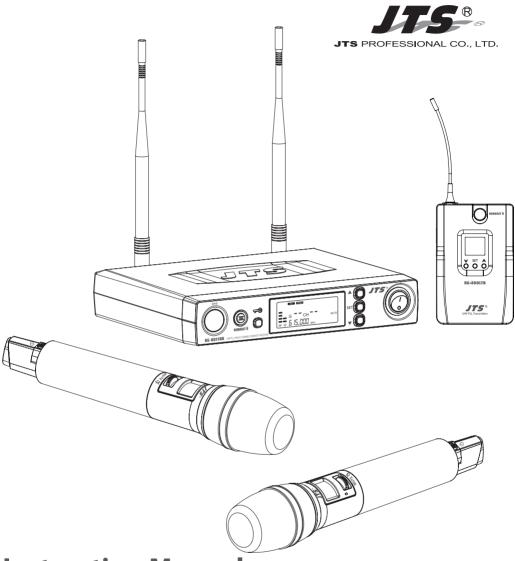




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Instruction Manual

 $\widetilde{\Gamma}$

DHEPLE Rữ-8011(D) DB / Rữ-8012 DB Rữ-850(L)TH / Rữ-850(L)TB

With JTS **REMOSET Ũ** Ultrasonic Synchronizing Technology

One year product warranty

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

Warranty description

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

Table of Contents

1. Notes for system operations	1
2. Features	1
3. Specifications 3-1 UHF PLL single/dual-channel diversity receiver 3-2 UHF PLL hand-held transmitter	2 2 4
3-3 UHF PLL body-pack transmitter 3-4 Optional condenser microphone	5 6
 4. Description of parts 4-1 UHF PLL single-channel diversity receiver // Rũ-8011D 4-2 UHF PLL single-channel diversity receiver // Rũ-8012DB 4-3 UHF PLL dual-channel diversity receiver // Rũ-8012DB 4-4 UHF PLL hand-held transmitter // Rũ-850TH 4-5 UHF PLL hand-held transmitter // Rũ-850TH 4-6 UHF PLL body-pack transmitter // Rũ-850TB 4-7 UHF PLL body-pack transmitter // Rũ-850TB 4-8 Accessories 4-9 Optional Condenser Microphone 	8 8 10 12 14 15 16 17 18 18
5. Connecting 5-1 How to connect the receiver 5-2 Transmitter installation // Rữ-850TH/Rữ-850LTH/Rữ-850TB/Rữ-850LTB	21 21 23
6-1 How to use // RŨ-8011D 6-2 How to use // RŨ-8011DB 6-3 How to use // RŨ-8012DB 6-4 How to use // RŨ-850TH / RŨ-850TB	24 24 27 30 33 34
7. Notes for the product	36

1. Notes for system operations

- Before connecting the power, check that the power requirement shown on the unit is the same as the power output on the adaptor supplied.
- Do not leave the unit at where the humidity and temperature are high.
- Dry your hands before operating the system.
- Keep the unit away from fire and heat source.
- Turn the volume to minimum at both the mixer and amplifier before setting up the system.

2. Features

- 6 groups are provided as default. Every group contains up to 22 default channels.
- There are in total 1,440 channels to choose from.
- 36MHz bandwidth.
- The patented **REMOSET** i ultrasonic pairing for synchronized setting of all parameters
- Channel scan
- Adjustable receiving sensitivity
- Digital volume control
- Automatic microphone power off

3. Specifications

3-1 UHF PLL single/dual-channel diversity receiver

Model	Rữ-8011D	Rữ-8011DB	Rữ-8012DB
Frequency Oscillation Mode	Phase-le	ocked loop (PLL)	
Carrier Frequency Range	47	0~960 MHz	
Remoset Frequency	l	Jltrasonic	
Diversity	Ante	enna diversity	
Bandwidth		36MHz	
Signal/Noise Ratio	>	•105dB(A)	
Total Harmonic Distortion (Thd)	<0).6%@1KHz	
Receiving Sensitivity	-95dB	m,S/N>80dB	
Image Rejection Ratio		>80 dB	
Frequency Response	60Hz~15KHz±2dB	50Hz~16	öKHz±2dB
Antenna Type	1/4λ Fixed antenna	1/2λ BNC	detachable
Antenna Booster Power	None DC12~15V/100mA		5V/100mA
Function Display By	LCD		
Contents Of Display	Group, channel, antenna A/B, muting level, AF indication, RF indication, channel scanning, output level attenuation, volume indication	Group, channel, fr level, antenna A/B indication, RF indi scanning, output volume indication	, muting level, AF cation, channel level attenuation,
Control Functions	Power, group, channel, muting level, channel scan (on/off), button lock, volume, output attenuation (XLR)	Power, group, cha muting level, butt output attenuatio scan (on/off)	on lock, volume,
	Ref: ±22.5KHz Dev@1KHz Tone		
Audio Frequency Output	ψ6.3 Phone Jack:-10dBV		
	XLR Jack:-4dBV(Line)、-24dBV(MIC)		
Audio Frequency Output Impedance		600Ω	

Model	Rữ-8011D	Rữ-8011DB	Rĩ-8012DB
Muting	Noise muting	and tone code loc	king
Output Port	1 x balanced XLR jack 1 x unbalanced φ6.3 jack		2 x balanced XLR jack 2 x unbalanced ¢6.3 jack
Power Supply	DC12~15V/300mA		12~15V DC / 500mA
Dimension (Mm)	212.3mm (W) x	38.3mm (H) x 144n	nm (L)

3-2 UHF PLL hand-held transmitter

Model	Rữ-850TH	Rữ-850LTH
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Wave Frequency Range		470~960 MHz
Remoset Frequency		Ultrasonic
RF Power Output	10m\	N/50mW(as per local regulations)
RF Stability		<±10KHz@Fc
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, sensitivity adjustment, low power indication	
Display By	LED	LCD+LED
Controls	Power, mute	Power, mute, group, channel, frequency, sensitivity adjustment, auto off, button lock
Battery	AA alkali battery or MiNH rechargeable battery x 2	
Charging	No	Yes
Dimension	51mm (W) x 269mm (H) x 26mm (L)	

3-3 UHF PLL body-pack transmitter

Model	Rữ-850TB	Rữ-850LTB
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Wave Frequency Range	470~960MHz	
Remoset Frequency	UI	trasonic
RF Power Output	10mW/50mW(as	s per local regulations)
RF Stability	<±1	0KHz@Fc
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, input level attenuation, sensitivity adjustment, low power indication	
Display By	LED	LCD+LED
Input Port	4 pin Mini XLR	
Controls	Power, mute	Power, mute, group, channel, frequency, sensitivity adjustment, input level attenuation, auto off
Battery	AA alkali battery or MiNH rechargeable battery x 2	
Charging	No	Yes
Dimension	62mm (W) x 97mm (H) x 20mm (L)	

3-4 Optional condenser microphone

Lavaliere microphone

Model	CM-501	CM-201i	CM-125i
Connector	4-pin mini XLR	4-pin mini	4-pin mini XLR
Frequency Response	100~15,000 Hz	XLR60~15,000 Hz	50~18,000 Hz
Polar Pattern	Cardioid	Omni-	directivity
Sensitivity (at 1000Hz)	-60 ± 3dB	-60 ± 3dB	-53 ± 3dB
Impedance	2.2Κ Ω		4.4Κ Ω
Max. SPL for 1% THD	130dB		
Dimension (mm)	Ø10.1mm (W) x 26.4mm (H)	Ø5mm (W) x 9mm (H)	Ø4mm (W) x 11mm (H)
Net Weight	21.5g	20.7g	7g (cable not included)

Headset microphone

Model	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)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR		801CR
Frequency Response	60~15,000 Hz	30~18,000 Hz	100 ~ 18,000Hz
Polar Pattern	Omni-directional	al 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		120dB
Dimension(mm)	125mm(W) x 134mm(H)x 157mm(D)	205mm(W)x 134mm(H)x 157mm(D)	125mm(W)x 134mm(H)x 157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

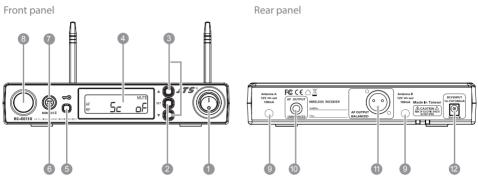
Model	CM-235i	CX-504
Connector	801C4 (4P Mini XLR)	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Omni-directional	Cardioid
Sensitivity (at 1000Hz)	-53 ± 3dB	-68 ± 3dB
Impedance	1.8kΩ	680Ω
Max. SPL for 1% THD	130dB	130dB
Dimension(mm)	155mm(W)x 134mm(H)x 157mm(D)	285mm(W)x 55mm(H)x 111.3mm(D)
Net Weight	17g (cable excluded)	56.3g

Ear-hook microphone //

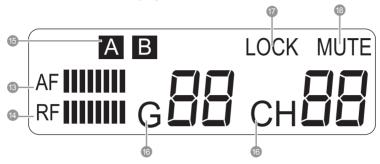
Model No	CM-801 / CM-804i	CM-8015 / CM-825i
Connector	801C4 (4P Mini XLR)	801C4 (4P Mini XLR)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR
Frequency Response	60~15,000 Hz	50~18,000 Hz
Polar Pattern	Omni-directional	Omni-directional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

4. Description of parts

4-1 UHF PLL single-channel diversity receiver // Rũ-8011D



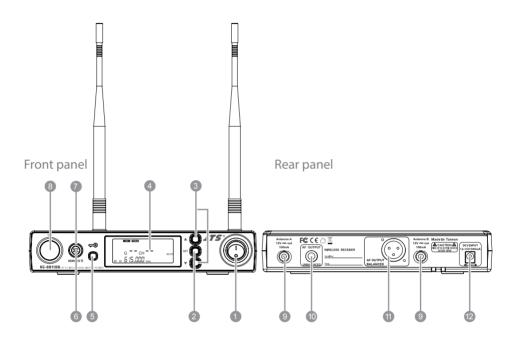
- Power: means "ON" and O means "OFF"
- SET: this is for function settings. Push and hold for 2 seconds to enter the setting mode. Push "SET" repeatedly to search for the function you wish to set.
- In the setting mode, push▲/▼to change the function parameter In the non-setting mode: push▲/▼to adjust volume
- 4 LCD display
- 6 Remoset u : this allows user to synchronize the transmitter after modifying a parameter. Push " **REMOSET** i "to synchronize the settings to the transmitter.
- Remoset indicator : this shows the current pairing status. It flashes rapidly when data is being transmitted and the flashing stops when the synchronization is completed. However, the flashing slows down if synchronization fails after a period of time of pairing attempt.
- Ultrasonic transmission unit: it transmits digital pairing data at ultrasonic frequency. When setting, direct the ultrasonic receiving element of the microphone to the ultrasonic transmitting unit of the receivers. The effective range is 30° on both sides with the optimized distance at 30cm.
- Receiving antenna: fixed antenna of 1/4 wave length
- 6.3mm phone jack: unbalanced audio output jack
- I 3P XLR male: balanced audio output jack
- DC power socket: for 12~15V DC / 300mA power supply



In the non-setting mode, the LCD looks like :

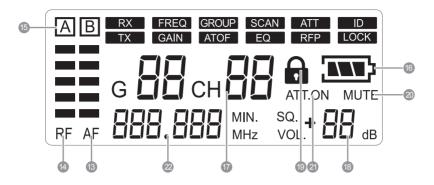
13 AF	: Audio signal strength
14 RF	: RF signal strength
15 A B	: Antenna A/B
6 GBB/сн	: Group / channel
LOCK	: Button lock engaged
18 MUTE	: Receiver mute

4-2 UHF PLL single-channel diversity receiver // Rũ-8011DB



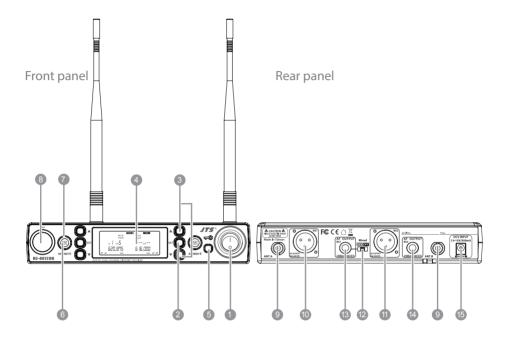
- **1** ~ **8**: See page 8.
- Image: The second s
- 1 6.3mm phone jack: unbalanced audio output jack
- 3P XLR male: balanced audio output jack
- DC power socket: for 12~15V DC / 300mA power supply

Rỹ-8011DB LCD Display



In the non-setting mode, the LCD looks like :

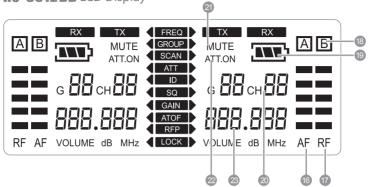
AF	: Audio signal strength
Image: A state of the state	: RF signal strength
(5 A B	: Antenna A/B
(6) 11	: Transmitter battery level
1 G B B / CH B B	: Group/channel
18 VOL. + 28 dB	: Volume
19	: Button lock
MUTE	: Receiver mute
ATT.ON	: Output attenuation
2 888.888 _{MHz}	: Frequency



1 ~ **8**: See page 8.

- Female BNC antenna port: the 50Ω BNC antenna is connected here. It also provides a booster power of 12~15 DC / 100mA for an external antenna booster.
- Male XLR (RX1): RX1 balanced audio output jack
- 1 Male XLR (RX2): RX2 balanced audio output jack
- Mixing: it allows the unbalanced audio signals from RX1 and RX2 to be mixed to RX1.
- 6.3mm phone jack (RX1): RX1 unbalanced audio output jack
- 6.3mm phone jack (RX2): RX2 unbalanced audio output jack
- (5) DC power socket: for 12~15V DC / 500mA power supply

Rỹ-8012DB LCD Display

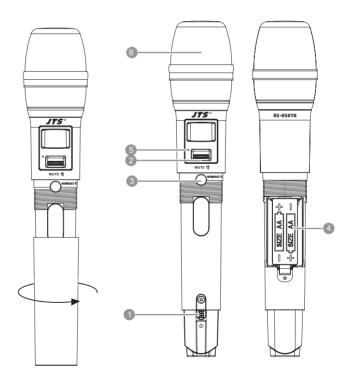


In the non-setting mode, the LCD looks like this:

16 AF	: Audio signal strength			
17 RF	: RF signal strength			
18 A B	: Antenna A/B			
	: Transmitter battery level			
🛛 _G 🖁 / _{CH} 🖁	: Frequency (group/channel)			
MUTE	: Receiver mute			
ATT.ON	: Output attenuation			
🐼 888.888 _{MHz}	: Frequency			

4-4 UHF PLL hand-held transmitter // Rũ-850TH

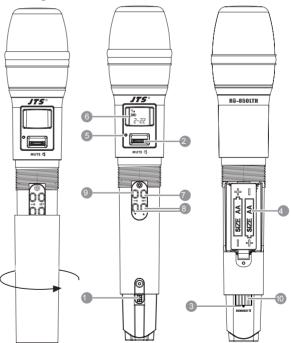
- Power: push to turn the transmitter on. When the transmitter is on, push and hold for 2 seconds to turn it off.
- Mute: while the transmitter is on, switch Mute up to talk and down to mute. If the transmitter is off, switch the Mute up to turn the unit on. The transmitter turns itself off automatically after 1, 10 or 30 minutes of muting depending on setting.
- Oltrasonic receiving unit: it receives remoset signal from the ultrasonic transmission unit at the receiver end.
- Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- EED indicator: it shows the transmitter's status, including battery level, mute and pairing status.
- Oetachable capsule module.



4-5 UHF PLL hand-held transmitter // Rũ-850LTH

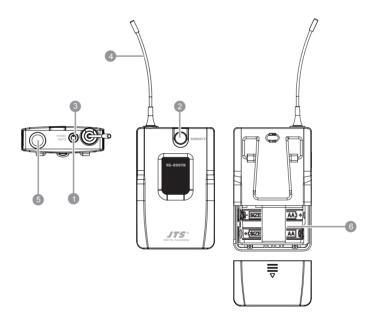
- Power: push to turn the transmitter on. When the transmitter is on, push and hold for 2 seconds to turn it off.
- Mute: while the transmitter is on, switch Mute up to talk and down to mute. If the transmitter is off, switch the Mute up to turn the unit on. The transmitter turns itself off automatically after 1, 10 or 30 minutes of muting depending on setting.
- Iltrasonic receiving unit: it receives pairing signals from the ultrasonic transmission unit at the receiver end.
- Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- IED indicator: it shows the transmitter's status, including battery level, mute and pairing indication.
- **ICD** display: it shows the parameter settings in the transmitter.
- SET: it allows parameter settings, including frequency, group, channel, sensitivity, transmission power, auto off countdown and machine code.

- Charging contact: if rechargeable batteries are used, this microphone can be recharged with an optional charger.



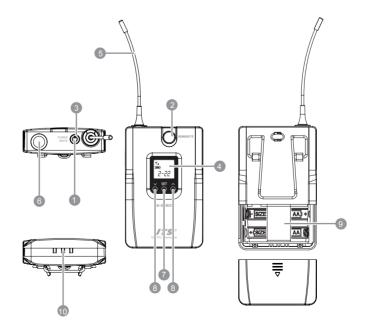
4-6 UHF PLL body-pack transmitter // Rũ-850TB

- Mute/Power: push once to turn the unit on. While the unit is on, push once to mute and push again to talk. Push and hold for 2 seconds to turn off.
- Oltrasonic receiving unit: it receives the pairing signals from the ultrasonic transmission unit at the receiver end.
- EED indicator: it shows the transmitter's status, including battery level, mute and pairing indication.
- Antenna: the antenna of transmitter
- **5** Microphone input port: 4P mini XLR jack
- 6 Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.



- 4-7 UHF PLL body-pack transmitter // Rũ-850LTB
- Mute/Power: push once to turn the unit on. While the unit is on, push once to mute and push again to talk. Push and hold for 2 seconds to turn off.
- Ultrasonic receiving unit: it receives the pairing signals from the ultrasonic transmission unit at the receiver end.
- EED indicator: it shows the transmitter's status, including battery level, mute and pairing indication.
- **ICD** display: it shows the parameter settings in the transmitter.
- 6 Antenna: the antenna of transmitter
- Microphone input port: 4P mini XLR jack
- SET: it allows parameter settings, including frequency, group, channel, sensitivity, input signal attenuation, auto off countdown, lock on and machine code.
- Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- Charging contact: if rechargeable batteries are used, this transmitter can be recharged with an optional charger.

Note: a user can also choose Auto power off with Rũ-850LTB



4-8 Accessories

 AC/DC adaptor Switching Power Supply(100V~240V, 50~60Hz) AC IN: AC100~240V/50~60Hz DC OUT: DC12V/0.5A Option
 AF output cable (with Φ6.3 plug at both ends)



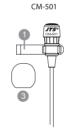
4-9 Optional Condenser Microphone

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

Clip
 4 Pin Mini XLR

Windscreen





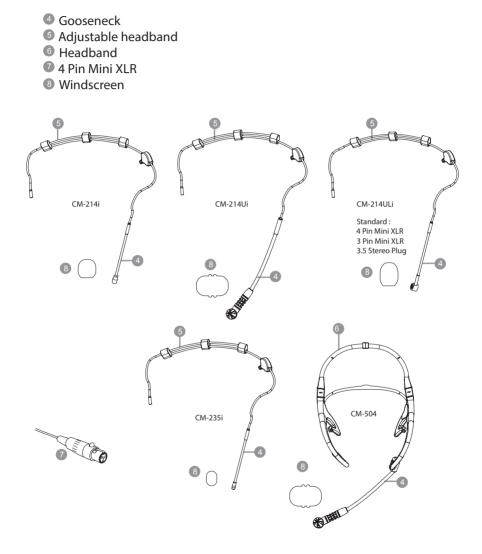


CM-201i

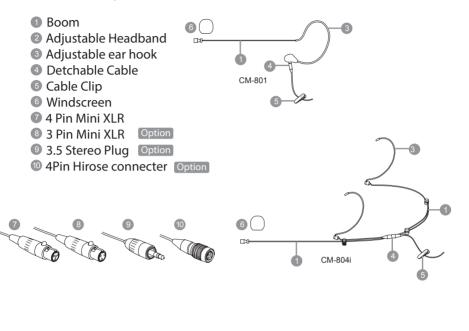


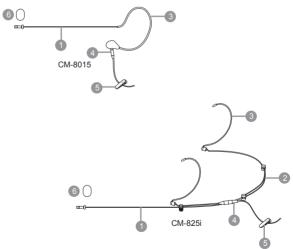
CM-125i

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



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





5. Connecting

- 5-1 How to connect the receiver
 - 1. Connect the audio output of receiver to mixer or amplifier

1.1 **Rỹ-8011D**/ **Rỹ-8011DB**

The XLR output jack or 6.3mm unbalance output jack can be selected to connect the AF output to a mixer or amplifier.

1.2 Rỹ-8012DB

- (1) The XLR output jack or 6.3mm unbalance output jack can be selected individually to connect the AF output to a mixer or amplifier for volume control.
- (2) Switch the "Mixed" on the back to ON. This allows to mix the RX1 and RX2 signals to RX1's 6.3mm non-balance output jack and then to a mixer or amplifier for volume control.
- 2.Connect the power
 - 2.1. Connect the AC/DC adapter:

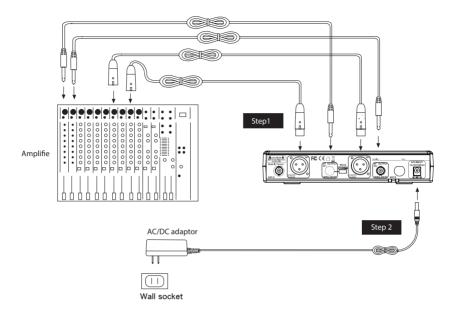
Check that the DC current and voltage ratings of the adapter match the label on the unit. Connect the DC terminal to the "DC input" port on the unit, and the AC end to an AC socket.

2.2. Set the parameters:

Turn the power on and set the parameters of receiver according to the setting instructions.



Caution! Secure the power cable on the fastening hook of anti-pulling clip in order to prevent the power cable from falling.



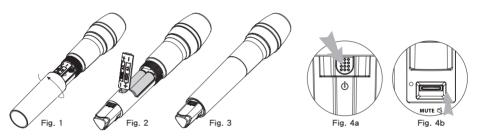
5-2 Transmitter installation // Rũ-850TH / Rũ-850LTH/ Rũ-850TB Rũ-850LTB

The Mute button on the hand-held unit also triggers the power-on. That's why the unit is on as soon as the batteries are replaced. Therefore, if you do not wish to turn on after changing the batteries, keep the Mute switch on mute.

1. Unscrew the outer tube of the transmitter (Figure 1).

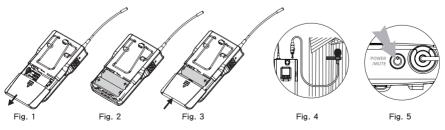
2. Place 2 AA batteries in the battery holder while make sure they are in the correct polarities (Figure 2).

- 3. Screw the outer tube on (Figure 3).
- 4. To turn the unit on:
 - a. Push the power button to turn on (Figure 4a), or
 - b. Push the Mute switch up also to turn the unit on (Figure 4b).
- 5. Set the transmitter parameters according to the instructions.



Rữ-850TB Rữ-850LTB

- 1. Slide the battery holder cover downwards (Figure 1).
- 2. Place 2 AA batteries in the battery holder while make sure they are in the correct polarities (Figure 2).
- 3. Slide the battery holder cover upwards to close (Figure 3)
- 4. According to the type of microphone, insert the 4-pin mini XLR jack in MIC IN to complete the installation (Figure 4).
- 5. Push the Power button to turn the unit on (Figure 5).
- 6. Set the transmitter parameters according to the instructions.

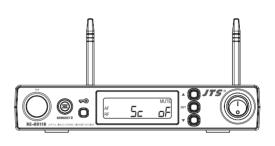


6. Instructions for use

6-1 How to use // Rũ-8011D

Parameter setting -

Push and hold the "SET" button to enter the setting mode.



\bigcirc Group / channel setting

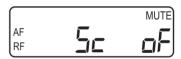
G: group	Select default group 1~6			
CH : channel	Select default channel, 1~22			
	max			



Select the group when "G" is flashing; select the channel when "CH" is flashing.

\bigcirc Channel scan

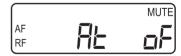
SC oF	This means the function is deactivated.
SC on	This means the function is activated. (scan to make sure this channel is oc- cupied or not)The program will avoid it automatically to prevent interference.



This function is deactivated.

\bigcirc Audio output attenuation (XLR)

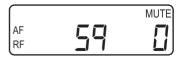
At oF	No attenuation at audio output
At on	20dB attenuation at audio ouput



This function is deactivated.

\bigcirc SQ receiving sensitivity

-5~+10dB;	-5 is the maximum sensitivity.
select SQ	+10 is the minimum sensitivity.
with A / V	The default setting is 0.



The default setting is 0.

O Microphone input sensitivity

Normal sensitivity	SE A : +15dB SE 9 : +12 dB SE 8 : +9dB SE 7 : +6dB SE 6 : +3 dB SE 5 : 0 dB SE 4 : -3 dB	AF 56 5 RF 56 5 Normal default sensitivity
20dB	SE 3 : -6 dB SE 2 : -9 dB SE 1 : -12 dB SE 0 : -15 dB SE AA : -5 dB	
attenuation (body pack transmitter only)	SE AA : -3 dB SE AA : -11dB SE A8 : -11dB SE A7 : -14dB SE A6 : -17dB SE A5 : -20dB SE A4 : -23dB SE A3 : -26dB SE A2 : -29dB SE A1 : -32dB SE A0 : -35dB	AF SE AS RF 20 dB attenuation

AO OF	This function is deactivated			
AO 1	1 minute countdown to turn off			
AO 10	10 minute countdown to turn off			
AO 30	30 minute countdown to turn off			



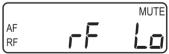
This function is deactivated.

(The default setting is 10 minute.)

◎ RFP: RF microphone power

The transmitter comes with 2 stages of RF power output.

rF Lo	10mW
rF Hi	50mW

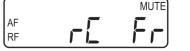


This shows that the RF output is LOW (10mW).

◎ RC (Remoset Configuration)

rC Fr	Only frequency and group setting will be synchronized	
rC AL	All data setting will be synchronized	

The default setting is rC Fr.



Only frequency and group setting will be synchronized.

Volume adjustment

In non-setting mode, adjust the volume from 0 to -31dB using the▲/▼button.

- The minimum volume is 0 (-31dB).
- The maximum volume is 31(0dB).
- The default volume setting is 21(-10dB).

Volume	0	1	2	3	 21	 31
dB	-31	-30	-29	-28	 -10	 0

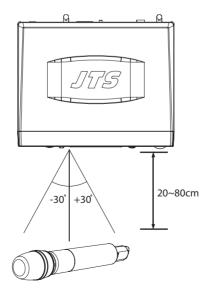


Minimum volume at 0(-31dB); maximum volume at 31(0dB).

Pairing **REMOSET ũ**

Once the parameters are set, push the "**REMOSET** iii "button and the digital pairing data will be sent to the transmitter via ultrasonic transmitter for parameter synchronization. The indicator will flash rapidly while the data are being transmitted. When the synchronization is completed, the receiver will receive the corresponding data and the indicator will stop flashing. If the signal is not received for a certain period of time, the indicator will flash slowly to inform pairing failure (the slowly flashing indicator can be reset by pushing any button).

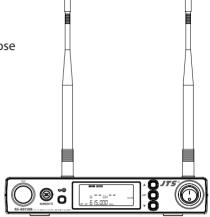
Note: The best pairing distance is 30cm, $\pm 30^{\circ}$.



6-2 How to use // Rũ-8011DB

Parameter setting -

Push and hold the "SET" button to enter the setting mode. Push the \blacktriangle/∇ button to choose to set RX (receiver) or TX (transmitter).



When RX receiver is selected:

◎ FREQ: frequency setting

In 1MHz	Select frequency with $\blacktriangle/ igvee$
ln 0.025MHz	Select frequency with $\blacktriangle/ \blacksquare$



Select the number of frequency first in MHz and then in 0.025MHz.

O Group / channel

G: group	Select default group 1~6
CH: channel	Select default channel, 1~22 max



Select the group when "G" is flashing; select the channel when "CH" is flashing.

O Channel scan

SC oFF	This means the function is deactivated.
SC on	This means the function is activated. (scan to make sure this channel is oc- cupied or not) The program will avoid it automatically to prevent interference.

Note: this function works only in the preset mode.

RX	SCAN	
	<i></i>	MUTE
RF AF 🖢	ott	

This function is deactivated.

\bigcirc Audio output attenuation (XLR)

At oFF	No attenuation at audio output
At on	20dB attenuation at audio ouput



This function is deactivated.

◎ SQ Receiving sensitivity

-5~+10dB;	-5 is the maximum sensitivity.
select SO with	+10 is the minimum sensitivity.
∆/▼	The default setting is 0.

RX	
	MUTE
RF AF	^{sq.} – 5

The default setting is 0.

When TX transmitter is selected:

\bigcirc ATT microphone audio input attenuation

At oFF	No attenuation at audio input
At on	20dB attenuation at audio input (depending on whether the transmitter is provided with the corresponding function).

O Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+12dB
	GAIN:+9dB
	GAIN : +6dB
	GAIN:+3dB
	GAIN: 0dB
	GAIN:-3dB
	GAIN:-6dB
	GAIN:-9dB
	GAIN:-12dB
	GAIN:-15dB

ТХ		ATT.	
RF AF AL	оп		MUTE

The function is activated with 20dB of audio input attenuation.

$\left[\right]$	TX	GAIN	
		_	MUTE
RF	AF	0	dB

It shows the microphone input sensitivity is now at 0dB (default setting).

AO OF	This function is deactivated
AO 1	1 minute countdown to turn off
AO 10	10 minute countdown to turn off
AO 30	30 minute countdown to turn off

TX	ATOF	
RF AF	٥FF	MUTE

This function is deactivated.

(The default setting is 10 minute.)

◎ RFP: RF microphone power

The transmitter comes with 2 stages of RF power output (as per local regulations).

OATOF: Automatic microphone off countdown under mute status

rF Lo	10mW
rF Hi	50mW

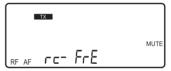
	ТХ		RFP	
	-5	1_		MUTE
RF AF	rr	LO		

This shows that the RF output is LOW (10mW)

◎ RC (Remoset Configuration)

rC-FrE	Only frequency and group setting will be synchronized
rC-ALL	All data setting will be synchronized

The default setting is rC-FrE.



Only frequency and group setting will be synchronized.

Volume adjustment -

In non-setting mode, adjust the volume from 0 to -31dB using the \blacktriangle/∇ button.

- The minimum volume is -31 dB.
- The maximum volume is 0 dB.
- The default setting is -10 dB.



Minimum volume at -31db; maximum volume at 0dB

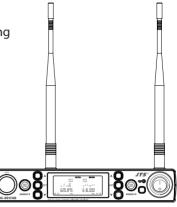
Pairing **REMOSET ũ**

See page 26.

6-3 How to use // Rũ-8012DB

Parameter setting

Push and hold the "SET" button to enter the setting mode. Push the \blacktriangle/ ∇ button to choose to set RX (receiver) or TX (transmitter).



When RX receiver is selected:

◎ FREQ: frequency setting

In 1MHz	Select frequency with $\blacktriangle/ \blacksquare$
In 0.025MHz	Select frequency with $\blacktriangle/ \mathbf{V}$

		FREQ RX	
	MUTE ATT.ON	MUTE ATT.ON	
	д / сн 5	д _{СН} 	
	620.875	6 16.000	
RF AF	MHz	MHz	AF RF

Select the number of frequency first in MHz and then in 0.025MHz.

\bigcirc Group / channel

G: group	Select default group 1~6
CH: channel	Select default channel, 1~22 max



Select the group when "G" is flashing; select the channel when "CH" is flashing.

O Channel scan

SC oFF	This means the function is deactivated.
SC on	This means the function is activated (scan to make sure this channel is occu- pied or not. The program will avoid it automatically to prevent interference.

This function is deactivated.

Note: this function works only in the preset mode.

\bigcirc Audio output attenuation (XLR)

At oFF	No attenuation at audio input
At on	20dB attenuation at audio input (depending on whether the transmitter is provided with the corresponding function).

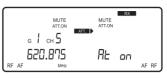
-5 is the maximum

+10 is the minimum

The default setting is 0.

sensitivity.

sensitivity.



The function is activated with 20dB of audio input attenuation.



It shows the SQ is 0dB (default setting).

Whon TV transmittar is salacted.

◎ SQ Receiving sensitivity

-5~+10dB; select

SQ with \blacktriangle/∇

O ATT microphone audio input attenuation

At oFF	No attenuation at audio input
At on	20dB attenuation at audio input



This function is deactivated.

○ Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+12dB
	GAIN:+9dB
	GAIN : +6dB
	GAIN:+3dB
	GAIN: 0dB
	GAIN:-3dB
	GAIN:-6dB
	GAIN:-9dB
	GAIN:-12dB
	GAIN:-15dB



It shows the microphone input sensitivity is now at 0dB (default setting).

This function is deactivated
1 minute countdown to turn off
10 minute countdown to turn off
30 minute countdown to turn off



This function is deactivated.

(The default setting is 10 minute.)

◎ RFP: RF microphone power

The transmitter comes with 2 stages of RF power output (as per local regulations).

O ATOF: Automatic microphone off countdown under mute status

rF Lo	10mW
rF Hi	50mW

MUTE ATT.ON	TX MUTE			
а Г сн 5				
620.875	REP	Lo		
RF AF MHz			AF	RF

This shows that the RF output is LOW (10mW).

◎ RC (Remoset Configuration)

rC-FrE	Only frequency and group setting will be synchronized	
rC-ALL	All data setting will be synchronized	
The default estimation of ExE		

MUTE ATT.ON	TX MUTE
а I сн 5	
620.875	re- FrE
RF AF MHz	AF RF

Only frequency and group setting will be

synchronized.

The default setting is rC-FrE.

Volume adjustment

In non-setting mode, adjust the volume from 0 to -31dB using the ▲/▼ button.

- The minimum volume is -31 dB.
- The maximum volume is 0 dB.
- The default setting is -10 dB.

MUTE ATT:ON	MUTE
д I сн 5	
620.875	-5
RF AF MHz	VOLUME dB AF RF

Minimum volume at -31db; maximum volume at 0dB

Pairing **REMOSET ũ**

See page 26.

Others -

The transmitter's battery level is also shown on the LCD display. If the battery level is \leq 2V, the frame around the battery level will flash and the backlight turns into red as a warning (for **Rũ-8011DB** and **Rũ-8012DB**).

6-4 How to use // Rỹ-850TH / Rỹ-850TB

Parameter setting ——

Parameters, including group, channel,microphone input sensitivity, auto off countdown and RF power, are set at the receiver end and synchronized via **REMOSET** \tilde{U} .



Pairing **REMOSET ũ**

See page 26.

Indicators

Green	Battery > 2V	
Flashing green	Microphone mute	
Red	Battery $\leq 2V$	
Alternating red and green	Microphone mute (and battery low)	
Blue	Pairing successful	
Flashing blue	Data receiving error	

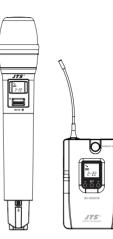
Others

• When the battery level is <1.8V, the transmitter will turn itself off automatically.

• When **Rỹ-850TB** is on, push the mute/power button to mute the transmitter and push again to talk. Push and hold for 2 seconds to turn off.

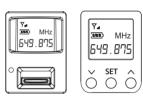
6-5 How to use // Rt -850LTH / Rt -850LTB

Parameter setting



◎ FREQ: frequency setting

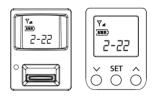
In 1MHz	Select frequency with $\blacktriangle/ \mathbf{V}$
In 0.025MHz	Select frequency with $\blacktriangle/ \mathbf{V}$



Select the number of frequency first in MHz and then in 0.025MHz.

\bigcirc Group / channel

G: group	Select default group 1~6
CH: channel	Select default channel, 1~22
	maxSelect default channel,
	1~22 max



Select the number for group and then the number for channel.

\bigcirc ATT microphone audio input attenuation

Att oFF	No attenuation at audio input
Att on	20dB attenuation at audio input

Only for PT-850L



It shows the audio input attenuation at 20dB.

O Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+12dB
	GAIN:+9dB
	GAIN : +6dB
	GAIN:+3dB
	GAIN: 0dB
	GAIN:-3dB
	GAIN:-6dB
	GAIN:-9dB
	GAIN:-12dB
	GAIN:-15dB

◎ RFP: RF microphone power

10mW

50mW

rFP Lo

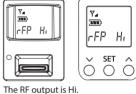
rFP Hi

C

It shows the sensitivity is now at GAIN 0dB (default setting).

 $\begin{array}{c|c}
\hline
 Y_{\bullet} \\
\hline
 FP & Lo
\end{array}$ $\begin{array}{c|c}
 Y_{\bullet} \\
\hline
 FP & Lo
\end{array}$





O AUTO-OFF: Automatic microphone off countdown under mute status

OFF	This function is deactivated
1	1 minute countdown to turn off
10	10 minute countdown to turn off
30	30 minute countdown to turn off

(The default setting is 10 minute.)

)	Key	Lock
---	-----	------

Loc on	Lock ON
Loc oFF	Lock OFF













Lc	nc Of	F
ŏ	SET	ô

7. Notes for the product

- (1) For the best signal receiving quality, always keep the receiver within 3m of the transmitter.
- (2) The receiver and transmitter shall be away from other metal objects, preferably 50cm or farther.
- (3) Do not point the microphone directly to a speaker, or there will be feedbacks. It is recommended to hold the transmitter (microphone) at the middle section for the best pickup.
- (4) In case that the transmitter will not be in use for an extended period of time, the batteries shall be removed from the battery holder to prevent damage to the transmitter due to leak of battery electrolyte solution.
- (5) For the best power performance, it is recommended to change both batteries or use the products of the same manufacturer when they are to be changed.

JTS "PROFESSIONAL CO., LTD

No. 148, 9th Industry Road, Ta-Li Industrial Park, Taichung City, Taiwan, R.O.C. Tel: 886-4-24938803 Fax: 886-4-24914890 E-mail: jts@jts.com.tw www.jts.com.tw





Instruction Manual

UHF PLL

Rữ-992/Rữ-850LTH/Rữ-850LTB RU-G3TH/RU-G3TB



With JTS **REMOSET** $\widetilde{\mathbf{U}}$ Ultrasonic Synchronizing Technology

One year product warranty

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

Warranty description

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

Table of Contents

1. Notes for system operations	1
2. Features	1
3. Specifications 3-1 UHF PLL dual-channel diversity receiver // Rũ-992 3-2 UHF PLL hand-held transmitter // Rũ-850LTH 3-3 UHF PLL hand-held transmitter // Rũ-850LTB 3-4 UHF PLL body-pack transmitter // Rũ-850LTB 3-5 UHF PLL body-pack transmitter // RŨ-G3TB 3-6 Optional condenser microphone	2 2 3 3 4 4 5
 4. Description of parts 4-1 UHF PLL dual-channel diversity receiver // Rũ-992 4-2 UHF PLL hand-held transmitter // Rũ-850LTH 4-3 UHF PLL hand-held transmitter // RŨ-G3TH 4-4 UHF PLL body-pack transmitter // Rũ-850LTB 4-5 UHF PLL body-pack transmitter // RŨ-G3TB 4-6 Optional remote mute switch PT-RMS 4-7 Accessories 4-8 Optional Condenser Microphone 	
5. Connecting 5-1 How to connect the receiver // Rũ-992 5-2 Transmitter installation // Rũ-850LTH /Rũ-850LTB 5-3 Transmitter installation // RU-G3TH/RU-G3TB	
6. Instructions for use 6-1How to use // Rũ-992 6-2 How to use // Rũ-850LTH / Rũ-850LTB 6-3 How to use// RU-G3TH / RŨ-G3TB 6-4 Installation of Condenser Microphones	
7. Notes for the product	32

1. Notes for system operations

- Before connecting the power, check that the power requirement shown on the unit is the same as the power output on the adaptor supplied.
- Do not leave the unit at where the humidity and temperature are high.
- Dry your hands before operating the system.
- Keep the unit away from fire and heat source.
- Turn the volume to minimum at both the mixer and amplifier before setting up the system.

2. Features

- 6 groups are provided as default. Every group contains up to 22 default channels.
- There are in total 1,440 channels to choose from.
- 36MHz bandwidth.
- The patented **REMOSET** i ultrasonic pairing for synchronized setting of all parameters
- Channel scan
- · Adjustable receiving sensitivity
- Digital volume control
- · Automatic microphone power off
- Microphone recharging feature ready

3. Specifications

3-1 UHF PLL dual-channel diversity receiver

Model	Rữ-992	
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Frequency Range	470~960 MHz	
Remoset Frequency	Ultrasonic	
Diversity	Antenna diversity	
Bandwidth	36MHz	
Signal/Noise Ratio	>105dB(A)	
Total Harmonic Distortion (Thd)	<0.6%@1KHz	
Receiving Sensitivity	-95dBm,S/N>80dB	
Image Rejection Ratio	>80 dB	
Frequency Response	50Hz~16KHz±2dB	
Antenna Type	1/2λ BNC detachable	
Antenna Booster Power	DC12~15V/100mA	
Function Display By	LCD	
Contents Of Display	Group, channel, frequency, battery level, antenna A/B, Squelch level, AF indication, RF indication, channel scanning, output level attenuation, volume indication	
Control Functions	Power, group, channel, frequency, muting level, button lock, volume, output attenuation (XLR), channel scan (on/off)	
	Ref:±22.5KHz Dev@1KHz Tone	
Audio Frequency Output Level	ψ6.3 Phone Jack:-10dBV	
	XLR Jack:-4dBV(Line) 丶-24dBV(MIC)	
Audio Frequency Output Impedance	600Ω	
Muting	Noise muting and pilot tone	
Output Port	2 x balanced XLR jack 2 x unbalanced ¢6.3 jack	
Power Supply	12~15V DC / 500mA	
	420mm (W) x 44mm (H) x 211mm (D)	

3-2 UHF PLL hand-held transmitter

Model	Rữ-850LTH	
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Frequency Range	470~960 MHz	
Remoset Frequency	Ultrasonic	
RF Power Output	10mW/50mW(as per local regulations)	
RF Stability	<±10KHz@Fc	
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, sensitivity adjustment, low power indication	
Display	LCD+LED	
Controls	Power, mute, group, channel, frequency, sensitivity adjustment, auto off, button lock	
Battery	AA alkaline battery or MiNH rechargeable battery x 2	
Charging	Yes	
Dimension	51mm (W) x 269mm (H) x 26mm (L)	

3-3 UHF PLL hand-held transmitter

Model	RU-G3TH	
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Wave Frequency Range	470~960 MHz	
Remoset Frequency	Ultrasonic	
RF Power Output	10mW/50mW(as per local regulations)	
RF Stability	<±10KHz@Fc	
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, sensitivity adjustment, low power indication	
Display By	LCD+LED	
Controls	Power, mute, group, channel, frequency, sensitivity adjustment, auto off, button lock	
Battery	AA alkali battery or MiNH rechargeable battery x 2	
Charging	Yes	
Dimension	51mm (W) x 269mm (H) x 26mm (L)	

3-4 UHF PLL body-pack transmitter

Model	Rữ-850LTB	
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Frequency Range	470~960MHz	
Remoset Frequency	Ultrasonic	
RF Power Output	10mW/50mW(as per local regulations)	
RF Stability	<±10KHz@Fc	
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, input level attenuation, sensitivity adjustment, low power indication	
Display	LCD+LED	
Input Port	4 pin Mini XLR	
Controls	Power, mute, group, channel, frequency, sensitivity adjustment, input level attenuation, auto off	
Battery	AA alkaline battery or MiNH rechargeable battery x 2	
Charging	Yes	
Dimension	62mm (W) x 97mm (H) x 20mm (L)	

3-5 UHF PLL body-pack transmitter

Model	RU-G3TB	
Frequency Oscillation Mode	Phase-locked loop (PLL)	
Carrier Wave Frequency Range	470~960MHz	
Remoset Frequency	Ultrasonic	
RF Power Output	10mW/50mW(as per local regulations)	
RF Stability	<±10KHz@Fc	
Modulation Frequency Shift	±48KHz	
Harmonic Radiation	<-50dBc	
Functions	Mute, auto off, input level attenuation, sensitivity adjustment, low power indication	
Display By	LCD+LED	
Input Port	4 pin Mini XLR	
Controls	Power, mute, group, channel, frequency, sensitivity adjustment, input level attenuation, auto off	
Battery	AA alkali battery or MiNH rechargeable battery x 2	
Charging	Yes	
Dimension	62mm (W) x 97mm (H) x 20mm (L)	

3-6 Optional condenser microphone

Lavaliere microphone

Model	CM-501	CM-201i	CM-125i
Connector	4-pin mini XLR	4-pin mini	4-pin mini XLR
Frequency Response	100~15,000 Hz	XLR60~15,000 Hz	50~18,000 Hz
Polar Pattern	Cardioid	Omni-	directivity
Sensitivity (at 1000Hz)	-60 ± 3dB	-60 ± 3dB	-53 ± 3dB
Impedance	2.2	2ΚΩ	4.4Κ Ω
Max. SPL for 1% THD	130dB		
Dimension (mm)	Ø10.1mm (W) x 26.4mm (H)	Ø5mm (W) x 9mm (H)	Ø4mm (W) x 11mm (H)
Net Weight	21.5g	20.7g	7g (cable not included)

Headset microphone

Model	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)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR		801CR
Frequency Response	60~15,000 Hz	30~18,000 Hz	100 ~ 18,000Hz
Polar Pattern	Omni-directional		ardioid
Sensitivity (at 1000Hz)	-60±3 dB	-68±3 dB	-65±3 dB
Impedance	1.8kΩ	680Ω	1.8kΩ
Max. SPL for 1% THD	130dB		120dB
Dimension(mm)	125mm(W) x 134mm(H)x 157mm(D)	205mm(W)x 134mm(H)x 157mm(D)	125mm(W)x 134mm(H)x 157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

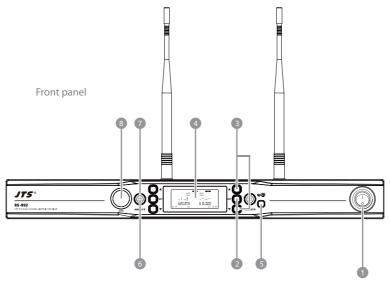
Model	CM-235i	CX-504
Connector	801C4 (4P Mini XLR)	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Omni-directional	Cardioid
Sensitivity (at 1000Hz)	-53 ± 3dB	-68 ± 3dB
Impedance	1.8kΩ	680Ω
Max. SPL for 1% THD	130dB	130dB
Dimension(mm)	155mm(W)x 134mm(H)x 157mm(D)	285mm(W)x 55mm(H)x 111.3mm(D)
Net Weight	17g (cable excluded)	56.3g

Ear-hook microphone

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

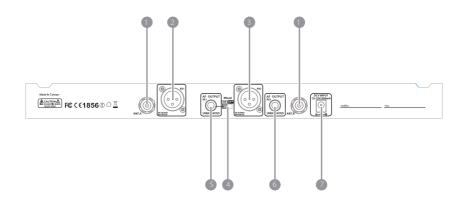
4. Description of parts

4-1 UHF PLL dual-channel diversity receiver // Rũ-992



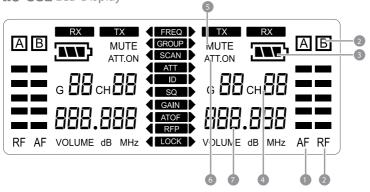
- Power: means "ON" and O means "OFF"
- SET: this is for function settings. Push and hold for 2 seconds to enter the setting mode. Push "SET" repeatedly to search for the function you wish to set.
- In the setting mode, push▲/▼to change the function parameter In the non-setting mode: push▲/▼to adjust volume
- 4 LCD display
- Icock ⇐ :push and hold "Lock" for 2 seconds to lock the buttons in order to prevent pushing any button by accident.
- 6 Remoset U : this allows user to synchronize the transmitter after modifying a parameter. Push " REMOSET i "to synchronize the settings to the transmitter.
- Remoset indicator : this shows the current pairing status. It flashes rapidly when data is being transmitted and the flashing stops when the synchronization is completed. However, the flashing slows down if synchronization fails after a period of time of pairing attempt.
- Ultrasonic transmission unit: it transmits digital pairing data at ultrasonic frequency. When setting, direct the ultrasonic receiving unit of the microphone to the ultrasonic transmitting unit of the receivers. The effective range is 30° on both sides with the optimized distance at 30cm.

Rear panel



- Female BNC antenna port: the 50Ω BNC antenna is connected here. It also provides a booster power of 12~15 DC / 100mA for an external antenna booster.
- Male XLR (RX1): RX1 balanced audio output jack
- 3 Male XLR (RX2): RX2 balanced audio output jack
- Mixing: it allows the unbalanced audio signals from RX1 and RX2 to be mixed to RX1.
- 6.3mm phone jack (RX1): RX1 unbalanced audio output jack
- 6 6.3mm phone jack (RX2): RX2 unbalanced audio output jack
- DC power socket: for 12~15V DC / 500mA power supply

Rỹ-992 LCD Display

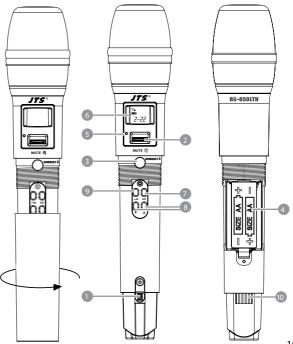


In the non-setting mode, the LCD looks like this:

- AF : Audio signal strength
 RF : RF signal strength
 A B : Antenna A/B
 A B : Transmitter battery level
 G A A CH A CH
- (B) BBB. BBB _{MHz} : Frequency

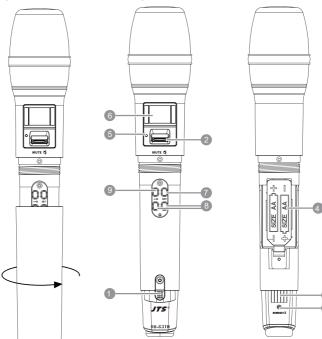
4-2 UHF PLL hand-held transmitter // Ru-850LTH

- Power: push to turn the transmitter on. When the transmitter is on, push and hold for 2 seconds to turn it off.
- Mute: while the transmitter is on, switch Mute up to talk and down to mute. If the transmitter is off, switch the Mute up to turn the unit on. The transmitter turns itself off automatically after 1, 10 or 30 minutes of muting depending on setting.
- Iltrasonic receiving unit: it receives pairing signals from the ultrasonic transmission unit at the receiver end.
- Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- IED indicator: it shows the transmitter's status, including battery level, mute and pairing indication.
- 6 LCD display: it shows the parameter settings in the transmitter.
- SET: it allows parameter settings, including frequency, group, channel, sensitivity, transmission power, auto off countdown.
- 𝔅 ▲/▼: these are used with "SET" to change the parameter settings.
- Charging contact: if rechargeable batteries are used, this microphone can be recharged with an optional charger.



4-3 UHF PLL hand-held transmitter // RU-G3TH

- **Power:** push to turn the transmitter on. When the transmitter is on, push and hold for 2 seconds to turn it off.
- Mute: while the transmitter is on, switch Mute up to talk and down to mute. If the transmitter is off, switch the Mute up to turn the unit on. The transmitter turns itself off automatically after 1, 10 or 30 minutes of muting depending on setting.
- **Oltrasonic receiving unit:** it receives pairing signals from the ultrasonic transmission unit at the receiver end.
- **Battery holder:** it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- **LED indicator:** it shows the transmitter's status, including battery level, mute and pairing indication.
- **6 LCD display:** it shows the parameter settings in the transmitter.
- SET: it allows parameter settings, including frequency, group, channel, sensitivity, transmission power, auto off countdown and machine code.
- (1) \blacktriangle \checkmark : these are used with "SET" to change the parameter settings.
- Charging contact: if rechargeable batteries are used, this microphone can be recharged with an optional charger.



10

3

Indicators _____

Green	Battery > 2V	
Flashing green	Microphone mute	
Red	Battery $\leq 2V$	
Alternating red and green	Microphone mute (and battery low)	
Blue	Pairing successful	
Flashing blue	Data receiving error	

Others -

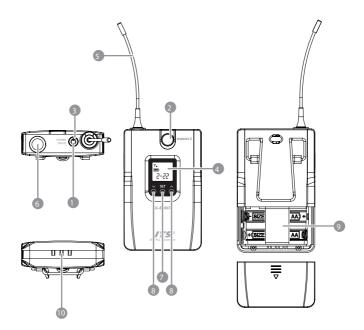
Battery charging is supported. The transmitter turns off automatically when charging.

When battery is < 1.8V, the transmitter will turn off automatically.

If the microphone is turned off with the mute switch on mute, just slide the switch up to turn the microphone on.

4-4 UHF PLL body-pack transmitter // Ru-850LTB

- Mute/Power: push once to turn the unit on. While the unit is on, push once to mute and push again to talk. Push and hold for 2 seconds to turn off.
- Ultrasonic receiving unit: it receives the pairing signals from the ultrasonic transmission unit at the receiver end.
- LED indicator: it shows the transmitter's status, including battery level, mute and pairing indication.
- 4 LCD display: it shows the parameter settings in the transmitter.
- S Antenna: the antenna of transmitter
- 6 Microphone input port: 4P mini XLR jack
- SET: it allows parameter settings, including frequency, group, channel, sensitivity, input signal attenuation, auto off countdown, lock on.
- (1) \blacktriangle/∇ : these are used with "SET" to change the parameter settings.
- Battery holder: it holds UM3, AA 1.5V battery or rechargeable battery x 2.
- Charging contact: if rechargeable batteries are used, this transmitter can be recharged with an optional charger.



4-5 UHF PLL body-pack transmitter // RU-G3TB

- LCD display
- Oltrasonic receiving unit: it receives the pairing signals from the ultrasonic transmission unit at the receiver end.
- 8 REMOSET indicator :

Blue : Pairing successful Flashing blue : Date receiving error

4 Power:

(1)On: push the power button

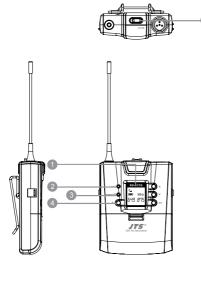
Off: push and hold the power button for 2 seconds till the display shows "Power Off."

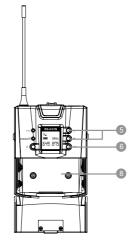
- (2)Exit Setting Menu: when in the Setting Menu, push the power button to return to the main screen.
- **(5** \blacktriangle / ∇ : these are used with "SET" to change the parameter settings.
- 6 SET: to set and save

Mute Switch / LED Indicator :

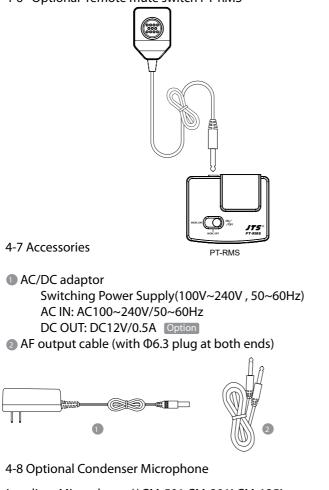
- (1)Show green light when power is on.
- (2)Show red light when battery level is too low.
- (3)Flash red light when switch to "MUTE" function to mute the transmitter.
- (4)Flash red light and green light when mute function is on and battery level is too low.

Battery tray

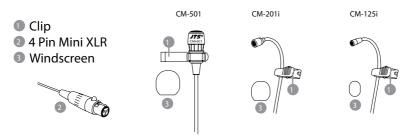




4-6 Optional remote mute switch PT-RMS

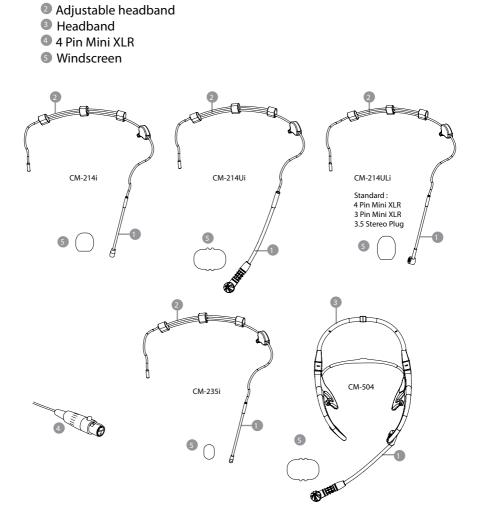


Lavaliere Microphone // CM-501 CM-201i CM-125i

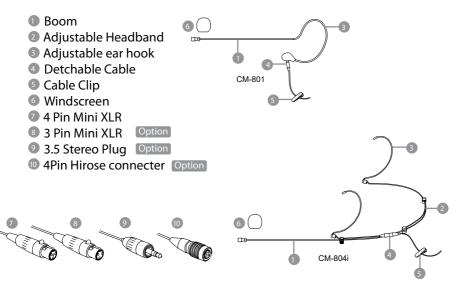


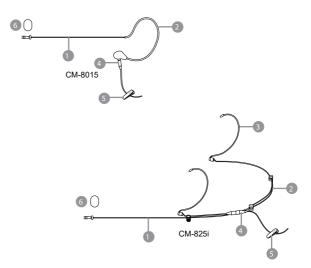
Headset Microphone // CM-214i CM-214Ui CM-214ULi CM-235i CX-504

Gooseneck



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





5. Connecting

- 5-1 How to connect the receiver
 - 1. Connect the audio output of receiver to mixer or amplifier
 - 1.1 **Rũ-992:**
 - (1) The XLR output jack or 6.3mm unbalance output jack can be selected individually to connect the AF output to a mixer or amplifier.
 - (2) Switch the "Mixed" on the back to ON. This allows to mix the RX1 and RX2 signals to RX1's 6.3mm non-balance output jack and then to a mixer or amplifier.

2.Connect the power

2.1. Connect the AC/DC adapter:

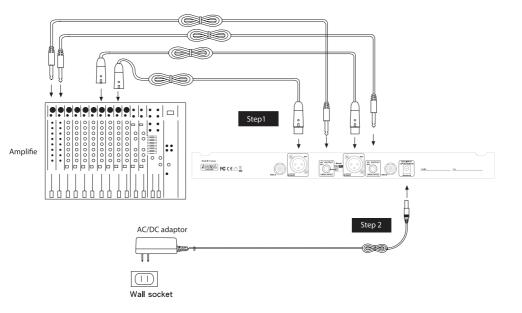
Check that the DC current and voltage ratings of the adapter match the label on the unit. Connect the DC terminal to the "DC input" port on the unit, and the AC end to an AC socket.

2.2. Set the parameters:

Turn the power on and set the parameters of receiver according to the setting instructions.



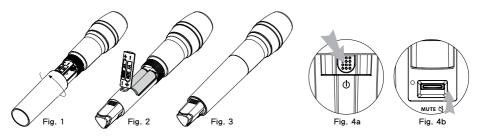
Caution! Secure the power cable on the fastening hook of anti-pulling clip in order to prevent the power cable from falling.



5-2 Transmitter installation // Rũ-850LTH / Rũ-850LTB

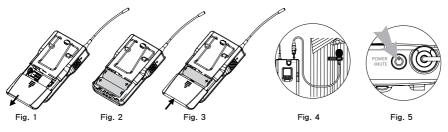
The Mute button on the hand-held unit also triggers the power-on. That's why the unit is on as soon as the batteries are replaced. Therefore, if you do not wish to turn on after changing the batteries, keep the Mute switch on mute.

- 1. Unscrew the outer tube of the transmitter (Figure 1).
- 2. Place 2 AA batteries in the battery compartment while make sure they are in the correct polarities (Figure 2).
- 3. Screw the outer tube on (Figure 3).
- 4. To turn the unit on:
 - a. Push the power button to turn on (Figure 4a), or
 - b. Push the Mute switch up also to turn the unit on (Figure 4b).
- 5. Set the transmitter parameters according to the instructions.



Rữ-850LTB

- 1. Slide the battery holder cover downwards (Figure 1).
- 2. Place 2 AA batteries in the battery compartment while make sure they are in the correct polarities (Figure 2).
- 3. Slide the battery compartment cover upwards to close (Figure 3)
- 4. According to the type of microphone, insert the 4-pin mini XLR jack in MIC IN to complete the installation (Figure 4).
- 5. Push the Power button to turn the unit on (Figure 5).
- 6. Set the transmitter parameters according to the instructions.



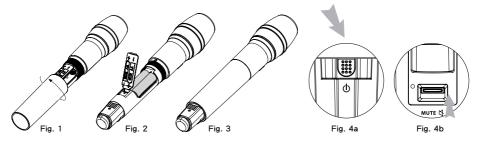
5-3 Transmitter installation // RU-G3TH/RU-G3TB

The Mute button on the hand-held unit also triggers the power-on. That's why the unit is on as soon as the batteries are replaced. Therefore, if you do not wish to turn on after changing the batteries, keep the Mute switch on mute.

1. Unscrew the outer tube of the transmitter (Figure 1).

2. Place 2 AA batteries in the battery holder while make sure they are in the correct polarities (Figure 2).

- 3. Screw the outer tube on (Figure 3).
- 4. To turn the unit on:
 - a. Push the power button to turn on (Figure 4a), or
 - b. Push the Mute switch up also to turn the unit on (Figure 4b).
- 5. Set the transmitter parameters according to the instructions.

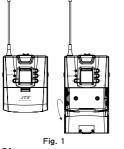


RU-G3TB

- 1. Slide the battery holder cover downwards (Figure 1).
- 2. Place 2 AA batteries in the battery holder while make sure they are in the correct polarities (Figure 2).
- 3. Slide the battery holder cover upwards to close (Figure 3)
- 4. According to the type of microphone, insert the 4-pin mini XLR jack in MIC IN to complete the installation (Figure 4).

Fig. 3

- 5. Push the Power button to turn the unit on (Figure 5).
- 6. Set the transmitter parameters according to the instructions.





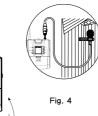




Fig. 5

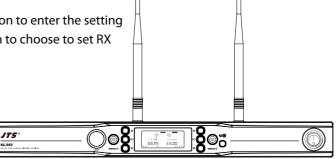
21

6. Instructions for use

6-1 How to use // Rũ-992

Parameter setting

Push and hold the "SET" button to enter the setting mode. Push the \blacktriangle/∇ button to choose to set RX (receiver) or TX (transmitter).



When RX receiver is selected

○ FREQ: frequency setting

In 1MHz	Select frequency with $\blacktriangle/ \mathbf{V}$
In 0.025MHz	Select frequency with $\blacktriangle/ \mathbf{V}$



Select the number of frequency first in MHz and then in 0.025MHz.

O Group / channel

G: group	Select default group 1~6
CH: channel	Select default channel, 1~22 max



Select the group when "G" is flashing; select the channel when "CH" is flashing.

O Channel scan

SC oFF	This means the function is deactivated.
SC on	This means the function is activated. Scan will stop at the 1st available channel.

Note: this function works only in the preset mode.



This function is deactivated.

O Audio output attenuation (XLR)

At oFF	No attenuation at audio output
At on	20dB attenuation at audio out- put (depending on whether the transmitter is provided with the corresponding function).

◎ SQ Receiving sensitivity

-5~+10dB; select SQ with ▲/▼	-5 is the maximum sensitivity.
	+10 is the minimum sensitivity.
	The default setting is 0.



The function is activated with 20dB of audio output attenuation.



It shows the SQ is 0dB (default setting).

When TX transmitter is selected:

◎ ATT microphone audio input attenuation

At oFF	No attenuation at audio input
At on	20dB attenuation at audio input
(Only for RU-850LTB.)	



This function is deactivated.

O Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+12dB
	GAIN:+9dB
	GAIN : +6dB
	GAIN:+3dB
	GAIN: 0dB
	GAIN:-3dB
	GAIN:-6dB
	GAIN:-9dB
	GAIN:-12dB
	GAIN:-15dB



It shows the microphone input sensitivity is now at 0dB (default setting).

O ATOF: Automatic microphone off countdown under mute status

OFF	This function is deactivated
1	1 minute countdown to turn off
10	10 minute countdown to turn off
30	30 minute countdown to turn off



This function is deactivated.

(The default setting is 10 minute.)

◎ RFP: RF microphone power

The transmitter comes with 2 stages of RF power output (as per local regulations).

rF Lo	10mW
rF Hi	50mW



This shows that the RF output is LOW (10mW).

\bigcirc RC (Remoset Configuration)

rC-FrE	Only frequency and group setting will be synchronized
rC-ALL	All data setting will be synchronized
(The default setting is rC-FrE.)	

MUTE ATT.ON	TX MUTE
д / сн 5	
RF AF MHZ	re-FrE

Only frequency and group setting will be synchronized.

Volume adjustment

In non-setting mode, adjust the volume from 0 to -31dB using the \blacktriangle/∇ button.

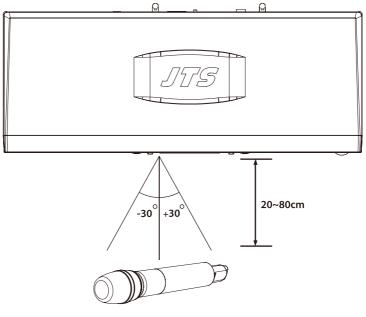
- The minimum volume is -31 dB.
- The maximum volume is 0 dB.
- The default setting is -10 dB.

MUTE ATT.ON	MUTE
д I сн 5	
620.875	-6
RF AF MHz	VOLUME dB AF RF

Minimum volume at -31db; maximum volume at 0dB.

Pairing **REMOSET ũ**

Once the parameters are set, push the "**REMOSET** i "button and the digital pairing data will be sent to the transmitter via ultrasonic transmitter for parameter synchronization. The indicator will flash rapidly while the data are being transmitted. When the synchronization is completed, the receiver will receive the corresponding data and the indicator will stop flashing. If the signal is not received for a certain period of time, the indicator will flash slowly to inform pairing failure (the slowly flashing indicator can be reset by pushing any button).



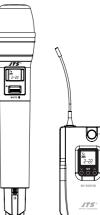
Note: The best pairing distance is 30cm, ±30°.

Others

The transmitter's battery level is also shown on the LCD display. If the battery level is \leq 2V, the frame around the battery level will flash and the backlight turns into red as a warning.

6-2 How to use // Rũ-850LTH / Rũ-850LTB

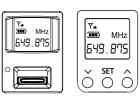
Parameter setting -





© FREQ: frequency setting

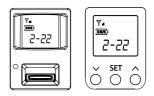
In 1MHz	Select frequency with $\blacktriangle/ igvee$
In 0.025MHz	Select frequency with $\blacktriangle/ \mathbf{V}$



Select the number of frequency first in MHz and then in 0.025MHz.

O Group / channel

(
G: group	Select default group 1~6
CH: channel	Select default channel, 1~22
CH. Channel	Select default charmer, 1~22
	maxSelect default channel,
	1~22 max



Select the number for group and then the number for channel.

O ATT microphone audio input attenuation

Att oFF	No attenuation at audio input
Att on	20dB attenuation at audio input
(Only for RU-850LTB.)	



It shows the audio input attenuation at 20dB.

◎ Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+12dB
	GAIN:+9dB
	GAIN : +6dB
	GAIN:+3dB
	GAIN: 0dB
	GAIN:-3dB
	GAIN:-6dB
	GAIN:-9dB
	GAIN:-12dB
	GAIN:-15dB

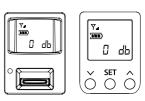
◎ RFP: RF microphone power

10mW

50mW

rFP Lo

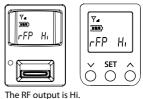
rFP Hi



It shows the sensitivity is now at GAIN 0dB (default setting).

 $\begin{bmatrix} \mathbf{y}_{\bullet} \\ \mathbf{x}_{\bullet} \\ \mathbf{x}_{$

The RF output is LOW.



O AUTO-OFF: Automatic microphone off countdown under mute status

OFF	This function is deactivated
1	1 minute countdown to turn off
10	10 minute countdown to turn off
30	30 minute countdown to turn off

(The default setting is 10 minute.)

◎ Key Lock

Loc on	Lock ON
Loc oFF	Lock OFF













6-3 How to use// RU-G3TH/ RU-G3TB

Push and hold the SET button for 2 seconds to enter the setting mode, and push the \blacktriangle / ∇ button to select different parameters. Push the SET button again to save and exit the setting mode.

\bigcirc FREQ: frequency setting

In 1MHz	Select frequency with $\blacktriangle/ igvee$
In 0.025MHz	Select frequency with $\blacktriangle/ igvee$



Select the number of frequency first in MHz and then in 0.025MHz.

O Group / channel

G: group	Select default group 1~6
CH: channel	Select default channel, 1~23
	maxSelect default channel,
	1~23 max



Select the number for group and then the number for channel.

◎ Microphone input sensitivity

Normal	GAIN:+15dB
sensitivity	GAIN:+14dB
	GAIN∶ ≀
	GAIN:+2dB
	GAIN:+1dB
	GAIN: 0dB (default)
	GAIN:-1dB
	GAIN:-2dB
	GAIN: ≀
	GAIN:-14dB
	GAIN:-15dB

◎ ATT microphone audio input attenuation

Att oFF	No attenuation at audio input
Att on	20dB attenuation at audio input

Only for RU-G3TB



It shows the sensitivity is now at GAIN 0dB (default setting).



It shows the audio input attenuation at 20dB.

\bigcirc RFP: RF microphone power

rFP Lo	10mW(default)
rFP Hi	50mW





The RF output is LOW.

The RF output is Hi.

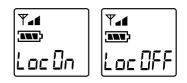
\odot AUTO-OFF: Automatic microphone off countdown under mute status

OFF	This function is deactivated
1	1 minute countdown to turn off
10	10 minute countdown to turn off
30	30 minute countdown to turn off

(The default setting is 10 minute.)

◎ Key Lock

Loc On	Lock ON
Loc OFF	Lock OFF



7 O

111

Others

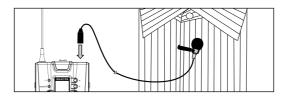
Battery charging is supported. The transmitter turns off automatically when charging. When battery is < 1.8V, the transmitter will turn off automatically.

If the microphone is turned off with the mute switch on mute, just slide the mute switch up to turn the microphone on.

6-4 Installation of Condenser Microphones

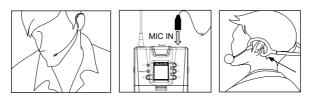
(1) Lavaliere microphone

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



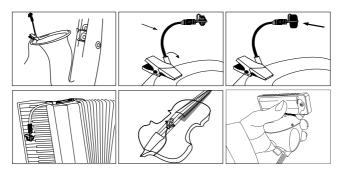
(2) Headset microphone

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



(3) Instrument Microphones

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



(4) Ear-hook Microphone

1. Lightweight Dual Ear Hook Microphone

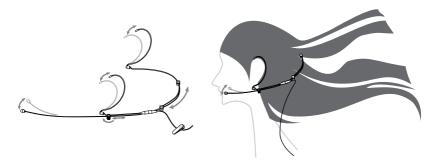
Try on whether the headset is fit.

Adjust the headband to a suitable width.

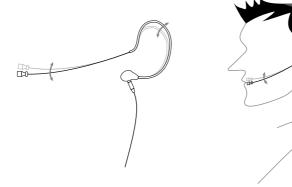
Tighten or loosen the curve of the ear-hook by twisting the loop or expanding it.

Curve and bend the boom to fit your face.

Attach the detachable cable to a suitable place by a cable clip.



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. Notes for the product

- (1) For the best signal receiving quality, always keep the receiver within 3m of the transmitter.
- (2) The receiver and transmitter shall be away from other metal objects, preferably 50cm or farther.
- (3) Do not point the microphone directly to a speaker, or there will be feedbacks. It is recommended to hold the transmitter (microphone) at the middle section for the best pickup.
- (4) In case that the transmitter will not be in use for an extended period of time, the batteries shall be removed from the battery holder to prevent damage to the transmitter due to leak of battery electrolyte solution.
- (5) For the best power performance, it is recommended to change both batteries or use the products of the same manufacturer when they are to be changed.

Instruction Manual CM-501 / CM-502 / CX-506 / CX-508 / CX-504

Thank you for choosing the **JTS**[®] condenser microphones. In order to obtain the best efficiency for your performance, you are recommended to take few minutes to read this instruction manual carefully.

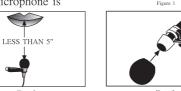
CM-501 Condenser lavalier microphone

Features

- The wide dynamic range and frequency response ensure clean, accurate sound reproduction.
- There are 2 capsules type for choosing: uni-direction polar pattern and omni-direction polar pattern.
- The Uni-direction polar pattern ensures the best gain-before-feedback and with the omni-direction polar pattern, the microphone provides a natural sound effectively.
- The built-in power module provide easy operation.

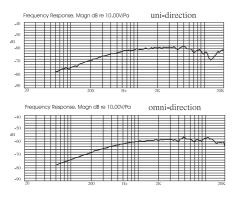
Use Instruction

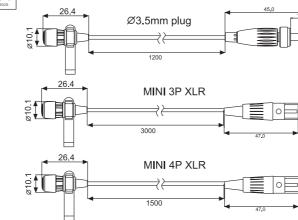
- 1. Attach a lavalier microphone to the proper position of a speaker's jacket or dress. (Figure 1)
- 2. The optimal distance of sound pickup between sound source and lavalier microphone is
- within 5 ". (Figure 2)
- 3. Slip the windscreen on the head of microphone to reduce wind noise or popping noise. (Figure 3)



Specifications

Polar pattern	Uni-direction			Omni-direction				
Output connector	3P XLR	MINI 3P XLR	Ø3.5mm Plug	MINI 4P XLR	3P XLR	MINI 3P XLR	Ø3.5mm Plug	MINI 4P XLR
Freq. response	100 ~ 12,000Hz							
Impedance	$220\Omega\pm30\%$	$2.2k\Omega{\pm}30\%$	$2.2k\Omega\pm 30\%$	2.2kΩ±30%	$220\Omega\pm30\%$	2.2k±30%	$2.2k\Omega\pm30\%$	2.2kΩ±30%
Sensitivity(at 1,000Hz)	-60±3dB	-70±3dB	-70±3dB	-70±3dB	-60±3dB	-62±3dB	-62±3dB	-62±3dB
Max. SPL for 1% THD	130dB							
Accessories	Clothing clip, Windscreen							





CM-502 Condenser hanging microphone

Features

- The CM-502 is a condenser microphone with a supercardioid polar pattern, it features wide dynamic range and frequency response for accurate sound reproduction.
- High sensitivity allows sound pickup smartly.
- Attaching flexible mic. hanger benefits microphone in the proper orient of sound source.

Installation of mounting plate

- 1. Pass microphone through the hole in the center of mounting plate as (Figure 1).
- 2. Adhere the sticker to the reserve side of the plate to cover the hole. Pass cable through one
- fissure on the sticker and adhere the sticker to the relief outline on the plate center. (Figure 2) 3. Select the suitable cable length, then pass the cable through the chip at the plate rim, finally fix the plate on the ceiling or wall by 4 screws. (Figure 4)

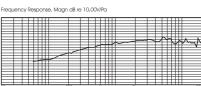
Use Installation

[1.] To find out the best position for fixing microphone.

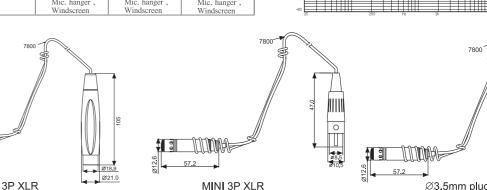
- The optimum sound accepting range is within 120° in horizontal space. (Fig.5)
- Proper distance between microphone and front sound source is less than 100 cm, and less than 250 cm to the rear source (Fig.5)
- If more than 2 microphones will be used simultaneously in the same environment, keep the latter microphone 300 cm far from the former one. (Fig.6)
- To aim the microphone between the front source and the rear source for well-balanced sound pickup.
- [2.] To wind the wire around flexible hanger for holding microphone toward the suitable direction. (Fig.7)
- [3.] To slip windscreen over the head of microphone for prevent breath or popping noise. (Fig.8)

Specifications

Output connector	3P XLR	MINI 3P XLR	Ø3.5mm Plug
Freq. response	100 ~ 18,000Hz	100 ~ 18,000Hz	100 ~ 18,000Hz
Polar pattern	Supercardioid	Supercardioid	Supercardioid
Impedance	$220\Omega\pm30\%$	$2k\pm 30\%$	$2k\pm 30\%$
Sensitivity(at 1,000Hz)	-48±3dB	-66±3dB	-66±3dB
Max. SPL for 1% THD	125dB	125dB	125dB
Accessoies	Mic. hanger, Windscreen	Mic. hanger, Windscreen	Mic. hanger, Windscreen







CX-506 Condenser drum & percussion microphone

Features

- CX-506 features a frequency response specially designed for drum and percussion miking.
- Clamp with elastic grip benefits secure holding but causes no damage on the instrument.
- Self-contained electronics eliminate need of external power modules.

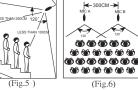
Use Instruction

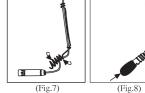
1. Clamp the microphone to the ring of the drum. (Figure 1)

- 2. Adjust the mic. shaft to aim microphone at precise sound source position, recommended distance between the microphone and the drum surface is 2 inches. ((Figure 2)
- 3. Slip the windscreen on the head of microphone to reduce wind noise effectively. (Figure 3)









1.

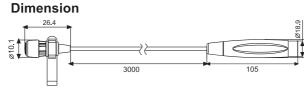


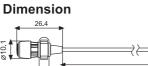


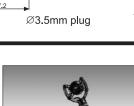


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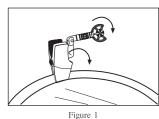


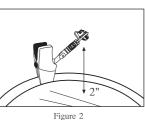


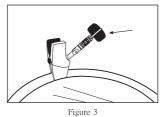






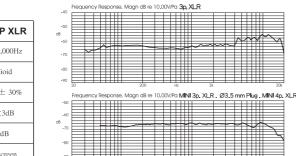


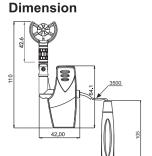




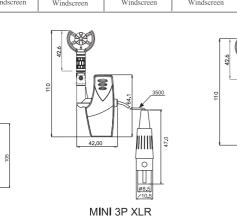
Specifications

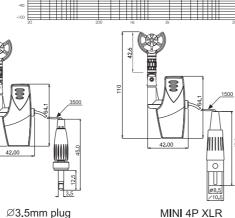
Output connector	3P XLR	MINI 3P XLR	Ø3.5mm Plug	MINI 4P XLR
Freq. response	50 ~ 18,000Hz	50 ~ 18,000Hz	50 ~ 18,000Hz	50 ~ 18,000Hz
Polar pattern	Cardioid	Cardioid	Cardioid	Cardioid
Impedance	$220\Omega\pm30\%$	$680\Omega \pm 30\%$	$680\Omega\pm30\%$	$680\Omega\pm30\%$
Sensitivity(at 1,000Hz)	-64±3dB	-74±3dB	-74±3dB	-66±3dB
Max SPL for 1% THD	130dB	130dB	130dB	130dB
Accessory	Windscreen	Windscreen	Windscreen	Windscreen





3P XLR





CX-508 Condenser wind instrument microphone

Features

- Flat response with slide peak of high frequency ensures natural and bright sound delivery.
- Good plastic gooseneck together with adjustable axis allow locating microphone in precise position on the bell of a horn.
- Clamp rim with elastic finish ensures tight holding and prevent leaving vestiges in the instrument.

Use Instruction

- 1. Attach the clamp to the desired location on the bell of instrument. (Figure 1)
- 2. Adjust gooseneck and rotary axis to a proper angle for sound pickup. (Figure 2)
- 3. Slip windscreen on microphone head to prevent wind noise. (Figure 3)





Figure 1



Figure 3

Figure 2

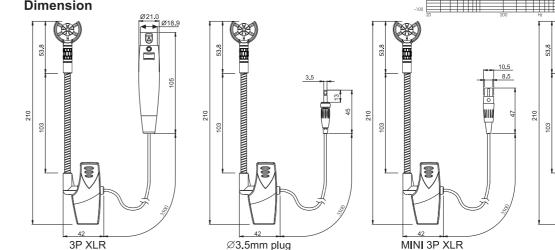


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Specifications

Output connector	3P XLR	MINI 3P XLR	Ø3.5mm Plug	MINI 4P XLR
Freq. response	50 ~ 18,000Hz	50 ~ 18,000Hz	50 ~ 18,000Hz	50 ~ 18,000Hz
Polar pattern	Cardioid	Cardioid	Cardioid	Cardioid
Impedance	$220\Omega\pm30\%$	$680\Omega\pm30\%$	$680\Omega\pm30\%$	$680\Omega\pm30\%$
Sensitivity(at 1,000Hz)	-64±3dB	-74±3dB	-74±3dB	-66±3dB
Max. SPL for 1% THD	130dB	130dB	130dB	130dB
Accessories	Windscreen	Windscreen	Windscreen	Windscreen

Dimension



CX-504 Condenser Stage Headset Microphone

Features

• Flat response with slide peak of high frequency ensures natural and bright sound delivery. • Excellent shock-mount design ensures superior isolation from movement and vibration.

• Lightweight and ergonomic design ensures comfortable wearing.

Use Instruction

- 1. Put on the headset, make the neck-frame behind your head and the temples fix on ears as show (Figure 1).
- 2. Adjust gooseneck to aim the microphone toward a suitable place for sound pick-up. (Figure 2)
- 3. Plug the connector into the input socket of body-pack transmitter, then turn on the power for operation. (Figure 3)

Specifications

Type: Electret condenser Polar pattern: Cardioid Frequency response:50 ~ 18,000Hz Impedance:680 $\Omega \pm 30\%$ Sensitivity : -66dB/0.5mV at 1,000 Hz Max. Input SPL: 130 dB

Output connector: MINI 4P. XLR (F) type

Accessory

Windscreen

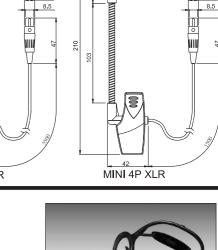




figure 2

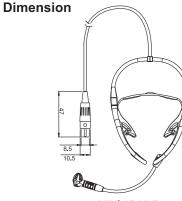
figure 1

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onse Maan d8 re 10.00V/P

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Frequency Response, Magn dB re 10.00V/Pa 3p XLR

requency Response, Magn dB re 10.00V/Pa MINI 3p. XLR . Ø3.5 mm Plug . MINI 4p. XLR