JTS®

UF-10R / UF-10TH / UF-10TB

Professional Wideband (60~75MHz) True Diversity System

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JTS PROFESSIONAL CO., LTD.

UF-10R UF-10TB UF-10TH

UHF PLL

Product manual

One year product warranty

Product Model		Equipment serial number	
Customer name		Contact number	
Address			
Purchase date			
Selling store stamp	Be sure to put store stamp and fill in purchase date for the warranty to be effective!		

Warranty description

1. Be sure to put the warranty label indicating purchase date on the bottom of equipment to ensure your interest in maintenance and service.
2. Product warranty, starting on the purchase date indicated on "warranty label", will last for one year; if the equipment does not have "warranty label", the warranty period is 15 months from the manufacturing date. If a microphone is broken but not sent back with the equipment, the warranty period is 15 months from the manufacturing date of the microphone.
3. Within the warranty period, if the equipment is broken under normal use as instructed in manual, please contact the original selling store for repair.
4. When the product is returned for repair, to facilitate proper determination of cause of malfunction and of whether repair fee is needed, please ship back the equipment and microphone together.
5. Within the warranty period, our company provides repair service at no cost except for the following conditions that parts and repair may be charged:
   a.Damages due to natural disaster or irresistible outside forces.
   b.Damages due to drop, water, moisture, corrosion, foreign objects, missing components.
   c.The warranty does not cover consumable parts. (such as microphone capsule, ball grille etc.)
   d.Those without "warranty label" on equipment or with "warranty label" being damaged and failing to identify warranty period.
6. Please keep the warranty properly. No replacement will be made if the warranty is missing.

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1. System operation instructions

- Before connecting to power, make sure the voltage marked on equipment is the same as that on the power socket.
- Do not place the equipment in damp and hot environment.
- Prior to operation, please dry your hands.
- Keep the equipment away from fire and heat source.
- Transmitter and receiver need to be adjusted to the same “default channel” or “frequency”.

2. Features

2-1 UHF PLL Broadband true diversity receiver // UF-10R

The UF-10 Wide Band Wireless Microphone System uses the latest wireless technology can be found. Up to 75 MHz bandwidth benefits multi system application. JTS patented REMOSET provides great convenience to project set up. Various advanced features assure a successful performance.

- UHF PLL True Diversity System renders 200 to 480 meters of operation distance.
- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Maximum 12 groups, each provides maximum 63 channels. (figures vary according to frequency band)
- Provide 6 user-built groups, maximum 64 channels for each group.
- Automatic search function for available frequency.
- JTS patented REMOSET® function, one press key allows instant synchronous setup for transmitter.
- Adjustable squelch level.
- JTS LCX circuit design technology effectively reduces noise interference
- Come with antenna booster power, compatible with various external antennas.

2-2 UHF PLL Handheld transmitter // UF-10TH

- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Phase-locked loop circuit design.
- Extended dynamic range and smooth frequency response.
- Tone key squelch.
- Replaceable condenser or dynamic capsule module.
- Hidden antenna design.
- Lock-On function prevents signal interruption due to accidental change.
- Adjustable transmission power between 10mW and 50 mW.

2-3 UHF PLL Body-Pack Transmitter // UF-10TB

- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Phase-Locked Loop (PLL) synthesized tuner.
- Extended dynamic range and smooth frequency response.
- Adjustable transmission power
- Tone-key squelch
- The "lock-on" function mode prevents tampering and RF interruption.
- 4 pin mini XLR connector compatible with guitar cable and various vocal and instrument mics.
- Adjustable transmission power between 10 mW and 50 mW

3. Specification

3-1 UHF PLL Broadband true diversity receiver // UF-10R

Frequency oscillation mode	PLL Synthesized Control
REMOSET	Radio Frequency
Carrier frequency range	502~960 MHz
Signal to noise ratio	> 105dB
Total distortion rate	<0.6%@1KHz
Function display method	LCD and LED
Function display content	Channel , Group , Antenna A/B , Mute , AF/RF , Low battery , Device ID
Control method	ON/OFF , Frequency (up/down) , Available frequency scan , Volume , Jog dial , ID pairing , REMOSET , Squelch level
Audio output level	-12dB
Audio output impedance	600Ω
Mute method	Pilot tone and noise mute
Power supply	+12 VDC , 1000 mA
Output type	1 balanced XLR connector 1 balanced Ø6.3mm connector
Size(m/m)	212mm (Width) * 44mm (Height) * 213.9mm (Length)

3-2 UHF PLL Handheld transmitter // UF-10TH

Frequency oscillation mode	PLL Synthesized Control
Carrier frequency range.....	502~960MHz
RF output.....	10mW/50mW (Depend on Local Regulation)
Stability.....	< ±10KHz
Frequency drift.....	±48KHz
LCD.....	Frequency (up/down) , Power indicator , Device ID
Control method.....	Power switch , AF , Frequency (up/down) , Lock-On , ID pairing
Spurious Emissions.....	< -50dBC
Frequency response.....	50~16,500Hz
Battery type.....	UM3 , AA 1.5V*2

3-3 UHF PLL Body-Pack Transmitter // UF-10TB

Frequency Preparation.....	PLL Synthesized Control
Carrier Frequency Range.....	502~960 MHz
RF Outputs.....	10mW / 50mW (Depend on Local Regulation)
Stability.....	< ±10KHz
Frequency Deviation.....	±48KHz
LCD Display.....	User name, Group, Channel, Frequency, Battery Fuel Gauge, Sensitivity
Controls.....	Power On/Off, AF Level, Frequency Up/Down, Lock-on Mode, ID Pairing
Spurious Emissions.....	<-50 dBC
Audio Frequency Response....	50~16,500 Hz
Battery.....	UM3, AA 1.5V*2

3-4 Optional Condenser Microphone

Lavaliere Microphone

Model No.	CM-501	CM-201i	CM-125i
Connector	4P Mini XLR	4P Mini XLR	4P Mini XLR
Frequency Response	100~15,000 Hz	60~15,000 Hz	50~18,000 Hz
Polar Pattern	Cardioid	Omni-directional	Omni-directional
Sensitivity (at 1000Hz)	-60±3 dB	-60±3 dB	-53±3 dB
Impedance	2.2kΩ	2.2kΩ	4.4kΩ
Max. SPL for 1% THD	130dB	130dB	130dB
Dimension(mm)	Ø10.1mm(W)	Ø5mm(W)	Ø4mm(W)
	* 26.4mm(H)	* 9mm(H)	* 11mm(H)
Net Weight	21.5g	20.7g	7g (cable excluded)

Headset Microphone

Model No.	CM-214i	CM-214Ui	CM-214ULi
Connector	801C4 (4P Mini XLR)	801C4 (4P Mini XLR)	801C3 (3P Mini XLR) 801C4 (4P Mini XLR) 801CS (3.5 stereo plug)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR	801CR
Frequency Response	60~15,000 Hz	30~18,000 Hz	100 ~ 18,000Hz
Polar Pattern	Omni-directional	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-60±3 dB	-68±3 dB	-65±3 dB
Impedance	1.8kΩ	680Ω	1.8kΩ
Max. SPL for 1% THD	130dB	130dB	120dB
Dimension(mm)	125mm(W) * 134mm(H) * 157mm(D)	205mm(W) * 134mm(H) * 157mm(D)	125mm(W) * 134mm(H) * 157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

Model No.	CM-235i	CX-504
Connector	801C4 (4P Mini XLR)	4P Mini XLR
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR	
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Omni-directional	Cardioid
Sensitivity (at 1000Hz)	-53±3 dB	-68±3 dB
Impedance	1.8kΩ	680Ω
Max. SPL for 1% THD	130dB	130dB
Dimension(mm)	155mm(W) * 134mm(H) * 157mm(D)	285mm(W) * 55mm(H) * 111.3mm(D)
Net Weight	17g (cable excluded)	56.3g

Ear-hook Microphone

Model No.	CM-801/CM-804i	CM-8015/CM-825i
Connector	801C4 (4P Mini XLR)	801C4 (4P Mini XLR)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR
Frequency Response	60~15,000 Hz	50~18,000 Hz
Polar Pattern	Omni-directional	Omni-directional
Sensitivity (at 1000Hz)	-64±3 dB	-53±3 dB
Impedance	1.8kΩ	1.8kΩ
Max. SPL for 1% THD	130dB	130dB

Compatible Instrument Microphone

Model No.	CX-500	CX-500F	CX-520
Connector	4P Mini XLR	4P Mini XLR	4P Mini XLR
Frequency Response	20~20,000 Hz	20~20,000 Hz	50~16,500 Hz
Polar Pattern	Omni-directional	Omni-directional	Supercardioid
Sensitivity (at 1000Hz)	-58±3dB	-58±3dB	-78±3dB
Impedance	1.5kΩ	1.5kΩ	600Ω
Max. SPL for 1% THD	130 dB	130 dB	148 dB
Good For	Violin	Flutes	Harmonica

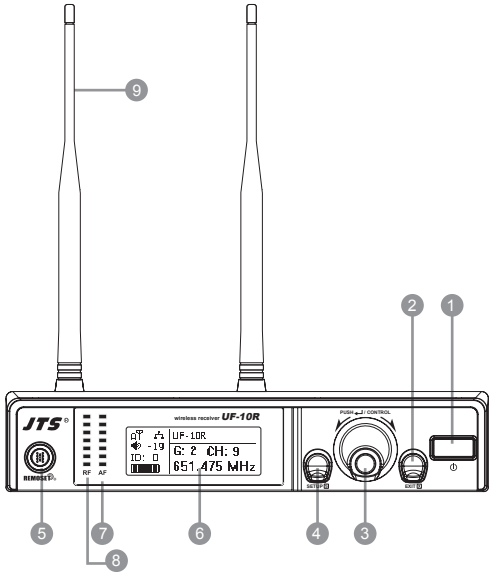
Model No.	CX-508W	CX-516W
Connector	4P Mini XLR	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-67±3 dB	-67±3 dB
Impedance	220Ω	220Ω
Max. SPL for 1% THD	130 dB	130 dB
Good For	Winds	Accordion

4. Parts Identification & Accessories

4-1 Broadband true diversity receiver key function and LCD description//UF-10R

(1) Front panel

1. Power switch: press switch once to turn power on; press and hold for 2 seconds to shut down.
2. EXIT key: when UF-10R is under "setup menu", press EXIT to cancel selection or leave menu.
3. Jog dial: on "setup menu" screen, turn jog dial to select setup item, after entering into the selected item turn jog dial to adjust the value.
4. SETUP key: press and hold for 2 seconds to enter "setup menu"; press SETUP key to enter into setup mode for jog dial; after adjustment of value, press SETUP key to save the setting.
5. REMOSET: Press REMOSET once to send frequency data to a microphone.
6. LCD: refer to "(2) Receiver LCD instruction".
7. AF: indicate current audio signal strength.
8. RF: indicate current radio frequency signal strength.
9. Antenna: 1/2 wave length antenna.



(2) Receiver LCD instruction

⑩ : indicate key lock is set (Key lock on).

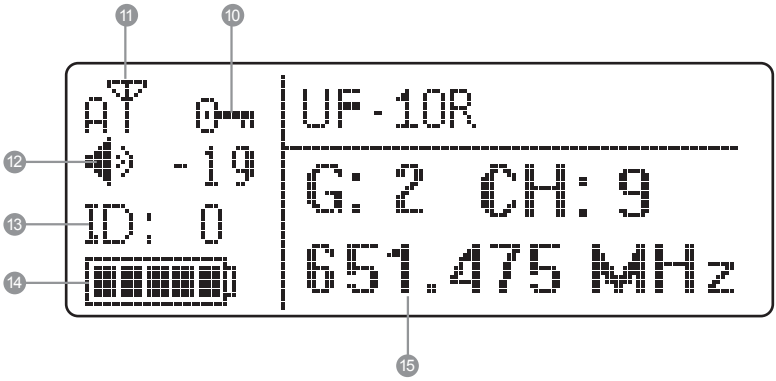
⑪ : show antenna A or B is receiving signal; signal is not received .

⑫ -19 : indicate current receiver volume.

⑬ ID: 0 : indicate device ID setting: ID number 0~255.

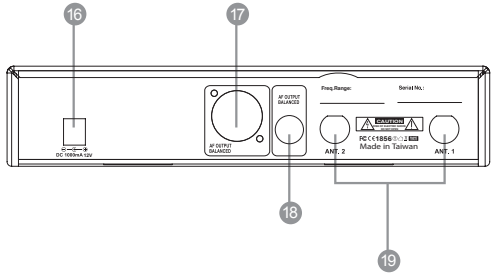
⑭ : indicate transmitter battery level; if no RF signal is received MUTE will show up.

⑮ G: indicate current Group, 1~13
CH: indicate current Channel, CH1~63
Frequency indication: current operation frequency



(3) Rear panel

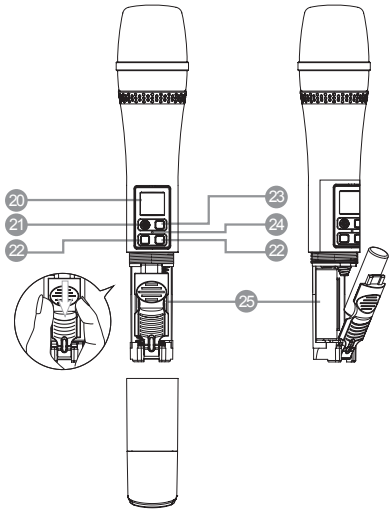
⑯ Power receptacle: connect to power supply (DC12V/1000mA)
⑰ Balanced XLR MIC output
⑱ Ø 6.3mm balanced output
⑲ BNC antenna socket: ANT 1 and ANT 2, set antennas vertical or sloping for better reception.



Note: select MIC or LINE audio output difference:
From setup menu, set “7. OUTPUT LEVEL”:
Set Line: Output level of XLR MIC output and Ø 6.3mm are identical
Set Mic: XLR MIC output level is lower than Ø 6.3mm output by “-20dB”

4-2 UHF PLL handheld transmitter key function and LCD description // UF-10TH

⑳ LCD
㉑ Power key:
Turn on power: press power key once
Shut down power: press and hold power key for 2 seconds
㉒ ▲ , ▼ : up and down keys, select setup item. Press and hold both keys for 2 seconds will mute or release the mute of the microphone.
㉓ SET: set up and save data
㉔ Mute/REMOSET indicator lamp:
Mute mode: red light flashes
REMOSET successful: blue light on for 5 seconds
㉕ Battery compartment



For screen display and operation please refer to "6-2. System operation setup for handheld transmitter".

4-3 UHF PLL Body-Pack Transmitter // UF-10TB

㉖ LCD

㉗ Battery

Low Battery Indicator: when battery lever is low this red LED will light on constantly.

Note: when switch on the unit the red LED will light on for 1 second and turn off.

㉘ AF Peak and Mute Indicator

AF PEAK: Orange

Mute mode: Red light flashes

㉙ Power Key

(1) Turn on power: press power key once

(2) Shut down power: press and hold Power Key for 2 seconds

(3) Mute mode: during use, press Power Key once to mute the microphone, press it again to release.

(4) Leave the setting window: press the power key once the LCD display will return to the main window.

㉚ ▲ , ▼ : up and down keys, select setup item

㉛ SET : set up and save data

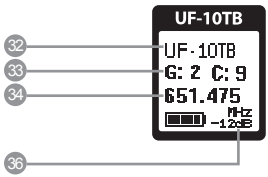
㉜ User Name

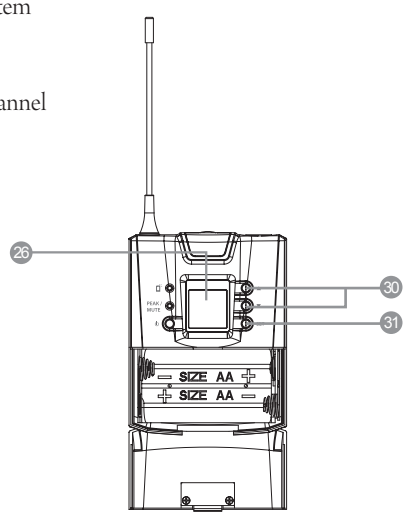
㉝ Indicate current Group and current Channel

㉞ Current operation frequency

㉟ Battery status: display battery status

㊱ Microphone sensitivity



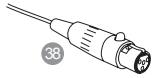


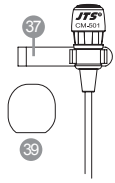
For screen display and operation please refer to "6-3. System operation setup for Body-Pack transmitter".

4-4 Optional Condenser Microphone

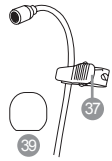
Lavaliere Microphone // CM-501 / CM-201i / CM-125i

37 Clip
38 4 Pin Mini XLR
39 Windscreen

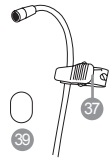




CM-501



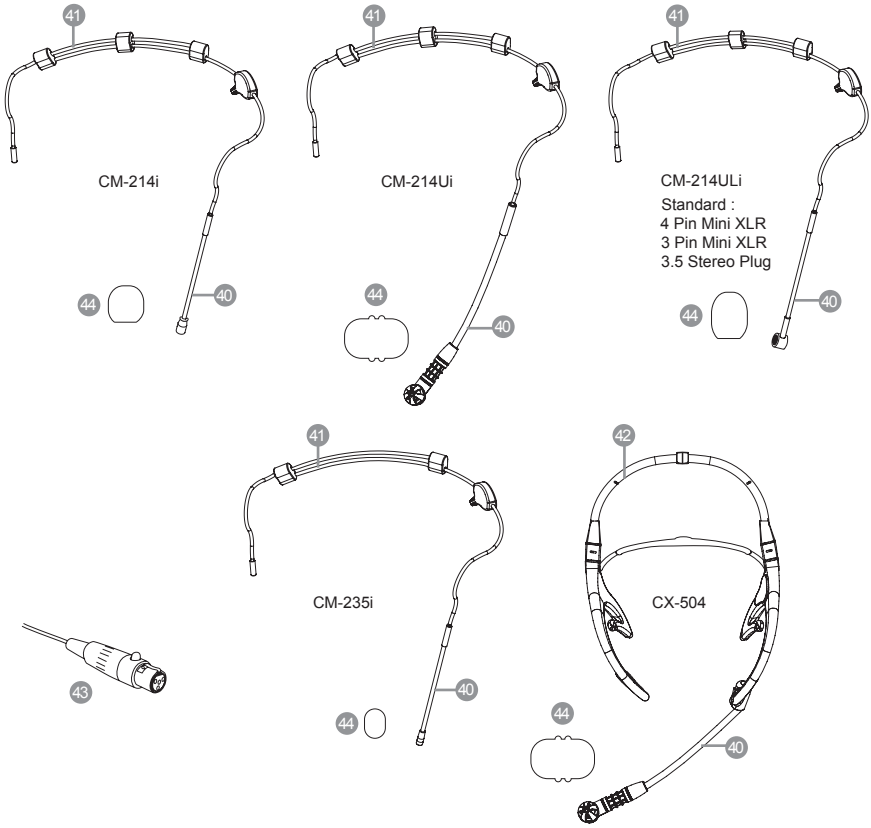
CM-201i



CM-125i

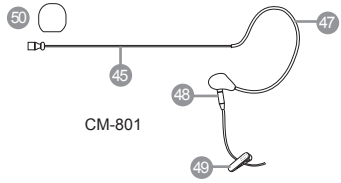
Headset Microphone // CM-214i / CM-214Ui / CM-214ULi / CM-235i / CX-504

40 Gooseneck
41 Adjustable headband
42 Headband
43 4 Pin Mini XLR
44 Windscreen

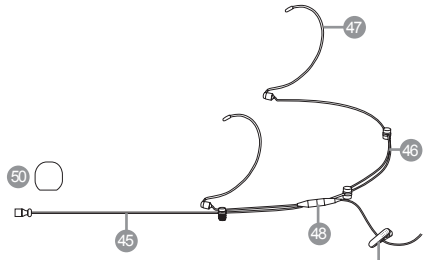


Ear-hook Microphone // CM-801 / CM-804i / CM-8015 / CM-825i

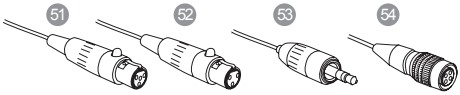
45 Boom
46 Adjustable Headband
47 Adjustable ear hook
48 Detchable Cable
49 Cable Clip
50 Windscreen
51 4 Pin Mini XLR
52 3 Pin Mini XLR Option
53 3.5 Stereo Plug Option
54 4Pin Hirose connecter Option

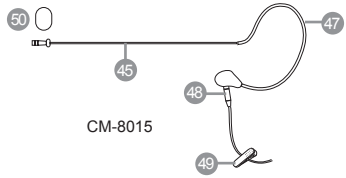


CM-801

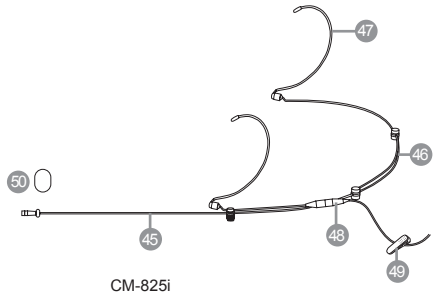


CM-804i





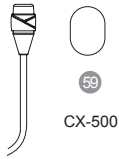
CM-8015



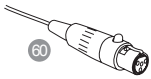
CM-825i

Compatible Instrument Microphone // CX-500 / CX-500F / CX-520 / CX-508W / CX-516W

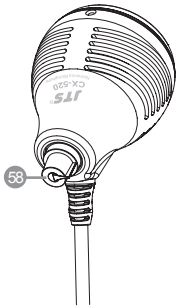
55 Gooseneck
56 Clip
57 Bracket
58 Volume Control
59 Windscreen
60 4 Pin Mini XLR



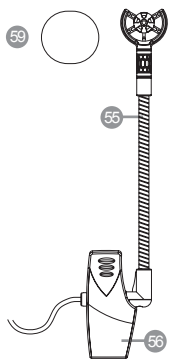
CX-500



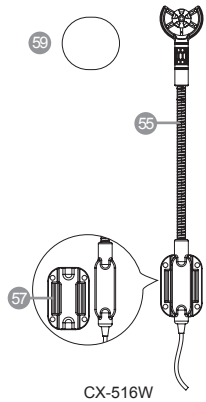
CX-500F



CX-520



CX-508W



CX-516W

4-5 Accessories

60 AC/DC power adapter:
Switching power adapter
AC IN: AC100~240V/50~60Hz
DC OUT: DC12V/1000 mA

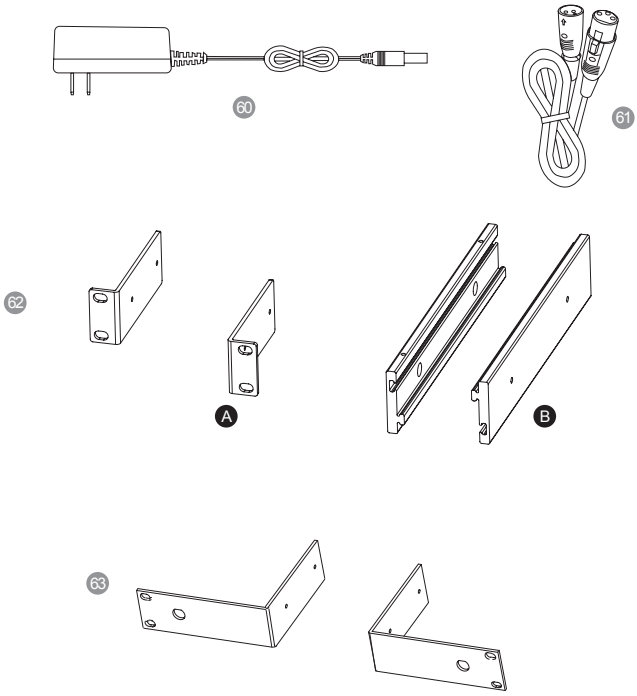
61 Audio cable

62 Rack mount kit//RM-10 (optional)

A RM-10E

B RM-10M

63 Rack mount kit//RM-901 (optional)



5. Connection method

Receiver connection method

1. UF-10R output to a mixer or an amplifier:
   Audio cable: XLR or Ø 6.3mm audio cable, one end connects to audio output of UF-10R "AF OUTPUT BALANCED", while the other end connects to audio input of a mixer or an amplifier.
2. Connect to power
   Connect to AC/DC adapter: one end connects to receiver "DCV INPUT", while the other end connects to AC power receptacle.

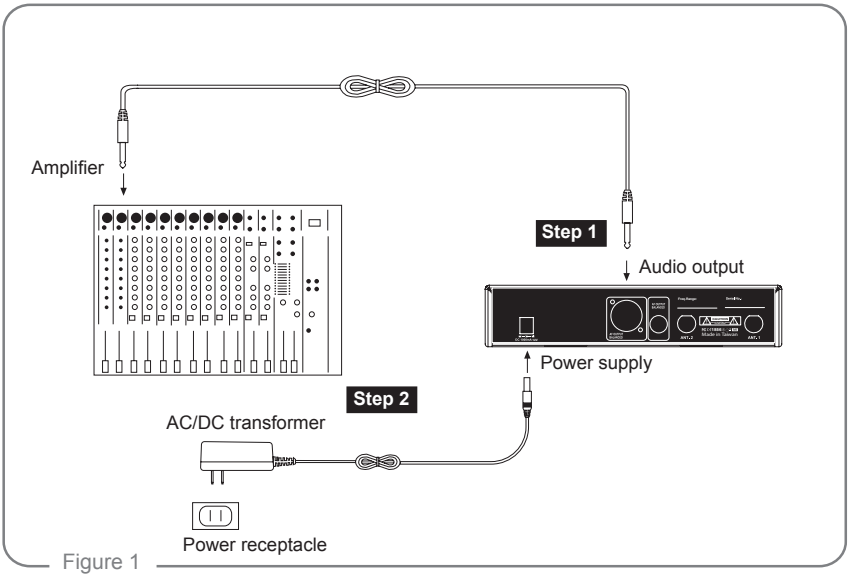
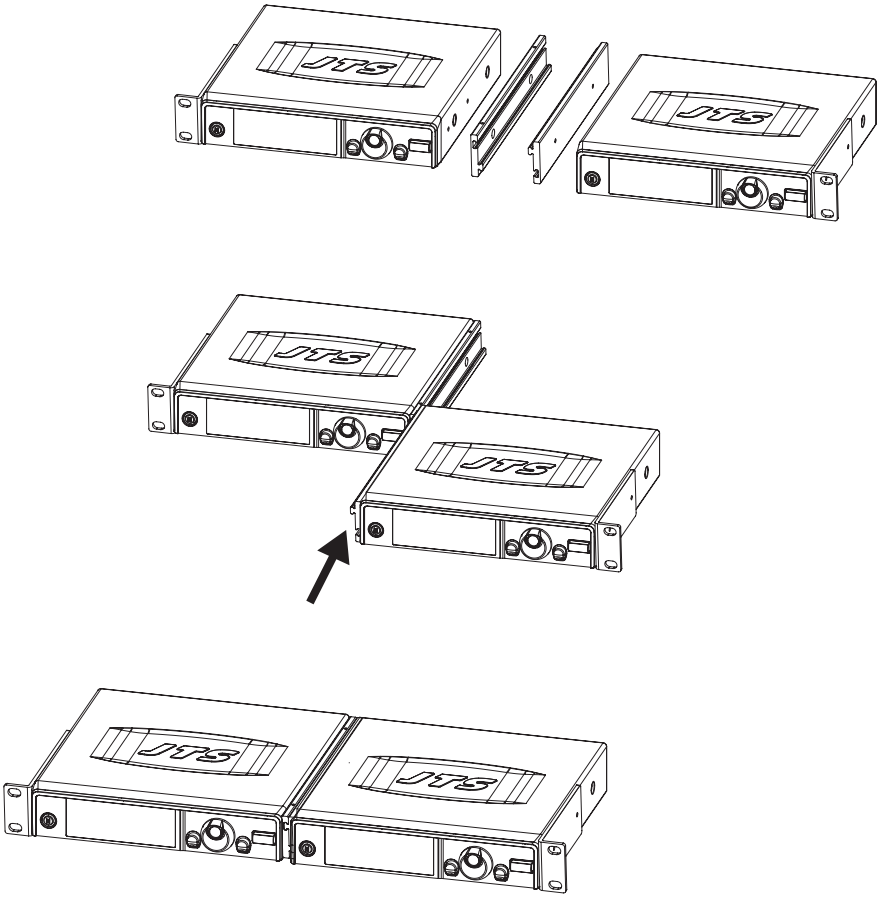


Figure 1

3. Receiver rack mount kit assembly//RM-10 (optional)

(1) Assembly the rack mount kit as the following illustration to mount two UF-10R into one U rack.

(2) Lock equipment onto a rack

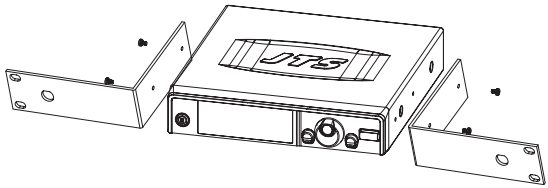


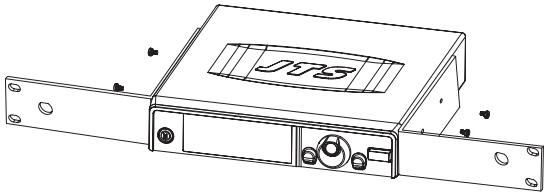
4. Rack Mount Kit RM-901 (optional)

- Mount one UF-10R into one U rack.

(1) Screw the rack mount kit on the receiver.

(2) screw the whole set onto a rack.





6. Operation

6-1 Operation setup for broadband true diversity receiver system // UF-10R

1. Turn receiver power on

(1) Connect antennas onto the receiver

(2) Press power key ❶ once to turn power on

(3) Shut down: press and hold power key for 2 seconds.

2. REMOSET function:

(1) Pressing REMOSET key, blue light starts to flash, indicating transmitting frequency data. (Fig. 1)

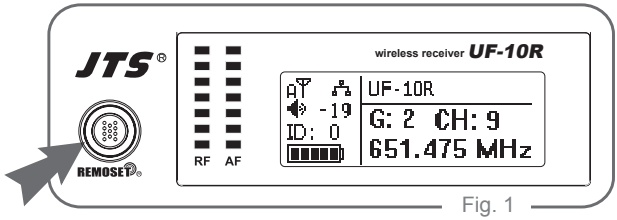


Fig. 1

(2) When microphone receives data, microphone indicator lamp ㉔ shows blue light for 5 seconds, while receiver blue light stops flashing, indicating the REMOSET has been done successfully . (Fig. 2)

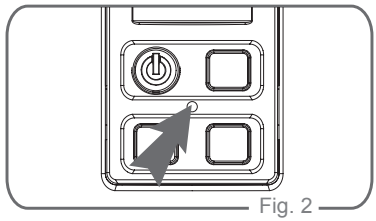


Fig. 2

(3) Receiver blue light flashes slowly, indicating REMOSET failure, please check it:

1) Whether "frequency range labels" attached on receiver and microphone are the same.

2) "REMOSET" selection in microphone function menu needs to be set "ON".

3) Device ID for receiver and microphone should be paired.

Refer to receiver setup method:

4. Menu function setup "6. Device ID: set device ID"

Refer to handheld transmitter setup method:

6. Menu function setup "4. Device ID: set device ID"

3. Menu function setup:

Press Setup key for 2 seconds to enter menu screen

(1) Turn jog dial to make desired selection; press Setup key or press jog dial to enter setup screen; press Exit key to leave menu.

(2) After entering into menu screen, turn jog dial to select default item; press Setup key or press jog dial to enter into menu screen.

(3) After selecting the desired item, turn jog dial to obtain desired value; press Setup key to save the setting.

1. Frequency: set frequency

(1) Turn jog dial to "1. Frequency", press Setup (or press jog dial) to enter into frequency adjustment screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

(2) After entering into frequency adjustment screen, first adjust left 3 digit frequency; turn jog dial with "+/-" 1 MHz as unit change; press jog dial to adjust right 3 digit frequency; press jog dial to switch frequency between left and right.

Setup Frequency

638.000 MHz

G: - - CH: - -

(3) Adjust right 3 digit frequency; turn jog dial with "+/-" 0.025MHz as unit change; press Setup key to save setting.

Setup Frequency

638 .000 MHz

G: - - CH: - -

2. Group/Channel: set group and channel

(1) Turn jog dial to "2. Group/Channel", press Setup (or press jog dial) to enter into setup screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

(2) Turn jog dial to select group "G:"; group U1~U6 are user self-defined group/channel, which needs to be preset in "3. User Group" before use (please refer to "3. User Group" instructions for setup); press jog dial to set channel.

Setup Group/Channel

G: 1 CH: 1

638.100MHz

(3) Turn jog dial to adjust channel "CH:"; after adjustment, press Setup key to save setting.

Setup Group/Channel

G: 1 CH: 1

638.100MHz

(4) If not to save setting, press Exit key twice to leave.

3. User Group: user self-defined group and channel

Turn jog dial to “3. User Group”, press Setup (or press jog dial) to enter into User Group setup screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

#1. Custom Group: self-defined group

(1) Turn jog dial to “1. Custom Group”; press jog dial to enter into Custom Group screen.

1. Custom Group
2. Clear Group
3. Return

(2) Enter into Custom Group screen; press jog dial to switch setting from group (G), channel (CH), frequency in sequence; as frequency area shows “- - - . - - -MHz”, it indicates the channel (G/CH) is not in use; turn jog dial to adjust frequency.

Setup Group/Channel
G: U1 CH: 1
- - -,- - -MHz

#2. Clear Group: clear user self-defined groups

(1) Turn jog dial to “2. Clear Group”; press jog dial to enter into Custom Group screen.

1. Custom Group
2. Clear Group
3. Return

(2) Turn jog dial to select the group to clear; then press jog dial to clear the setting for the group; the frequency for all channels in the group will become “- - -. - - - MHz”.

Group: U1
Rotary to select
Push “Entry” to clear
Push “Exit” to return

#3. Return: return to main menu

Turn jog dial to “3. Return”; press jog dial to return to main menu.

1. Custom Group
2. Clear Group
3. Return

4. Scan: scan channel

(1) Turn jog dial to "4. Scan", press Setup (or press jog dial) to enter into scan channel screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

#1. All Groups: scan all groups

(1) Turn jog dial to "1. All Group", press Setup (or press jog dial) to enter into menu screen.

1. All Groups
2. Result List
3. Current Group
4. Return

(2) After entering into the screen (press Exit to return to upper menu); in "Scan All Group" press jog dial to start scanning.

Scan All Group
Press Setup or Enter to
To Start Scan.
Press Exit to quit.

(3) Scan screen indicates current percentage of completion; to stop scan, press Exit key.

Scan All Group
Scanning... 10%

(4) After scan, automatically enter into "2. Result List" screen; user can enter directly by selecting it on menu.

Scan result can be seen on screen; select available channel; press Setup key to save setting; press Exit to cancel setting

Scan Result List
G: 1 CH: 1
Open Channel : 40

#2. Result List: see scan list

Turn jog dial to 2. Result List; press Setup (or press jog dial) to enter into menu screen to see scan result; select available channel; press Setup key to save setting; press Exit to cancel setting.

Scan Result List
G: 1 CH: 1
Open Channel : 40

#3. Current Group: scan single channel

(1) Turn jog dial to "3. Current Group"; press jog dial to enter into menu screen.

1. All Groups
2. Result List
3. Current Group
4. Return

(2) Turn jog dial to select Group first; press Setup key (or press jog dial) to start scan.

Scan Current Group
G: 1 CH:1

(3) After scan, screen shows OK; press jog dial once to scan the next channel; press Exit to return to upper menu.

Scan Current Group
G: U1 CH: 6 OK
Press "Setup" to Save.

#4. Return: return to main menu

Turn jog dial to "4. Return" ; press jog dial to return to menu screen

1. All Groups
2. Result List
3. Current Group
4. Return

5. Squelch: Adjust receiving sensitivity

(1) Turn jog dial to "5. Squelch", press Setup (or press jog dial) to enter into adjustment screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust squelch, ranging from 10 ~ -5; 0 is standard, press Setup key to save setting; higher number represents lower sensitivity; lower number represents higher sensitivity.

Setup Squelch
0

6. Device ID: set device ID

(1) Turn jog dial to "6. Device ID", press Setup (or press jog dial) to enter into ID adjustment screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust ID, ranging 0~255; press Setup key to save setting.
The setting will affect the use of REMOSET.

Setup Device ID
6 (0~255)

7. Volume: Adjust volume

(1) Turn jog dial to "7. Volume", press Setup (or press jog dial) to enter into setup screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust volume, press Setup key to save setting.

Setup Volume
-15dB

8. Output Level: set audio output level

(1) Turn jog dial to "8. Output Level", press Setup (or press jog dial) to enter into setup screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to select Line or Mic:

- Set Line: XLR MIC Output and Ø6.3mm output volume level is same.
- Set Mic: XLR MIC Output volume is lower than Ø6.3 mm output by -20dB.

(3) Press Setup key to save setting

Output Levell
◎ Line
◉ Mic.

9. Antenna Power: Set power on/off provided at BNC connecters

(1) Turn jog dial to "9. Antenna Power", press Setup (or press jog dial) to enter into adjustment screen.

M	9. Antenna Power
E	a. User Name
N	b. Contrast
U	c. Key Lock

(2) Turn jog dial to select ON or OFF to turn on or shut down antenna booster power; press Setup key to save setting.

Antenna Power
◎ ON
◉ OFF

a. User Name: set user name

(1) Turn jog dial to "a. User Name", press Setup (or press jog dial) to enter into User Name setup screen.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

(2) Turn jog dial to select desired character; after confirmation press jog dial to go to next character setup; after setup press Setup key to save setting.

A user name consists of 10 characters at maximum.

User Name
JTS UF-10R
Char:1/10

Indicate which character currently is set

10 characters available

b. Contrast: adjust screen contrast

(1) Turn jog dial to "b. Contrast", press Setup (or press jog dial) to enter into setup screen.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

(2) Turn jog dial to adjust screen contrast; after confirmation press Setup key to save setting; higher number represents darker color; 7 adjustable levels.

Setup Contrast
■■■■□□□ 4/7

c. Key Lock: set key lock

(1) Turn jog dial to "c. Key Lock", press Setup (or press jog dial) to enter into setup screen.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

(2) Turn jog dial to select "Lock On"; after confirmation press Setup key to save setting; "Lock On" can lock all panel keys to prevent accidental touch except " Setup" key.

Setup Key Lock
◉ Lock On
◎ Lock Off

(3) At Lock On statue pressing of any key will prompt texts as shown in the figure.

Press Setup for 2 Sec.
to unlock keyPad

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key Lock" setup screen.

Turn jog dial to select Lock Off; after confirmation press Setup key to save setting.

Setup Key Lock
◎ Lock On
◉ Lock Off

d. Exit: leave menu

Turn jog dial to "d. Exit"; press Setup key (or press jog dial) to return to main menu; or press "exit" to return to main menu.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

6-2 System operation setup for handheld transmitter // UF-10TH

1. Turn power on for UF-10TH handheld transmitter

(1) Turn on power: press power key once (Fig. 3).

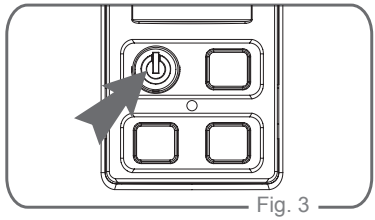


Fig. 3

(2) Shut down power: press and hold power key for 2 seconds.

(3) Back: At setting or menu screen pressing of POWER key will bring the screen back to menu or home screen respectively.

2. Menu function setup:

Press and hold SET key for 2 seconds; enter into function setup menu;

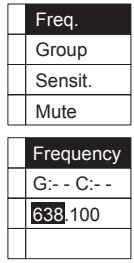
(1) Press ▲ , ▼ keys to select desired item; press SET key to enter into menu.

(2) After entering into menu, press ▲ , ▼ keys to adjust to desired value; press SET key to save setting.

1.) Freq.: set frequency

(1) Press ▲ , ▼ keys to Freq.; press SET key to enter into frequency adjustment screen.

(2) After going to frequency adjustment screen, first adjust left 3 digit frequency; press ▲ , ▼ keys with "+/-" 1 MHz as unit change; after adjustment press SET key to adjust right 3 digit frequency



(3) Adjust right 3 digit frequency: press ▲, ▼ keys with "+/-" 0.025 MHz as unit change; after adjustment press SET key to save setting.

Frequency
G:- - C:- -
638.100

2.) Group: set group and channel

(1) Press ▲, ▼ keys to Group; press SET key to enter into "Group" setup screen.

Freq.
Group
Sensit.
Mute

(2) After entering into the screen, press ▲, ▼ keys to select the desired group; press SET key to switch to Channel setup.

Group/Channel
G: 1
C: 1
638.100

(3) Press ▲, ▼ keys to select the desired channel; press SET key to save setting.

Group/Channel
G: 1
C: 1
638.100

3.) Sensit: microphone sensitivity setup

(1) Press ▲, ▼ keys to Sensit; press SET to enter into "Sensit" sensitivity setup screen.

Freq.
Group
Sensit.
Mute

(2) Press ▲, ▼ keys to adjust sensitivity with 3dB as unit change; adjustment range from -18dB to +12dB.

Sensitivity
3db

4.) Mute: set Mute

Press both ▲ and ▼ keys for 2 seconds to Mute or release Mute; Or press SET to enter into "Mute" screen; Choose "En" or "Dis" to Mute or to release Mute by pressing of ▲ or ▼ key. Then press SET to save the setting.

Freq.
Group
Sensit.
Mute

Mute Func.
◉ En.
◎ Dis.

5.) Device ID: set device ID

(1) Press ▲ , ▼ keys to Device ID; press SET key to enter into "Device ID" setup screen.

Device ID
Remoset
RF Power
Contrast

(2) Press ▲ , ▼ keys to adjust default ID between 0 and 255; press SET key to switch to set ID: ON/OFF.

Device ID
0
ID:OFF

ID: ON → only if microphone ID and receiver ID are the same, REMOSET function can work.

ID: OFF → regardless of ID, the transmitter will accept REMOSET data from all receivers of the same band and with ID Off.

The setting will affect the use of REMOSET.

Device ID
0
ID: ON

6.) Remoset: set Remoset function on/off

(1) Press ▲ , ▼ keys to Remoset; press SET to enter into "Remoset" setup screen.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select ON or OFF; press SET key to save setting.

Setting ON: Remoset function available.

Setting OFF: disenable Remoset function; and saves microphone power.

Remote Set
◎ ON
◉ OFF

7.) RF Power: set transmission power

(1) Press ▲ , ▼ keys to RF Power; press SET to enter into "RF Power" screen; set transmission power.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select transmission power as Hi or Low; press SET key to save setting.

Attention: if setting is Hi, microphone consumes more power.

RF Power
◎ Hi
◉ Low

Note: Hi represents 50 mW and Low 10 mW.

8.) Contrast: adjust screen contrast

(1) Press ▲ ,▼ keys to Contrast; press SET to enter into "Contrast" screen; adjust screen contrast.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ ,▼ keys to adjust contrast; higher number represents higher contrast; otherwise, lower contrast; -3 ~ 0 ~ +3 total seven adjustable levels.

Contrast
0

9.) Light T.: set screen backlight time

(1) Press ▲ ,▼ keys to Light T.; press SET to enter into "Light T." screen; set screen backlight time.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ ,▼ keys to select backlight time;
3 options available; Always OFF (shut off), 5~30Sec (5 Sec as unit change), Always ON (always on).
The longer screen backlight time, the shorter battery life.

Light Time
5 Sec.

10.) Name: set user name

(1) Press ▲ ,▼ keys to Name; press SET to enter into "Name" screen; set user name.

Name
Key Lock
Exit
----

(2) Press ▲ ,▼ keys to select texts; after confirmation press SET key to set the next character; if no characters is needed, select "blank" character; after confirmation press SET key to save setting; Name consists of 10 characters at maximum.

Name
UF-10T
Char 1 / 10

Indicate which character currently is set

10 characters available

11.) Key Lock: set key lock

(1) Press ▲ , ▼ keys to Key Lock; press SET to enter into "Key Lock" screen; set key lock

Name
Key Lock
Exit
----

(2) Select "Lock On" to lock all keys to prevent accidental touch.

Key Lock
◉ Lock On
◎ Lock Off

(3) If setting is "Lock On", pressing any keys will prompt the following screen.

Press Set
For 2 Sec.
to unlock
Keypad.

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key Lock" setup screen, select "Lock Off".

Key Lock
◎ Lock On
◉ Lock Off

12.) Exit: leave function setup menu

Press ▲ , ▼ keys to Exit; press SET key to leave menu.

Light T.
Name
Key Lock
Exit

6-3 System operation setup for Body-Pack transmitter // UF-10TB

6-3-1 Turn power on for UF-10TB Body-Pack transmitter (Fig. 5)

(1) Turn on power: press power key once

(2) Shut down power: press and hold power key for 2 seconds.

(3) Mute setup : When microphone is in use and mute setup is needed:

Set mute: short press power key once; indicator lamp flashes in red.

Cancel mute: short press power key again to cancel mute.

(4) Leave the setting window: press the power key once the LCD display will return to the main window.

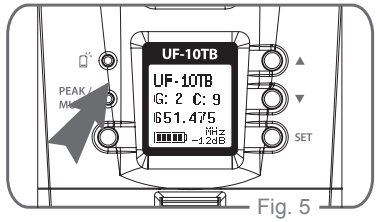


Fig. 5

6-3-2 Menu function setup :

Press and hold SET key for 2 seconds; enter into function setup menu;

(1) Press ▲ , ▼ keys to select desired item; press SET key to enter into menu.

(2) After entering into menu, press ▲ , ▼ keys to select desired value : press SET key to save setting.

1. Freq.: set frequency

(1) Press ▲ , ▼ keys to Freq. ; press SET key to enter into frequency adjustment screen.

Freq.
Group
Sensit.
Attenuate

(2) After going to frequency adjustment screen, first adjust left 3 digits ; Press ▲ ,▼ keys with "+/-" 1 MHz as unit change; after adjustment press SET key to adjust right 3 digits

Frequency
G: 1 C:1
625 .500

(3) Adjust right 3 digits : press ▲ , ▼ keys with "+/-" 0.025 MHz as unit change; after adjustment press SET key to save setting.

Frequency
G: 1 C:1
625 .500

2. Group: set group and channel

(1) Press ▲ , ▼ keys to Group; press SET key to enter into "Group" setup screen.

Group
Sensit.
Attenuate
Device ID

(2) After entering into the screen, press ▲ , ▼ keys to select the desired group ; press SET key to switch to Channel setup.

Group/Chan
G: 1
C: 1
625 . 500

(3) Press ▲ , ▼ keys to select the desired channel; press SET key to save setting.

Group/Chan
G: 1
C: 1
625 . 500

3. Sensit: microphone sensitivity setup

(1) Press ▲ , ▼ keys to Sensit; press SET to enter into "Sensit" sensitivity setup screen.

Sensit.
Attenuate
Device ID
Remoset

(2) Press ▲ , ▼ keys to adjust sensitivity with 3dB as unit change ; press SET key to save setting ; adjustable range from -18dB to +12dB.

Sensitivity
12 dB

4. Attenuate : Microphone Attenuate

(1) Press ▲ , ▼ key to Attenuate. Press SET to enter "Attenuate"setup screen.

Attenuate
Device ID
Remoset
RF Power

(2) Press ▲ , ▼ key to select ON or OFF
ON: -20dB attenuation
OFF: No attenuation

Attenuate
○ ON
◉ OFF

5. Device ID: set device ID

(1) Press ▲ , ▼ keys to Device ID; press SET key to enter into "Device ID" setup screen.

Device ID
Remoset
RF Power
Contrast

(2) Press ▲, ▼ keys to adjust default ID between 0 and 255; press SET key to switch to set ID: ON/OFF.

Device ID
255
ID : OFF

ID: ON → only if microphone ID and receiver ID are the same , REMOSET function will work.

Device ID
255
OFF / ON

ID: OFF → regardless of ID, the transmitter will accept REMOSET data from all receivers of the same band and with ID Off.

Device ID
0
OFF / ON

Press SET key to save setting.

The setting will affect the use of REMOSET.

6. REMOSET: set REMOSET function on/off

(1) Press ▲ , ▼ keys to REMOSET; press SET to enter into "REMOSET" setup screen.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select ON or OFF; press SET key to save setting.

Remote Set
○ ON
◉ OFF

Setting ON: REMOSET function available.

Setting OFF: disenable REMOSET function; and saves microphone power.

7.RF Power: set transmission power

(1) Press ▲, ▼ keys to RF Power; press SET to enter into "RF Power" screen;set transmission power.

RF Power
Contrast
Light T.
Name

(2) Press ▲, ▼ keys to select transmission power as Hi or Low; press SET key to save setting.

RF Power
○ Hi
◉ Low

Attention: if setting is Hi, the RF signal is stronger while microphone consumes more power.
Note: Hi represents 50 mW and Low 10 mW.

8. Contrast: adjust screen contrast

(1) Press ▲, ▼ keys to Contrast; press SET to enter into "Contrast" screen ; adjust screen contrast.

Contrast
Light T.
Name
Key Lock

(2) Press ▲, ▼ keys to adjust contrast; higher number represents higher contrast ; otherwise, lower contrast; -3 ~ 0 ~ +3 total seven adjustable levels.

Contrast
0

9.Light T.: set screen backlighting time

(1) Press ▲, ▼ keys to Light T.; press SET to enter into "Light T." screen; set screen backlight time.

Light T.
Name
Key Lock
Exit

(2) Press ▲, ▼ keys to select backlight time 3 options available; Always OFF (shut off), 5~30Sec (5 Sec as unit change), Always ON (always on).

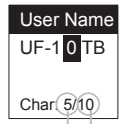
Light Time
30 Sec.

The longer screen backlight time, the shorter battery life.

10.Name: set user name

(1) Press ▲ , ▼ keys to Name; press SET to enter into "Name" screen; set user name.

(2) Press keys to select texts; after confirmation press SET key to set the next character; if no characters is needed, select "blank" character; after confirmation press SET key to save setting; Name consists of 10 characters at maximum.



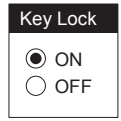
Indicate which character currently is set

10 characters available

11.Key Lock :

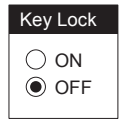
(1) Press ▲ , ▼ keys to Key Lock; press SET to enter into "Key Lock" screen; set Key Lock

(2) Select "Lock On" to lock all keys to prevent accidental touch; if setting is Lock On, mute function is not affected.



(3) If setting is "Lock On", except mute, pressing any other keys will prompt the following screen.

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key Lock" setup screen, select "Lock Off".
Press SET key to save setting.



12.Exit: leave function setup menu

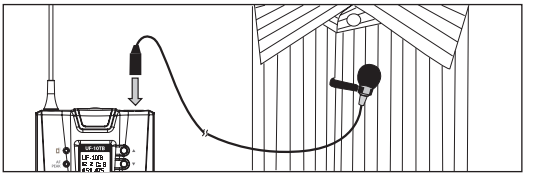
Press ▲ , ▼ keys to Exit; press SET key to leave menu.

Note: Pressing the power key will make the LCD back to main window.

6-4 Installation of Condenser Microphones

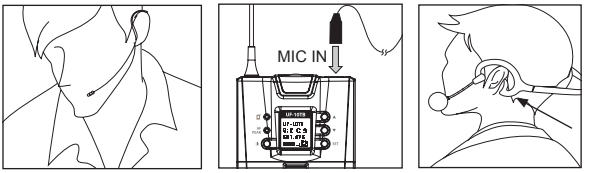
(1) Lavaliere microphone

Attach lavaliere microphone to a tie, lapel, where is suitable for sound pick-up. Plug the connector into input socket on the body-pack transmitter.



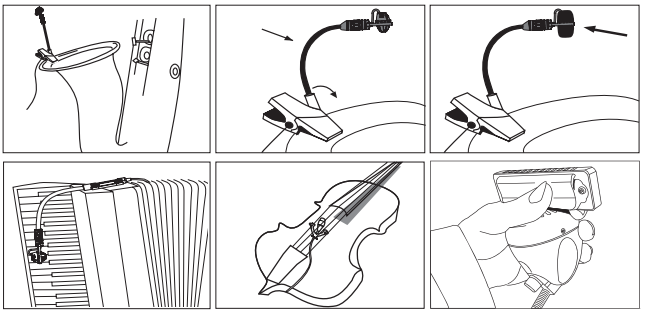
(2) Headset microphone

Put the headband behind your head, and fix the temples on your ears as shows, then adjust the gooseneck to have best miking. Plug the connector into input socket on the body-pack transmitter.



(3) Instrument Microphones

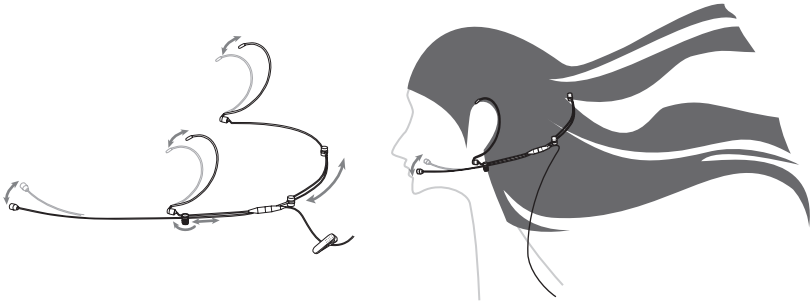
The system is compatible with JTS various instrument microphones.
For detail please refer to user's manuals of these microphones.



(4) Ear-hook Microphone

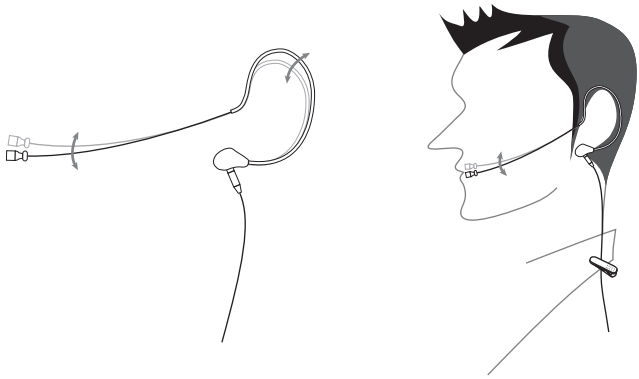
1. Lightweight Dual Ear Hook Microphone

Try on whether the headset is fit.
Adjust the headband to a suitable width.
Tighten or loosen the curve of the ear-hook by twisting the loop or expanding it.
Curve and bend the boom to fit your face.
Attach the detachable cable to a suitable place by a cable clip.



2. Lightweight Single Ear Hook Microphone

Try on whether the original curve is tight or loose.
Re-try and push the fixed curve against your earlobe.
Curve and Bend the boom to fit your face.
Attach the detachable cable to a suitable place by a cable clip.



7. Product notes

(1) To get the best signal performance, please keep at least 3 meters between a receiver and a transmitter.
(2) Keep a receiver and transmitter from other metal object for at least 50cm.
(3) To prevent feedback and whistle, please do not aim transmitter to speaker.
(4) It is suggested to hold the middle section of transmitter (microphone) body to achieve the best pickup effect.
(5) When multiple units are in use, it is suggested to use JTS UA-900 antenna distributor to prevent interference.
(6) When transmitter is not used for a long time, please remove batteries from battery compartment to avoid leakage of electrolyte solution to damage transmitter.
(7) When replacing batteries, please replace two batteries at the same time and use the same brand of battery, to assure the best power performance.

8. 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.