off state, keep pressing "■" button, turn on the device firstly.

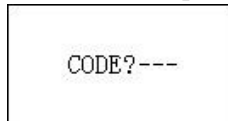


2. Press "■" button for 3 seconds to enter setting menu.



In setting mode press for 3s'

3. If former user has set locking code, as shown in the figure below. You have to enter the correct code via "▲" or "▼" button, then press "■" to enter menu.



Remark: There are eight password combinations, you can press buttons as below:

"▼▼▼", "▲▲▲", "▼▲▲", "▲▼▼", "▼▲▼", "▲▲▼", "▼▲▼", "▲▼▲".

WT-1600 Parameter setting

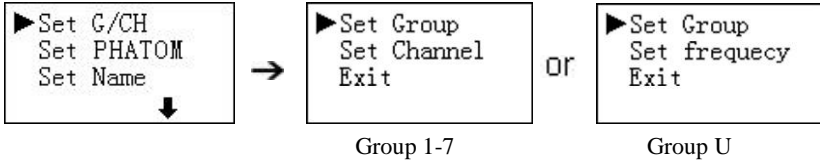
1. Set Channel group / Channel / Frequency

There are 8 channel groups, Group "1 -7" are fixed, Group "U" is User group.

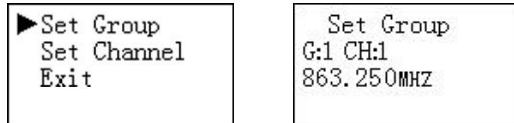
Group 1 – 7: There are fixed frequency in each group, which cannot be changed.

Group U: 32 channels, User could define frequency in each channel.

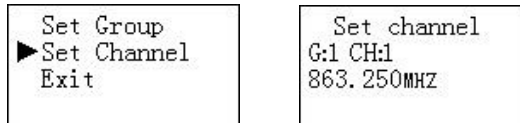
1) Select 『SET G / CH』 item Via "▲" or "▼" button, then press "■" button to enter.



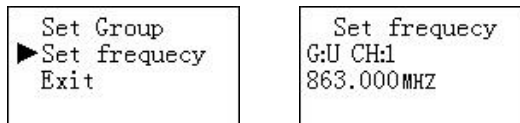
2) Select 『Set Group』, then press "■" button to enter.



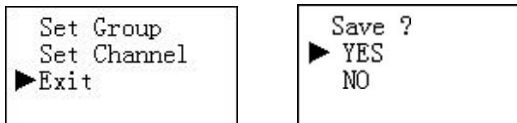
3) Select 『Set Channel』, then press "■" button to enter. (Group 1-7)



4) Select 『Set frequency』, then press "■" button to enter. (Group U)



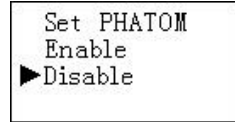
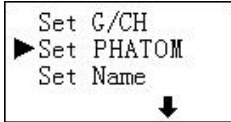
5) Select 『Exit』, then press "■" button to exit. Select "YES" to save it and exit, "No" means exit without changes.



Remark: You could switch the language (channel) in Group "U", at most in 32 different languages. If you only need 2 languages, please set the other 30 channels frequencies to be zero. (FREQ=000.000MHZ)

2. Set PHATOM

- 1). Select 『Set PHANTOM』 item via "▲" or "▼" button, press "■" button to enter.
- 2). If you need to provide "MIC/LINE1" and "MIC/LINE2" with 48v phantom power, please set 『Set PHANTOM』 to "Enable".
- 3). When you select "Disable", it means to turn off 48v phantom power.

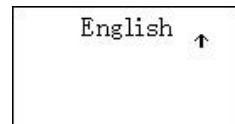
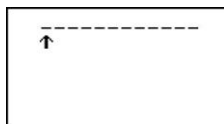
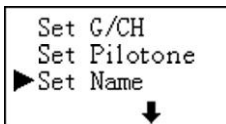


Remark: Please do not connect MIC or other devices which don't need phantom power to "MIC/LINE 1" or "MIC/LINE 2".

3. Set Name

The name is compose of 12 characters, each character with 78 different choices:
0、1、2、3、4、5、6、7、8、9、A、B、C、D、E、F、G、H、I、J、K、L、M、N、O、P、Q、R、S、T、Y、V、W、X、Y、Z、a、b、c、d、e、f、g、h、i、j、k、l、m、n、o、p、q、r、s、t、u、v、w、x、y、z、<、>、(、)、_、/、*、.、:、&、?、@、#、+、"SPACE".

- 1). Via "▲" or "▼" button, select 『Set Name』 item, press "■" button to enter.
- 2). At first, set the first character of the name, via "▲" or "▼" to select it and via "■" to confirm. Then set the second one until the last one. And then save and exit.

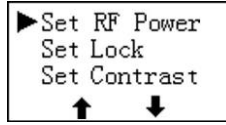


Remark:

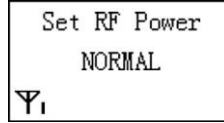
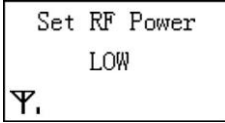
- In Group "1-7", this setting is available to all channels.
- In Group "U", this setting is only available to current channel.
- 32 channels in Group "U" can be set separately.

4. Set RF Power Output

- 1). Select 『SET RF Power』 item via "▲" or "▼" button, press "■" button to confirm.



- 2). Press "▲" or "▼" button to select, and then press "■" button to confirm



If you select "LOW" item, it means you select low transmitting power.

If you select "NORMAL" item, it means you select normal transmitting power.

If you select "HIGH" item, it means you select higher transmitting power.

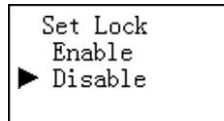
Remark: Please select RF power the lower the better if operating range is enough.

5. Set Locking / Unlocking

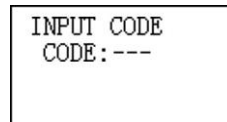
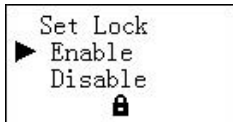
- 1). Select 『Set Lock』 item via "▲" or "▼" button, and press "■" button to enter.



- 2). Select 『Disable』 and then press "■" button to unlock the panel operating.

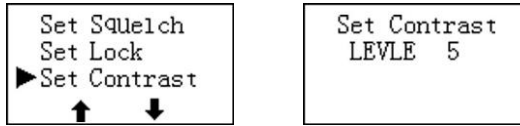


- 3). Select 『Enable』 and then press "■" button to set the lock. You will need to enter three digits codes via "▲" or "▼" button, then press "■" button to set.



6. Set Contrast

1) Select 『Set Contrast』 item via "▲" or "▼" button, and press "■" button to enter.



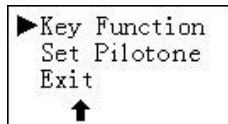
2) Via "▲" or "▼" button, select suitable contrast level and then press "■" button.

There are 9-steps, the min is 1 and the max is 9.

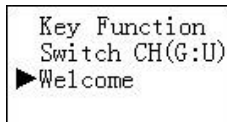
Warning: In case of speeding up the aging of OLED display, please do not set the contrast level too strong.

7. Set Welcome screen / Language channel switch

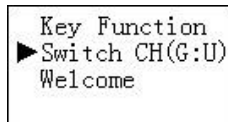
1) Select 『Key Function』 item via "▲" or "▼" button, and press "■" button.



2) Select 『Welcome』 and then press "■" button. In this way, in normal use, pressing "■" shortly could display welcome screen.



3) Select 『Switch CH(G:U)』 and then press "■" button. In this way, in normal use, pressing "■" shortly could switch language channel.



Remark: It must meet two conditions as below to select the language quickly:

- Channel group is set to "U" and at least two channels have been set to right frequency.
- Setting the 『Key Function』 to 『Switch CH(G:U)』 .

8. Set Pilotone

1) Select 『Set Pilotone』 item via "▲" or "▼" button, and press "■" button.

```
Key Function
▶Set Pilotone
Exit
  ↑
```

```
Set Pilotone
▶Digital
Constant
OFF
```

- 2) Select 『Digital』 , there is digital Pilotone signal from transmitter.
- 3) Select 『Constant』 , there is Constant Pilotone signal from transmitter.
- 4) Select 『OFF』 , no Pilotone signal from transmitter.

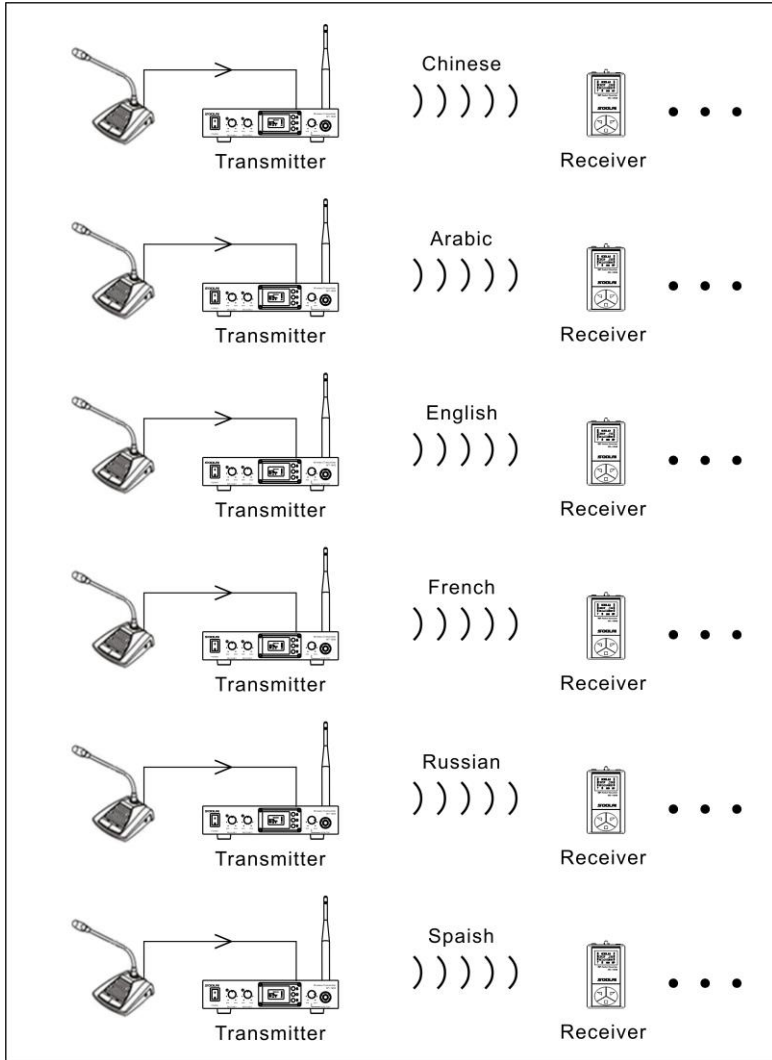
Remark: In normal use, please set Pilotone of transmitter and receivers be same.

9. Exit of operating menu

Select 『Exit』 item via "▲" or "▼" button, and then press "■" button.

```
Key Function
Set Pilotone
▶Exit
  ↑
```

Application sample



Specifications

RF Carrier Frequency	863-865MHz
Oscillation Type	PLL Synthesized
Display Screen	OLED 128*64 dot matrix double color
Frequency Stability	$\pm 0.005\%$ (0~50°C)
Tunable Steps	25KHz
Modulation	FM ± 45 KHz deviation (nominal)
Antenna	External antenna, 50 Ω BNC jacket socket
RF Power Output	1mw/10mw/100mw (country depending)
Harmonic Suppression	>50dB
Operating Range	300-600ft (Environment dependent)
MIC/LINE Input	Two XLR-1/4 " balanced input
MIC/LINE Gain	+20dB max (tunable)
Max MIC/LINE input Level	10dBu
Max AUX Input Level	10dBu
Monitoring Output	1/4 " unbalanced, 800mW/63 Ω
Phantasm Power	48Vdc (turn on/off)
Power Supply	12-15VDC/1A
Dimension	217mm*180mm*45mm
Unit Weight	1.25kg
Operating Temperature	-20°C to +70°C

SOOLAI

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