JTS®

JTS PROFESSIONAL CO., LTD.

UR-816DV(DVB) &UT-16HWV

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UR-816DV(DVB) / UT-16HWV

MINIATURE HEAD WORN WIRELESS SYSTEM

FC CE 1856 RoHS

59508-034-01

Instruction Manual

www.maxlight.ru

Thank you for choosing the JTS wireless system. In order to obtain the best efficiency from the system, you are recommended to read this instruction manual carefully.

1. Important Caution

- Always make all connections before plugging the unit into an AC power outlet.
- Do not leave the devices in a place with high temperature or high humidity.
- Do not handle the power cord with wet hands!
- Keep the devices away from fire and heat sources.

2. Features

The UT-16HWV headworn transmitter provides users true wireless experience with no beltpack and cable.

- UHF PLL 16 channels
- At least 60 meters operation distance
- Tone Key Squelch
- High signal to noise ratio
- One AAA 1.5V battery runs for 8 hours

3. Specification

3-1 Receiver// UR-816DV/UR-816DVB

Frequency Preparation...	PLL Synthesized Control
Carrier Frequency Range	502~960 MHz
S/N Ratio.....	> 105dB
T.H.D.....	<0.6%@1KHz
Display.....	LED
Display Contents.....	Antenna A/B, RF/AF Status
Controls.....	Power On/Off, Channel Selecting, Audio Level
Audio Output Level.....	-12dB
AF Output Impedance....	600Ω
Squelch.....	Pilot Tone, Noise and Mute
Operation Voltage.....	12-18 VDC, 200mA
Output Connector.....	1 Balanced XLR socket
	1 Unbalanced Ø6.3mm phone jack
Dimension(m/m).....	UR-816DV : 210mm (W)* 40mm (H)* 171mm (D)
	UR-816DVB : 210mm (W)* 40mm (H)* 181mm (D)

3-2 Miniature Transmitter// UT-16HWV

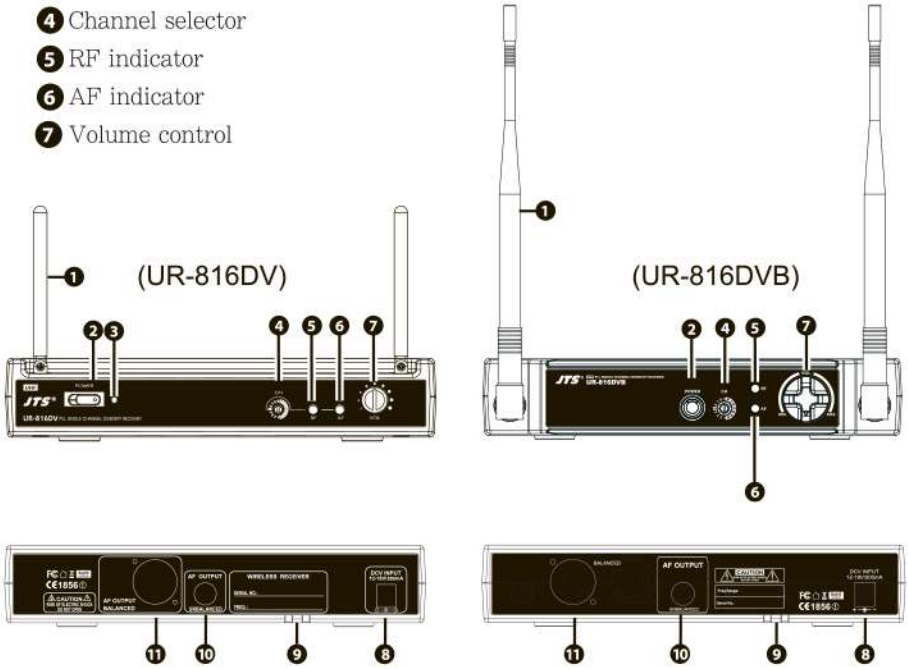
Frequency Preparation.....	PLL Synthesized Control
Carrier Frequency Range..	502~960 MHz
RF Output.....	Maximum 10mW
Stability.....	±10KHz
Frequency Deviation.....	±48KHz
LED Display.....	Power On/Off, Low battery, Mute
Controls.....	Power On/Off, AF Level, Channel Selecting, Mute
Spurious Emissions.....	<-50 dBC
Audio Frequency Response	40~18,000 Hz
Battery.....	LR03, AAA 1.5V

4. Parts Identification & Accessories

4-1 Receiver// UR-816DV/UR-816DVB

Front panel

1. Antenna
2. Power On/Off Switch
3. Power LED
4. Channel selector
5. RF indicator
6. AF indicator
7. Volume control

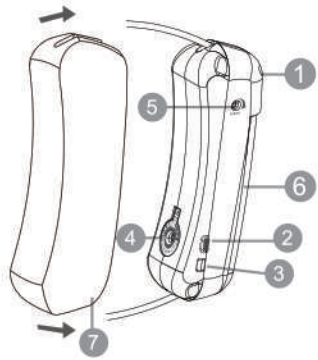


Rear panel

8. Power Supply Jack (12-18V/200mA): for connecting the power supply unit.
9. Strain Relief: for the connection cable of the power supply unit, which leads the cable around the hook to prevent accidental disconnection of the plug from the jack.
10. AF Output (6.3mm jack, unbalanced): for connection to a unbalance input, e.g. of a mixer or amplifier.
11. Balanced XLR Output: for connection to the balanced input, e.g. of a mixer or an amplifier.

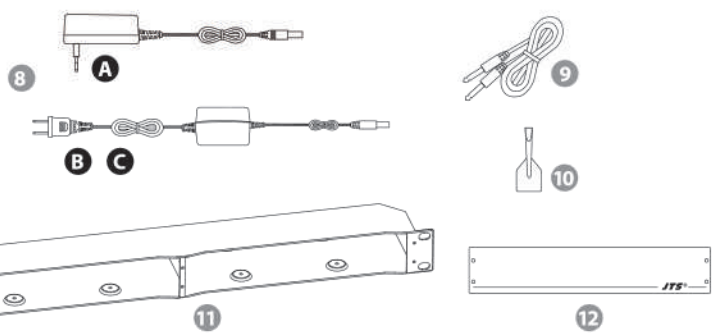
4-2 Miniature Transmitter

1. UT-16HWV
2. Power On/Mute/Off switch
3. LED indicator for power On/Off, battery status and mute
4. Channel selector
5. Input gain
6. Battery Lid (Color ID): Orange / White / Gray
7. Sweat Shield



4-3 Accessories

8. AC/DC adaptor
   - A Switching Power Supply (100~240V, 50~60Hz)
   - B Linear Power Supply (220V , 50Hz) Option
   - C Linear Power Supply (220V , 60Hz) Option
9. AF output cable
10. Screwdriver
11. DR-900 dual rack adaptor Option
12. RP-900 panel cover Option



5. Preparing Procedures & Basic Operation

5-1 Receiver

(1) Connect to the subsequent unit (e.g. mixer, or amplifier)

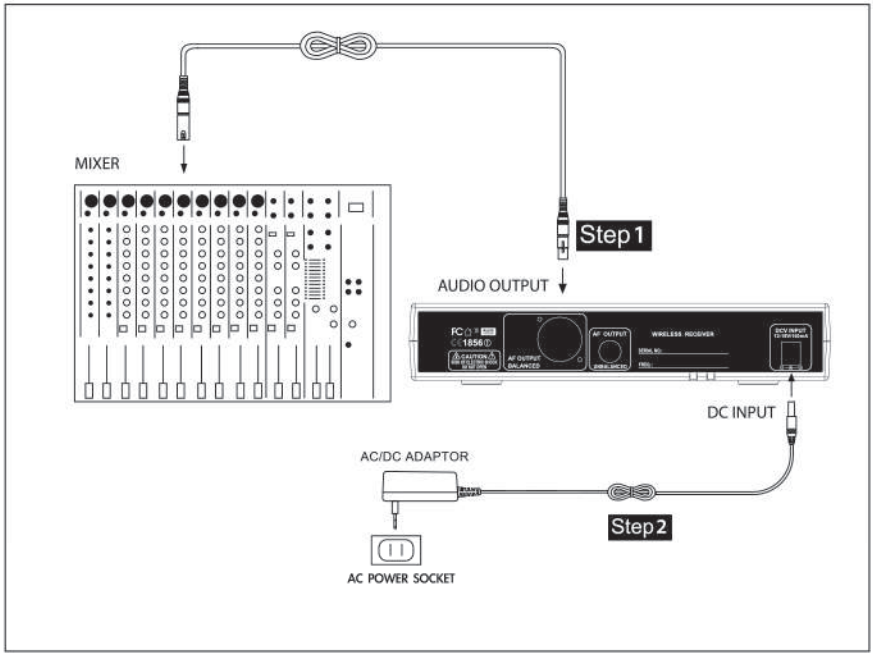
Connect one end of a proper AF cable to the AF Output or Balanced XLR Output socket, then plug another end to the "MIC IN" input socket of a mixer or a amplifier (Step 1)

(2) Connect the power supply unit

Plug in one end of AC/DC adaptor cable to Power Supply Jack in the rear panel of receiver, and plug another end into an AC outlet (Step 2)

Caution

To prevent accidental disconnection of the plug from the jack, lead the cable around the hook of the strain relief.



5-2 Battery Insertion Of The Transmitter

(1) Press Down the battery lid ❻ and slide it out.

(2) Insert or replace with a new battery according to the polarity indication.

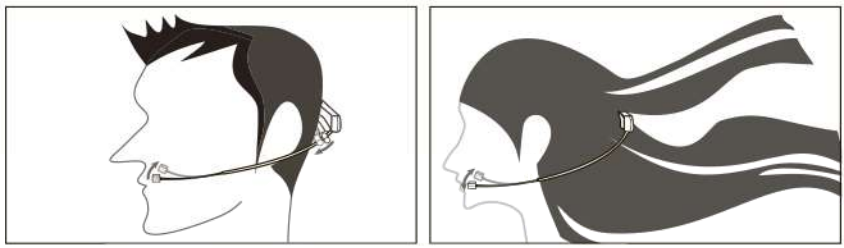
(3) Switch the ON/MUTE/OFF ❷ switch to ON. If the battery is in good condition the LED indicator ❸ will light in Green constantly. As soon as the battery goes below a preset level the LED indicator ❸ will turn to Red constantly. Then the remaining battery life will last for 30 minutes only.

(4) Slide and push back the battery lid.

5-3 Install the transmitter

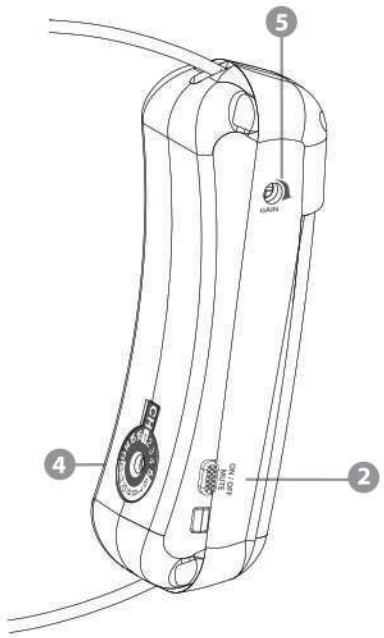
(1) Use the UT-16HWV headset transmitter

1. Loose the screws to adjust the elastic headband. Find a best fit position and tighten the screws again.
2. Take the headworn on both ears.
3. Adjust the mini gooseneck to find best pick up position.
4. According to the situation one may decide to mount the sweat shield on the transmitter.



(3) Setting Levels

1. Set a common frequency for both the receiver and transmitter by turning the Channel Selector 4 with supplied screw driver.
2. Turn the input gain control 5 on the transmitter to a position halfway between the left and right stops.
3. Set the ON/MUTE/OFF switch 2 to ON to switch on transmitter.
4. Switch on the receiver and sound system.

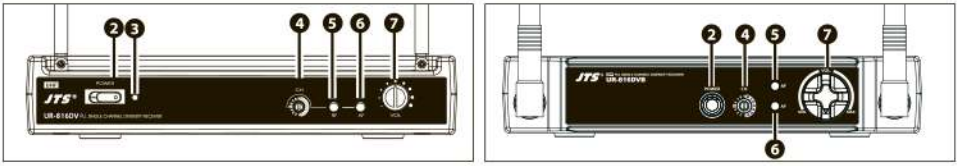


6. System Operation

Be sure to mute the audio signal of a mixer or amplifier before turning on the receiver and transmitter.

(1) Power on

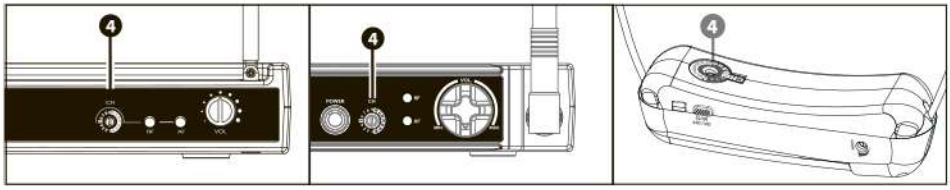
Turn AF level on the receiver completely counter-clockwise to the minimum level, and switch on the receiver. As soon as you turn power ❷ of the receiver on, the power LED ❸ lights red, meanwhile the RF ❺ signal and AF ❻ LED light up to indicate the receiver is ready for operating.



Always it is a good idea to keep "open space" between transmitter and receiver, that will improve RF reception.

(2) Selecting channel for the receiver and transmitter

1. Use the supplied screwdriver to select a desired channel for the receiver ❹ and transmitters ❹. Both receiver and transmitters are preprogrammed with 16 channels.



2. Make sure the channel of receiver matches that of the transmitter.

3. When 2 or more transmitters and receivers are being used in the same location, they must be set up to use different channels. If existing channel is being interfered, please change to another non-interference channel.

7. Rack Mounting

(1) Before mount receivers onto DR-900 rack adaptor, please release any cables from the rear of the receiver.

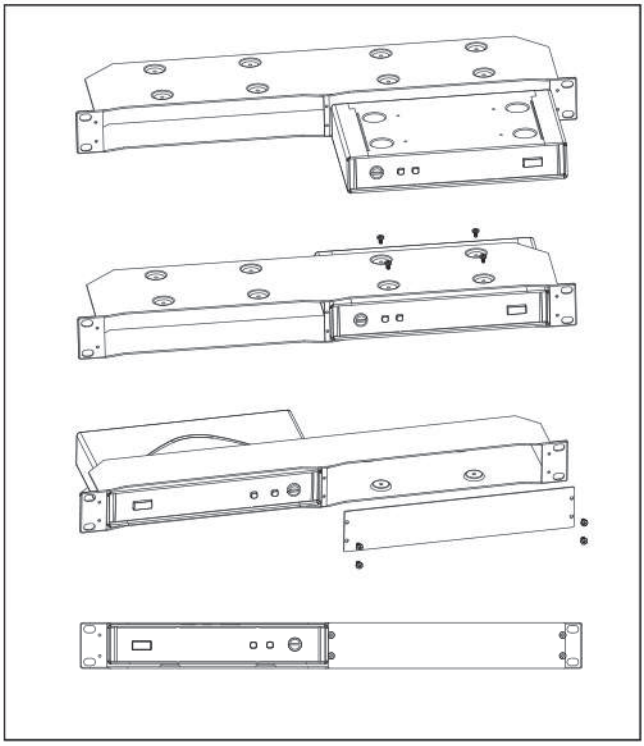
(2) Turn over receiver and DR-900 rack adaptor simultaneously, there are 4 threaded holes at the bottom of receiver and rack adaptor for inserting screws.

(3) Single receiver

Insert in a receiver through the front of DR-900 until it is firmly attached to the rack, then screw on a RP-900 to another side of the rack.

(4) Dual receivers

The same way as above, put one receiver to each rack space.



8. Recommendation

(1) In order to achieve the optimum reception condition and also extend the operating distance, please leave on "open space" between the receiver and transmitter.

(2) Keep the devices away from the metal objects or any interference sources at least 50 cm.

(3) To avoid the feed-back effect, don't leave the mic. to aim at the speakers directly.

(4) Remove batteries from the battery compartment when the transmitter will not be used for a long time.

9. Important Notice

(1) JTS offers wireless systems in a selection of bands that conform to the different government regulations of specific nations or geographic regions. These regulations help limit radio frequency (RF) interference among different wireless devices and prevent interference with local public communications channels, such as television and emergency broadcasts.

(2) For information on bands available in your area, consult your local dealer or phone JTS. More information is also available at JTS' s website (www.jts.com.tw).

(3) This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.