

# UF-20DA/JSS-20/UF-20TB

UHF PLL 75MHz

寬頻純自動選訊系統產品使用說明書

UHF PLL 75MHz

Professional Wideband True Diversity System Product Manual

## INDEX


<b>1. System operation instructions</b>	<b>1</b>
<b>2. Features</b>	<b>1</b>
2-1 UHF PLL Wideband True Diversity Receiver // UF-20DA	1
2-2 UHF PLL Handheld Transmitter // JSS-20	1
2-3 UHF PLL Body-Pack Transmitter // UF-20TB	1
<b>3. Specification</b>	<b>2</b>
3-1 UHF PLL Wideband True Diversity Receiver // UF-20DA	2
3-2 Professional Wideband Handheld Transmitter // JSS-20	3
3-3 UHF PLL Body-Pack Transmitter // UF-20TB	3
3-4 Optional Charger For JSS-20 & UF-20TB	4
3-5 Optional Condenser Microphone	4
<b>4. Parts Identification &amp; Accessories</b>	<b>6</b>
4-1 Buttons and LCD Displays Wideband True Diversity Receiver // UF-20DA	6
4-2 Buttons and LCD Displays of UHF PLL Handheld Transmitter // JSS-20	7
4-3 Buttons and LCD Displays of UHF PLL Body-Pack Transmitter // UF-20TB	8
4-4 Optional 2-Slot Charger/8-Slot Charger // CH-2/CH-8	9
4-5 Optional Condenser Microphone	9
4-6 Accessories	10
<b>5. Connection method</b>	<b>11</b>
5-1 Receiver connection method // UF-20DA	11
5-2 Cascading of AC power cable and antenna	11
<b>6. Operation</b>	<b>12</b>
6-1 Operation settings for Wideband True Diversity Receiver // UF-20DA	12
6-2 Handheld transmitter system operation setting // JSS-20	18
6-3 Body-pack transmitter system operation setting // UF-20TB	21
6-4 Installation of Condenser Microphones	24
<b>7. Product notes</b>	<b>25</b>
<b>8. Important Notice</b>	<b>25</b>

# 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”.
- Caution: The suitable environment for this product is with a temperature between -10°C (14°F) and +50°C (122°F).

## 2. Features

### 2-1 UHF PLL Wideband True Diversity Receiver // UF-20DA

- Dual Channel True Diversity Wireless Receiver with  Dante™ Technology.
- UHF true diversity technology renders 200-480 meters of operation distance
- Maximum 2400 to 3000 selectable frequencies across 60 to 75 MHz
- Preset 15 groups each of up to 63 compatible channels
- User programmable 6 groups each of 64 channels
- Free space scan function
- JTS Patented obstacle-free RF **REMOSET**® function synchronizes a transmitter by pushing a button
- JTS LCX circuit design technology minimizes Companding noise
- The **REMOSET**® now sends not only the frequency data but also transmitter’s RF power, sensitivity, low cut, key lock and user’s name.
- RF “NO SIGNAL” alert function.
- AF “MUTE” alert function.
- Transmitter “LOW BATTERY” alert function.
- Built in equalizer
- Power and Antenna cascading output provided. (UF-20DA Only)

### 2-2 UHF PLL Handheld Transmitter // JSS-20

- 2400 to 3000 selectable frequencies
- Preset 15 groups each of up to 63 compatible channels
- Phase-Locked Loop (PLL) synthesized tune
- Extended dynamic range and smooth frequency response.
- Adjustable transmission power between Low and High
- The panel Lock-On function prevents tampering and RF interruption
- Low cut function.
- JTS newest development SAM-8WLN capsule assures outstanding acoustic performance while minimizes touching noise.
- Interchangeable capsule design for various choices including some classic capsule modules.
- It is designed with slot-in charging feature with two AA NiMH rechargeable batteries.

### 2-3 UHF PLL Body-Pack Transmitter // UF-20TB

- 2400 to 3000 selectable frequencies
- Preset 15 groups each of up to 63 compatible channels
- Phase-Locked Loop (PLL) synthesized tune
- Extended dynamic range and smooth frequency response.
- Adjustable transmission power between Low and High
- The panel Lock-On function prevents tampering and RF interruption
- Together with JTS various music instrument mics, headset mics and tie clip mics this bodypack is versatile for all applications.
- It is designed with slot-in charging feature with two AA NiMH rechargeable batteries.

### 3. Specification

#### 3-1 UHF PLL Wideband True Diversity Receiver // UF-20DA

Frequency Preparation	PLL Synthesized Control
Frequency Setting	JTS patented obstacles-free RF REMOSET
Carrier Frequency Range	UHF 470~960MHz
Channel	Dual
Bandwidth	75MHz Wideband (MAX)
S/N Ratio	>108dB(A)
T.H.D.	<0.5%@1KHz
Chassis	1U standard metal chassis
Preset Channels/Group	<ul style="list-style-type: none"> <li>*From group 1 ~ 15 up to 63 interference-free compatible channels.</li> <li>*844 preset channels/group and 3000 selectable frequencies across 60 to 75 Hz Bandwidth.</li> <li>*User programmable from U1 ~ U6 each of 64 channels reserved.</li> </ul>
Display	LCD
Display Contents	Group, Channel, Frequency, Antenna A/B ,RF/AF Level Meter, Mute Display, Transmitter Battery Status, REMOSET ID Number, User Name, Squelch
EQ	Low cut, Hi freq Boost
Receiving Mode	True diversity
Audio Output Level	Maximum 6dBu
XLR AF Output Impedance	150/600Ω (mic/Line)
Frequency Response	50Hz~18kHz, with high-pass filter
Volume Adjustwnt	0~-50dB
Squelch	Pilot Tone & Noise Mute
Power Suply	100~240V or 12V DC
Output Connector	<ul style="list-style-type: none"> <li>2 XLR Balanced Socket</li> <li>2 Ø6.3mm Balanced phone jack</li> </ul>
Network Interface	Dual Port Ethernet, Dante Digital Audio
Dimension	480mm(W)x45mm(H)x260mm(D)
Weight	2.9kg
Note	Actual product specifications may vary depending on region.

### 3-2 Professional Wideband Handheld Transmitter // JSS-20

Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
Bandwidth	75MHz Wideband (MAX)
RF Outputs	Low / High
Stability	<0.005%
Frequency Deviation	±48KHz (Peak)
LCD Display	Group, Channel, Frequency, Battery Status, RF Power, Sensitivity, Device ID, User Name, Low Cut
Controls	Power ON/OFF, Frequency, Group, Sensitivity, Low Cut, Device ID, Remoset, RF Power, Contrast, Light Time, User Name, Reset, KeyLock, Mute, Reset
Spurious Emissions	<-50 dBC
Audio Frequency Response	50Hz~18k Hz
Capsule Module	Interchangeable
Battery	AA NiMH x2
Dimension	50mm(W)x253mm(H)x35.5mm(D)
Weight	350g
Note	Actual product specifications may vary depending on region.

### 3-3 UHF PLL Body-Pack Transmitter // UF-20TB

Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
Bandwidth	75MHz Wideband (MAX)
RF Outputs	Low / High
Stability	<±10KHz
Frequency Deviation	±48KHz (Peak)
Chassis	Aluminium alloy
LCD Display	Group, Channel, Frequency, Battery Status, RF Power, Sensitivity, Device ID, User Name, Low Cut
Controls	Power ON/OFF, Frequency, Group, Sensitivity, Low Cut, Device ID, Remoset, RF Power, Contrast, Light Time, User Name, Reset, KeyLock, Mute, Reset, Attenuate
Input Connector	4P Mini XLR
Spurious Emissions	<-50 dBC
Audio Frequency Response	50Hz~18k Hz
Battery	AA NiMH x2
Dimension	62mm(W)x80.3mm(H)x22.6mm(D)
Weight	93g
Note	Actual product specifications may vary depending on region.

### 3-4 Optional Charger For JSS-20 & UF-20TB

Model No	CH-2 (2-Slot Charger)	CH-8 (8-Slot Charger)
Input	AC 100~240V, 0.4A max	AC 100~240V, 1.2A max
Output	DC 12V, 1A	DC 15V, 3A

### 3-5 Optional Condenser Microphone

#### Lavaliere Microphone

Model No	CM-501Hi	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)	-54±3 dB	-60±3 dB	-53±3 dB
Impedance	3.7kΩ	2.2kΩ	4.4kΩ
Max. SPL for 1% THD	115dB	130dB	130dB
Dimension	∅10.1mm(W)x26.4mm(H)	∅5mm(W)x 9mm(H)	∅4mm(W)x11mm(H)
Net Weight	21.5g	20.7g	7g (cable excluded)

#### Headset Microphone

Model No	CM-214i	CM-214Ui	CM-214ULi
Connector	4P Mini XLR	4P Mini XLR	4P Mini XLR
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	125mm(W) x 34mm(H) x157mm(D)	125mm(W) x 134mm(H) x157mm(D)	125mm(W) x 134mm(H) x157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

Model No	CM-235i	CX-504
Connector	4P Mini XLR	4P Mini XLR
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	155mm(W) x 134mm(H) x 157mm(D)	285mm(W) x 55mm(H) x 111.3mm(D)
Net Weight	17g (cable excluded)	56.3g

### Ear-hook Microphone

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

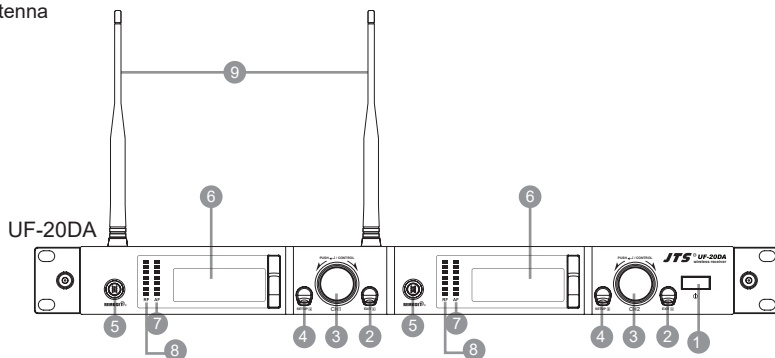
Model No	CX-608(W)	CX-516W
Connector	4P Mini XLR	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-67±3 dB	-67±3 dB
Impedance	220Ω	220Ω
Max. SPL for 1% THD	130 dB	130 dB
Good For	Winds	Accordion

## 4. Parts Identification & Accessories

### 4-1 Buttons and LCD Displays Wideband True Diversity ReceiverReceiver // UF-20DA

#### 4-1-1 Front panel

- ① Power : Power on: Push the Power button to turn on  
Power off: Push and hold the Power button until "Power Off" shows on the LCD
- ② EXIT key: Push EXIT to cancel the selection and exit the menu when the UF-20DA is in the "Setting Menu."
- ③ Rotary switch: When in the "Function Setting Menu," the rotary switch allows the selection of the desired functions up and down; push the rotary switch (or the SETUP) to enter the selection, rotate the switch to select the desired setting and push SETUP to save it.
- ④ SETUP: Push and hold for 2 seconds to enter the "Setting Menu;" when the selection and setting is done with [3. Rotary Switch], push SETUP to save the setting.
- ⑤ REMOSET: When the setting is done on the receiver, push REMOSET to transmit the settings to the handheld or body-pack transmitter.
- ⑥ LCD display: See [4-1-2 Description of receiver LCD display].
- ⑦ AF indication: shows the strength of current audio signal.
- ⑧ RF indication: shows the strength of current radio signal.
- ⑨ Antenna



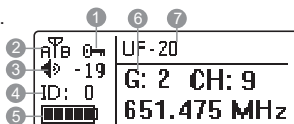
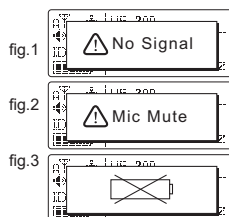
#### 4-1-2 Description of receiver LCD display

Display color:

- Red: 1. No RF signal is received from any transmitter (fig.1), and the LCD shows:  
2. Transmitter on mute (fig.2).  
3. Transmitter battery low (fig.3).

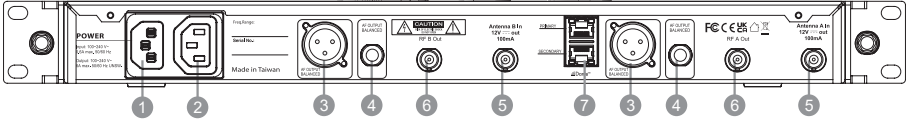
Orange: RF and AF signals are received from transmitters.

- ① : Panel Lock On activated on receiver.
- ② : It indicates antenna A or B is receiving signal; is shown when no signal is received from a microphone.
- ③ -19 : receiver volume.
- ④ ID: : device ID: from 0 to 255.
- ⑤ : transmitter battery level, MUTE is shown when no signal is received from transmitter or the transmitter is mute.
- ⑥ G: the current group in use; from 1 to 15  
CH: the current channel in use, up to 63  
Frequency: the current frequency in use
- ⑦ User's Name (defined in the username setting in the menu)



4-1-3 Back panel // UF-20DA

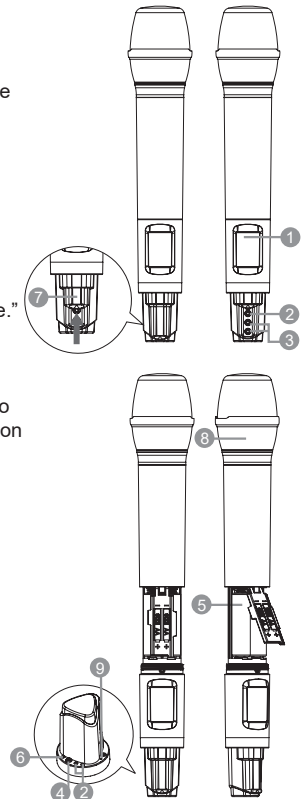
- ① POWER: AC power, 100 ~ 240VAC
- ② AC power outlet (for cascading): it allows power connection to next receiver with an extension AC power cable.
- ③ AF OUTPUT BALANCED: XLR balanced audio output jack
- ④ AF OUTPUT BALANCED: Ø6.3mm balanced audio output jack
- ⑤ Antenna A (or B) In: antenna input (or antenna booster jack + 12VDC/150mA); it connects to antenna or antenna booster through a BNC signal cable.
- ⑥ RF A (or B) Out: RF signal output socket (for cascading): Provide RF signal to next receiver.
- ⑦ Donte



4-2 Buttons and LCD Displays of UHF PLL Handheld Transmitter // JSS-20

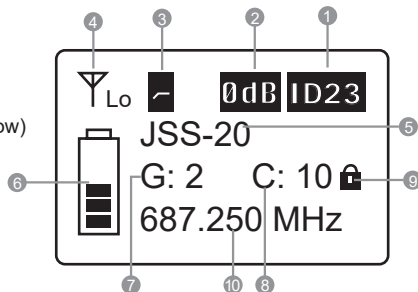
4-2-1 Panel functions

- ① LCD display
- ② SET: set and save handheld transmitter
- ③ ▲/▼: up and down buttons to select the desired function of the handheld device.
- ④ Power
  - (1) Handheld transmitter on  
Power on: push the Power button.  
Power off: push and hold the power button for one second till the display shows "Power Off."
  - (2) Mute: the handheld transmitter is in use (with main screen on display)  
To mute: Short push the power button display "to activate mute."  
To cancel: Short push the power button display again "to deactivate mute."
  - (3) Exit Setting Menu:  
Already in the Setting Menu: push the power button to return to main screen. Already in a function setting: push the power button to return to the Setting Menu and again to return to the main screen.
- ⑤ Battery tray
- ⑥ Recharging jack: for power charging (Charger is optional)
- ⑦ Slide cover
- ⑧ Ball grille
- ⑨ LED status display
  - Green: power on
  - Blue: Remoset transmitting (approximately 5 seconds)
  - Red: battery low
  - Flashing red: mute
  - Flashing red/green: battery low and mute



#### 4-2-2 Description of LCD display

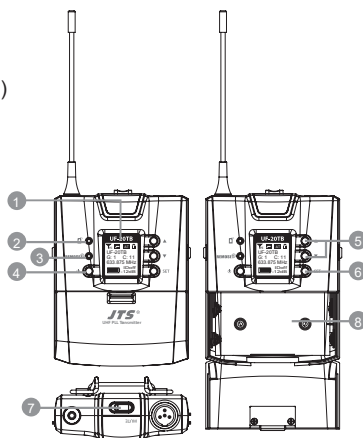
- 1 Device ID: from 0 to 255
- 2 Sensitivity: -15dB ~ +15dB
- 3 Low Cut indication
- 4 Transmission Power: Hi (High) and Lo (Low)
- 5 User name
- 6 Battery level: in 5 levels
- 7 G: the group in use, from 1 to 15
- 8 CH: the channel in use, up to 63
- 9 Lock On Statue
- 10 Frequency: it shows the RF frequency



### 4-3 Buttons and LCD Displays of UHF PLL Body-Pack Transmitter // UF-20TB

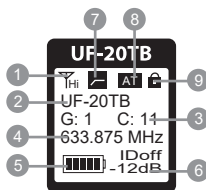
#### 4-3-1 Panel functions

- 1 LCD display
- 2 Battery status: Red: battery low; replace battery
- 3 REMOSET indicators:  
Blue: Remoset transmitting (approximately 5 seconds)
- 4 Power:  
(1) On: push the power button  
Off: push and hold the power button for 2 seconds till the display shows "Power Off."  
(2) Exit Setting Menu: when in the Setting Menu, push the power button to return to the main screen.
- 5 ▲/▼: up and down buttons for selection
- 6 SET: to set and save
- 7 Mute Switch / LED Indicator :  
(1) Show green light when power is on.  
(2) Show red light when battery level is too low.  
(3) Flash red light when switch to "MUTE" function to mute the transmitter.  
(4) Flash red light and green light when mute function is on and battery level is too low.
- 8 Battery tray



#### 4-3-2 Description of LCD display

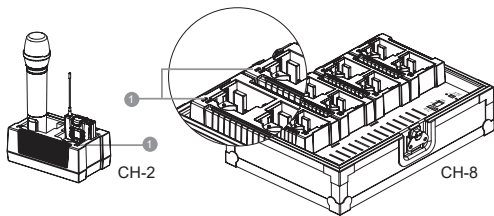
- 1 Transmission Power: Hi (High) and Lo (Low)
- 2 User Name
- 3 Indicate current Group and current Channel
- 4 Frequency: it shows the RF frequency
- 5 Battery level: in 5 levels
- 6 Sensitivity Value
- 7 Low Cut indication
- 8 Attenuate Indication
- 9 Lock On Statue



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

### 4-4 Optional 2-Slot Charger/8-Slot Charger // CH-2/CH-8

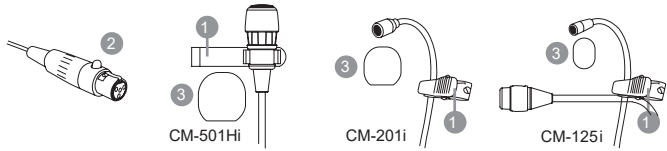
- ① LED Indicator
- Full Charged / Standby: Green
- Charging: Flash Green
- Fault: Flash Red
- Charging Time: 3 hours



### 4-5 Optional Condenser Microphone

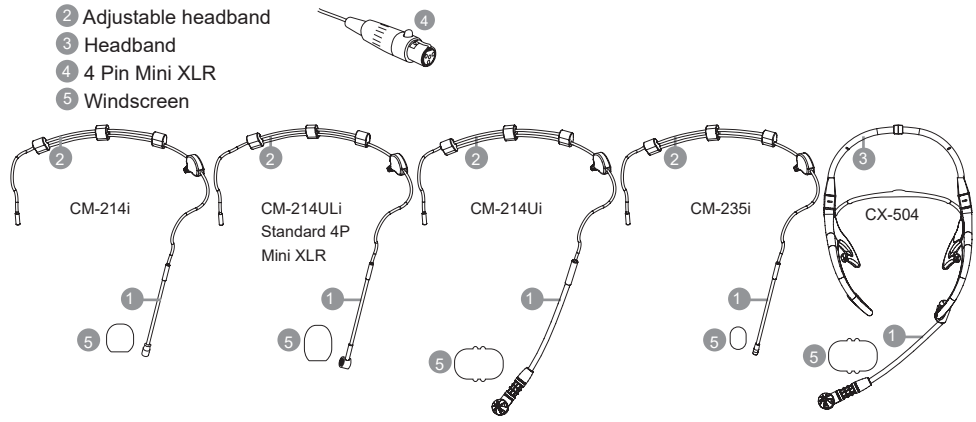
#### Lavaliere Microphone // CM-501Hi/CM-201i/CM-125i

- ① Clip
- ② 4 Pin Mini XLR
- ③ Windscreen



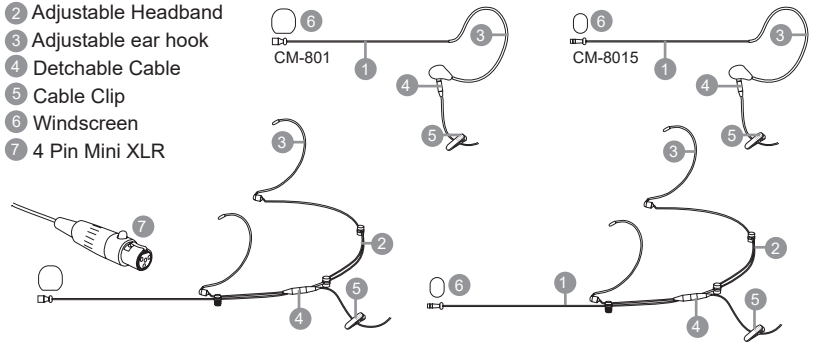
#### Headset Microphone // CM-214i/CM-214Ui/CM-214ULi/CM-235i/CX-504

- ① Gooseneck
- ② Adjustable headband
- ③ Headband
- ④ 4 Pin Mini XLR
- ⑤ Windscreen



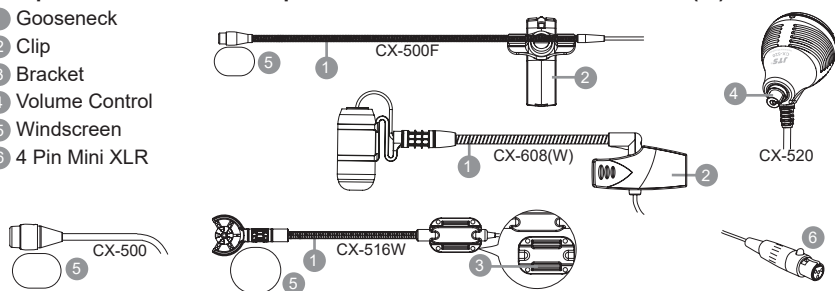
#### Ear-hook Microphone // CM-801/CM-804i/CM-8015/CM-825i

- ① Boom
- ② Adjustable Headband
- ③ Adjustable ear hook
- ④ Detchable Cable
- ⑤ Cable Clip
- ⑥ Windscreen
- ⑦ 4 Pin Mini XLR



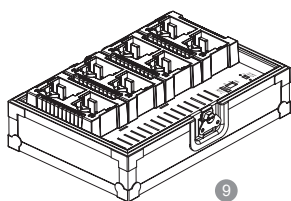
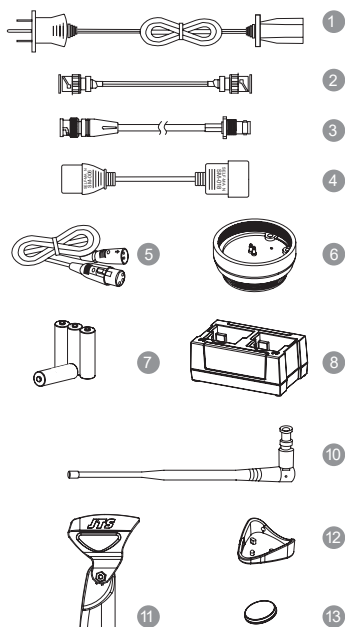
### Compatible Instrument Microphone // CX-500/CX-500F/CX-520/CX-608(W)/CX-516W

- 1 Gooseneck
- 2 Clip
- 3 Bracket
- 4 Volume Control
- 5 Windscreen
- 6 Pin Mini XLR



### 4-6 Accessories

- 1 AC power cable \* 1
- 2 BNC/BNC RF extension cable for cascading \* 2
- 3 Front antenna signal cable **Option**
- 4 Extension AC power cable for series connection \* 1
- 5 XLR(M)/XLR(F) Audio cable \* 2
- 6 MA-935 Capsule adaptor **Option**
- 7 Rechargeable battery **Option**  
( 4 or 16 batteries will be included when purchase CH-2 or CH-8 charger)
- 8 CH-2 double-slot charger **Option**
- 9 CH-8 8-slot charger **Option**
- 10 Antenna \* 2
- 11 MH-56 Microphones Holder \* 2
- 12 Color ID housing \* 7
- 13 Rubber Feet Pad \* 4



## 5. Connection method

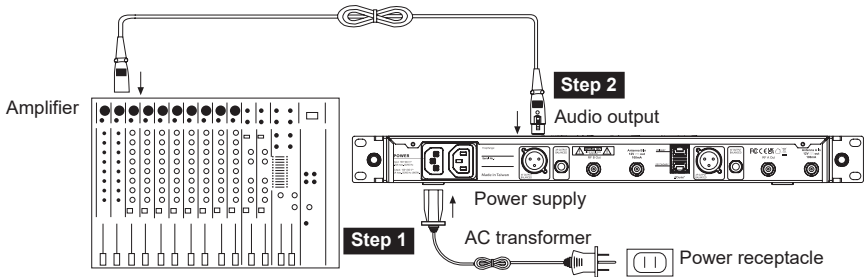
### 5-1 Receiver connection method // UF-20DA

#### 1. UF-20 output to a mixer or an amplifier:

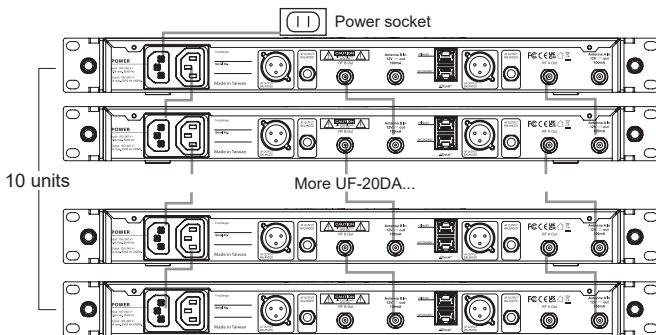
Audio cable: XLR or Ø 6.3mm audio cable, one end connects to audio output of UF-20DA "AF OUTPUT BALANCED", while the other end connects to audio input of a mixer or an amplifier.

#### 2. Connect to power:

Connect to AC outlet: one end connects to receiver "power input", while the other end connects to AC power receptacle.



### 5-2 Cascading of AC power cable and antenna



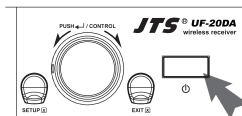
It is allowed to cascade power and antennas for 10 units.

## 6. Operation

### 6-1 Operation settings for Wideband True Diversity Receiver // UF-20DA

#### 6-1-1 Turn the receiver power on.

1. Install the receiver antenna.
2. Push the power button to turn the power on
3. To turn off: push and hold the power button till the display shows "Power Off."



#### 6-1-2 REMOSET function:

1. Push the REMOSET button (Fig. 1) and the blue indicator (Fig. 2) starts to flash, indicating the receiver is transmitting data.

Note: When using the REMOSET function of UF-20DA, it is recommended to carry out REMOSET one by one. This is to prevent the interference between the REMOSET signals and the failure of data transmitting.

2. REMOSET successful: the blue indicator on the transmitter is on for 3 seconds and that on the receiver stops flashing.

3. REMOSET failed: Check the following when the blue indicator on the receiver flashes in a slow pace:

- (1) If the receiver and the transmitter are of the same frequency band.
- (2) The "RemoSet Function" on in the function menu of Transmitter is "activated;"
- (3) The "Device ID" is the same on both the receiver and transmitter.
- (4) The transmitter battery is low (synchronization is not possible if it is too low).

Note1: For receiver settings, please see: "6. Device ID" and "7. Microphone Setting" of 6-1 Operation settings for Wide band True Diversity Receiver.

Note2: For handheld transmitter settings, please see: "5. Device ID" and "6. RemoSet Function" of 6-2 Operation settings for handheld transmitter system.

Note3: For body-pack transmitter settings, please see: "5. Device ID" and "6. RemoSet Function" of 6-3 Operation settings for body-pack transmitter system.

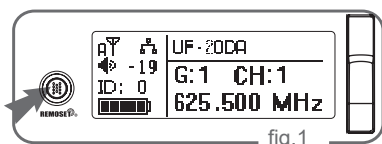


fig.1

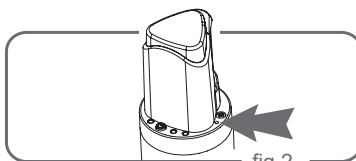


fig.2

#### 6-1-3 Menu setting

Push and hold the SETUP button for 2 seconds to enter the menu.

1. Turn the rotary switch clockwise or counterclockwise to select the desired function. Push the switch (or the SETUP button) to enter the setting screen. Push EXIT to return to the main menu if nothing is done.
2. In the setting screen, turn the rotary switch to the desired value or function, and push SETUP to save the setting.
3. EXIT: return to main menu or main screen; no saving or modification of settings is made; push EXIT once to return to the menu and again to return to the main screen.

#### 1. Frequency : this is to define the frequency.

- (1) Rotate the rotary switch to "1. Frequency" Push the rotary switch (or SETUP) to enter the frequency adjustment screen.
- (2) Adjust the left three digits of frequency: rotate the switch [+/-] in steps of 1MHz. Push the rotary switch to save the selected value.
- (3) Adjust the right three digits of frequency: rotate the switch [+/-] in steps of 0.025MHz. Push the rotary switch to save the selected value.

Note: you may select to adjust the left or right part of frequency by pushing the rotary switch.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan
Setup Frequency	
687.250 MHz	
G: 1 CH: 1	

## 2. Group/Channel : this is to define groups and channels.

- (1) Rotate the rotary switch to "2. Group/ Channel." Push SETUP (or the rotary switch) to enter the setting screen.
- (2) Rotate the switch to select a group "G:" from 1 to 15. Push the rotary switch to save the selected value.
- (3) Rotate the switch to select a channel "CH:" from up to 63 channels. Push the rotary switch to save the selected value.

Note: you may select to adjust the group or channel by pushing the rotary switch.

## 3. User Group: groups and channels defined by user

- (1) Rotate the rotary switch to "3. User Group." Push the rotary switch (or SETUP) to enter the setting screen.
- (2) Custom Group: the user is to define a group
  - (1. Rotate the rotary switch to "1. Custom Group." Push the rotary switch to enter the setting screen.

(2. For "every push" of the rotary switch, the display jumps from group (G), channel (CH) to frequency (the left or right three digits): when the frequency shows "----,---MHz," it means that this channel (G/CH) is not in use.

(3. Rotate the rotary switch to select the group, channel or frequency for setting; push SETUP to save the setting.

- (3) Clear Group: delete a group defined by user
  - (1. Rotate the rotary switch to "2. Clear Group." Push the rotary switch to enter the "Clear Group" screen.
  - (2. Rotate the rotary switch to select the group to be deleted and push the rotary switch. Select "Confirm" and all the channels and frequencies of that group is returned to "----,---MHz." Select confirm or cancel and push the rotary switch.
- (4) Return: return to main menu
 

Rotate the rotary switch to "3. Return," and push the switch to return to the main menu.

## 4. Scan: scan for channels

- (1) Rotate the rotary switch to "4. Scan." Push the rotary switch (or SETUP) to enter the channel scanning screen.
- (2) All Groups: scan all groups
  - (1. Rotate the rotary switch to "1. All Groups." Push the rotary switch (or SETUP) to enter the menu.
  - (2. Enter the "All Groups" (push EXIT to go back up a level) and push the rotary switch to scan.

(3. The progress in % is shown on the screen during the scanning. To stop scanning, just push EXIT.

M	1. Frequency
E	2. Group/Channel
N	3. User Group
U	4. Scan
Setup Group	
G: 2 CH: 10	
633.625MHz	

M	1. Frequency
E	2. Group/Channel
N	3. User Group
U	4. Scan
1. Custom Group	
2. Clear Group	
3. Return	
Setup User Group	
G: U1 CH: 1	
624.000 MHz	
Setup User Group	
G: U1 CH: 1	
----,---MHz	

1. Custom Group	
2. Clear Group	
3. Return	
Group: U1	
Rotary to select	
Push "Enter" to clear	
Push "Exit" to return	
Group "U1" will be cleared continues?	
<input checked="" type="radio"/> Yes <input type="radio"/> NO	
1. Custom Group	
2. Clear Group	
3. Return	

M	1. Frequency
E	2. Group/Channel
N	3. User Group
U	4. Scan
1. All Groups	
2. Result List	
3. Current Group	
4. Return	
Scan All Groups	
Press Setup or Enter to start scan.	
Press Exit to quit.	

(4. The display goes to the “2. Result List” screen automatically after the scanning is completed. User may select the list in the menu.

The user may view the scan result in the screen. Rotate the rotary switch to select an available channel. Push SETUP to save settings.

- (3) Result List: view the scan result list  
Rotate the rotary switch to “2. Result List.” Push the rotary switch and enter the menu screen to view the result. Select an available channel and push SETUP to save the settings.

- (4) Current Group: scan a single group
  - (1. Rotate the rotary switch to “3. Current Group.” Push the rotary switch to enter the menu screen.
  - (2. Push the rotary switch to start scanning a single group.
  - (3. The display shows OK after scanning; for “every push” of the rotary switch, the unit starts to scan the next group. Select and push SETUP to save the setting. Push EXIT to go back to the previous level.

- (5) Return: return to main menu  
Rotate the rotary switch to “4. Return.” Push the rotary switch to return to the main menu.

Scan All Groups
Scanning... 2%

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

Scan Result List
G: 1 CH: 1
Open Channel : 48

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

Scan Current Group
G: 1 CH:1

Scan Current Group
G: 1 CH: 1 OK
Press Setup to Save.

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

**5. Squelch: adjust the receiver sensitivity**

- (1) Rotate the rotary switch to “5. Squelch.” Push the rotary switch (or SETUP) to enter the adjustment menu.
- (2) Rotate the rotary switch to adjust the sensitivity. 0dB is the standard value. Push SETUP to save the setting. The higher the value, the lower the receiver sensitivity, and the lower the value, the higher the receiver sensitivity.

M	5. Squelch
E	6. Device ID
N	7. Mic Config
U	8. Volume

Setup Squelch
0

**6. Device ID: define the ID code of device**

- (1) Rotate the rotary switch to “6. Device ID.” Push the rotary switch (or SETUP) to enter the ID setting menu.
- (2) Rotate the rotary switch to select the ID from 0-255; push SETUP to save the setting.

Note1: This setting determines the use of REMOSET. The receiver and transmitter must have the same “device ID” in order to use REMOSET.

Note2: this is not a problem if the microphone ID is not activated.

M	5. Squelch
E	6. Device ID
N	7. Mic Config
U	8. Volume

Setup Device ID
23 [0~255]

## 7. Mic Config: Adjust the REMOSET setting of transmitter.

- (1) Rotate the rotary switch to "7. Mic Config." Push the rotary switch (or SETUP) to enter the adjustment menu.

(2) Sensitivity

- (1. Rotate the rotary switch to "1. Sensitivity." Push the rotary switch (or SETUP) to enter the adjustment menu.  
 (2. Rotate the rotary switch to select and set the value. Push SETUP to save the setting; range: -15dB - +15dB

- (3) Attenuate: it sets the attenuation of microphone input volume from body-pack transmitter.

- (1. Rotate the rotary switch to "2. Attenuate." Push the rotary switch (or SETUP) to enter the adjustment menu.  
 (2. Rotate the rotary switch to activate or deactivate. Push SETUP to save the setting.

Note: this is not supported by handheld transmitters.

(4) Low Cut: base attenuation

- (1. Rotate the rotary switch to "3. Low Cut." Push the rotary switch (or SETUP) to enter the adjustment menu. The Low Cut is not set.  
 (2. Rotate the rotary switch one notch clockwise to select Low Cut . Push SETUP to save the setting.

(5) RF Power: RF frequency

- (1. Rotate the rotary switch to "4. RF Power" Push the rotary switch (or SETUP) to enter the adjustment menu.  
 (2. Rotate the rotary switch to select RF Power.  
 High → high RF Power  
 Low → low RF Power  
 Push SETUP to save the setting.

(6) KeyLock

- (1. Rotate the rotary switch to "5. KeyLock." Push the rotary switch (or SETUP) to enter the adjustment menu.  
 (2. Rotate the rotary switch to select lock or unlock. Push SETUP to save the setting.


(7) Remoset Config: to select or unselect REMOSET settings.

- (1. Rotate the rotary switch to "6. Remoset Config." Push the rotary switch (or SETUP) to enter the setting menu.  
 (2. Rotate the rotary switch to select and push the switch to check the selection; REMOSET only synchronizes on checked selections.
- |                                      |  |
|--------------------------------------|--|
| <input type="checkbox"/> Low Cut     | <input type="checkbox"/> UserName          |
| <input type="checkbox"/> Frequency   | <input type="checkbox"/> Save and Exit     |
| <input type="checkbox"/> Sensitivity | <input type="checkbox"/> Key lock          |
| <input type="checkbox"/> Attenuate   | <input type="checkbox"/> Exit Without Save |
- Select and push SETUP to save the settings.

Note: At least one item must be selected.

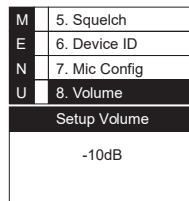
(8) Return: to main menu

- Rotate the rotary switch to "7. Return" and push the switch to return to main menu.

M	5. Squelch
E	6. Device ID
N	7. Mic Config
U	8. Volume
1. Sensitivity	
2. Attenuate	
3. Low Cut	
4. RF Power	
Mic Sensitivity	
0 dB	
1. Sensitivity	
2. Attenuate	
3. Low Cut	
4. RF Power	
Mic Attenuate	
<input type="radio"/> ON	
<input type="radio"/> OFF	
1. Sensitivity	
2. Attenuate	
3. Low Cut	
4. RF Power	
Mic Low Cut	
	
Mic Low Cut	
<input type="radio"/> High	
<input type="radio"/> Low	
4. RF Power	
5. KeyLock	
6. Remoset Config	
7. Return	
Mic KeyLock	
<input type="radio"/> Lock ON	
<input type="radio"/> Lock OFF	
4. RF Power	
5. KeyLock	
6. Remoset Config	
7. Return	

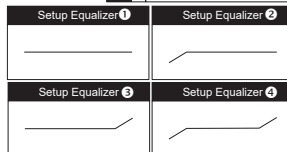
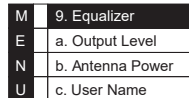
**8. Volume: volume adjustment**

- (1) Rotate the rotary switch to "8. Volume." Push the rotary switch (or SETUP) to enter the volume adjustment menu.
- (2) Rotate the rotary switch to locate the desired volume from Mute, -50dB to 0dB. Push SETUP to save the setting.



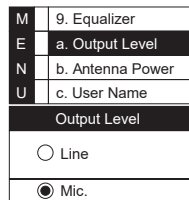
**9. Equalizer: equalizer settings**

- (1) Rotate the rotary switch to "9. Equalizer." Push the rotary switch (or SETUP) to enter the setting menu.
- (2) Rotate the rotary switch to select one of the following:
  - Equalizer deactivated (fig.1)
  - Decrease low frequency gain (fig.2)
  - Increase high frequency gain (fig.3)
  - Decrease low frequency gain and increase high frequency gain (fig.4)
 Push SETUP to save the setting.



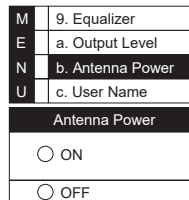
**a. Output Level: XLR audio output level setting**

- (1) Rotate the rotary switch to "a. Output Level." Push the rotary switch (or SETUP) to enter the setting menu.
- (2) Rotate the rotary switch to choose line or mic level: When "Mic." is selected, the volume of XLR audio output drops by "-20dB." Push SETUP to save the setting.



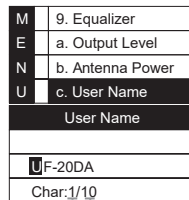
**b. Antenna Power: power settings for antenna booster (for antenna A (or B) IN jack)**

- (1) Rotate the rotary switch to "b. Antenna Power." Push the rotary switch (or SETUP) to enter the setting menu.
- (2) Rotate the rotary switch to select:
  - ON: voltage output +12VDC
  - OFF: voltage output 0V
 Push SETUP to save the setting.



**c. User Name: user name settings**

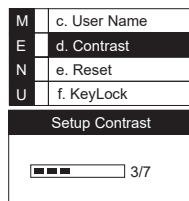
- (1) Rotate the rotary switch to "c. User Name." Push the rotary switch (or SETUP) to enter the setting menu.
- (2) Rotate the rotary switch to select the desired characters. Push the rotary switch to confirm the selection, and the screen jumps to the next character to be selected. Select "blank" for positions where no character is needed. Push SETUP to save the setting. The user name could contain up to 10 characters. Push SETUP to save the setting.



Up to 10 characters are allowed  
Current character to be selected

**d. Contrast: screen contrast settings**

- (1) Rotate the rotary switch to "d. Contrast." Push the rotary switch (or SETUP) to enter the setting menu.
- (2) Rotate the rotary switch to make the screen darker or brighter. Push SETUP to confirm and save the setting. The higher the value, the darker the color tone. There are 7 levels available. Push SETUP to save the setting.



### e. Reset

- (1) Rotate the rotary switch to “e. Reset” Push the rotary switch (or SETUP) to enter the setting menu.

Note: Once reset, all the settings will be returned to factory defaults. If REMOSET is needed, please check that the ID is the same as that of transmitter.

- (2) Push SETUP to reset.

M	c. User Name
E	d. Contrast
N	e. Reset
U	f. Dante
This will erase all data from receiver's Internal Storage. Press <b>[S]</b> 2 sec to Reset	

### f. Dante

- (1) Left Display:

Used for adjusting the volume and network settings of Dante.

(1 Dante Volume: Adjustable between -50 to 0 dB.

(2 Network Settings:

- DHCP Mode: Change the certain setting in Mode to DHCP. A DHCP-enabled router must be present in the network when in the DHCP mode.

- Manual Mode: It allows manual IP configuration.

Use the jog dial to set IP, Subnet Mask, and Gateway.

Press the Set button to save the settings.

Note: After changing the Mode or IP, the Dante module will restart, requiring a few seconds to resume operation.

- (2) Right Display: For the volume adjustment of Dante only.

M	e. Reset
E	f. Dante
N	g. Key Lock
U	h. Exit
1. Volume	
2. Network	
3. Return	
Dante Volume	
-10dB	
1. Volume	
2. Network	
3. Return	
MODE: DHCP IP: 192. 168. 1. 2 SUB: 225. 225. 225. 0 GW: 192. 168. 1. 1	
MODE: Manua l IP: 192. 168. 1. 2 SUB: 225. 225. 225. 0 GW: 192. 168. 1. 1	

### g. KeyLock: to set the keypad lock

- (1) rotate the rotary switch to “f. KeyLock” and press the rotary switch (or select SETUP) to enter into the setting screen.

- (2) Rotate the rotary switch to select “Lock ON”. After confirmation, select SETUP to save the setting; “Lock ON” can lock up the keypad of the receiver panel and prevent misoperation touch.

- Right side receiver can lock up: REMOSET, SETUP, rotary switch, EXIT and POWER.

- Left side receiver can lock up: REMOSET, SETUP, rotary switch and EXIT.

- (3) After KEYPAD LOCK, press any of the keypad the screen will show the Unlocked information.

- (4) Lock OFF: press SETUP for two seconds and enters directly into “KeyLock” setting screen. Rotate the rotary switch to select “Lock OFF” and press SETUP to save the keypad setting.

M	e. Reset
E	f. Dante
N	g. Key Lock
U	h. Exit
Setup KeyLock	
<input checked="" type="radio"/> Lock ON	
<input type="radio"/> Lock OFF	
Press Setup for 2 Sec. to unlock keypad	
Setup Key Lock	
<input type="radio"/> Lock On	
<input checked="" type="radio"/> Lock Off	

## 6-2 Handheld transmitter system operation setting // JSS-20

### 6-2-1 Power button

- Turn on the power
  - Power On: press POWER
  - Power Off: press POWER for approx 1 second till the screen displays "Power OFF."

Note: when pressing the POWER button, "Mute ON" or "Mute OFF"(in mute state) will first appear and then "Power OFF."

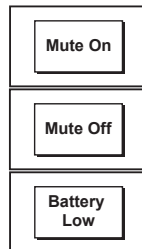
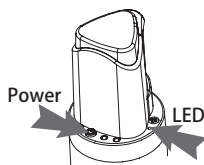
- Mute mode: when using the transmitter (screen at the main screen)

- To set mute status: short press power button and the screen will display "Mute ON."When it is in mute status, the power indicator light will flashing in red. The screen will go to mute screen.
- Mute OFF: short press power button and the screen will display "Mute OFF".

- Exist setting menu

- When it is in the setting menu: press Power button to go back to the main screen.
- When it is in the setting page of menu: press Power button to go back to the main setting menu, press again to go back to the main screen.

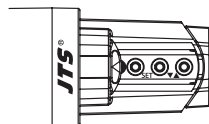
Note: When the battery level is too low, the screen will display "Battery Low." The transmitter will automatically shut down after 30 minutes (approximately).



### 6-2-2 Menu function setting:

Press SET and it will enter into menu function setting after two seconds.

- Press ▲/▼ Select the desired item. Press SET to enter into the pre-set option.
- After entering into the menu, press ▲/▼ to adjust the values. Press SET to save the setting.



#### 1. Frequency

- Press ▲/▼ to enter into "1. Frequency ". Press SET to enter into the setting screen.
- Adjust the left three digits of frequency.  
Press ▲/▼ . Use "+/-" with 1MHz as unit adjustment. After adjustment, press SET to change the right three digits of frequency.
- Adjustment of the right three digits of frequency: press ▲/▼ and use "+/-" with 0.025MHz as unit adjustment. After adjustment, press SET to save the setting.

1. Frequency
2. Group/Channel
3. Sensitivity
4. Low Cut
Frequency
624 .000 MHz
G: 1 CH: 1

#### 2. Group / Channel

- Press ▲/▼ to enter into "2. Group / Channel."Press SET to enter into the setting screen.
- After entering into the screen, press ▲/▼ to select desire group. Press SET for saving and change into the channel setting.
- Press ▲/▼ to select desire channel. Press SET to save the setting.

1. Frequency
2. Group/Channel
3. Sensitivity
4. Low Cut
Group/Channel
G: 1 C: 1
625.500 MHz

### 3. Sensitivity

- Press ▲/▼ to "3. Sensitivity." Press SET to enter into the setting screen.
- Press ▲/▼ to adjust the sensitivity. Use 1 dB as unit modification. After adjustment, press SET to save the setting; the range of sensitivity is -15dB~+15dB.

1. Frequency
2. Group/Channel
3. Sensitivity
4. Low Cut

Sensitivity
0 dB

### 4. Low Cut

- Press ▲/▼ to "4. Low Cut" Press SET to enter into the setting screen.
- Press ▲/▼ : Turn off /on the Low Cut function. After adjustment, press SET to save the setting.

1. Frequency
2. Group/Channel
3. Sensitivity
4. Low Cut

Low Cut	Low Cut
Off <input type="checkbox"/>	ON <input checked="" type="checkbox"/>

### 5. Device ID

- Press ▲/▼ to select "5. Device ID ." Press SET to enter into the setting screen.
- Press ▲/▼ to adjust the device ID. The range is from 0 ~ 255. After the adjustment, press SET to go to ID setting: On / Off (1. Press ▲:ON , The ID of the microphone and the ID of the receiver shall be the same as to use the REMOSET function. Press SET to save the setting.  
(2. Press ▼: OFF, Ignore the ID value. The microphone will receive all REMOSET information transmitted by "receivers with ID code". Press SET to save the setting.

5. Device ID
6. RemoSet
7. RF Power
8. Contrast

Device ID
0
ID : OFF

### 6. RemoSet

- Press ▲/▼ to select "6. RemoSet" function. Press SET to enter into the setting screen.
- Press ▲: to turn on and use REMOSET.  
Press ▼: to turn off and REMOSET function cannot be used. The microphone will be more power-saving when not using REMOSET function. Press SET to save the setting.

5. Device ID
6. RemoSet
7. RF Power
8. Contrast

RemoSet
<input type="radio"/> ON
<input type="radio"/> OFF

### 7. RF Power

- Press ▲/▼ to select "7. RF Power." Press SET to enter into the screen for RF Power setting.
- Press ▲: High RF Power. Press SET to save the setting.  
Press ▼: Low RF Power. Press SET to save the setting.

5. Device ID
6. RemoSet
7. RF Power
8. Contrast

RF Power
<input type="radio"/> High
<input type="radio"/> Low

Note: When it is in "High RF Power", the power consumption of the microphone is larger which would shorten the usage time of the battery.

### 8. Contrast

- (1) Press ▲/▼ to select "8. Contrast." Press SET to enter into the screen for contrast adjustment.
- (2) Press ▲/▼ to adjust the contrast. The higher the value, the darker the color; on the contrary, it would be lighter. There is a total of 0~20. Press SET to save the setting.

5. Device ID
6. Remoset
7. RF Power
8. Contrast
LCD Contrast
10

### 9. Light Time

- (1) Press ▲/▼ to select "9. Light Time." Press SET to enter into the setting screen.
- (2) Press ▲/▼ to select the backlight time: you can select "closed", "5~30 seconds"(having 5 seconds as the unit of change) or "constant light" . Press SET to save the setting.

Note:The longer the backlight time, the shorter the usage time of the battery.

9. Light Time
a. User Name
b. Reset
c. KeyLock
Light Time
10

#### a. User Name

- (1) Press ▲/▼ to select "a. User Name". Press SET to enter into "User Name" screen for the setting.
- (2) Press ▲/▼ to select the characters. After confirmation, press SET to select the next character. If no character is needed, select "space". After confirmation, press SET to save the setting; there is a total of 10 characters for setting.

9. Light Time
a. User Name
b. Reset
c. KeyLock
User Name
JSS-20
Char:1/10

Up to 10 characters are allowed  
Current character to be selected

#### c. Reset

- (1) Press ▲/▼ to "c. Reset" and select SET to enter the screen setting.
- (2) Press ▲: select CONFIRM to reset the internal information of the handheld transmitter. Press SET to save the setting.  
Press ▼: select Cancel to cancel the Reset setting. Press SET to save the setting.

a. User Name
c. Reset
d. KeyLock
e. Exit
This will erase all date from Mic Internal Storage.
Yes / No

#### d. KeyLock

- (1)press ▲/▼ to "d. Keylock" and press SET to enter into the setting screen.
- (2)Press ▲: ON, to lock up all the buttons and to prevent misoperation touch. Pressing SET for saving.
- (3) Unlock: When the main screen is displayed at the screen, press SET for two seconds to get directly into the Lock setting. Press ▼ to unlock and press SET to save the setting.

a. User Name
c. Reset
d. KeyLock
e. Exit
KeyLock
<input checked="" type="radio"/> ON
<input type="radio"/> OFF

#### e. Exit

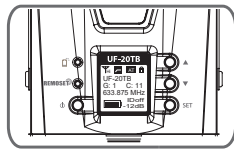
Press ▲/▼ to "e. Exit" and press SET to go back to the main screen.

a. User Name
c. Reset
d. KeyLock
e. Exit

## 6-3 Body-pack transmitter system operation setting // UF-20TB

### 6-3-1 To turn on UF-20TB body-pack transmitter

1. To turn on the power: press the Power button.
2. To turn off the power: press the Power button for a while.  
The screen will display "Power OFF" after approx. 2 seconds.  
The body-pack transmitter will be turned off.
3. To exit the function setting menu: when you are at the function setting menu, press Power button to go back to the main screen.



### 6-3-2 Function setting menu

Press SET for a while. After two seconds, it will go into the function setting menu.

1. Press ▲/▼ and select the desired item. Press SET to enter into the menu.
2. After entering into the menu, press ▲/▼ to adjust the values.  
Press SET to save the setting.

#### 1. Frequency: set the frequency

- (1) Press ▲/▼ to frequency setting. Press SET to enter into the frequency setting screen.
- (2) When entering into the frequency adjustment screen, adjust the first three digits of frequency at the left. Press ▲/▼ using "+/-" with 1MHz as the unit of modification. After adjustment, press SET to adjust the three frequency at the right.
- (3) Adjust the three digits of frequency at the right: Press ▲/▼ using "+/-" with 0.025MHz as the unit of modification. After the adjustment, press SET to save the setting.

Frequency
Group/Chan
Sensitivity
Attenuate
Low Cut
Frequency
624 .750
G: 1 C: 1

#### 2. Group/Channel

- (1) Press ▲/▼ to select "2. Group/Channel." Press SET to enter into the setting screen.
- (2) After entering into the screen, press ▲/▼ to select desire Group.  
Press SET for saving and change into the channel setting.
- (3) Press ▲/▼ to select desire channel. Press SET to save the setting.

Frequency
Group/Chan
Sensitivity
Attenuate
Low Cut
Group/Chan
G: 1
C: 1
624.750MHz

#### 3. Sensitivity

- (1) Press ▲/▼ to "Sensitivity." Press SET to enter into the "Sensitivity" setting screen.
- (2) Press ▲/▼ to adjust the sensitivity. Use 1 dB as unit of modification. After adjustment, press SET to save the setting; the range of sensitivity is -15dB~+15dB.

Frequency
Group/Chan
Sensitivity
Attenuate
Low Cut
Sensitivity
-3 dB

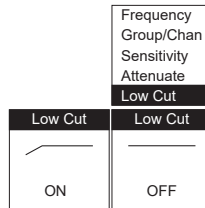
#### 4. Attenuate

- (1) Press ▲/▼ to enter into "Attenuate." Press SET to enter into the "Attenuate" setting screen.
- (2) Press ▲/▼ to turn on/off. After adjustment, press SET to save the setting.

Frequency
Group/Chan
Sensitivity
Attenuate
Low Cut
Attenuate
<input type="radio"/> ON
<input type="radio"/> OFF

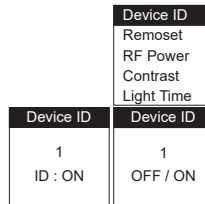
**5. Low Cut**

- (1) Press ▲/▼ to select“Low Cut.” Press SET to enter into the “Low Cut” setting screen.
- (2) Press ▲/▼ to turn on/off the Low Cut function. Press SET for setting.



**6. Device ID: to set the Device ID**

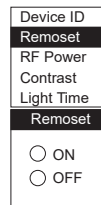
- (1) Press ▲/▼ to set the ID. Press SET to enter into “Device ID” setting screen.
- (2) Press ▲/▼ to adjust the pre-set ID value. The range is from 0 ~ 255. After the adjustment, press SET to go to ID setting: On / Off
  - ID: On → The ID of the microphone and the ID of the receiver shall be the same as to use the REMOSET function. Press SET for setting.
  - ID: OFF → Ignore the ID value. The microphone will receive all REMOSET information transmitted by“receivers with ID code.” Press SET for setting.



Note:This setting will affect the usage of REMOSET.

**7. RemoSet: to turn on/off the REMOSET**

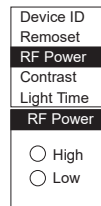
- (1) Press ▲/▼ to select REMOSET function. Press SET to enter into “RemoSet” setting screen.
- (2) Press ▲: to turn on and REMOSET function can be used.
- (3) Press ▼: to turn off. REMOSET function cannot be used. The microphone will be more power-saving. When not using REMOSET function, it can prolong the usage time of the battery when it is “OFF.” Press SET for setting.



**8. RF Power: setting of RF power**

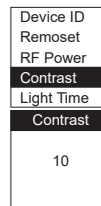
- (1) Press ▲/▼ to select RF power. Press SET to enter into “RF Power” screen for RF power setting.
- (2) Press ▲: HighRF power. Press SET to save the setting.
- (3) Press ▼: Low RF power. Press SET to save the setting.
 

Note: When It is in “High RF power”, the power consumption of the microphone is larger which would shorten the usage time of the battery.



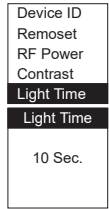
**9. Contrast: adjustment of screen contrast**

- (1) Press ▲/▼ to select“Contrast.” Press SET to enter “Contrast” screen for contrast adjustment.
- (2) Press ▲/▼ to adjust the contrast. The higher the value, the darker the color; on the contrary, it would be lighter. There is a total of 0~20, 21 level of adjustment. Press SET to save the setting.



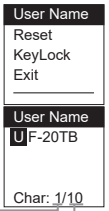
**10. Light Time: the setting of the backlight time**

- (1) Press ▲/▼ to select backlight time. Press SET to enter into "Light Time" screen.
- (2) Press ▲/▼ to select the backlight time; you can select "closed", "5~30 seconds"(having 5 seconds as the unit of change) or "constant light." Press SET to save the setting. The longer the backlight time, the shorter the usage time of the battery.



**11. User Name: the setting of the user's name**

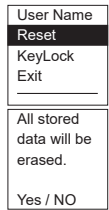
- (1) Press ▲/▼ to select user name. Press SET to enter into "User Name" screen for the setting of the user's name.
- (2) Press ▲/▼ to select the characters. After confirmation, press SET to select the next character. If no character is needed, select "space". After confirmation, press SET to save the setting; there is a total of 10 characters for setting.



Up to 10 characters are allowed  
 - Current character to be selected

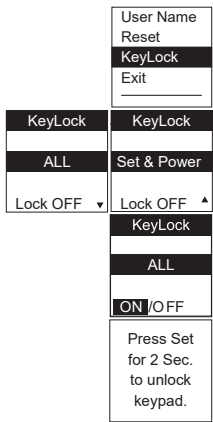
**12. Reset**

- (1) Press ▲/▼ to select reset. Press SET to enter into "Reset" screen.
- (2) Press ▲ to select confirm as to reset the internal information of the handheld transmitter. Press SET to save the setting. Press ▼ to select cancel as to cancel the reset setting. Press SET to save the setting.



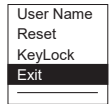
**13. KeyLock: setting of the keypad lock**

- (1) Press ▲/▼ to the keypad lock. Press SET to enter into "KeyLock" screen for keypad lock setting.
- (2) Press ▲/▼ to select lock "ALL", "Set & Power" only or lock "OFF".
  - ALL: All the buttons are locked as to prevent any misoperation touch (include Mute switch) Press SET to save the setting.
  - Set & Power: Only funtion buttons are locked, Mute switch will not be locked. Press SET to save the setting.
- (3) To unlock: press SET for two seconds and it will directly go into the key lock screen. Press ▼ to select OFF. Press SET to save the setting.



**14. Exit**

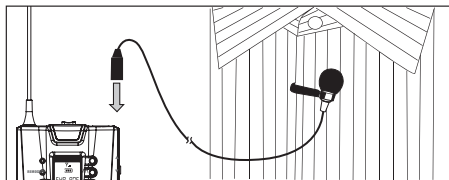
Press ▲/▼ to select exit setting. Press SET to go back to the main screen.



## 6-4 Installation of Condenser Microphones

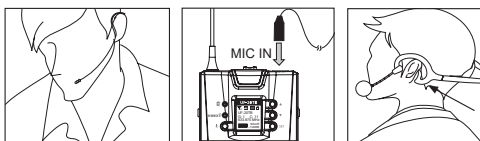
### 1. Lavalier microphone

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



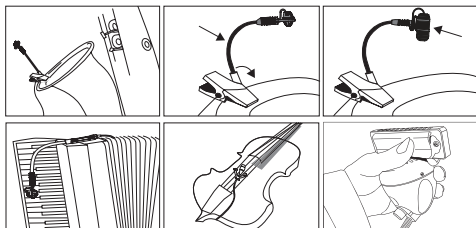
### 2. Headset microphone

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.



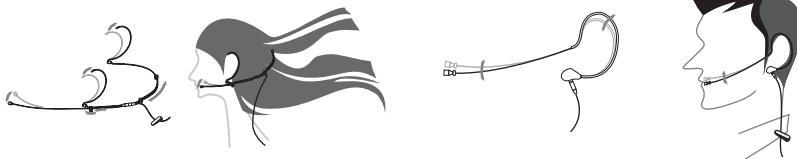
### 4. Ear-hook Microphone

#### (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

- To get the best signal performance, please keep at least 3 meters between a receiver and a transmitter.
- Keep a receiver and transmitter from other metal object for at least 50cm.
- To prevent feedback and whistle, please do not aim transmitter to speaker.
- It is suggested to hold the middle section of transmitter (microphone) body to achieve the best pickup effect.
- When transmitter is not used for a long time, please remove batteries from battery compartment to avoid leakage of electrolyte solution to damage transmitter.
- 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

- 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.
- 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](http://www.jts.com.tw)).
- 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.



UF-20DA/JSS-20/UF-20TB

UHF PLL 75MHz 寬頻純自動選訊系統  
UHF PLL 75MHz Professional Wideband  
True Diversity System



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