

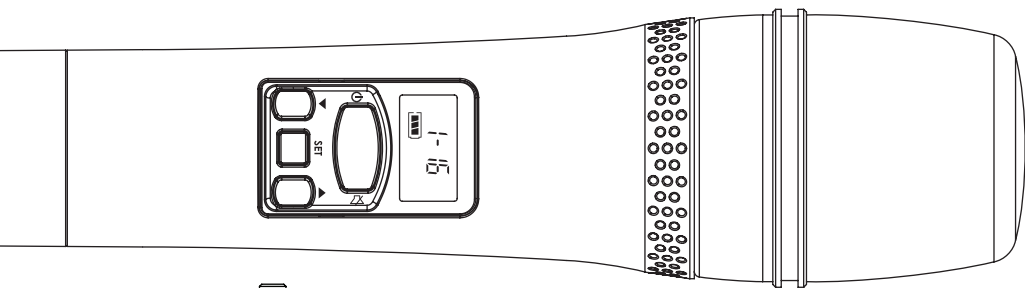
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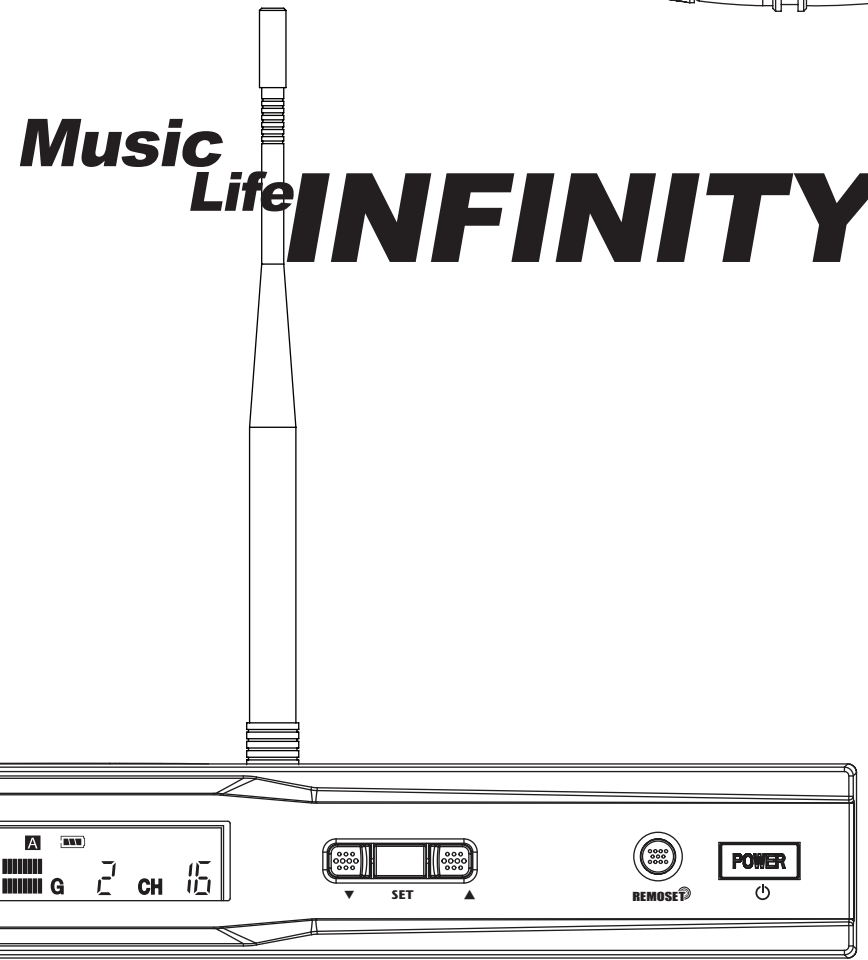
FC CE 1856



59508-021-05



Music
Life **INFINITY**



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.

IN264
REMOSET®

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

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1. Important Caution

- 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 (REMASET). A user can set the receiver with desired frequency and press the “REMASET” 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.

IN264 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.

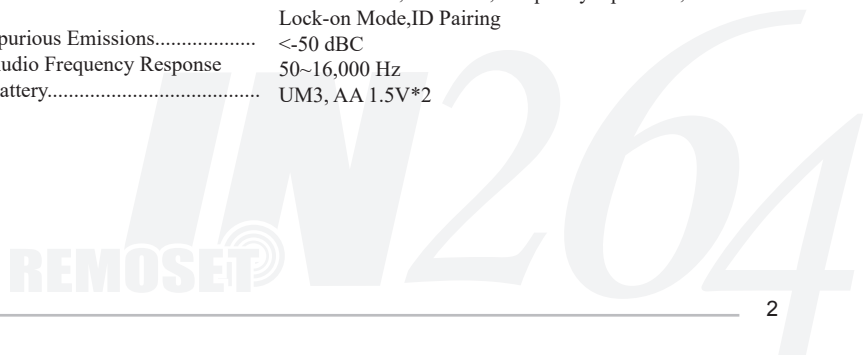
3. Specification

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
Controls.....	Power On/Off, Frequency Up/Down, Lock-on, ID Pairing, Remoset
Audio Output Level.....	0dB / -10dB / -20dB
AF Output Impedance.....	600Ω
Squelch.....	Pilot Tone & Noise Mute
Operation Voltage.....	12-18 VDC, 600 mA
Output Connector.....	2 XLR Balanced Sockets / 1 Ø6.3mm balanced phone jack
Dimension(m/m).....	420mm(W) * 44mm(H) * 211mm(D)

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
Controls.....	Power On/Off, AF Level, Frequency Up/Down, Lock-on Mode, ID Pairing
Spurious Emissions.....	<-50 dBC
Audio Frequency Response	50~16,000 Hz
Battery.....	UM3, AA 1.5V*2



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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
Input connector.....	4P mini XLR
Spurious Emissions.....	<-50 dBC
Audio Frequency Response	40~18,000 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) * 26.4mm(H)	Ø5mm(W) * 9mm(H)	Ø4mm(W) * 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)	4P Mini XLR	801C3 (3P Mini XLR) 801C4 (4P Mini XLR) 801CS (3.5 stereo plug) 801CR
Option Connector.....	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 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
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

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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.....	1.8kΩ	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

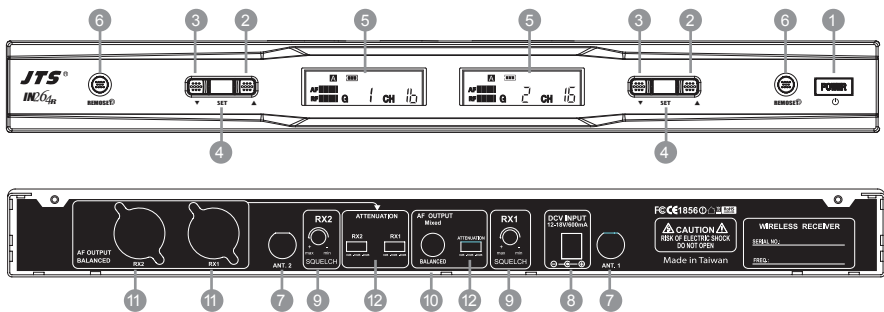
Model No.....	CX-508W	CX-516W
Connector.....	4P Mini XLR	4P Mini XLR
Frequency Response.....	50~18,000 Hz	30~18,000 Hz
Polar Pattern.....	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-67±3 dB	-67±3 dB
Impedance.....	220Ω	220Ω
Max. SPL for 1% THD	130 dB	130 dB
Good For.....	Winds	Accordion

4. Parts Identification & Accessories

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

Front panel

- 1 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



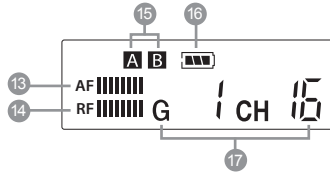
Rear panel

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

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LCD Panel of the Receiver

- 13 AF Level: display the strength of audio signal
- 14 RF Level: display the strength of radio signal
- 15 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
- 17 Group & Channel: there are 6 groups, maximum 23 channels in one group.

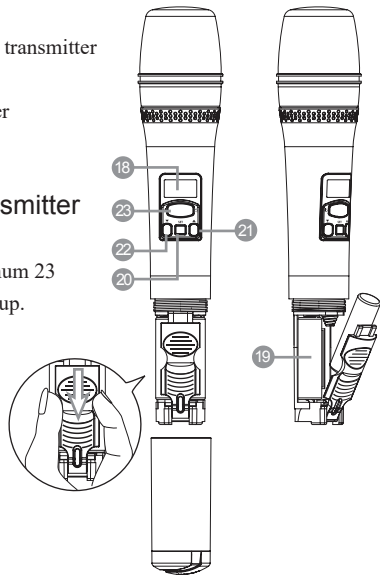
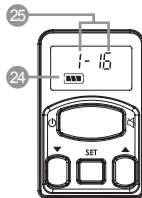


4-2 UHF PLL Handheld Transmitter // IN264TH

- 18 LCD Display
- 19 Battery Tray
- 20 Set button: set the configuration of handheld transmitter
- 21 Up button: select the settings of transmitter
- 22 Down button: select the settings of transmitter
- 23 Power and Mute Switch

LCD Panel of the Handheld Transmitter

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

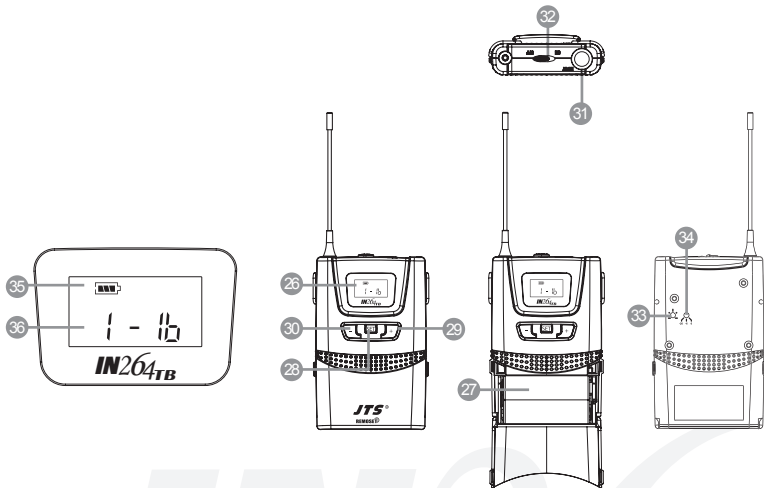


4-3 UHF PLL Body-Pack Transmitter // IN264TB

- ②6 LCD Display
- ②7 Battery Tray
- ②8 Set button: set the configuration of bodypack transmitter
- ②9 Up button: select the settings of transmitter
- ③0 Down button: select the settings of transmitter
- ③1 4 Pin mini XLR mic. input
- ③2 Power Switch
- ③3 Gain control: control sensitivity of the transmitter
- ③4 Pad: -20dB, -6dB, 0dB

LCD Panel of the Body-Pack Transmitter

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



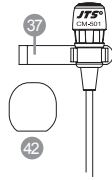
REMOSET **IN264**

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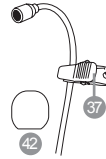
4-4 Optional Condenser Microphone

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

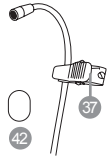
- 37 Clip
- 38 4 Pin Mini XLR
- 39 3 Pin Mini XLR **Option**
- 40 3.5 Stereo Plug **Option**
- 41 4Pin Hirose connector **Option**
- 42 Windscreen



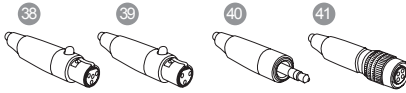
CM-501



CM-201i

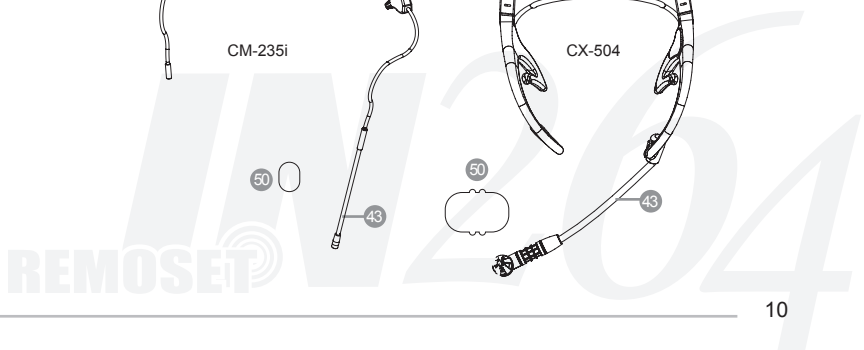
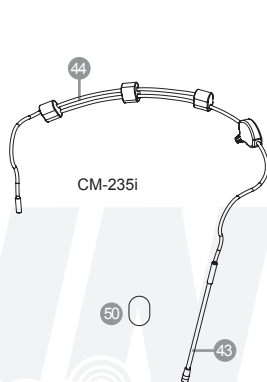
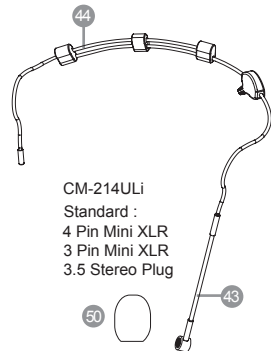
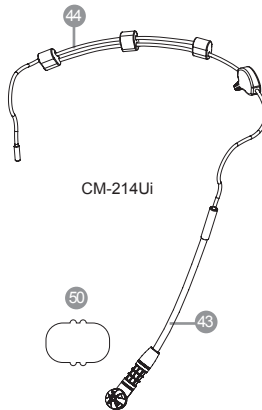
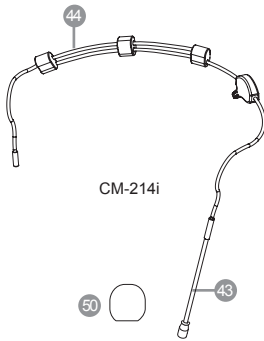
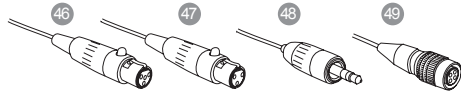


CM-125i



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

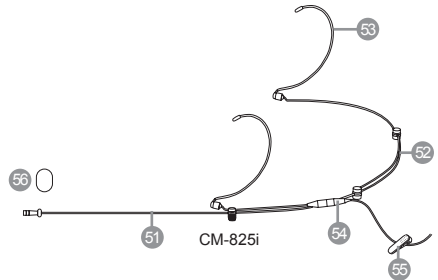
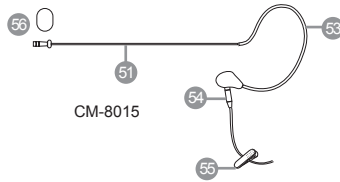
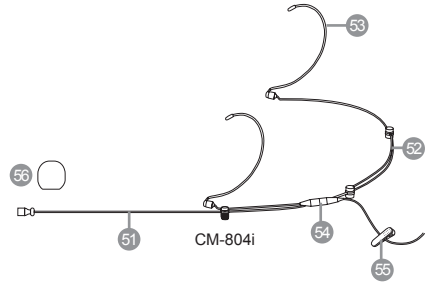
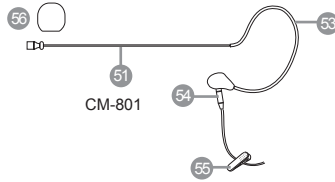
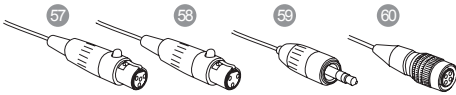
- 43 Gooseneck
- 44 Adjustable headband
- 45 Headband
- 46 4 Pin Mini XLR
- 47 3 Pin Mini XLR Option
- 48 3.5 Stereo Plug Option
- 49 4Pin Hirose connector Option
- 50 Windscreen



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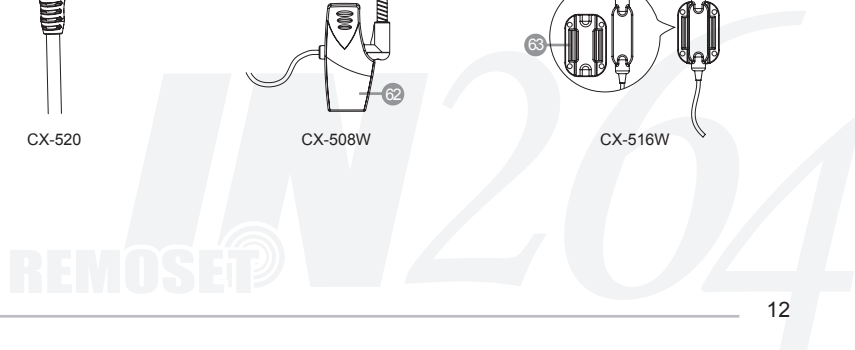
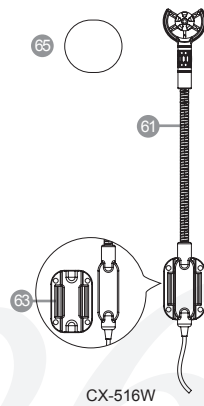
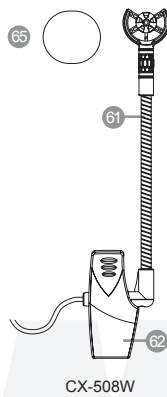
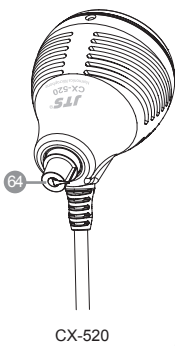
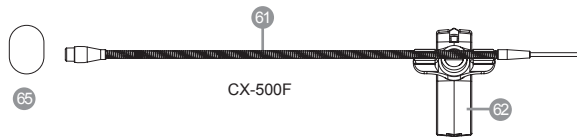
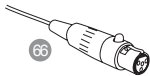
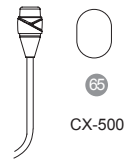
Ear-hook Microphone // CM-801 / CM-804i / CM-8015 / CM-825i

- 51 Boom
- 52 Adjustable Headband
- 53 Adjustable ear hook
- 54 Detachable Cable
- 55 Cable Clip
- 56 Windscreen
- 57 4 Pin Mini XLR
- 58 3 Pin Mini XLR **Option**
- 59 3.5 Stereo Plug **Option**
- 60 4Pin Hirose connector **Option**



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

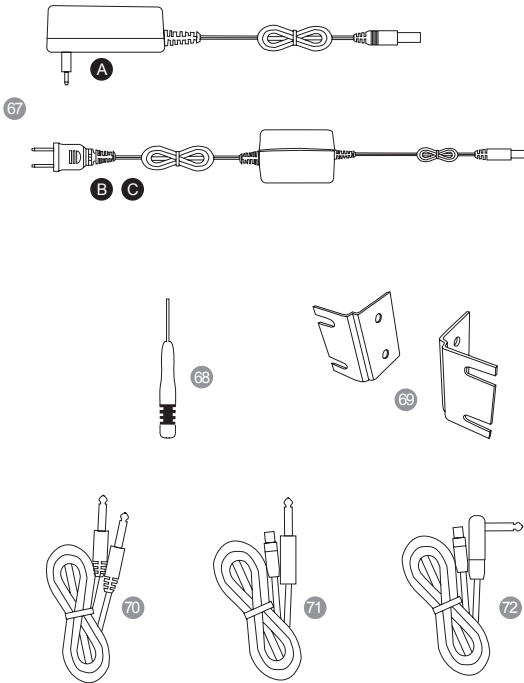
- 61 Gooseneck
- 62 Clip
- 63 Bracket
- 64 Volume Control
- 65 Windscreen
- 66 4 Pin Mini XLR



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4-5 Accessories

- 67 AC/DC adaptor
 - A Switching Power Supply(100V~240V , 50~60Hz)
 - B Linear Power Supply (220V , 50Hz) **Option**
 - C Linear Power Supply (220V , 60Hz) **Option**
- 68 Screwdriver
- 69 RM-12 Rack mount kit
- 70 AF output cable (with Ø6.3 plug at both ends)
- 71 GC-80/GC-100 Guitar Cable **Option**
- 72 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 ⑩ or Balanced XLR Output socket ⑪, 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 ⑥7 to Power Supply Jack ⑧ 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 .

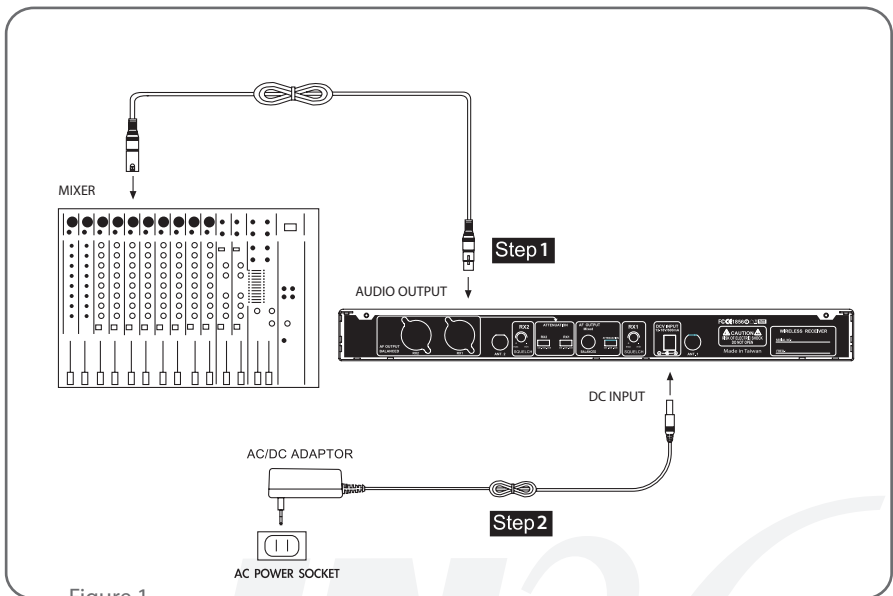


Figure 1

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6. Operation

6-1 Set up the system

- (1) Turn on the power of the receiver
Switch the “Power Switch” ① to “ON”. The “LCD Panel” ⑤ and “REMASET” Key ⑥ will light up.
- (2) Turn on the power of the transmitter
Press the “Power Switch” ⑳㉓㉔. The “LCD Display” ㉒㉔ 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 “REMASET” 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 “ ▲ Up ② ” or “ ▼ Down ③ ” button to select a distinct ID code from “id 0” to “id 99”
- (4) After setting, press “Set” again to save the settings.

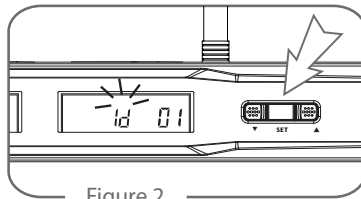


Figure 2

Handheld and BodyPack transmitter ID code ON/OFF setting

- (1) Press “Set” button (20) (28) 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 (21) (29) ” or “ ▼Down (22) (30) ”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) (28) for 3 seconds, LCD Panel will start flashing.
- (2) Press “Set” a couple of times until “ID Code” setting window shows.
- (3) Press“ ▲Up (21) (29) ” or “ ▼Down (22) (30) ”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.

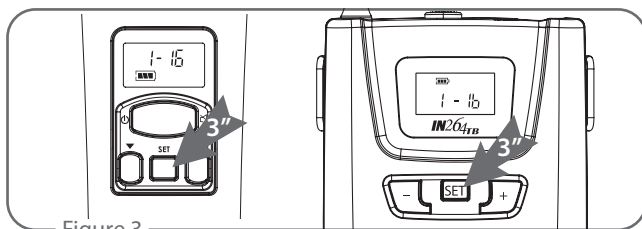


Figure 3

6-3 Synchronize the channel

- (1) Press “Set” button ④ for the receiver for 3 Seconds, the group (G) in the “Group & Channel” area ⑰ will flash. (Figure 4)
 - (2) Press “▲Up ②” or “▼Down ③” 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” ⑥ 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.

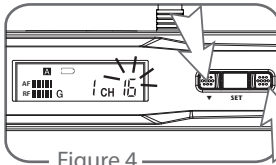


Figure 4

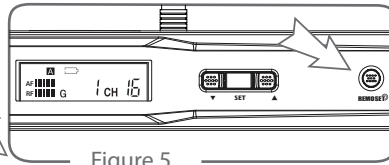


Figure 5

6-4 Check system status

- (1) Antenna Status: the receiver will automatically select an antenna with stronger signal reception and highlight that antenna ⑮ (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.

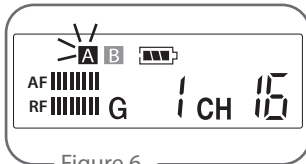


Figure 6

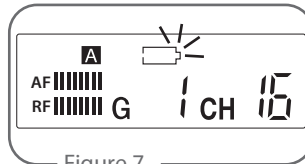


Figure 7

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 “▲ Up ②” or “▼ Down ③” 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.

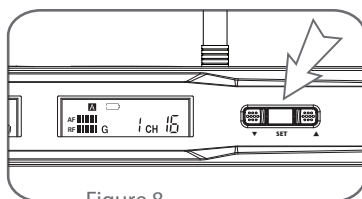


Figure 8

Handheld and BodyPack transmitter

- (1) Press “Set” button ②③ button for 3 seconds, the group (G) will flash. (Figure 9)
- (2) Press “▲ Up ①②” or “▼ Down ②③” button to select a desired group.
- (3) Press “Set” again and the Channel (CH) will flash.
- (4) Press “▲ Up” or “▼ Down” button to select a desired channel.
- (5) After setting, press “Set” again to save the setting.

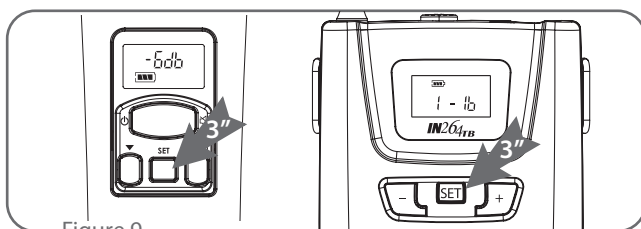


Figure 9

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.

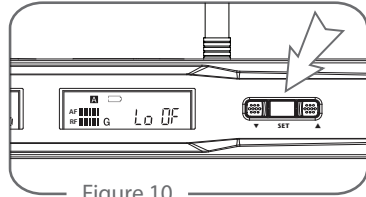


Figure 10

Handheld and BodyPack transmitter

- (1) Press “Set” button ⑳㉓ 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 ㉑㉔ ” or “ ▼Down ㉒㉕ ”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.

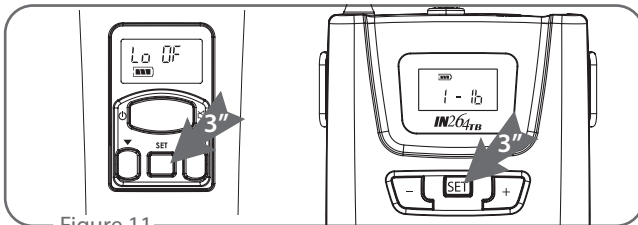


Figure 11

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 “▲ Up (21 29)” or “▼ Down (22 30)” 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.

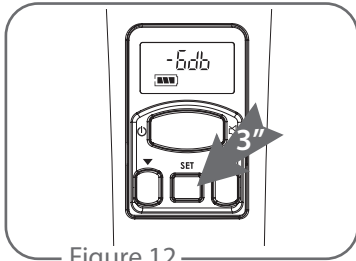


Figure 12

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

- (1) Push the “Set” button (20 28) several times until the “rF Lo” or “rF Hi” flashes.
- (2) Then push “▲ Up (21 29)” to choose “Hi” for high transmitting power and push “▼ Down (22 30)” to choose “Lo” for low transmitting power.
- (3) Selectable transmission power between 10mW & 50mW.
- (4) Push the “Set” again to save the setting.

Music Life INFINITY

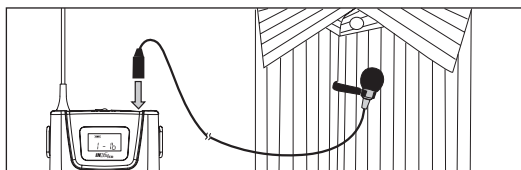
Handheld and Body Pack Setting List

Sensitivity Settings	12db 9db 6db 3db 0db -3db -6db -9db -12db -15db -18db	12dB is the highest sensitivity
Synchronization ON/OFF	SynOn SynOFF	"On" means "REMOSET" function always opens; "OFF" means "REMOSET" function is turned off
ID code ON/OFF	idOFF idOn	When ID code is OFF (id OFF), the transmitter will accept any synchronization from any IN264R.
ID code select	id 0 ~ id 99	There are 100 ID codes.
Lock ON	LocOFF LocOn	button unlock button lock

6-9 Installation of Condenser Microphones

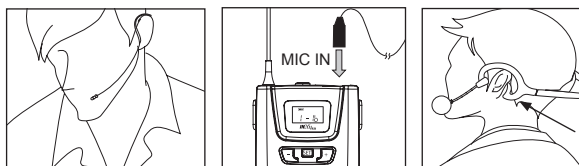
(1) Lavalier microphone

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.



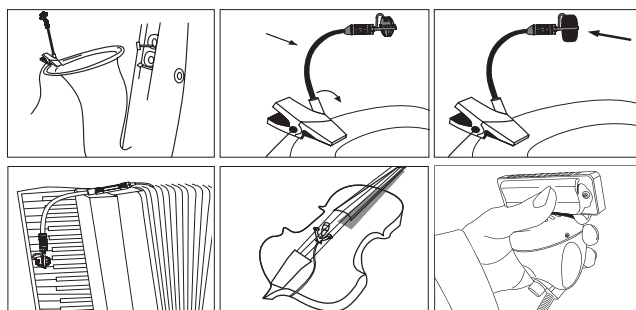
(2) Headset microphone

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

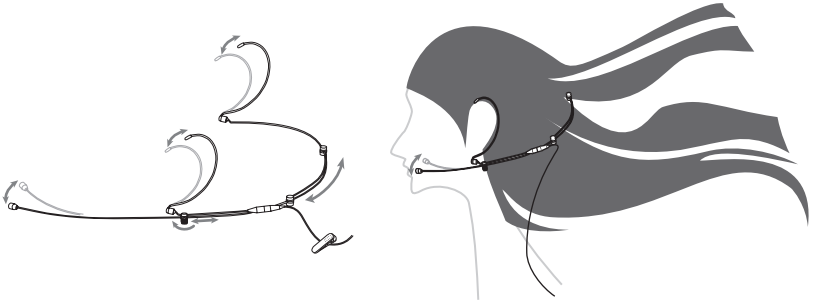
Try on whether the headset is fit.

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.



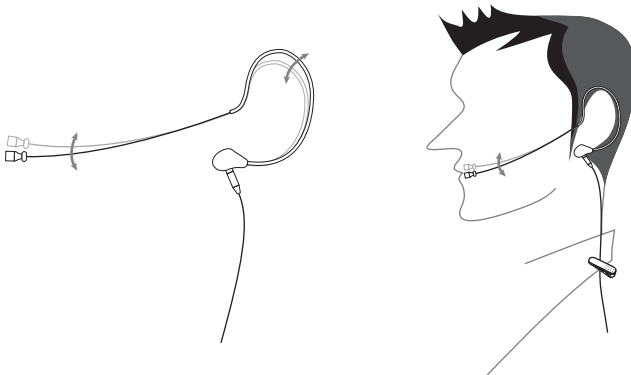
2. Lightweight Single Ear Hook Microphone

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. 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.