

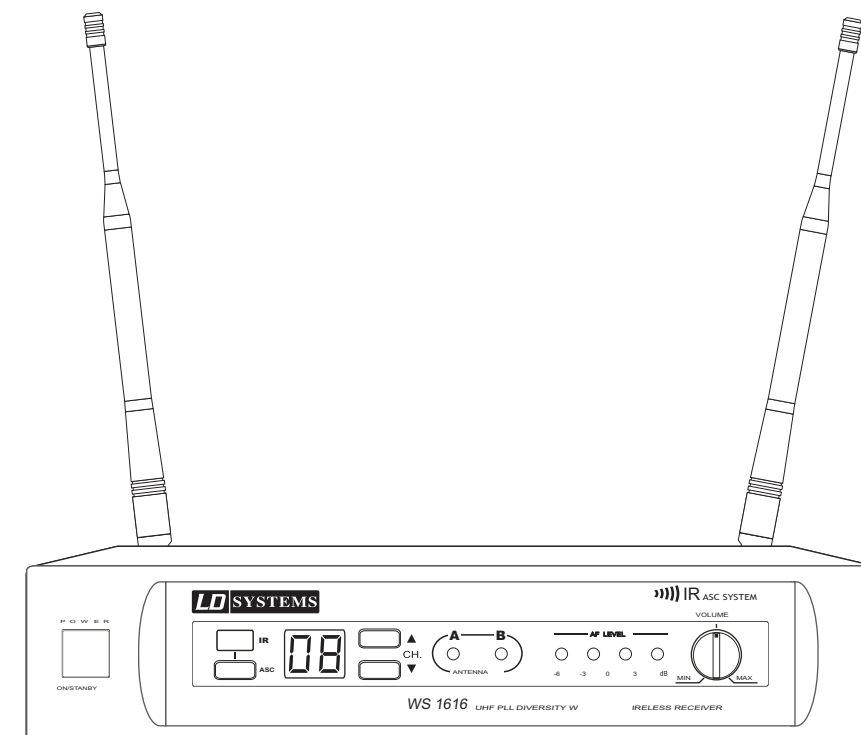


User manual

www.ld-system.com

WS 1616 SWEETSIXTEEN

16 CHN UHF PLL Diversity Wireless System
863 - 865 MHz*



CE 06780



✓ RoHS

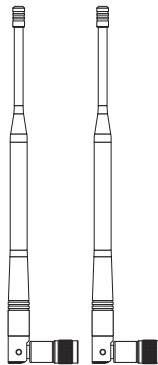
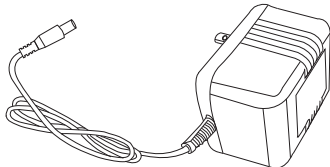
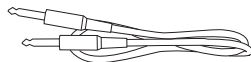
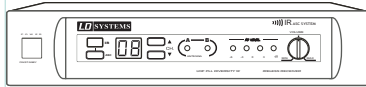
Printed in CHINA

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*Do not require registration or licensing in most EU countries. Please inform your local Market Surveillance Authorities for Telecommunications.

System Components :

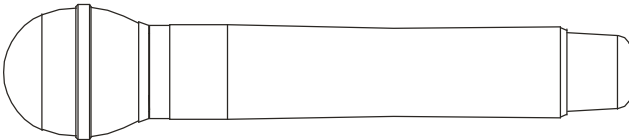
All the systems include the following components:

- WS 1616R receiver
- Two AA batteries
- One 1/4in audio connecting cable
- Power Adapter
- Two antennas
- User's Manual



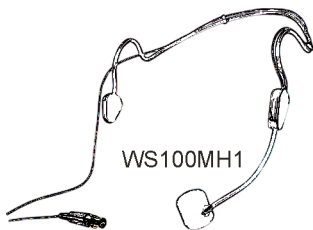
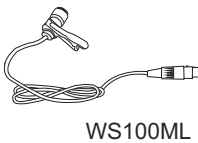
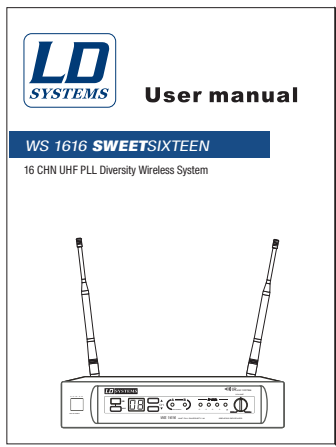
Hand-Held Microphone System includes the following:

- WS 1616MD transmitter hand-held



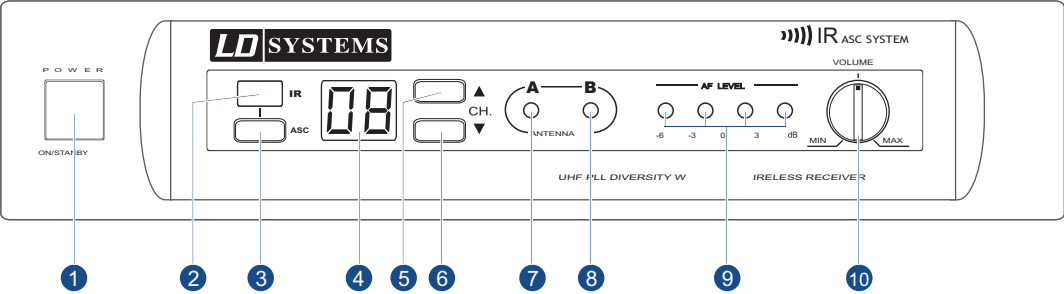
Lavalier Microphone and Headset Microphone include the following:

- WS1616BP bodypack transmitter
- Microphone (WS100ML or WS100MH1)



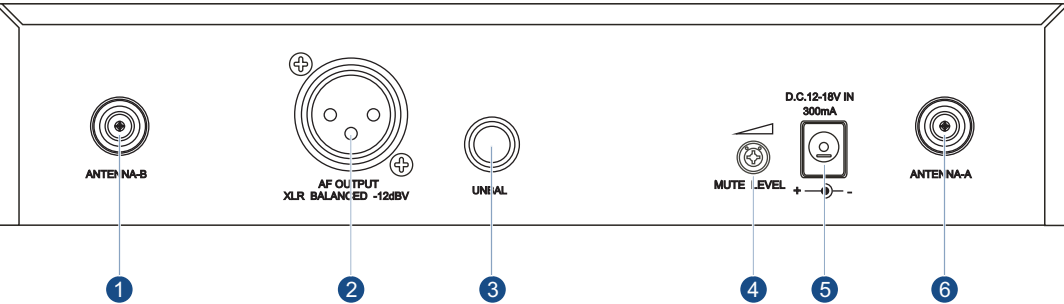
Functions of WS1616R Receiver:

Front Panel



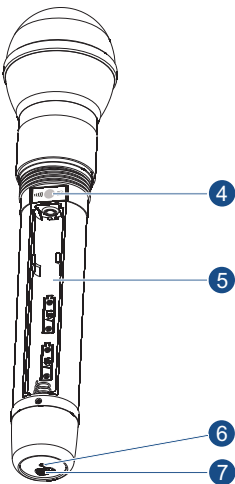
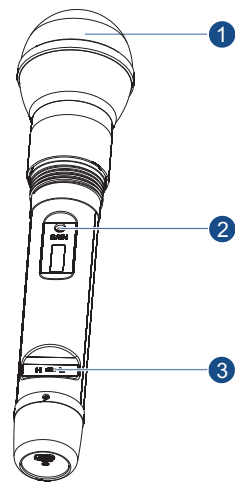
- 1 On/Off switch
Tap to turn on, hold to turn off.
- 2 IR window
This window sends infrared signal to the transmitter for frequency synchronization.
- 3 Synchronizing signal transmit button
Press this button to establish infrared connection between the receiver and transmitter.
- 4 Channel display
Displays working channel.
- 5 Channel up button
Please See " system setup " on page 5.
- 6 Channel down button
Please See " system setup " on page 5.
- 7 Channel A antenna LED lamp
When it is steadily lit, Channel A antenna is working.
- 8 Channel B antenna LED lamp
When it is steadily lit, Channel B antenna is working.
- 9 Audio LED
Indicates strength of incoming audio signal.
- 10 Audio output level control button
Left turn for output level decrease, right turn for output level increase.

Rear Panel



- 1 Antenna Jack A
50 ohm
- 2 XLR output socket
- 3 1/4in output socket
- 4 Fine adjustment of mute threshold level
It is the mute enabling threshold value, which is factory setting and usually does not need to be adjusted. If there are any interference signals, this threshold value can be increased by turning the knob clockwise until RF signal lamp goes out.
- 5 AC power adapter socket
- 6 Antenna Jack B
50 ohm.

Handheld Transmitter :

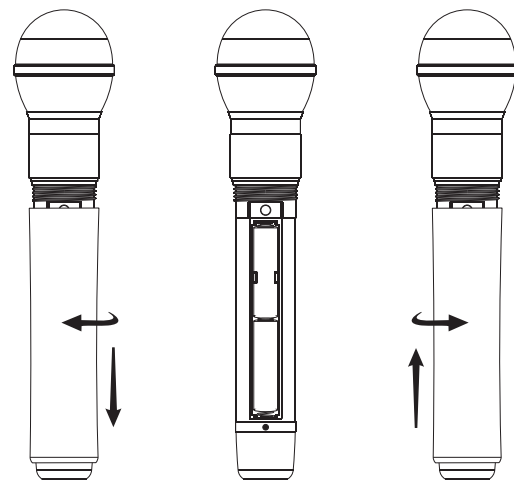


Functions:

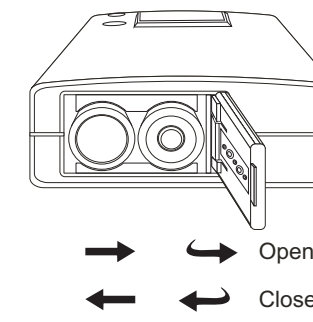
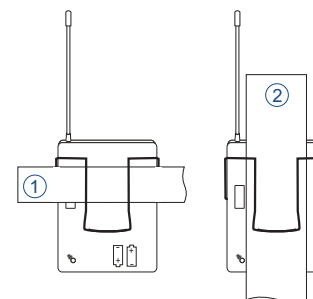
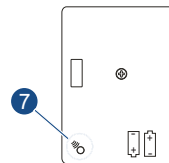
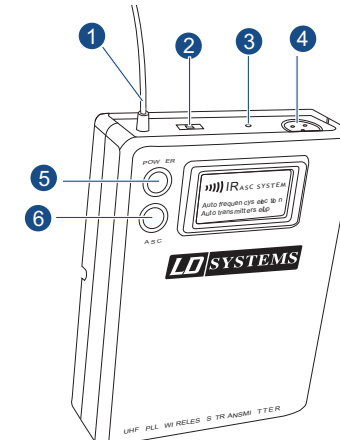
- ① Microphone head
- ② Adjust input sensitivity of the microphone head
Left turn for sensitivity decrease, right turn for sensitivity increase.
- ③ RF power switch
The high of power for H, the low of power for L.
- ④ IR port
Receives infrared beam to synchronize frequencies.
- ⑤ Batteries rack
- ⑥ Power/ASC/Battery low indicator light.
Green on: power on
Green flash: IR transmission in process.
Red flash: battery low
- ⑦ On-off/mute switch

Changing Batteries:

Expected life for two alkaline batteries is about 8 hours.
As the battery indicator on the screen keeps glowing, the batteries should be changed immediately (as shown below).



WS1616BP Bodypack Transmitter



Functions:

- ① Antenna
- ② Adjust gain and mute switch
There are two gain settings on PBT-901. Please select the instrument setting most suitable to you.
Mic.: Microphone
0: Guitar with passive pickup
-10dB: Transmitter mute
- ③ Power/Low Voltage/IR Transmission LED lamp
Green: ready
Red Lamp is on: the battery voltage is low
Flashing red lamp: IR transmission is in progress
- ④ 3-pin microphone input socket
- ⑤ Power control button
Tap two seconds to turn on, hold to turn off
- ⑥ Synchronizing Signal Receive button
If this button is pressed, it is possible to establish infrared connection between the transmitter and receiver.
- ⑦ IR Window
This window receives infrared signal so as to keep frequency synchronization.

How to Wear the Body pack Transmitter:

Buckle the transmitter clip to the belt ① or run the guitar strap through the transmitter clip ②, as shown in the left diagram.
If best effect must be achieved, the transmitter should be pushed down ①.

Battery Replacement :

The life expectancy of two alkaline batteries is about six hours.
When the battery indicator is lighting, the batteries should be changed immediately, as shown on the left.

System Setup



Receiver Programming:

Group and Channel Selection

Press ▲ or ▼ to choose the appreciate frequency group, as shown on the left.
For best results when operating multiple systems, set every channel interval maximum.

Receiver Volume Control

Left turn for output level decrease, right turn for output level increase.

Quiet and audio level adjustment

The quiet volume control is default , it is no need to set again. Turn it up clockwise if there is interfere signals until the RF indicator light turn off.

Automatic Transmitter Setup

Turn off the receiver and open the battery canister, turn the IR port on the receiver IR port, press “ASC” button, and then turn on the receiver again.

Turn the Badypack receiver IR port on the receiver IR port, then press “ASC” button, and then press the “ASC” button on the bodypack transmitter.

The receiver keeps transmitting sync frequencies 25 seconds for each time you press the “ASC” button.

Each time turn on the transmitter and press the “ASC” button within the bodypack transmitter, the transmitter will stars the IR receive system within 25 seconds.

The handheld transmitter lights up when the IR receiver system stars, the whole display within the backpack transmitter flashes (the IR ndicator light also flashes at the same time)

Pay attention: The interval of the receiver and the transmitter should be less than 0.5m as the IR connection is setting; only can turn one transmitter IR port on the receiver at each IR connection when multi-system is using.

Specifications

System

Frequency Range and Transmitter Output Level

Band: UHF
Frequency Range :863-865MHz
Transmitter Output Level: 10dBm

Operating Range Under Typical Conditions

> 50m
Note : actual range depends on RF signal absorption, reflection, and interference

Audio Frequency Response (+/-3dB)

80Hz~16KHz

Total Harmonic Distortion (+/-30KHz deviation , 1KHz tone)

<1%

Dynamic Range

>90dB A-weighted

Operating Temperature Range

-10 °C to +50 °C

Note: battery characteristics may limit this range

Bodypack Transmitter

Max Audio input level

0dBV to +10dBV

Gain Adjustment Range

20dB

Input Impedance

5KΩ

Dimensions

85mm H * 65mm W*24mm D

Weight

80 grams (without batteries)

Power Requirements

2“ AA” size alkaline or rechargeable batteries

Battery Life

>10 hours

Handheld Transmitter

Max Audio input level

0dBV

Dimensions

235mm*54mm dia.

Weight

270 grams (without batteries)

Power Requirements

2“ AA” sizes alkaline or rechargeable batteries

Battery Life

>12 hours if RF power switch is on H position
>14 hours if RF power switch is on L position

Receiver

Audio Output Level (+/-30KHz deviation , 1KHz tone)

XLR connector (into 600 Ωload) : -12dBV
1/4inch connector (into3000 Ωload) : -18dBv

Output Impedance

XLRconnector : 200Ω
1/4inch connector : 1KΩ

XLR output

Impedance balanced
Pin1 : Ground(cable shield)
Pin2 : Audio
Pin3 : No Audio

Sensitivity

-93dBm for 30dB SINAD,typical

Image Rejection

>55dB

Dimensions

44mm H*212mm W*160mm D

Weight

860 g

Power Requirements

12~18 V DC at 300mA , supplied by external power supply