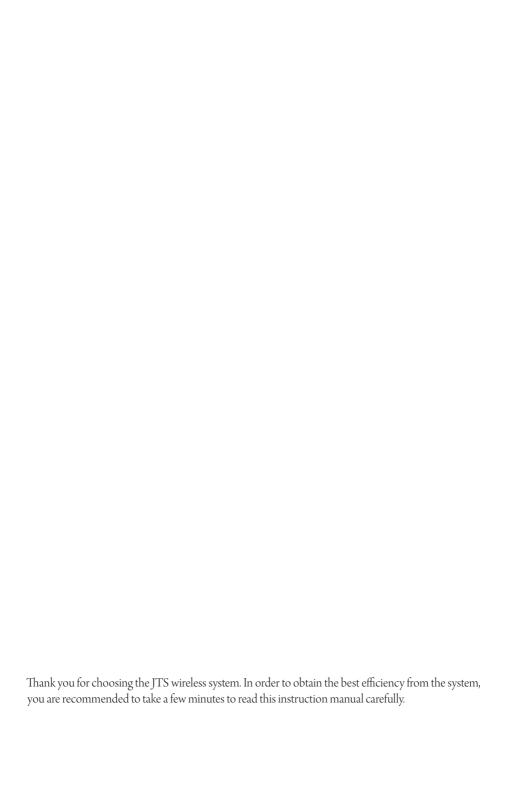


UHF PLL Dual Channel Diversity Wireless System

- * The system is of the innovative design to allow changing the transmitter's frequency by long-distance .
- * IN264R with band width of 36 MHz.
- * Preset 6 groups, maximum 23 channels in one group.
- * Operation distance from 200~480 meters.







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- Always makes all connections before plugging the unit into an AC power outlet.
- Do not leave the device in a place neither with high temperature nor high humidity.
- Always do not handle the power cord with wet hands!
- Keep the devices away from fire and heat sources.
- Pair the ID codes of the transmitter and the receiver to have proper function.

2. Features

JTS IN264 wireless microphone system is designed with the world first RF remote setting function (REMOSET). A user can set the receiver with desired frequency and press the "REMOSET" Key; then the transmitter will automatically be set. The operation distance can reach 10 meters. This brings great convenience to sound engineers during live performance.

IN 264 is of 36MHz bandwidth to render 23 transmitters work simultaneously. It provides great convenience to large venue.

A new capsule has been developed for IN264TH . The capsule, SAM-8W, is designed for large venue with hundreds of thousands watt power. The SAM-8W delivers vivid details of vocal and instruments.

The IN264 is of stylish industry design. Yet JTS bombproof quality remains as always.

3. Specification

3-1 UHF PLL Dual Channel Diversity Receiver // IN264R

Frequency Preparation..... PLL Synthesized Control Remoset....... Radio Frequency : 2.4GHz

Effective distance: 10m

Carrier Frequency Range 502~960 MHz

S/N Ratio..... >105dB

T.H.D.....< <0.6%@1KHz

Display..... LCD

Display Contents...... Channel, Antenna A/B, Mute Display, RF/AF Level Meter,

Low battery, ID Number

Remoset

Audio Output Level...... 0dB / -10dB / -20dB

AF Output Impedance...... 600Ω

3-2 UHF PLL Handheld Transmitter // IN264TH

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...... Channel, Battery Fuel Gauge, ID Number

Lock-on Mode,ID Pairing

Spurious Emissions...... <-50 dBC Audio Frequency Response 50~16,000 Hz Battery...... UM3, AA 1.5V*2





3-3 UHF PLL Body-Pack Transmitter // IN264TB

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...... Channel, Battery Fuel Gauge, ID Number

Controls......Power On/Off, AF Level,

Frequency Up/Down, PAD, Gain Control,

ID Pairing, Lock-on Mode

3-4 Optional Condenser Microphone

Lavaliere Microphone

Model No	CM-501	CM-201	CM-125
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	$2.2k\Omega$	$2.2k\Omega$	$4.4k\Omega$
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 NoConnector		CM-214U 4P Mini XLR	CM-214UL 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		801CR
Frequency Response		30~18,000 Hz	100 ~ 18,000Hz
Polar Pattern		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)	205mm(W)	125mm(W)
	* 134mm(H)	* 134mm(H)	* 134mm(H)
	* 157mm(D)	* 157mm(D)	* 157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

Model No	CM-235	CX-504
Connector	801C4 (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	$1.8k\Omega$	680Ω
Max. SPL for 1% THD	130dB	130dB
Dimension(mm)	155mm(W)	285mm(W)
	* 134mm(H)	* 55mm(H)
	* 157mm(D)	* 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)	801C3 (3P Mini XLR)
•	801CS (3.5 stereo plug)	801CS (3.5 stereo plug)
	801CR	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	1.8 k Ω	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	1.5 k Ω	1.5 k Ω	600Ω
Max. SPL for 1% THD	130 dB	130 dB	148 dB
Good For	Violin	Flutes	Harmonica

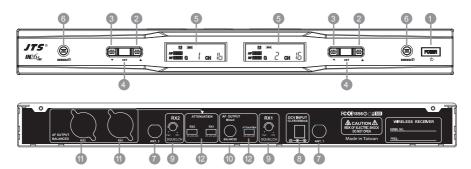
Model No	CX-508W	CX-516W
Connector	4P Mini XLR	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-67±3 dB	-67±3 dB
Impedance	220Ω	220Ω
Max. SPL for 1% THD	130 dB	130 dB
Good For	Winds	Accordion

4. Parts Identification & Accessories

4-1 UHF PLL Dual Channel Diversity Receiver // IN264R

Front panel

- Power Switch
- ② Channel Select: ▲ Up button
- 3 Channel Select: ▼ Down button
- 4 Channel Select: Set button
- **5** LCD Panel
- 6 REMOSET Key: press it to send a desired channel data to a transmitter



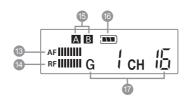
Rear panel

- BNC antenna connector
- 8 Power Supply Jack (12-18V/600mA): for connecting the power supply unit
- Squelch adjuster: to adjust radio signal level of both channels
- Mixed AF Output (6.3mm jack, balanced): for connection to a balanced input, e.g. of a mixer or amplifier
- Balanced XLR Output: for connection to the balanced input, e.g. of a mixer or an amplifier
- Output Level Attenuation(-10dB,-20dB): to attenuate the balanced XLR output level by 10dB,20dB

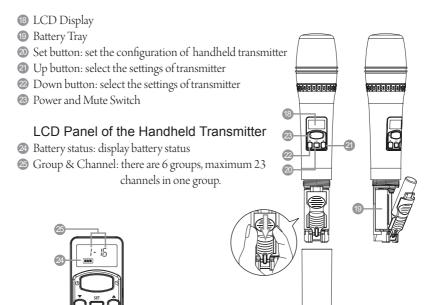


LCD Panel of the Receiver

- (3) AF Level: display the strength of audio signal
- 4 RF Level: display the strength of radio signal
- (5) Antenna Status: the receiver will automatically select an antenna with stronger signal level
- 16 Low battery indicator: display the low battery status of its transmitter
- Group & Channel: there are 6 groups, maximum 23 channels in one group.



4-2 UHF PLL Handheld Transmitter // IN264TH

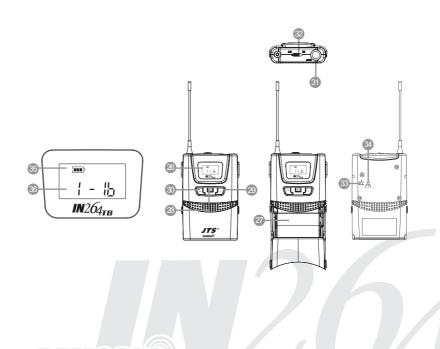


4-3 UHF PLL Body-Pack Transmitter // IN264TB

- 28 LCD Display
- Battery Tray
- Set button: set the configuration of bodypack transmitter
- Op button: select the settings of transmitter
- 30 Down button: select the settings of transmitter
- 3 4 Pin mini XLR mic. input
- 2 Power Switch
- 33 Gain control: control sensitivity of the transmitter
- 3 Pad: -20dB, -6dB, 0dB

LCD Panel of the Body-Pack Transmitter

- 35 Battery status: display battery status
- 3 Group & Channel: there are 6 groups, maximum 23 channels in one group.





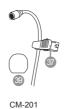
4-4 Optional Condenser Microphone

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

- 37 Clip
- 3 4 Pin Mini XLR
- 39 Windscreen





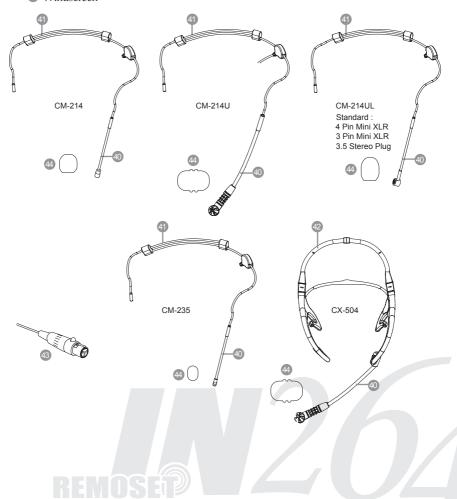




CM-125

Headset Microphone // CM-214 / CM-214U / CM-214UL / CM-235 / CX-504

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



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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 61 4 Pin Mini XLR 52 3 Pin Mini XLR Option 3.5 Stereo Plug Option 54 4Pin Hirose connecter Option CM-804i CM-8015

50()

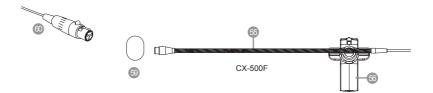
CM-825i

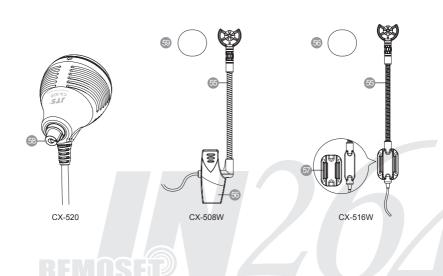
Compatible Instrument Microphone // CX-500 / CX-500F / CX-520 / CX-508W / CX-516W



- 66 Clip
- Bracket
- **8** Volume Control
- 69 Windscreen
- @ 4 Pin Mini XLR



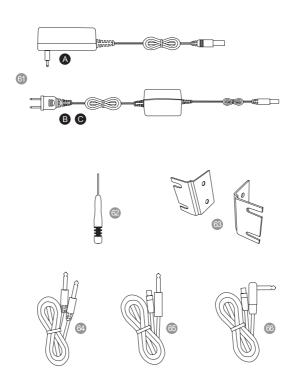






4-5 Accessories

- 61 AC/DC adaptor
 - A Switching Power Supply (100V~240V, 50~60Hz)
 - B Linear Power Supply (220V, 50Hz) Option
 - © Linear Power Supply (220V, 60Hz) Option
- Screwdriver
- @ AF output cable (with Ø6.3 plug at both ends)
- 65 GC-80/GC-100 Guitar Cable Option
- 66 GC-80L/GC-100L Guitar Cable Option



5. Connection

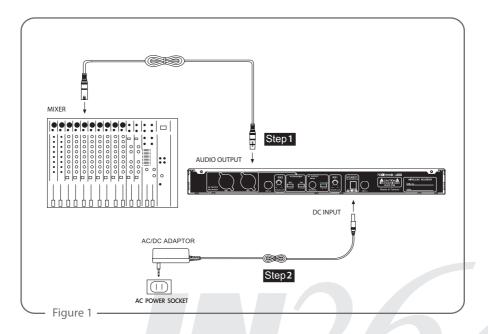
5-1 Receiver // IN264R

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

 Connect one end of a proper AF cable to the AF Output ① or Balanced XLR Output socket
 ①, then plug another end to the "MIC IN" input socket of a mixer or a amplifier (Step 1 for Figure 1)
- (2) Connect the power supply unit
 Plug in one end of AC/DC adaptor cable ② to Power Supply Jack ③ in the rear panel of receiver, and plug another end into an AC outlet
 (Step 2 for Figure 1)

Caution

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





6-1 Set up the system

- (1) Turn on the power of the receiver Switch the "Power Switch" to "ON". The "LCD Panel" and "REMOSET" Key will light up.
- (2) Turn on the power of the transmitter

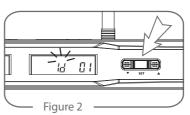
 Press the "Power Switch" 23 22 . The "LCD Display" (8 23 will light up.
- (3) Mute Function (for IN264TH) After the transmitter's power is on, short pressing the "Power Switch" will mute the microphone. Press the "Power Switch" again will re-activate the microphone. Notice: You have to hold the "Power Switch" for 3 seconds in order to turn off the transmitter.
- (4) Install the antennas in a vertical position

6-2 Set up ID code

In order to match one receiver to only one transmitter, IN264 is designed with "ID code". If and only if both ID codes of a receiver and a transmitter match each other, the "REMOSET" function works. There are 100 ID codes available.

Receiver

- (1) Press "Set" button 4 for 3 seconds, LCD Panel will start flashing.
- (2) Press "Set" twice to enter "ID Code" setting window. (Figure 2)
- (3) Press "▲Up②" or "▼ Down③" button to select a distinct ID code from "id 0" to "id 99"
- (4) After setting, press "Set" again to save the settings.



Handheld and BodyPack transmitter ID code ON/OFF setting

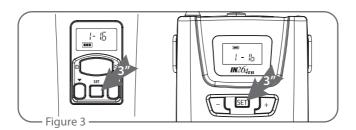
- (1) Press "Set" button @ 23 for 3 seconds, LCD Panel will start flashing.
- (2) Press "Set" a couple of times until "ID Code ON/OFF" setting window shows.
- (3) Press" ▲Up ② ② " or "▼Down ② ③ "button to select between "ID ON " and "ID OFF ".
- (4) After setting, press "Set" again to save the settings.

Caution

When ID code is off (idOFF), the transmitter will accept any synchronization from any receiver.

ID code selecting

- (1) Press "Set" button 20 20 for 3 seconds, LCD Panel will start flashing.
- (2) Press "Set" a couple of times until "ID Code" setting window shows.
- (3) Press" ▲Up ② ② " or " ▼Down ② ③ "button to select a distinct ID code from "id 0" to "id 99 ". (Figure 3)
- (4) After setting, press "Set" again to save the settings.

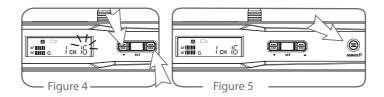




6-3 Synchronize the channel

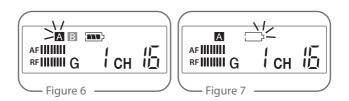
- (1) Press "Set" button 4 fon the receiver for 3 Seconds, the group (G) in the "Group & Channel" area will flash. (Figure 4)
- (2) Press "▲Up②" or "▼Down③" button to select a desired group
- (3) Press "Set" again and the Channel (CH) in the "Group & Channel" area will flash.
- (4) Press "▲Up" or "▼Down" button to select a desired channel.
- (5) After setting, press "Set" again to save the settings.
- (6) Press "REMOSET" (a) to synchronize the channel of a transmitter. (Figure 5)
- (7) If the channel of the transmitter fails to change, the "REMOSET" key will keep flashing.
- Notice 1: The transmitter has to be set to "synchronization on (SYnOn)" in order to allow the receiver to synchronize.(Handheld and body Pack Setting List p.17)

Notice 2: When setting the channel, system will automatically avoid the channel used by the other channel.



6-4 Check system status

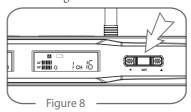
- (1) Antenna Status: the receiver will automatically select an antenna with stronger signal reception and highlight that antenna (5) (Figure 6)
- (2) Battery indicator: the receiver's battery indicator will show the same gauge as the transmitters. If the transmitter is under low battery status, the receiver LCD backlight will be on amber.



6-5 Manual select channel

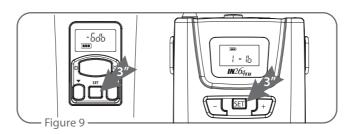
Receiver

- (1) Press"Set" button 4 for 3 seconds, the group (G) in the "Group & Channel" area will flash. (Figure 8)
- (2) Press "▲Up②" or "▼Down③" button to select a desired group.
- (3) Press "Set" again and the Channel (CH) in the "Group & Channel" area will flash.
- (4) Press "▲ Up" or "▼Down" button to select a desired channel.
- (5) After setting, press "Set" again to save the setting.



Handheld and BodyPack transmitter

- (1) Press"Set" button 20 28 button for 3 seconds, the group (G) will flash. (Figure 9)
- (2) Presss" ▲Up ② ③ " or "▼Down ② ③ "button to select a desired group.
- (3) Press "Set" again and the Channel (CH) will flash.
- (4) Press " \blacktriangle Up" or " \blacktriangledown Down" button to select a desired channel.
- (5) After setting, press "Set" again to save the setting.



18



6-6 Lock ON Function

Receiver

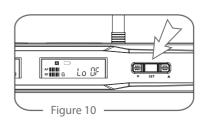
- (1) Press "Set" button 4 for 3 seconds to enter setting window
- (2) Press "Set" again until the Lock setting window shows. (Figure 10)

Notice: Original setting is lock off (Lo OF).

- (3) Press "▲Up ②" or "▼Down ③" button to select the mode between "Lock On" and "Lock off".
- (4) After setting, press "Set" again to save the setting.

To release the "Lock ON"

- (1) Press "Set" button 4 for 2 seconds.
- (2) Press" ▼Down ③" to select "Lock OFF".
- (3) Press "Set" to store.



Handheld and BodyPack transmitter

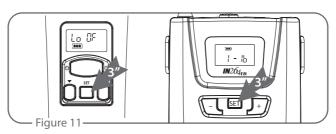
- (1) Press "Set" button @ 29 for 3 seconds to enter setting window. (Figure 11)
- (2) Press "Set" again until the Lock setting window shows.

Notice: Original setting is lock off (Lo OF).

- (3) Press ▲ Up ❷ ❷ " or " ▼ Down ❷ ③ "button to select the mode between "Lock On" and "Lock off".
- (4) After setting, press "Set" again to save the setting.

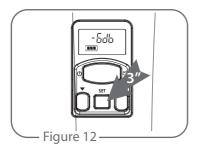
To release the "Lock ON"

- (1) Press "Set" button 4 for 2 seconds.
- (2) Press" ▼Down ③" to select "Lock OFF".
- (3) Press "Set" to store.



6-7 Adjust the sensitivity of the microphone Handheld transmitter

- (1) Press "Set" button 20 28 for 3 seconds to enter setting window. (Figure 12)
- (2) Short press "Set" until the sensitivity setting window shows.
- (3) Press "▲Up② ③" or "▼Down② ③" button to select the sensitivity among 12db, 9db, 6db, 3db, 0db, -3db, -6db, -9db, -12db, -15db, -18db.
- (4) After setting, press "Set" again to save the setting.



6-8 Adjust the transmitting power Handheld/Body Pack Transmitter

- (1) Push the "Set" button 22 28 several times until the "rF Lo" or "rF Hi" flashes.
- (2) Then push "▲ Up ② ②" to choose "Hi" for high transmitting power and push "▼ Down ② ③ "to choose "Lo" for low transmitting power.
- (3) Selectable transmission power betwem 10mW & 50mW.
- (4) Push the "Set" again to save the setting.

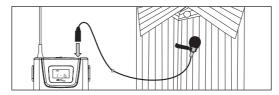


		- Handheld and Body Pack Setting List
Sensitivity Settings	(2db 9db 6db 3db -3db -5db -12db - (5db -18db	12dB is the highest sensitivity
Synchronization ON/OFF	54nOn 54nOFF	"On" means "REMOSET" function always opens; "OFF" means "REMOSET" function is turned off
ID code ON/OFF	, dOFF , don	When ID code is OFF (id OFF), the transmitter will accept any synchronization from any IN264R.
ID code select	,d 0 ~ ,d 99	There are 100 ID codes.
Lock ON	LocOFF LocOn	button unlock button lock

6-9 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.

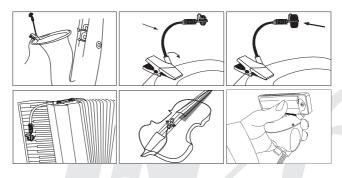






(3) Instrument Microphones

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





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(4) Ear-hook Microphone

1. Lightweight Dual Ear Hook Microphone

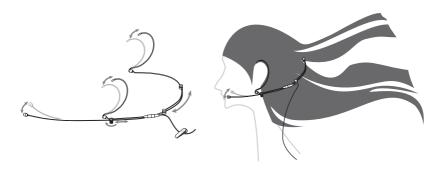
Try on whether the headset is fit.

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.



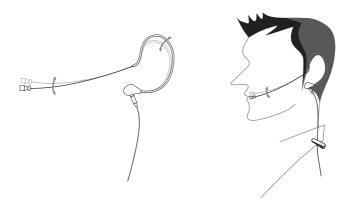
2. Lightweight Single Ear Hook Microphone

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. Recommendation

- (1) In order to achieve the optimum reception condition and also extend the operating distance, please leave a "open space" between the receiver and transmitter.
- (2) Keep the devices away from the metal objects or any interference sources, at least 50 cm.
- (3) To avoid the feed-back effect, don't leave the mic. to aim at the speakers directly.
- (4) For best pick-up pattern, please hold the middle of the mic. body.
- (5) Remove batteries from the battery compartment when the transmitter will not be used for a long time.
- (6) When you need to replace the batteries, please replace both batteries at the same time with new ones.

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.

