

US-36G2 / Mh-36G2 / PT-36BG2





UHF PLL

US-36G2

Instruction Manual





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1. Important Caution

- Always make all connections before plugging the unit into an AC power outlet.
- Do not leave the devices 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.

2. Features

- Due to the PLL synthesized technology, the system can offer up to 1441 selectable frequencies for choosing simultaneously.
- 6 groups, maximum 23 channels in one group.
- The true diversity reception with 2 independent RF receivers ensure the stable transmission and reception.
- Adjustable Pilot tone squelch control can effectively reduce the noise.
- Equipped with S.A.W. filter benefits the interference-resistant.
- Tuned antennas can benefit the stable RF reception.
- Built-in Noise Squelch circuity & Mute function are available to restrain the interference for signals.
- Rugged metal housing can pass through the difficult environment.
- Equipped with balanced XLR and balanced output allow great convenience.
- Anti-interference design is available to work with every computer device.
- Transmission power selectable between 10 and 50mW (depends on local regulation).

3. Specification

3-1 Receiver // US-36G2

Frequency Preparation...... PLL Synthesized Control Carrier Frequency Range 470.0~607.950MHz, 614.050~697.950MHz S/N Ratio..... > 105dB T.H.D.....<0.6%@1KHz Display..... LCD / LED Display Contents...... Group, Channel, Frequency, Antenna A/B, Mute Display, AF Meter (LED BAR), RF Meter (LED BAR), Battery Status Frequency Scan, Audio Level, Lock-on, Output Pad Audio Output Level.....-12dB AF Output Impedance...... 600Ω Squelch......Pilot Tone & Noise Mute Operation Voltage...... 12V, 500mA Output Connector...... 1 XLR Balanced Socket 1 Ø6.3mm Unbalanced phone jack

3-2 Handheld Transmitter // Mh-36G2

3-3 Body-pack Transmitter // PT-36BG2

3-4 Optional Condenser Microphone

Lavaliere Microphone

Model No	CM-501	CM-201i	CM-125i
Connector	4P Mini XLR	201C4 (4P Mini XLR)	201C4 (4P Mini XLR)
Option Connector		201C3 (3P Mini XLR)	201C3 (3P Mini XLR)
		201CS (3.5 stereo plug)	201CS (3.5 stereo plug)
		201CR	201CR
Frequency Response	100~15,000 Hz	60~15,000 Hz	50~18,000 Hz
Polar Pattern	Cardioid	Omni-directional	Omni-directional
Sensitivity (at 1000Hz)	-60±3 dB	-60±3 dB	-53±3 dB
Impedance	$2.2k\Omega$	$2.2k\Omega$	$4.4k\Omega$
Max. SPL for 1% THD	130dB	130dB	130dB
Dimension(mm)	Ø10.1mm(W)	\emptyset 5mm(W)*9mm(H)	\emptyset 4mm(W)*11mm(H)
	* 26.4mm(H)		
Net Weight	21.5g	20.7g	7g (cable excluded)

Headset Microphone

Model NoConnector		CM-214U 4P Mini XLR	CM-214UL 801C3 (3P Mini XLR) 801C4 (4P Mini XLR) 801CS (3.5 stereo plug)
Option Connector	801C3 (3P Mini XLR) 801CS (3.5 stereo plug) 801CR		801CR
Frequency Response	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	1.8 k Ω	680Ω	1.8kΩ
Max. SPL for 1% THD	130dB	130dB	120dB
Dimension(mm)	125mm(W)	205mm(W)	125mm(W)
	* 134mm(H)	* 134mm(H)	* 134mm(H)
	* 157mm(D)	* 157mm(D)	* 157mm(D)
Net Weight	32.9g	38.4g	18g (cable excluded)

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

Ear-hook Microphone

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

Compatible Instrument Microphone

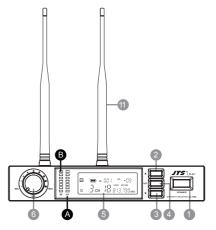
Model No	CX-500	CX-500F	CX-520
Connector	4P Mini XLR	4P Mini XLR	4P Mini XLR
Frequency Response	20~20,000 Hz	20~20,000 Hz	50~16,500 Hz
Polar Pattern	Omni-directional	Omni-directional	Supercardioid
Sensitivity (at 1000Hz)	-58±3dB	-58±3dB	-78±3dB
Impedance	1.5kΩ	1.5 k Ω	600Ω
Max. SPL for 1% THD	130 dB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

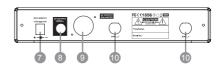
Model No	CX-508W	CX-516W
Connector	4P Mini XLR	4P Mini XLR
Frequency Response	50~18,000 Hz	30~18,000 Hz
Polar Pattern	Cardioid	Cardioid
Sensitivity (at 1000Hz)	-67±3 dB	-67±3 dB
Impedance	220Ω	220Ω
Max. SPL for 1% THD	130 dB	130 dB
Good For	Winds	Accordion

4. Parts Identification & Accessories

4-1 Receiver // US-36G2

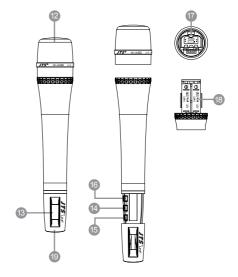
- Power On/Off switch
- 2 Up button (frequency adjustment)
- 3 Down button (frequency adjustment)
- 4 Set button (frequency adjustment)
- 6 LCD Display
- Olume control
- 7 DC socket for connection of main unit
- 8 AF output, jack socket (AF UNBAL)
- Balanced XLR socket
- 10 Antenna input socket
- Antenna
- A AF signal level
- **B** RF signal level





4-2 Handheld Transmitter // Mh-36G2

- Interchangeable capsule
- LCD display
- Down button
- (15) UP button
- 16 Set button
- Battery tray button
- 18 Battery tray
- 19 Power On/Off switch

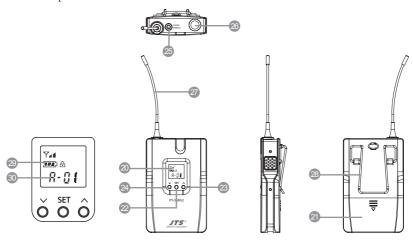


4-3 Body-pack Transmitter // PT-36BG2

- LCD Display
- 21 Battery Tray
- Set button: set the configuration of bodypack transmitter
- Up button: select the settings of transmitter
- ② Down button: select the settings of transmitter
- 25 Power Switch / Mute
- 4 Pin mini XLR mic. input
- 27 Antenna
- Belt Clip

LCD Panel of the Body-Pack Transmitter

- Battery status: display battery status
- 30 Group & Channel

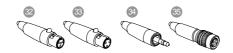


4-4 Optional Condenser Microphone

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

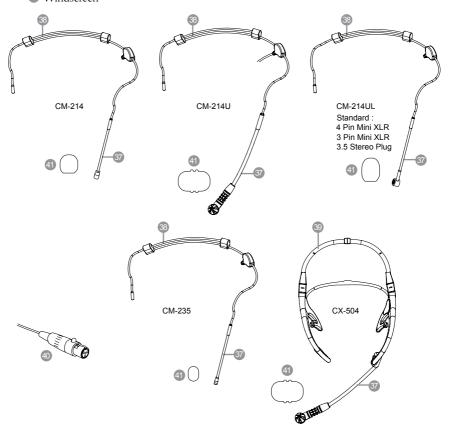
- Clip
- 2 4 Pin Mini XLR
- 3 Pin Mini XLR Option
- 34 3.5 Stereo Plug Option
- 35 4Pin Hirose connecter Option
- 33 Windscreen



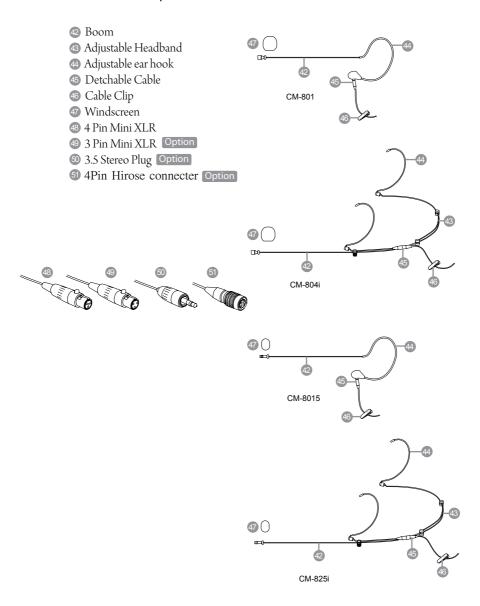


Headset Microphone // CM-214 / CM-214U / CM-214UL / CM-235 / CX-504

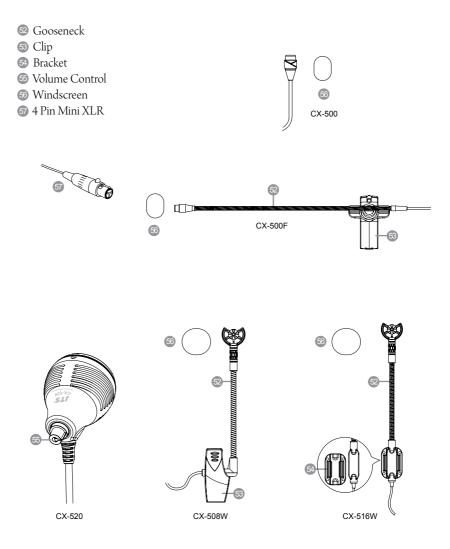
- Gooseneck
- 3 Adjustable headband
- 39 Headband
- 4 Pin Mini XLR
- 41 Windscreen



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

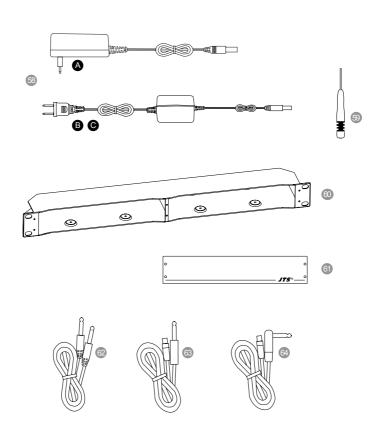


Compatible Instrument Microphone // CX-500 / CX-500F / CX-520 / CX-508W / CX-516W



4-5 Accessories

- - A Switching Power Supply (100V~240V, 50~60Hz)
 - B Linear Power Supply (220V, 50Hz) Option
 - © Linear Power Supply (220V, 60Hz) Option
- Screwdriver
- @ DR-900 Dual Rack Adaptor Option
- 61 RP-900 Panel Cover Option
- \bigcirc AF output cable (with Φ6.3 plug at both ends)
- 63 GC-80/GC-100 Guitar Cable Option
- 64 GC-80L/GC-100L Guitar Cable Option



5. Preparing Procedures & Basic Operation

5-1 Receiver // US-36G2

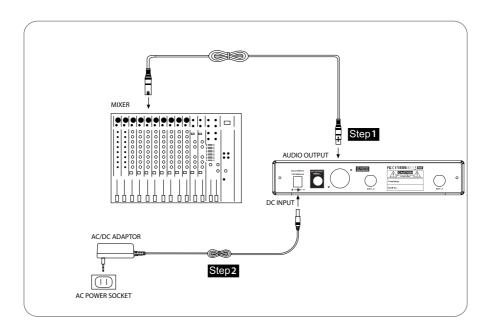
(1) Power output connector

Plug in one end of AC/DC adaptor cable to DC input socket in the rear panel of receiver, and plug another end into an AC outlet. (Step 1)

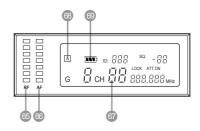
(2) Audio Output Connector

Connect one end of the AF output cable to the AF output socket in the rear panel, then plug another end to the "MIC IN" input socket of a mixer or amplifier.(Step 2)

Receiver equipped with balanced XLR output and Unbalanced ϕ 6.3mm output, choose the proper way for use.



- (3) LCD panel
 - ® RF signal level
 - 6 AF signal level
 - 67 Main display
 - 🚳 Diversity display (A or B antenna)
 - Battery gauge of the transmitter



Basic operation

POWER Turning the receive on and off by pressing the POWER button.

SET Press the SET button for 3 seconds to select group/frwquency scan, squelch, and output level.

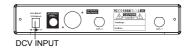
> Press the SET button again to store once you make any changes. Press the UP or DOWN button to adjust the setting.

- (4) Setting the rubber pad
 - Four self-adhesive rubber pads are provided to ensure the stability.
 - They are to be placed on the bottom side of the receiver.



- (5) Connecting the antennas
 - The user-friendly receiver antenna comes with easy mount on socket for effortless connection. Connect two antennas on the back of the receiver and align them upward.
- (6) Connecting the main unit Plug in the DC connector on the back of the receiver (DCV INPUT).
- (7) Connecting the amplifier/mixer console Plug in the amplifier/mixer console to the (AF OUT UNBAL / BAL) sockets.

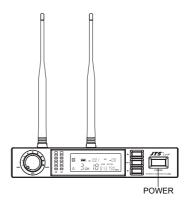




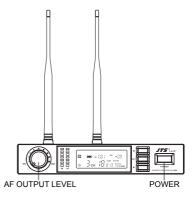


(8) Turning the receiver on/off

Turn the receiver on by pressing the Power button.



(9) Adjusting the AF output level Use the AF output level control located on the front side of the receiver to adjust AF signal level that appears at output.



(10) Dual Rack Adaptor set

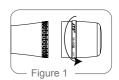
The dual rack adaptor is available to unify the half rack space into a standard EIA size with single or dual units.



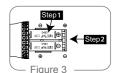
5-2 Handheld Transmitter // Mh-36G2

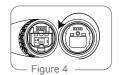
- (1) Turning the transmitter on/off The on/off switch is located on the bottom of the microphone.
- (2) Inserting and changing the battery
 - 1. Loosen the microphone head counter-clockwise. (Figure 1)
 - 2. Push both battery tray button to release it. (Figure 2)
 - 3. Insert 2 pieces of UM-3 1. 5 V batteries, remember to match correct polarity. (step1 of Figure3)
 - 4. Push the battery tray back. (step2 of Figure3)
 - 5. Aim the connectors exactly for screwing on the microphone head clockwise. (Figure 4)
- (3) LCDpanel
 - Main display
 - Battery indicator







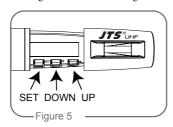




- (4) Press the SET button to select between frequency /group/ sensitivity / RF outputs.
 - 1. Frequency adjusting

Press the UP or DOWN button to adjust the setting of a menu.

- 1-1 Hold SET button for 3 seconds to activate frequency.
- 1-2 Once you see "MHz" blinking, you are ready to select your desired frequency by using UP and DOWN buttons.
- 1-3 Press the SET button again to store your changes.
- 2. Group adjusting
 - 2-1 Press "Set" button 6 for 3 seconds, the group (G) will flash. (Figure 5)
 - 2-2 Presss" ▲Up ⓑ " or "▼Down ⑭ "button to select a desired group.
 - 2-3 Press "Set" again and the Channel (CH) will flash.
 - 2-4 Press "▲Up" or "▼ Down" button to select a desired channel.
 - 2-5 After setting, press "Set" again to save the setting.
- 3. Sensitivity adjusting
 - 3-1 Press the SET button twice to select sensitivity. Lasting for 3 seconds at the first press, then 1 second for the second press, and the display appears 5E n 5 · E .
 - 3-2 Use UP and DOWN buttons to adjust changes.
 - 3-3 Finally press SET button again to store your changes.
- 4. RF Outputs adjusting
 - 4-1 Push the "Set" button 📵 several times until the "rF Lo" or "rF Hi" flashes.
 - 4-2 Then push "▲Up ⑤ " to choose "Hi" for high transmitting power and push "▼ Down ⑥ "to choose "Lo" for low transmitting power.
 - 4-3 Selectable transmission power betwem 10mW & 50mW.
 - 4-4 Push the "Set" again to save the setting.

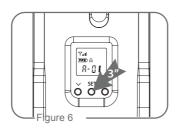


5-3 Body-pack Transmitter // PT-36BG2

- (1) Press the SET button to select between frequency /group/ sensitivity / RF outputs. (depends on country)
- 1. Frequency adjusting

Press the UP or DOWN button to adjust the setting of a menu.

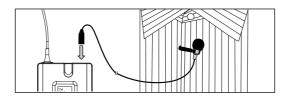
- 1-1 Hold SET button for 3 seconds to activate frequency.
- 1-2 Once you see "MHz" blanking, you are ready to select your desired frequency by using UP and DOWN buttons.
- 1-3 Press the SET button again to store your changes.
- 2. Group adjusting
 - 2-1 Press "Set" button ② for 3 seconds, the group (G) will flash. (Figure 6)
 - 2-2 Presss" ▲Up ❷ " or "▼Down ❷ "button to select a desired group.
 - 2-3 Press "Set" again and the Channel (CH) will flash.
 - 2-4 Press "▲Up" or "▼ Down" button to select a desired channel.
 - 2-5 After setting, press "Set" again to save the setting.
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 - 3-1 Press the SET button twice to select sensitivity. Lasting for 3 seconds at the first press, then 1 second for the second press, and the display appears 5E n5 i E .
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 - 4-4 Push the "Set" again to save the setting.



5-4 Installation of Condenser Microphones

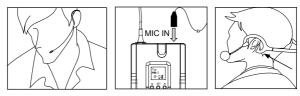
(1) Lavaliere microphone

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.



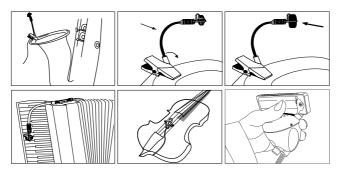
(2) Headset microphone

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.



(6) Ear-hook Microphone

1. Lightweight Dual Ear Hook Microphone

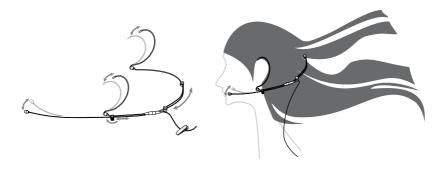
Try on whether the headset is fit.

Adjust the headband to a suitable width.

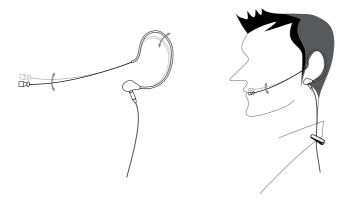
Tighten or loosen the curve of the ear-hook by twisting the loop or expanding it.

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.



6. 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.

7. 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.

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device