

Wireless Microphone, Receiver and Walkie-Talkie

SocialTalkie

E1

USER GUIDE

Contents

1	Read before using the product	7
1.1	Liability for illegal acts.....	7
1.2	FCC licensing information.....	7
1.3	Important notice.....	8
1.4	Important safeguards	9
1.4.1	Beware of safety accidents.....	9
1.4.2	Be careful of product damage or malfunction	10
1.4.3	Please note the following use guidelines.....	10
1.5	Component.....	12
1.5.1	Components included in the Basic Package.....	12
1.5.2	Tx Pack	12
1.5.3	Rx Pack	13
1.6	Name of Each Part.....	14
2	Prepare before Using.....	15
2.1	Charge.....	15
2.2	Checking the battery life.....	16
2.3	Turn on/off power	16
2.3.1	Turn on	16
2.3.2	Turn off.....	17
2.4	Wear and mount Product	17
2.4.1	Inserting clip.....	17
2.4.2	Mounting on Camera.....	18

2.4.3	Using magnetic attachment	18
2.4.4	Lanyard	20
2.5	Conversion between Wireless Microphone and Walkie-Talkie Function using hot keys 21	
2.5.1	To walkie-talkie mode	21
2.5.2	To wireless mic mode	22
3	Using as Wireless Microphone.....	23
3.1	Transmitter and receiver	23
3.2	Connecting using a Cable pack.....	23
3.2.1	Receiver	23
3.2.2	Transmitter	25
3.3	Start operation.....	26
3.3.1	Transmitter	26
3.3.2	Receiver	26
3.4	Mic Gain / Volume control	27
3.4.1	What's Mic Gain / Volume?	27
3.4.2	Up / Down	27
3.5	How to switch transmitter (Tx)/ receiver (Rx).....	28
3.5.1	Switch to transmitter (Tx).....	28
3.5.2	Switch to receiver (Rx).....	28
3.6	PTT(Push To Talk) Function for two way voice communication.....	29
3.6.1	Voice Communication	29
3.6.2	Temporary Conversion between transmitter(Tx) and receiver(Rx) During interview 29	
3.6.3	Voice Recording of Multiple People in Discussion.....	30

3.7	LED Indication.....	30
3.8	LCD.....	31
3.8.1	Channel.....	31
3.8.2	Internal / External Mic.....	31
3.8.3	Battery level.....	32
3.8.4	Transmitter/receiver indication	32
3.8.5	Type of Transmission.....	32
3.8.6	Mic Gain / Volume.....	32
3.9	How to set up menus.....	33
3.9.1	Enter the menu	33
3.9.2	Move to a menu item	33
3.9.3	Select an item.....	33
3.9.4	Adjust value.....	33
3.9.5	Move to the next value position when value has more than single digit.....	33
3.9.6	Complete setting.....	33
3.9.7	Exit the menu.....	34
3.9.8	Menu items.....	34
3.10	Menu setup in detail.....	35
3.10.1	MODE.....	35
3.10.2	Tx/Rx	36
3.10.3	TYPE of Transmission	37
3.10.4	AUTO CH.....	38
3.10.5	CHANNEL.....	39
3.10.6	PTT.....	40
3.10.7	MIC.....	40

3.10.8	RF POWER.....	42
3.10.9	NOISE CANCEL.....	43
3.10.10	PAIRING.....	44
3.10.11	DEFAULT SET.....	45
3.10.12	VERSION.....	46
4	Using as Walkie-Talkie.....	47
4.1	Earpiece connection.....	47
4.2	Communication.....	47
4.3	LED Indication.....	48
4.4	Volume up/down (10 levels).....	49
4.4.1	Up / Down.....	49
4.5	Use vibration call.....	49
4.5.1	Sending vibration signal to alert the other user.....	49
4.5.2	Receiving call signal.....	49
4.6	Button lock.....	50
4.6.1	Enable button lock.....	50
4.6.2	Disable button lock.....	50
4.7	LCD.....	51
4.7.1	Channel.....	51
4.7.2	Battery level.....	51
4.7.3	Talk Mode.....	51
4.7.4	PTT/VOX.....	51
4.8	How to set up menus.....	52
4.8.1	Enter the menu.....	52

4.8.2	Move to a menu item	52
4.8.3	Select an item.....	52
4.8.4	Adjust value.....	52
4.8.5	Move to the next value position when value has more than single digit.....	52
4.8.6	Complete setting.....	52
4.8.7	Exit the menu.....	53
4.8.8	Menu items.....	53
4.9	Menu setup in detail.....	54
4.9.1	MODE.....	54
4.9.2	TALK MODE	55
4.9.3	CHANNEL.....	56
4.9.4	ID.....	57
4.9.5	PTT/VOX.....	58
4.9.6	VOX LEVEL.....	59
4.9.7	EMERGENCY	60
4.9.8	MIC.....	63
4.9.9	MIC GAIN	64
4.9.10	RF POWER.....	65
4.9.11	CLONE SET	66
4.9.12	DEFAULT SET	68
4.9.13	VERSION.....	68
5	Specifications and Copyright.....	70
5.1	Specifications.....	70
5.1.1	Wireless Mic Mode.....	70
5.1.2	WalkieTalkie Mode.....	70

5.2 Patents, Trademarks or Designs Pending 71

6 Warranty 72

1 Read before using the product

1.1 Liability for illegal acts

Anyone who uses this product for illegal purposes shall be liable and responsible for all and any consequences.

1.2 FCC licensing information

- Federal Communications Commission statement

NOTE: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the user's authority to operate such equipment.

NOTE: Exposure to Radio Frequency Radiation. Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation.

The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.

NOTE: This device complies with part 15 of the FCC Rules.

NOTE: Operation is subject to the following two Conditions:

- ① This device may not cause harmful interference, and
- ② This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This appliance and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.

1.3 Important notice

- This User Guide can be revised without prior notice.
- Manufacturer or seller are not be liable for damage caused by accidents, natural disasters or defects caused by consumer failure while in use.
- Manufacturer or seller are not be liable for any problems that might be caused by a third party as he or she uses the product.
- Manufacturer or seller are not be liable for any problems caused by consumer carelessness as he or she uses the product.
- Images in the User Guide might differ from the actual product.

Specifications can be changed to improve performance without prior notice.

1.4 Important safeguards



Before using the product, read the following cautions carefully.

Product repair is charged even during the warranty period when it is deemed to be the fault of consumer.

1.4.1 Beware of safety accidents

- Check the law about radio and wireless mic usage before using the product.
- Do not use the charger if the product has been hit or dropped.
It may cause any possible damage or electric shock.
- Keep the product away from children.
It can harm their safety, or they may damage the product.
- Do not spray insecticide or flammable liquids on the product.
It can cause a malfunction or fire.
- Do not put the product near flammables or have it touched by them.
They can melt the product and cause an electric shock or fire.
- Do not put the product near airbags.
It can hurt someone when it is deployed.
- Do not charge the product in explosive areas.
Such environments can trigger a short-circuit, which may cause burns or death in some cases.
- After lowering the volume to the minimum, wear the earpiece, then adjust the volume.
High volume can cause hearing loss or heart attack. Higher volume can place more burden on your ears and thus damage your hearing.
- Do not attach unauthorized accessories to the product and then use it.
They can damage the product or cause an accident.
- Do not use any other chargers other than the officially authorized one.
Otherwise, they can damage the product or cause an accident.

1.4.2 Be careful of product damage or malfunction

- Do not knock or drop the product.
Any rough handling can damage the product.
- Do not put anything heavy on the product.
This may cause damage.
- Do not use anything too sharp, like a pencil or a needle when you press a button. It can damage the product.
- Clean the product on a regular basis to prevent it from being clogged with dirt. If the product is not cleaned it can damage the performance or cause malfunctions.
- Do not expose the product to water, alcohol or benzene. They can cause damage or electric shock.
- Do not expose the product to dirt, direct sunlight, high humidity or extreme hot or cold temperatures (including inside a car in summer). Such environments may cause electric shock or damage the product.

1.4.3 Please note the following use guidelines

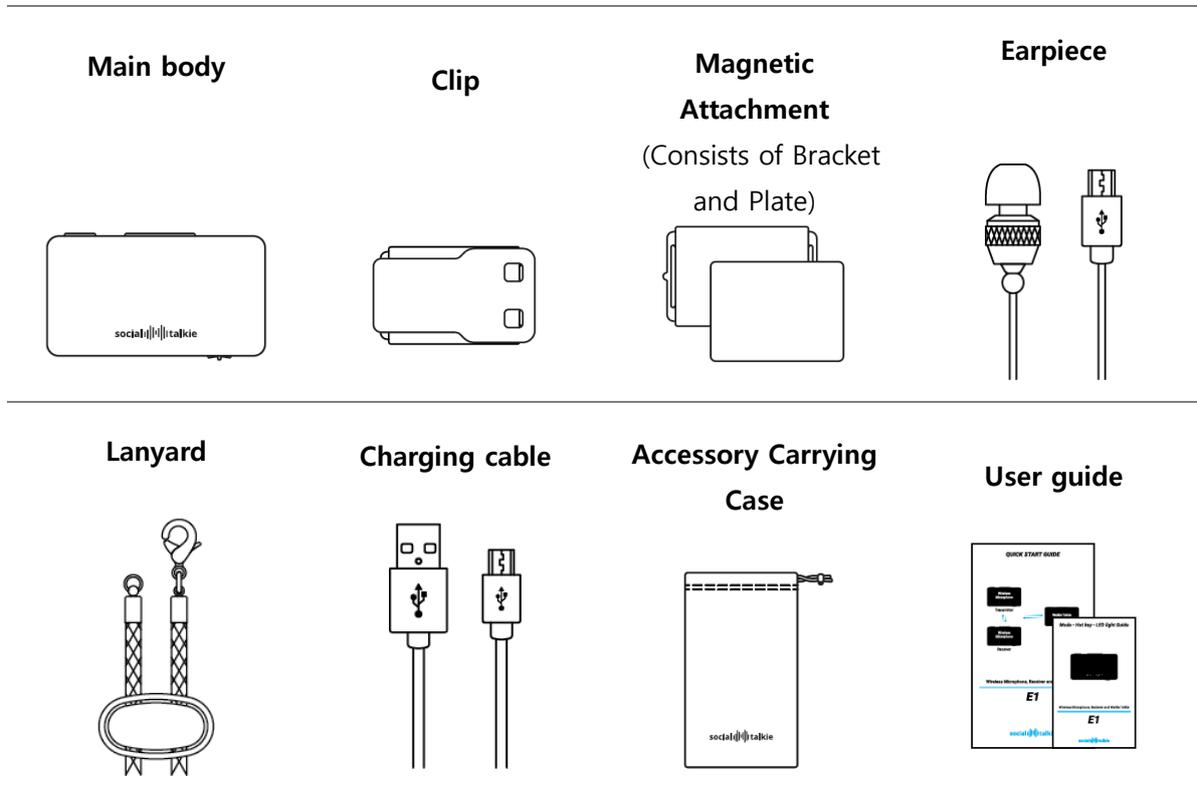
- When you are on an airplane, follow the safety rules and directions of the flight attendants.
- Do not try to dismantle or fix the product on your own.
For any problem to be fixed, call the customer service center or bring the product to a shop.
- Do not tune to any other frequencies other than the allocated ones.
It can be punishable by law.
- Do not hold or cover the antenna with hands.
It may cause performance deterioration.
- Do not use the product for any purpose other than for communication.
Otherwise, it can be punishable by law.
- Do not use the product with any medical equipment and devices nearby.
It can cause unwanted effects or unpleasant noises if you use a hearing aid.
- Do not use the product near electronics.
Electronic waves from the radio can have adverse effects on other products or cause them to

malfunction.

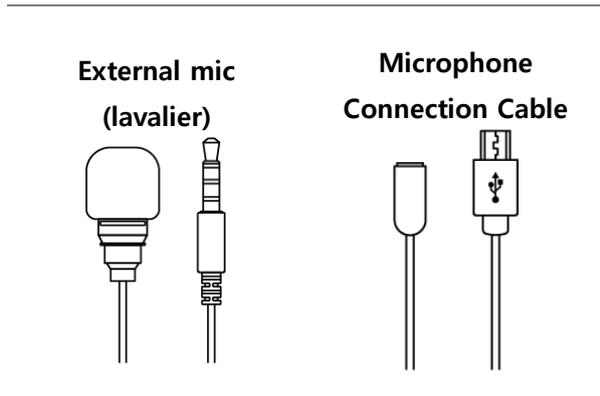
- Communication quality may get worse when you communicate either on the move at a rapid pace or while charging the product.
- The battery is consumable, so it is possible for it to diminish over time.
- Do not keep the product in too low or too high temperatures. It can make its life span shortened dramatically.

1.5 Component

1.5.1 Components included in the Basic Package

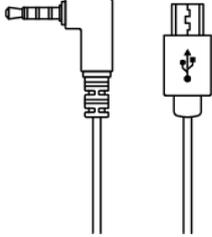


1.5.2 Tx Pack



1.5.3 Rx Pack

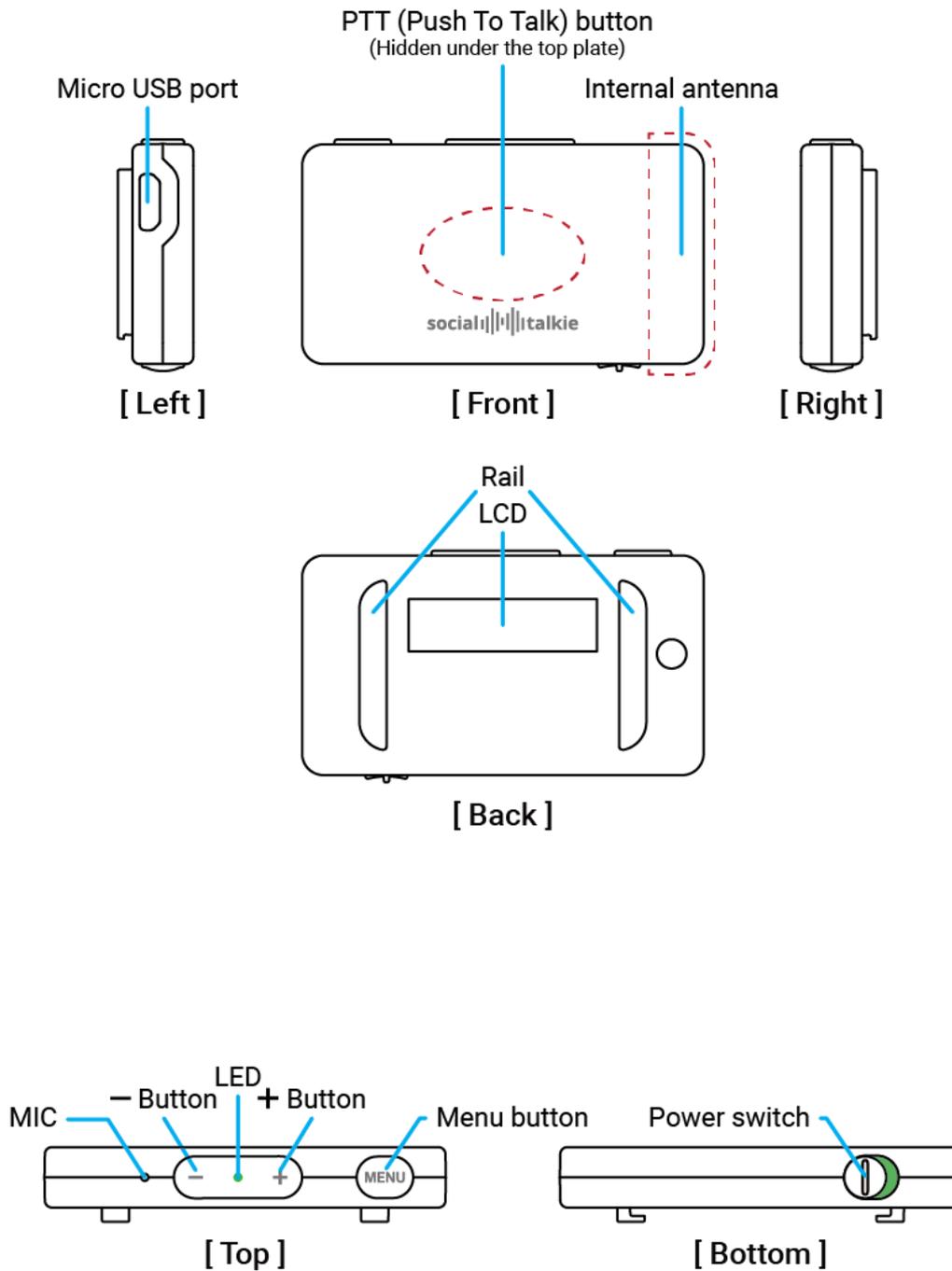
Camera Connection
Cable



TRS to TRRS
Adaptor



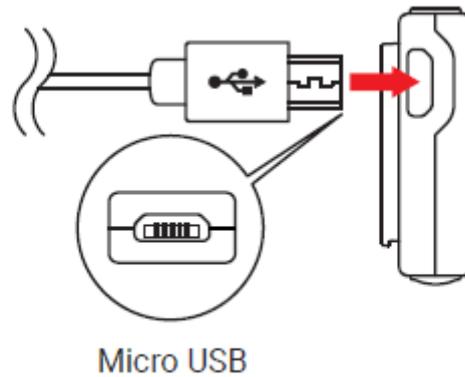
1.6 Name of Each Part



2 Prepare before Using

2.1 Charge

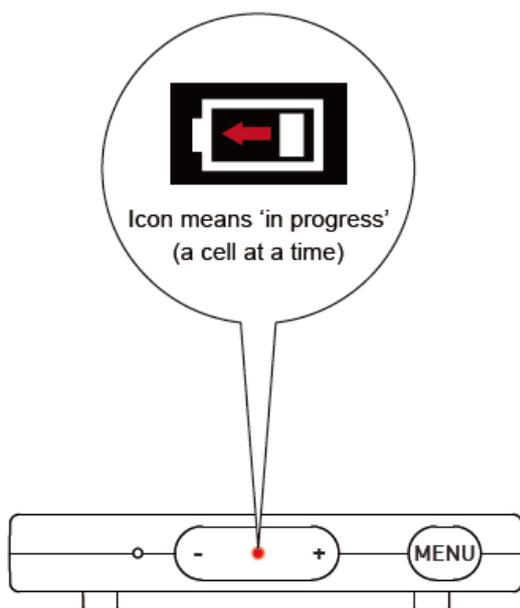
- Charge the product before use.
- Connect the charger to the micro USB port.



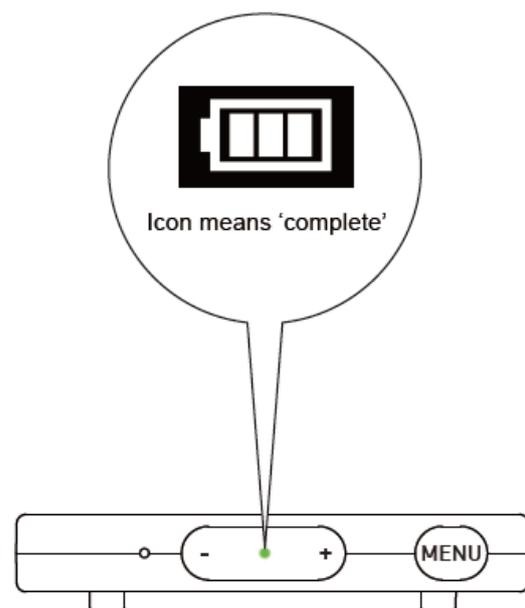
On: When charging is in progress



On: When charging is complete



Red means 'in progress'



Green means 'complete'

2.2 Checking the battery life



full

middle

low

empty



Blinks fast when the battery is low



If remaining battery power is very low, the warning icon flashes with a beep and transmit & receive is not available.

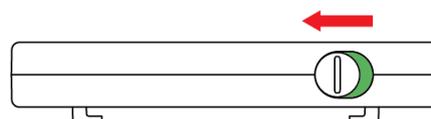
Charge the product immediately if the warning icon starts to flash with a beep.



The battery is consumable, so it is possible for it to diminish over time. If it is kept in too low or too high temperatures, its life span can be shortened dramatically.

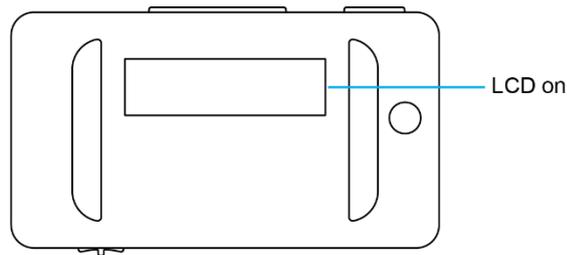
2.3 Turn on/off power

2.3.1 Turn on

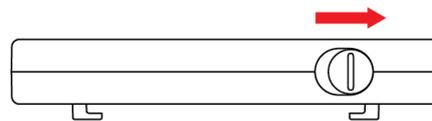


on

- ① As shown in the figure above, you can push the switch to turn the power on as the arrow indicates.
- ② Once the power is on, the LCD will turn on.



2.3.2 Turn off



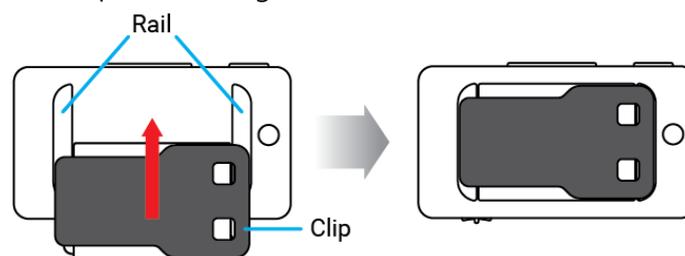
off

- ① As shown in the figure above, you can push the switch to turn the power off as the arrow indicates.

2.4 Wear and mount Product

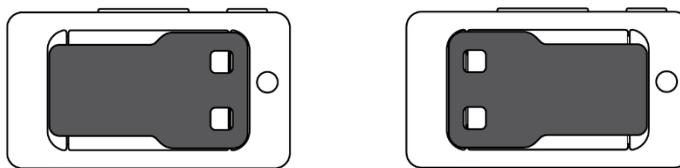
2.4.1 Inserting clip

- Insert the clip onto the product along the rail.

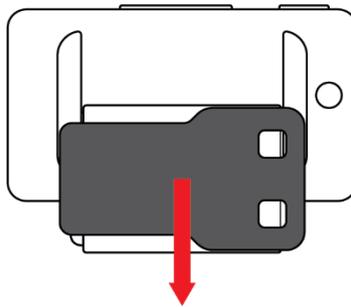


Slide the clip into the rail on the product and then push the clip upwards until you hear a 'click' as the arrow indicates.

A user can connect the clip in any direction.

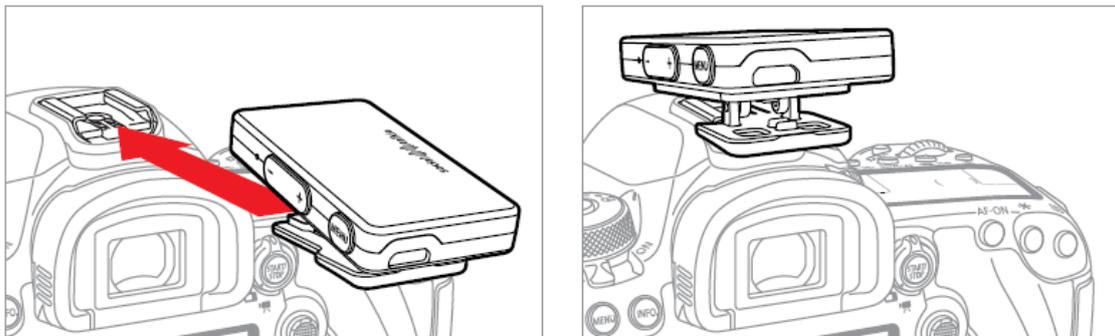


- Detach it by pushing the clip for the product down from the rail as the arrow indicates.



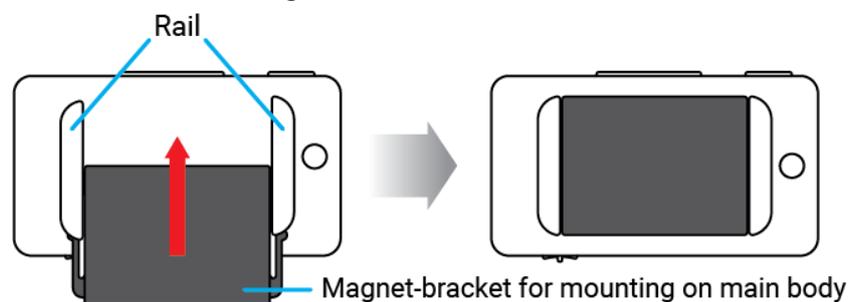
2.4.2 Mounting on Camera

- The product's clip can be mounted on the camera's shoe as the following image.

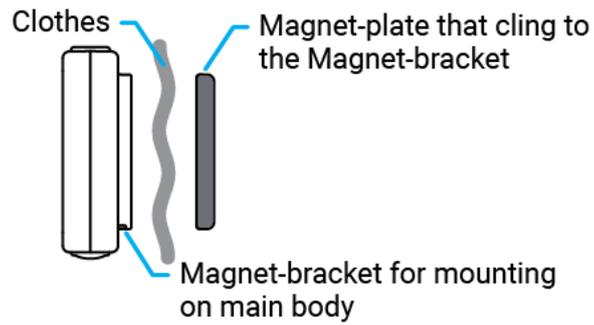


2.4.3 Using magnetic attachment

- How to put the magnet-bracket onto the main body
 - ① Insert the magnet-bracket into the rail on the main body and then push the magnet-bracket upwards until it makes a 'click'. Or, slide the magnet-bracket upwards in the direction indicated with the arrow in the figure.



- ② The product with the magnet-bracket inserted can be attached on user's clothes together with the magnet-plate on the other side of user's clothes.



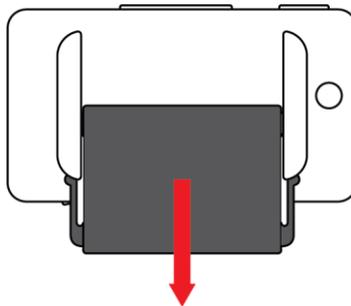
If your clothes are too thick, the process will not work as described above. When you use the magnetic-plate to attach the product to your clothes, make sure that you do not drop it or lose it.



The magnetic board has polarities: north and south pole. The same polarities work to push away each other. Note that when you follow the process above.

- How to detach it

Detach it by pushing the magnetic-plate for the product down from the rail as the arrow indicates.



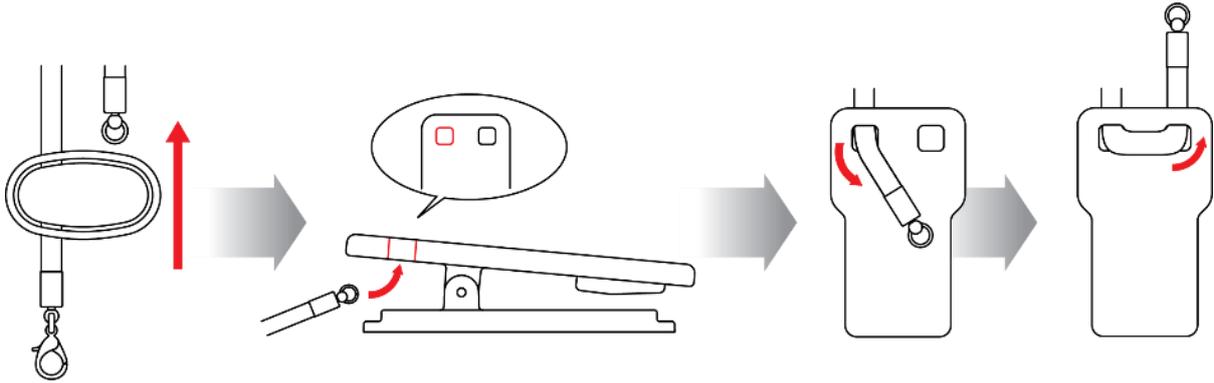
2.4.4 Lanyard

- How to tie lanyard onto main body

Hook the lanyard up into the lanyard hole on the clip.

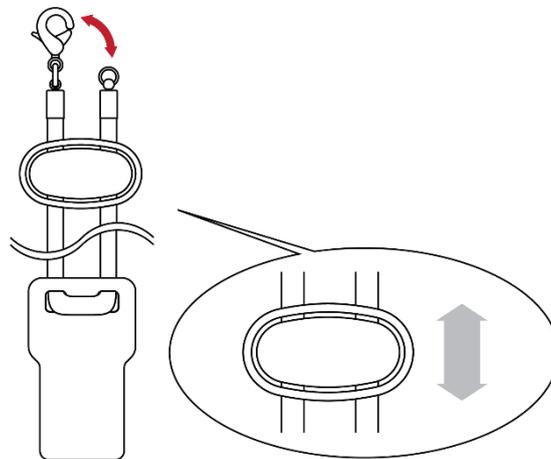
Figure (The lanyard is hooked up and down via the two holes on the clip)

Then put the clip onto main body.



- How to adjust the length

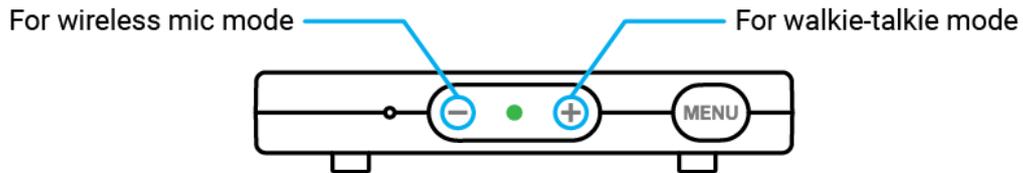
The length is adjustable as shown in the figure below.



2.5 Conversion between Wireless Microphone and Walkie-Talkie Function using hot keys

This product can be either used for wireless microphone or walkie-talkie function.

You can switch between the wireless microphone mode and the walkie-talkie mode in the following ways.



2.5.1 To walkie-talkie mode



Press and hold (more than 2 seconds) '+' button



Blinks Alternately



You can also switch from 'MODE' in the menu.

After converting wireless microphone mode to walkie-talkie mode, the screen for walkie-talkie appears.



2.5.2 To wireless mic mode



Press and hold (more than 2 seconds) '-' button



Blinks Alternately



You can also switch from 'MODE' in the menu.

After converting walkie-talkie mode to wireless microphone mode, the screen for wireless microphone appears.



3 Using as Wireless Microphone

3.1 Transmitter and receiver

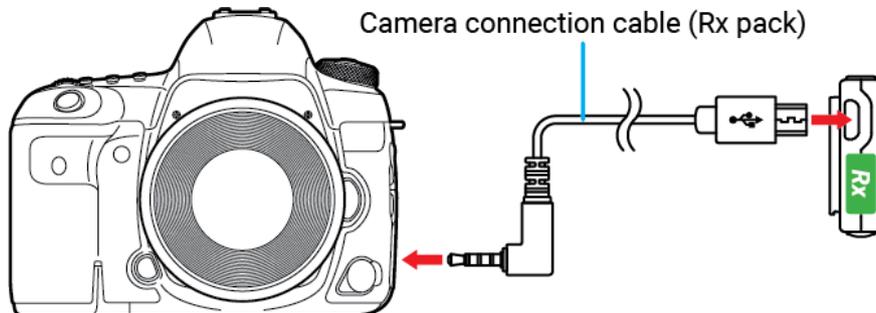
- When opening the package, 2 units are configured with 1 transmitter and 1 receiver respectively, and the transmitter and receiver labeled by the following red and green stickers.



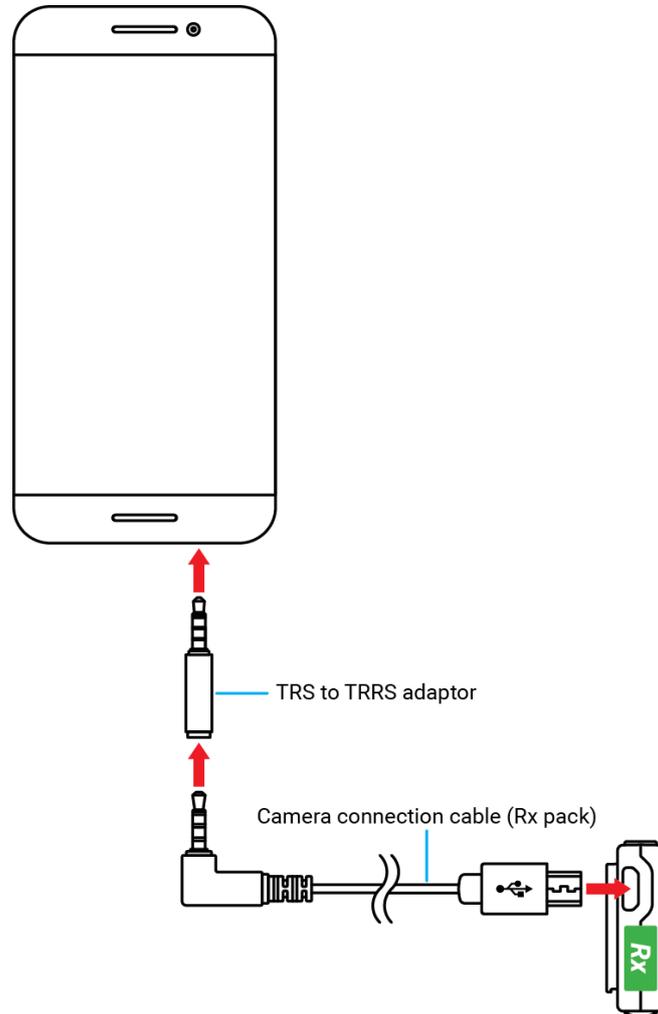
3.2 Connecting using a Cable pack

3.2.1 Receiver

- ① Use the enclosed camera connection cable (Rx pack) to connect receiver with camera's microphone input.

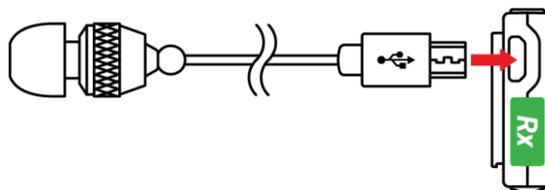


- ② Mobile devices such as smartphones, tablets and laptops need TRS to TRRS adaptor included in the package between the device and the enclosed camera connection cable (Rx pack).



Additional adapters may be required depending on the mobile devices.

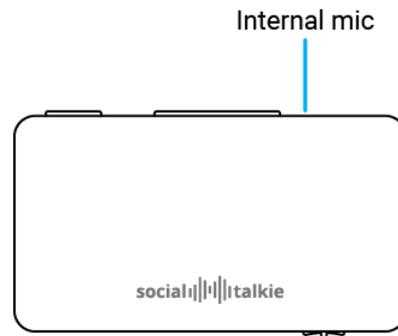
- ③ Or, connect the enclosed earpiece to monitor the transmitted voice before connecting to the camera connection cable to the camera.



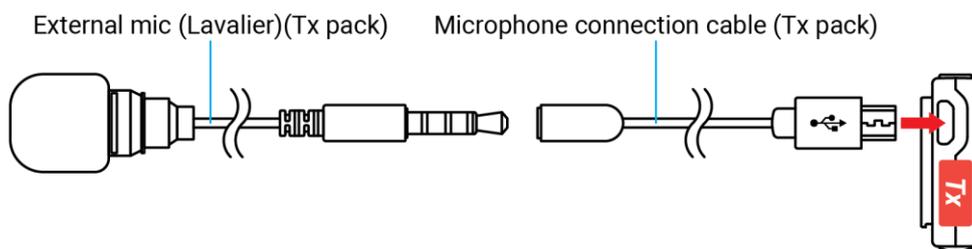
3.2.2 Transmitter

Transmitter has built-in internal microphone in the main body.

When using the built-in microphone, the main body should be worn on the chest near the mouth.



however, transmitter can be connected to external mic (Lavalier) by connecting the enclosed microphone connection cable (Tx pack) if you do not want to attach the main body on your upper chest.

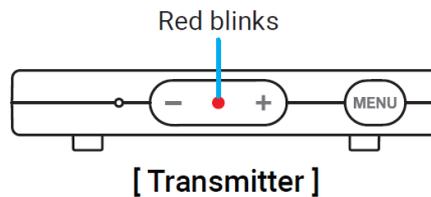


3.3 Start operation

When the power is turned on, the transmitter and receiver automatically start to operate. You can easily verify the operating status by checking the LED light if it blinks in corresponding color.

3.3.1 Transmitter

- When the transmitter starts to operate, the LED blinks in red.

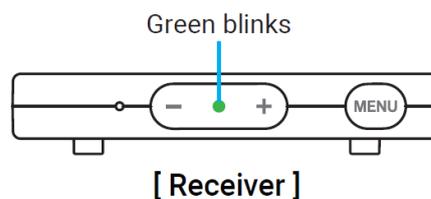


Blinks when transmitting

The unit that is factory set as 'Tx' uses the main body's microphone to transmit voice to the unit that is factory set as 'RX'.

3.3.2 Receiver

- When the receiver starts to operate, the LED blinks in green.



Blinks when receiving

The unit that is factory set as 'Rx' receives audio data transmitted from the transmitter 'Tx' and inputs to your camera when connected with the enclosed camera connection cable (RX pack).

3.4 Mic Gain / Volume control

The transmitter and receiver can adjust the mic gain or volume of the sound.

3.4.1 What's Mic Gain / Volume?

- ① Mic Gain indicates microphone sensitivity and allows you to adjust loudness level of sound
- ② Receiver: You can adjust loudness of receiving sound via volume control.

3.4.2 Up / Down

- ① Each time  '+' button is quickly pressed, Mic Gain or Volume increases by 1 level.
- ② Each time  '-' button is quickly pressed, Mic Gain or Volume decreases by 1 level.



Mic Gain (Transmitter)



Volume (Receiver)

3.5 How to switch transmitter (Tx)/ receiver (Rx)

If necessary, transmitter and receiver may be mutually converted.

3.5.1 Switch to transmitter (Tx)

Go to Menu and set 'Tx/Rx' value to 'Tx'. Or



Press the '+' button and 'Menu' button at the same time for more than 2 seconds.

3.5.2 Switch to receiver (Rx)

Go to Menu and set 'Tx/Rx' value to 'Rx'. Or



Press the '-' button and 'Menu' button at the same time for more than 2 seconds.



For detailed information on using the product, check 'Menu setup in detail'

Depending on the setting, only 1 or 2 transmitters (Tx) are allowed.

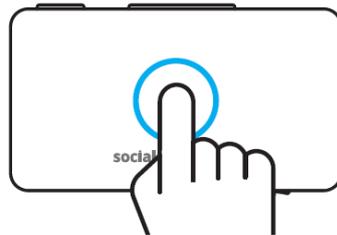
If there are more transmitters (Tx) than the allowed number of transmitters (Tx), it is displayed as follows and the transmitter (Tx) does not operate.



In this case, change that device to receiver (Rx) or another transmitter (Tx) to receiver (Rx) and press the menu button on the device marked 'Check your settings' to start the operation.

3.6 PTT(Push To Talk) Function for two way voice communication

While using as wireless microphone, the 'Receiver (Rx)' can transmit your voice messages to the 'Transmitter (Tx)' temporarily while pressing the 'PTT' button. People in the same group who are not pressing 'PTT' button receive the voice message over the earpiece/headphone.



3.6.1 Voice Communication

- ① When you have Receiver (RX) with you and want to transmit voice to another person or everyone in the same group, speak while pressing PPT button. To stop voice transmission, stop pressing PPT button.
- ② When another person answers, you may hear through the earpiece.
- ③ Talk like a conventional walkie-talkie by repeating the above process in turns.



This feature is available when menu's 'PPT' is 'ON'.

3.6.2 Temporary Conversion between transmitter(Tx) and receiver(Rx) During interview

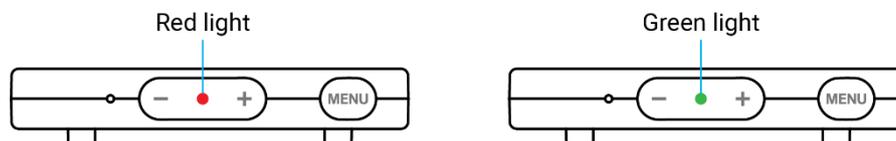
- ① When a Rx user speaks while pressing the 'PTT' button through the receiver connected to camera the mode is changed to Tx automatically, the voice is transmitted and recorded. During the interview, the interviewer (cameraman/ video shooter) can press 'PTT' button and record the voice to ask questions to interviewee.
- ② After recording the voice and stop pressing the 'PTT' button, it changes to Rx again and interviewee can start speaking answers to questions.

3.6.3 Voice Recording of Multiple People in Discussion

In the situation such as discussion where multiple people take turns to comment, each person presses 'PTT' button on one's main body instead of passing one microphone to the next person. Whichever person pressing 'PTT' button can transmit the voice to other units in the same group.

3.7 LED Indication

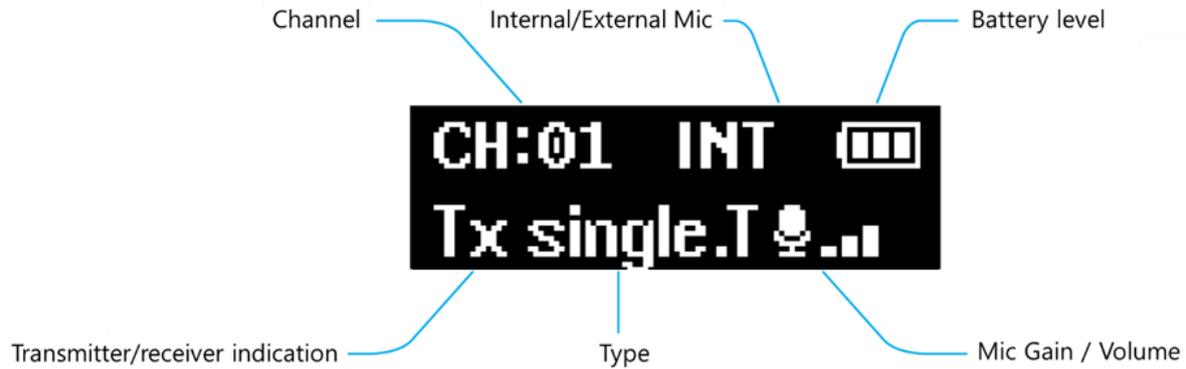
LED indicates the status of the product.



LED indicates as shown on the following table depending on the operation status.

Operation	LED Indication	
Charging		Red light turns and remains on
Fully Charged		Green light turns and remains on
Transmitting		Red light blinks slowly
Receiving		Green light blinks slowly
Low Battery		Red light blinks fast
Weak Signal or Signal Interference		Red light blinks twice repeatedly
Conversion of Wireless Microphone and walkie-talkie		Red and green light flickers alternately

3.8 LCD



3.8.1 Channel

Indicates the channel in use and sets channel automatically by finding the optimal channel. If necessary, user may enter the channel manually in Menu Settings.

3.8.2 Internal / External Mic

Detects connection of external microphone (Lavalier) and automatically indicates as follows.

- ① INT: Uses internal built-in microphone
- ② EXT: Uses external mic (Lavalier)



It is automatic detection, however, it can be manually set up when an external microphone is connected, user may convert to INT or EXT by using HOT KEY.



Press the '-' button, '+' button and 'Menu' button at the same time for more than 2 seconds.



You can also switch from 'MIC' in the menu.

3.8.3 Battery level

Displays the battery level in 4 steps.

3.8.4 Transmitter/receiver indication

A user may select whether to use the product as transmitter or receiver and it indicates the currently used mode.

- ① Tx: Transmitter
- ② Rx: Receiver

3.8.5 Type of Transmission

There are 3 types depending on number of transmitter and use of TEC(Transmission error correction) feature.

Each characteristic is as follows.

- ① Single T: Use of one transmitter, TEC on
- ② Single: Use of one transmitter, TEC off, high sound quality
- ③ Dual: Simultaneous use of 2 transmitters, TEC off



Operates normally when transmitter and receiver are set identically.



What's TEC (Transmission Error Correction) Feature?

When used in bad transmission environment or place with severe interference, noise may occur temporarily.

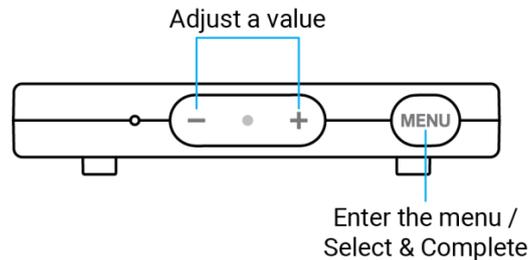
In this case, use TEC(transmission error connection) feature to eliminate or reduce noise. receive although the sound quality drops.

3.8.6 Mic Gain / Volume

- ① Transmitter: Indicates Mic Gain in 5 levels.
- ② Receiver: Indicates audio output level in 5 levels.

3.9 How to set up menus

Follow the directions below to set up the menu.



3.9.1 Enter the menu

Press the  'Menu' button for more than 2 seconds to enter the menu.

3.9.2 Move to a menu item

Press the  '-' or  '+' button to navigate through different menu items in the menu.

3.9.3 Select an item

Press the  'Menu' button once quickly to select an item in the menu.

3.9.4 Adjust value

Press the  '-' or  '+' button to adjust the selected value while the value is blinking.

3.9.5 Move to the next value position when value has more than single digit

Press the  'Menu' button once quickly to save the selected value and the next value position starts blinking.

Repeat the step 'Adjust value' to adjust value until all the value positions are adjusted.

3.9.6 Complete setting

Press the  'Menu' button while the setting value is blinking to complete the setting.



After setting the last value, press the  'Menu' button again to go back to the menu selection.

3.9.7 Exit the menu

Press the  'Menu' button for more than 2 seconds to exit the menu.

User will automatically exit the menu if user do not press any button for more than 10 seconds.

Even if you leave the menu, the values remain set.



For example, even if you set two digits out of three totals by pressing the  'Menu' button and then leave the menu, those two numbers will be saved as you set them.

3.9.8 Menu items

Wireless microphone is composed of following menu items.

The menus displayed when set to Tx and when set to Rx are different.

Menu items	When set to Tx	When set to Rx
MODE	O	O
Tx/Rx	O	O
TYPE	Tx TYPE	Rx TYPE
AUTO CH.	O	O
CHANNEL (‘CHANNEL’ appears only when Auto CH. is ‘Off’.)	O	O
PTT	O	O
MIC (‘MIC’ appears only when an external microphone (Lavalier) is connected)	O	X
RF POWER	O	X
NOISE CANCEL	X	O
PAIRING	O	O
DEFAULT SET	O	O
VERSION	O	O

The following information describes each item’s purpose and how to set it up.

3.10 Menu setup in detail

3.10.1 MODE

- What is a MODE?

This product can be used as wireless microphone or walkie-talkie.

Set the value to 'mic' or 'radio' to select the function.

('mic' is set as the default.)

- MODE setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'MODE' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change mode by using the  '-' or  '+' buttons.

Once 'MODE' has been changed, complete it by pressing the  'Menu' button once quickly.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

- **Switch to walkie-talkie(radio) mode**



Press the '+' button for more than 2 seconds.



- **Switch to wireless microphone mode**



Press the '-' button for more than 2 seconds.



When the mode is changed



Blinks alternately.

3.10.2 Tx/Rx

- What is a 'Tx/Rx'?

The product can be either used as transmitter or receiver depending on the setting.

Set 'Tx' to operate as a transmitter and set 'Rx' to operate as a receiver.



There is no restriction on number of receivers (Rx) in the same group.
When recording, voice sent from one or two transmitter (Tx) can be received at multiple receivers (Rx) at the same time.

Depending on the setting, only 1 or 2 transmitters (Tx) are allowed.

If there are more transmitters (Tx) than the allowed number of transmitters (Tx), it is displayed as follows and the transmitter (Tx) does not operate.



In this case, change that device to receiver (Rx) or another transmitter (Tx) to receiver (Rx) and press the menu button on the device marked 'Check your settings' to start the operation.

('Rx' is set as the default.)

- Tx/Rx setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Move to 'Tx/Rx' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.

If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'Tx/Rx' has been changed, complete it by pressing the  'Menu' button once quickly.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

- Switch to transmitter (Tx)



Press the '+' button and 'Menu' button at the same time for more than 2 seconds.

- Switch to receiver (Rx)



Press the '-' button and 'Menu' button at the same time for more than 2 seconds.



 blinks when transmitting (Tx).

 blinks when receiving (Rx).

3.10.3 TYPE of Transmission

- What is a 'Type'?

There are 3 types depending on number of transmitter and use of TEC(Transmission error correction) feature.

Each characteristic is as follows.

- ① Single T: Use of one transmitter, TEC on
- ② Single: Use of one transmitter, TEC off, high sound quality
- ③ Dual: Simultaneous use of 2 transmitters, TEC off



Operates normally when transmitter and receiver are set identically.



What's TEC (Transmission Error Correction) Feature?

When used in bad transmission environment or place with severe interference, noise may occur temporarily.

In this case, use TEC(transmission error connection) feature to eliminate or reduce noise. receive although the sound quality drops.

('Single/TEC off' is set as the default.)

- 'Type' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Move to 'Type' by using the  '-' or  '+' buttons.

Depending on the 'Tx/Rx' setting, each is displayed as follows.



Select by pressing the  'Menu' button.

If the value blinks, change it by using the  '-' or  '+' buttons.



When 'single' is blinking, press the  'menu' button to select 'TEC' on/off as follows.



Once 'Rx/Tx Type' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.4 AUTO CH.

- What is a 'AUTO CH.'?

In AUTO CH., channels are automatically scanned and the optimum channel is automatically selected.

The selected channel can be checked on the screen.

('On' is set as the default.)

- 'AUTO CH.' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Move to 'AUTO CH.' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'AUTO CH.' has been changed, complete it by pressing the  'Menu' button.



Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.5 CHANNEL

- What is a 'CHANNEL'?



When Auto CH. is 'On', channels are automatically scanned and 'CHANNEL' don't appear. 'CHANNEL' appears only when Auto CH. is 'Off'. When Auto CH. is 'Off', the channel can be set manually.

Set the same channel for transmitter and receiver. Just change the 'CHANNEL' if there is too much noise or you get the interference with another devices. The 'CHANNEL' function has 21 channels that range from 01 to 21.

('01' is set as the default.)

- 'CHANNEL' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'CHANNEL' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the first number blinks, change it by using the  '-' or  '+' buttons.

Move to the next number by pressing the  'Menu' button.

If the number blinks, change it by using the  '-' or  '+' buttons.

Once the last number has been changed, press the  'Menu' button and the number will stop blinking.

Move to another menu by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.6 PTT

- What is a PTT(Push To Talk)?

While using as wireless microphone, the 'Receiver (Rx)' can transmit your voice messages to the 'Transmitter (Tx)' temporarily while pressing the 'PTT' button. People in the same group who are not pressing 'PTT' button the voice message over the earpiece/headphone.

Use this feature for various occasions such as voice communication while recording, recording the interviewer's (cameraman) voice during interview, or recording the voice of multiple people in order during discussion.

To use PPT button, set 'PTT' to 'ON'.

(For Rx, 'on' is set as the default)

(For Tx, 'off' is set as the default)

- PTT setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'PTT' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.



Once 'PTT' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.7 MIC

- What is a MIC?



Only available for Tx mode.

'MIC' appears only when an external microphone (Lavalier) is connected

MIC is microphone. Only available for Tx mode and there are two types; Internal MIC and External MIC.

When an external microphone (Lavalier) is connected, it automatically converts from internal microphone to external microphone.

User may choose between internal/external microphone depending on the purpose.

- ① int mic: Uses internal built-in microphone
- ② ext mic: Uses external mic (Lavalier)

- MIC setup

change is automatic, but you can manually set Internal or External MIC.

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'MIC' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.



Once 'MIC' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

When an external microphone is connected, user may convert to INT or EXT by using HOT KEY.



Press the '-' button, '+' button and 'Menu' button at the same time for more than 2 seconds.

3.10.8 RF POWER



Only available for Tx mode.

- What is a 'RF POWER'?

The RF POWER allows you to adjust the strength of the transmission signal. The RF POWER can be set to High and Low. The range and available battery life vary depending on the RF POWER setting, as shown below.

RF POWER	Range	Battery life
high	long	short
low	short	long

Adjust the setting according to your usage environment and needs.

('High' is set as the default.)

- 'RF POWER' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'RF POWER' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'RF POWER' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.9 NOISE CANCEL



Only available for Rx mode.

- What is a NOISE CANCEL?

NOISE CANCEL reduces the surrounding/background noise during recording. Use Noise Cancel function according to surrounding environment and purpose.

Noise Cancel set to 'high' to reduce the surrounding noise more and Noise Cancel set to 'low' to record more natural sound with some surrounding noise.

Noise Cancel 'OFF' records the surrounding sound without reducing the noise.

Noise Cancel has four levels; high/middle/low/off.

('low' is set as the default.)

- NOISE CANCEL setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'NOISE CANCEL' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.

◀ NOISE CANCEL ▶
low

If the value blinks, change it by using the  '-' or  '+' buttons.

◀ NOISE CANCEL ▶ ◀ NOISE CANCEL ▶ ◀ NOISE CANCEL ▶ ◀ NOISE CANCEL ▶
high middle low off

Once 'NOISE CANCEL' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

3.10.10 PAIRING

- What is a PAIRING?

PAIRING binds products in the same group like pairing Bluetooth devices.

Pairing is already set in the units in the same package. wireless voice signals are transmitted between the paired units only.

Pairing is used when dividing a big group into multiple small groups or binding multiple groups into one.

('no' is set as the default.)



Please note that after pairing, all settings will return to the factory default set.



If AUTO CH. does not work normally, or if it does not transmit or receive normally even though it is the same channel, try pairing again

- PAIRING setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'PAIRING' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



PAIRING
no

If the value blinks, change it by using the  '-' or  '+' buttons.



PAIRING
yes

If you select 'yes' for 'PAIRING' in the first product to be paired, the pairing data is transmitted and the display is as follows.



PAIRING

If you select 'yes' in 'PAIRING' for the rest of the products to be paired, the pairing data is received, and when pairing is complete, the following is displayed.

PAIRED

Do the same procedure and select 'yes' on the unit to be paired.

When 'PAIRED' message appears on all to be 'PAIRED' except for the products sending pairing data, press and hold  'Menu' button for more than 2 seconds to go back to the main screen.

3.10.11 DEFAULT SET

- What is a 'DEFAULT SET'?

All of the values that have been switched or changed by the user after purchase to meet the needs of the user will be returned to factory default settings.

('no' is set as the default.)



Be careful with this feature. All of the customized values including pairing information will return to their default settings.

- 'DEFAULT SET' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

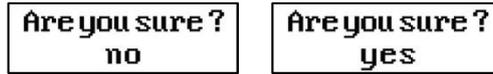
Go to 'DEFAULT SET' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.

DEFAULTSET
no

If the value blinks, change it by using the  '-' or  '+' buttons.

DEFAULTSET no **DEFAULTSET** yes

First, select 'Yes' to set all of the values back to default and then press the  'Menu' button. A new screen will pop up to confirm it.



Again, select 'Yes' and then press the  'Menu' button. The power will turn off and on again, initializing all of the values to their default settings.

3.10.12 VERSION

- What is a 'VERSION'?

It is used to check the version of firmware on your product.

- Checking the 'VERSION'

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'VERSION' by using the  '-' or  '+' buttons.



Once you check the 'VERSION', move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

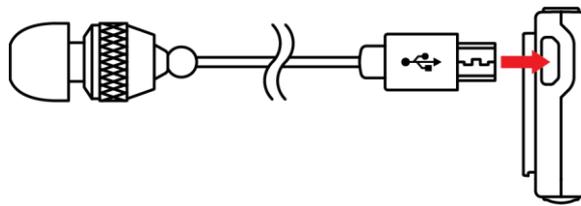
4 Using as Walkie-Talkie

4.1 Earpiece connection

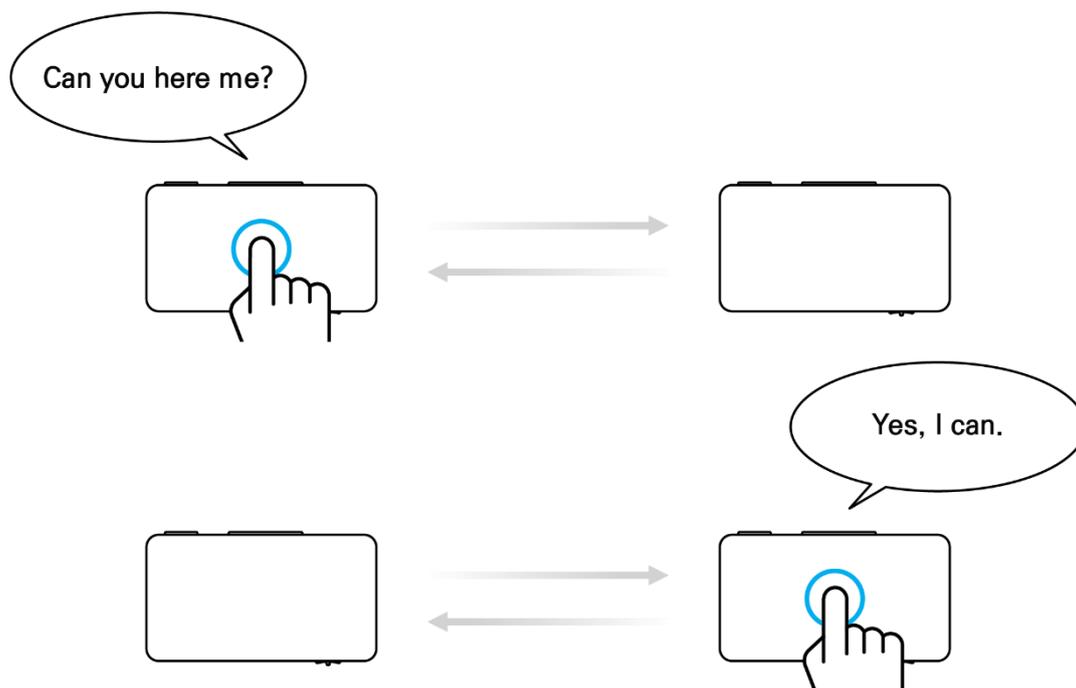


There is no speaker in the product. Communication is available only when you connect the earpiece.

Connect the earpiece to the micro USB port in the product.

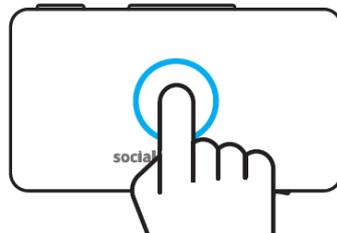


4.2 Communication



- Transmit & receive
- ① 'Transmit' means to send your voice through the unit by pressing PTT button or by hands free when VOX (voice activated) function is turned on.
- ② 'Receive' means to have the unit receive someone's voice that was sent from the transmitter (MIC).

- To communicate (default setup)
- ① Talk to the product while pushing the PTT button to send your voice to a person on the other product. Stop pressing the button when you stop talking.

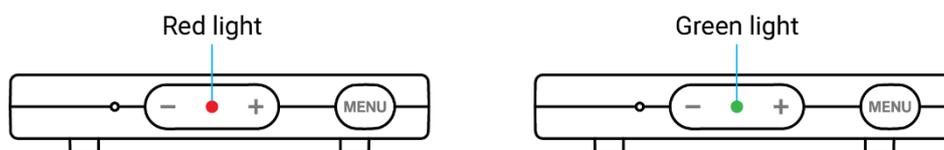


- ② The earpiece enables you to hear what the other person says if there is a response. As above, the product can make it possible to transmit and receive voice communication or to do those two at the same time.



The maximum time per transmission is limited to 30 seconds.

4.3 LED Indication



LED is indicated as the following table depending on the operation state.

Operation	LED Indication	
Charging		Red light turns and remains on
Fully Charged		Green light turns and remains on
Transmitting		Red light blinks slowly
Receiving		Green light blinks slowly
Low battery warning		Red light blinks fast

**Conversion of Wireless
Microphone and walkie-talkie**



Red and green light blinks
alternately

4.4 Volume up/down (10 levels)



The lowest volume



The highest volume

4.4.1 Up / Down

- ① The volume goes up by one notch as you press the  '+' button one time.
- ② The volume goes down by one notch as you press the  '-' button one time.

4.5 Use vibration call

By sending a call signal to the other user and making a beep tone and vibration, you can express your intention to speak or call the other user for attention.

4.5.1 Sending vibration signal to alert the other user.

- Sending vibration signal



Press the '+' button and 'Menu' button at the same time for more than 2 seconds.



or



Press the '-' button and 'Menu' button at the same time for more than 2 seconds.

Your unit rings and vibrates and the vibration signal is sent.



4.5.2 Receiving call signal

The other user will get a beep tone alarm and vibration.



4.6 Button lock

The button lock feature disables all of the buttons, except for the power switch, in order to prevent any mistaken operation of buttons and any other inconveniences that may be caused by unintentionally pressed the buttons.

4.6.1 Enable button lock



- When button lock is Disabled



Press the '+' button and '-' button at the same time for more than 2 seconds.

The following icon appears on the screen, a beep is generated, and the button lock is enabled.



If you press any button when the button lock is enabled, a beep is generated, the button lock icon appears on the screen, and the button will not be activated.

4.6.2 Disable button lock



- When button lock is enabled



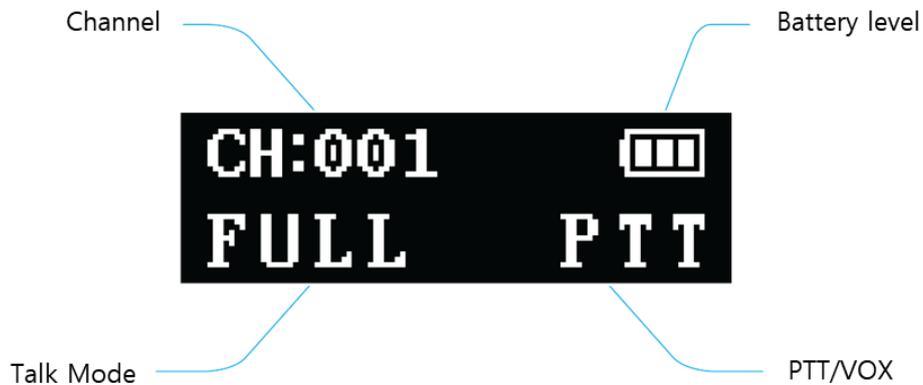
Press the '+' button and '-' button at the same time for more than 2 seconds.

The following icon appears on the screen, a beep is generated, and the button lock is disabled.



When the button lock feature is disabled, you can use all of the buttons.

4.7 LCD



4.7.1 Channel

Displays the channel number currently in use.

A Total of 100 channels can be set.

4.7.2 Battery level

Displays the battery level in 4 steps.

4.7.3 Talk Mode

Displays "HALF" for half-duplex and "FULL" for full-duplex.

- ① half-duplex: Only one person can speak at the same time.
- ② Full-duplex: Two people can speak at the same time from both ends.

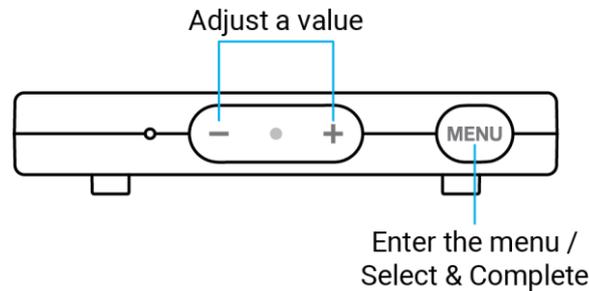
4.7.4 PTT/VOX

Displays "PTT" for Push To Talk mode or "VOX" for Voice Activation.

- ① With PTT mode, your voice will be sent only while pressing a PTT button.
- ② With VOX mode, your voice will be automatically recognized and sent without pushing PTT button.

4.8 How to set up menus

Follow the directions below to set up the menu.



4.8.1 Enter the menu

Press the  'Menu' button for more than 2 seconds to enter the menu.

4.8.2 Move to a menu item

Press the  '-' or  '+' button to navigate through different menu items in the menu.

4.8.3 Select an item

Press the  'Menu' button once quickly to select an item in the menu.

4.8.4 Adjust value

Press the  '-' or  '+' button to adjust the selected value while the value is blinking.

4.8.5 Move to the next value position when value has more than single digit

Press the  'Menu' button once quickly to save the selected value and the next value position starts blinking.

Repeat the step 'Adjust value' to adjust value until all the value positions are adjusted.

4.8.6 Complete setting

Press the  'Menu' button while the setting value is blinking to complete the setting.



After setting the last value, press the  'Menu' button again to go back to the menu selection.

4.8.7 Exit the menu

Press the  'Menu' button for more than 2 seconds to exit the menu. User will automatically exit the menu if user do not press any button for more than 10 seconds.

Even if you leave the menu, the values remain set.



For example, even if you set two digits out of three totals by pressing the  'Menu' button and then leave the menu, those two numbers will be saved as you set them.

4.8.8 Menu items

Walkie-talkie is composed of following menu items.

Item
MODE
TALK MODE
CHANNEL
ID
PTT/VOX
VOX LEVEL
EMERGENCY
MIC (‘MIC’ appears only when an external microphone (Lavalier) is connected)
MIC GAIN
RF POWER
CLONE SET

The following information describes each item’s purpose and how to set it up.

4.9 Menu setup in detail

4.9.1 MODE

- What is a MODE?

This product can be used as wireless microphone or walkie-talkie.

Set the value to 'mic' or 'radio' to select the function.

('mic' is set as the default.)

- MODE setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'MODE' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change mode by using the  '-' or  '+' buttons.



Once 'MODE' has been changed, complete it by pressing the  'Menu' button once quickly.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

- **Switch to walkie-talkie(radio) mode**



Press the '+' button for more than 2 seconds.



- **Switch to wireless microphone mode**



Press the '-' button for more than 2 seconds.



When the mode is changed



Blinks alternately.

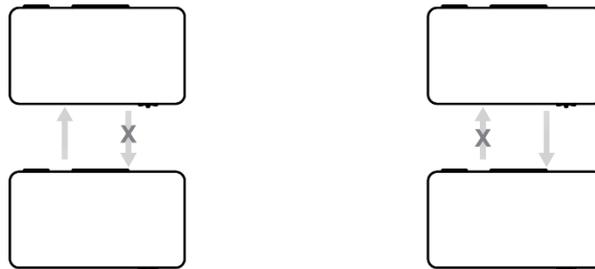
4.9.2 TALK MODE

- What is a 'TALK MODE'?

For communication, select TALK MODE before use, the units that want to talk to each other must be set to the same TALK MODE. There are two different talk features in 'TALK MODE': half-duplex, full-duplex. The following information describes the different features.

('Full-duplex' is set as the default.)

① Half-duplex



This is a conventional two way radio talk mode. It does not allow simultaneous 'transmit' & 'receive' functions.

Talking and listening can be done by taking turns.

It works in the same way as other typical two way radios.

Only one product in the group is allowed to talk at the same time.

② Full-duplex



Available for simultaneous 'transmit' & 'receive' functions.

This mode allows listening and talking at the same time when the users are pushing the PTT buttons at the same time.

Two units in the group are allowed to talk at the same time.

- 'TALK MODE' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'TALK MODE' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



TALK MODE
full-duplex

If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'Tx TYPE' has been changed, complete it by pressing the  'Menu' button.



TALK MODE half-duplex TALK MODE full-duplex

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.3 CHANNEL

- What is a 'CHANNEL'?

Use the same 'CHANNEL' to ensure that you talk with only your intended people. Just change the 'CHANNEL' if there is too much noise or you get the line crossed with another group.

The 'CHANNEL' function has 100 channels that range from 01 to 100.

('001' is set as the default.)

- 'CHANNEL' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Move to 'CHANNEL' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



CHANNEL
001

If the first number blinks, change it by using the  '-' or  '+' buttons.

Move to the next digit by pressing the  'Menu' button once quickly.

If the number blinks, change it by using the  '-' or  '+' buttons.

Once the last digit has been selected, press the  'Menu' button and the number will stop blinking.

Move to another menu by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.4 ID

- What is a 'ID'?

If the line is mixed up and you hear conversations of others or the 'CHANNEL' is already taken by other group in the same area, set the 'ID'. By doing so, communication becomes viable between products whose 'ID' matches each other. The 'ID' number can be set up from 000 to 999.

('000' is set as the default.)

- 'ID' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Move to 'ID' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the first number blinks, change it by using the  '-' or  '+' buttons.

Move to the next digit by pressing the  'Menu' button.

If the number blinks, change it by using the  '-' or  '+' buttons.

Once the last digit has been selected, press the  'Menu' button and the number will stop blinking.

Move to another menu by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.5 PTT/VOX

- What is a 'PTT/VOX'?

There are two ways to send voice communication: 'PTT' and 'VOX'.

('PTT' is set as the default.)

- PTT(Push To Talk)

Voice communication can be sent while pressing the PTT button.

- ① Push the 'PTT' button to send a voice.
- ② Talk while holding the 'PTT' button. This is when your voice will be sent.
- ③ Release the 'PTT' button when you want to stop sending your voice.

- VOX(Voice Activation)

The product will recognize your voice and then send it automatically.

'VOX' sends all of the voices that it recognizes. The process can be stopped by pressing the 'PTT' button for more than 2 seconds. (It means that 'VOX' is turned off.) 'VOX' will turn on again when you push the PTT button for more than 2 seconds.

When 'VOX' is turned on, it can send a voice message automatically without pushing any button including PTT button.

- ① Push the 'PTT' button for more than 2 seconds to stop sending and then 'VOX' will be turned off.
- ② When 'VOX' is turned off, it can be turned on by pressing the 'PTT' button for more than 2 seconds.



If 'VOX' is turned on, the battery may be exhausted more quickly.



- PTT/VOX setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'PTT/VOX' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



PTT/VOX
P T T

If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'PTT or VOX' has been selected, complete it by pressing the  'Menu' button.




PTT/VOX
P T T

PTT/VOX
V O X

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.6 VOX LEVEL

- What is a 'VOX LEVEL'?

The 'VOX LEVEL' enables you to control the sensitivity levels of recognized voices when the 'VOX' function is turned on. If the 'VOX LEVEL' goes up, it can even recognize a lower voice and transmits. If the 'VOX LEVEL' goes down, it is less likely to catch a lower voice and will only recognize louder voices and transmits. For example, if noise and unintended sounds are caught and sent via 'VOX', then it is necessary to lower the 'VOX LEVEL'. However, if your surrounding is quiet, then raise the 'VOX LEVEL' to catch and send quieter sounds, even whispering.

There are nine VOX LEVELS from 1 to 9.

('5' is set as the default.)

- 'VOX LEVEL' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'VOX LEVEL' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



VOX LEVEL
5

If the value blinks, change it by using the  '-' or  '+' buttons.



Use '1-4' Low sensitivity (When the surroundings are noisy). Use 6-'9' High sensitivity (When the surroundings are quiet)

Once 'VOX LEVEL' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.7 EMERGENCY

- What is an 'EMERGENCY CALL'?

'EMERGENCY CALL' is a function to make a call in an emergency situation to call for help. For example, if you are in an emergency, this function helps you send an emergency call to others in the group on a regular basis, no matter which channel is being used. Those who receive the signal can respond to you through their units:-

- How to make an 'EMERGENCY CALL'

- Sending an emergency call

- ① A person in an emergency pushes PTT button repeatedly at a fast speed (5 times within one second) to send an emergency call to other products.
- ② The unit will start sending emergency calls to other units in the group. It will be displayed on the LCD as shown below.



- Receiving an emergency call

- ③ The other users will get an alarm and vibrations on their units receiving the call. It is displayed on LCD as shown below.



Emergency call can be received regardless of which TALKMODE, CHANNEL, ID functions are being used.

- Communicating during an 'EMERGENCY CALL'

- ④ To talk with the person in an emergency, push PTT button repeatedly at a fast speed (5 times within one second) while the alarm is activated on the terminal.



During an emergency call, "SOS" will appear in the channel display section of the standby screen.



Multiple people can communicate in an emergency.

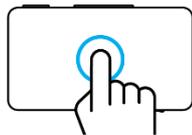
- How to communicate in an 'EMERGENCY'

Once EMERGENCY CALL is connected, you can communicate using PTT or VOX in the same way as use it in normal times.

- Releasing an 'EMERGENCY CALL'

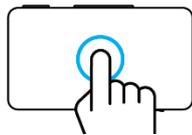
While connected to an emergency call, push PTT button repeatedly at a fast speed (5 times within one second) to release the emergency call. (It is the same process as when you respond to an emergency call.)

- Sending an emergency call



Push PTT button repeatedly at a fast speed (5 times within one second)

- Enter the emergency channel when receiving an emergency call



Push PTT button repeatedly at a fast speed (5 times within one second)

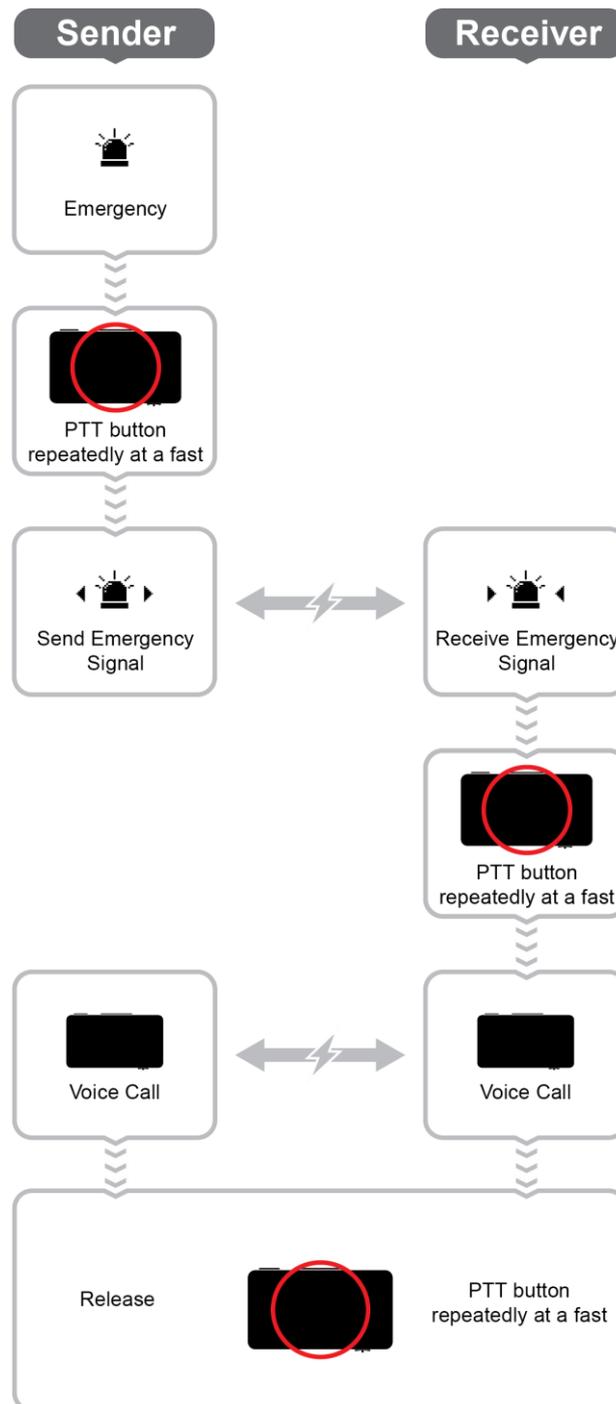
- Releasing an emergency call



Push PTT button repeatedly at a fast speed (5 times within one second)



Once released from the emergency call, the setup on the unit will go back to the settings before the emergency call was received.



If you do not want to receive an emergency call from other users, you can do so by setting the emergency function to off.

(‘On’ is set as the default.)

- 'EMERGENCY' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'EMERGENCY' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'EMERGENCY' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.



The 'EMERGENCY' function is designed to help somebody who is in trouble. Make sure that you do not play with it or use it carelessly. Otherwise, it could cause unwanted consequences to other people.

4.9.8 MIC

- What is a MIC?



'MIC' appears only when an external microphone (Lavalier) is connected

When an external microphone (Lavalier) is connected, it automatically converts from internal microphone to external microphone.

User may choose between internal/external microphone depending on the purpose.

- ① int mic: Uses internal built-in microphone
- ② ext mic: Uses external mic (Lavalier)

- MIC setup

change is automatic, but you can manually set Internal or External MIC.

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'MIC' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'MIC' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.9 MIC GAIN

- What is a 'MIC GAIN'?

The 'MIC GAIN' allows you to adjust the microphone volume. Increasing the 'MIC GAIN' raises the loudness of your voice, while decreasing the 'MIC GAIN' decreases the loudness of your voice during the transmission. There are five settings: very low, low, middle, high and very high.

('Middle' is set as the default.)

- 'MIC GAIN' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'MIC GAIN' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'MIC GAIN' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.10 RF POWER

- What is a 'RF POWER'?

The RF POWER allows you to adjust the strength of the transmission signal. The RF POWER can be set to High and Low. The range and available talk time vary depending on the RF POWER setting, as shown below.

RF POWER	Range	Talk time
high	long	short
low	short	long

Adjust the setting according to your environment and needs.

('High' is set as the default.)

- 'RF POWER' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'RF POWER' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.

Once 'RF POWER' has been changed, complete it by pressing the  'Menu' button.

Move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

4.9.11 CLONE SET

- What is a 'CLONE SET'?

Clone Set is a function that automatically synchronizes the required settings for a call between users in the same group without the users' individual manual setting changes.

By utilizing the Clone Set function, multiple units within a range (2~3 m) are synchronized wirelessly to the settings of a single unit that initiates cloning.

The values transmitted via the Clone Set function include Talk mode, Channel and ID. Units are automatically synchronized to the settings requiring no manual setting actions of the users.

('no' is set as the default.)

- 'CLONE SET' setup

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'CLONE SET' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.

A rectangular LCD screen with a black background and white text. The top line reads 'CLONE SET' and the bottom line reads 'no'. There are small white arrows on the left and right sides of the screen.

If the value blinks, change it by using the  '-' or  '+' buttons.

Two rectangular LCD screens side-by-side. The left screen shows 'CLONE SET' and 'no'. The right screen shows 'CLONE SET' and 'yes'. Both screens have small white arrows on the left and right sides.

Select 'Yes' to send the settings to other units and then press the  'Menu' button. A new screen will pop up to confirm it.

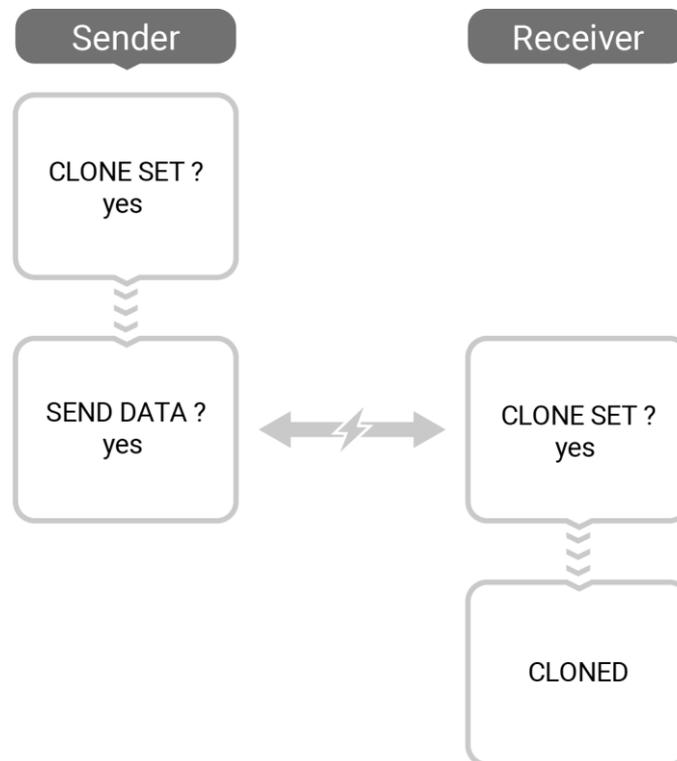
Two rectangular confirmation screens side-by-side with white backgrounds and black text. The left screen says 'SEND DATA ?' and 'no'. The right screen says 'SEND DATA ?' and 'yes'.

Again, select 'yes' and then press the  'Menu' button. the settings (Talk mode, Channel, ID) are transmitted to the other units.

On the unit that has received the settings, the following screen will pop up to accept applying the settings.



Select 'Yes' and then press the **MENU** 'Menu' button. the following screen will pop up and synchronizing all of the values to the received settings.



If the receiver product synchronized already, CLONED message will pop up without confirm screen.

4.9.12 DEFAULT SET

- What is a 'DEFAULT SET'?

All of the values that have been switched or changed by the user after purchase to meet the needs of the user will be returned to factory default settings.

('no' is set as the default.)

- 'DEFAULT SET' setup

Go to the menu by pressing the  'Menu' button for more than 2 seconds.

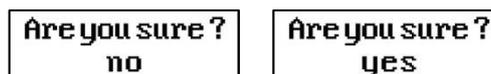
Move to 'DEFAULT SET' by using the  '-' or  '+' buttons and then select by pressing the  'Menu' button.



If the value blinks, change it by using the  '-' or  '+' buttons.



First, select 'Yes' to set all of the values back to default and then press the  'Menu' button. A new screen will pop up to confirm it.



Again, select 'Yes' and then press the  'Menu' button. The power will turn off and on again, initializing all of the values to their default settings.



Be careful with this feature. All of the customized values will return to their default settings.

4.9.13 VERSION

- What is a 'VERSION'?

It is used to check the version of firm ware on your product.

- Checking the 'VERSION'

Enter the menu by pressing the  'Menu' button for more than 2 seconds.

Go to 'VERSION' by using the  '-' or  '+' buttons.



Once you check the 'VERSION', move to another menu item by using the  '-' or  '+' buttons or go back to the main screen by pressing the  'Menu' button for more than 2 seconds.

5 Specifications and Copyright



product appearance and specifications are subject to change without notice.

All specifications shown are typical.

Specifications will vary dependent on local conditions.

5.1 Specifications

- Dimensions (H x W x D): 1.2" x 2.2" x 0.3"
- Weight: 0.63 oz.
- Battery Charging Time: 2 Hours
- USB Connectivity: micro USB type B

5.1.1 Wireless Mic Mode

- Wireless Transmission: Digital 902MHz~928Mhz
- Max Operating Range: Up to 300'/100m (LOS) (RF High, Single.T)
- Number of receivers allowed: Unlimited
- Number of Audio Channels: Up to 2 channels (Dual Mode)
- Audio I/O(Rx):
 - 1x micro USB 5pin audio Output,
 - 1x micro USB to 3.5 mm TRS male Gender Cable
- Audio I/O(Tx):
 - 1x micro USB 5pin audio input
 - 1 x micro USB to 3.5mm TRS Female Gender Cable

5.1.2 WalkieTalkie Mode

- Frequency: 902.6Mhz~927.5Mhz (ISM Band: License free)
- Channels: Max 100ch, 1000 ID/ch
- Range: Up to 1.5 miles/2.4km(LOS)(Half-duplex)
- Multi-party call: Full-duplex
- Encryption: AES-128

5.2 Patents, Trademarks or Designs Pending

This radio has one or more patents, trademarks or designs registered or pending with the United States Patent and Trademark Office or the PCT (Patent Cooperation Treaty) Office.

6 Warranty

Warrants against defects in materials and workmanship when used normally for a period of 12 months from the date of the original retail purchase by the end-user.

- Those purchasing this product have to review the warranty and fill in the fields below immediately after purchasing the product.
- Contact the seller or distributor after finding a problem with this product.
- Make sure your claim for any repairs, replacement or refund complies with the warranty guidelines.

Product		Model	
Product No.			
Seller			
Purchase date		Store name	
Warranty period	For a period of 12 months from the date of the original retail purchase.		
Purchaser name		Address	

Warranty guidelines

- Warrants against defects while used normally for up to 12 months as the warranty period.
- The cases below are not covered by the warranty
 - ① Damage caused by the use of the consumer.
 - ② Defects or flaws caused by natural disasters.
 - ③ Defects or related problems caused by a misguided voltage or frequency.
 - ④ Damage caused while tweaking or updating the product by a third party other than a manufacturer's technician.

This warranty does not apply to any damage or technical problems which might occur after the warranty period has expired. If the purchaser still wants to receive service, manufacturer can provide the same level of service, but the purchaser is responsible for any labor costs.