

MPT-H1

INSTRUCTION MANUAL



Mobile Create Co., Ltd.

Rev. 1.0 – 2017

Safety Precautions

PLEASE OBSERVE FULLY

Be sure to observe the following precautions fully for the safe and proper use of this product:

■ Explanations of safety alert signs

 DANGER	This sign indicates a hazardous situation which could significantly result in serious injury or death.
 WARNING	This sign indicates a hazardous situation which could result in serious injury or death.
 CAUTION	This sign indicates a hazardous situation which could result in physical or property damage.

■ Explanations of symbols

	This symbol indicates precautions which need to be fully observed.
	This symbol indicates notes which are requested to be considered.

WARNING

- Do not operate this product while driving a car. Before operating this product, a driver shall stop the car in a safe place.
- Do not install or operate this product in airplanes and hospitals, or it could affect electronic and medical devices.
- Do not install or operate this product in places where inflammable gas is generated, or it could cause an ignition accident.
- Cardiac pacemaker users shall not use this product, because it could affect pacemakers, causing an accident due to the malfunction of such devices.
- Use this product away from automatic control equipment such as automatic door and fire alarm systems, or the radio waves generated by this product could affect such equipment, causing an accident due to malfunction.
- Do not install or operate this product in a place which may obstruct the operator's front vision or interfere with the operation, or it could cause an injury, an accident, or a failure.
- Pay attention to the speaker volume while driving so that the sound outside the car can be heard. Failure to do so could cause an injury or accident.
- Do not disassemble or modify this product, or it could cause an injury, an accident, or a failure.

CAUTION

- Do not install or operate this product in places which are subject to direct sunlight, or it could cause resin deformation or discoloration, or a failure.
- Do not give an impact to or throw this product, or it could cause a failure.
- Do not connect this product to any devices other than the specified ones, or it could cause a failure.
- Keep this product away from magnetic cards such as cash cards, or the data on them may be lost.
- Do not use thinner or alcohol when cleaning this product, or it could cause resin deformation or discoloration, or a failure.

Matters prohibited when handling the battery pack

DANGER

- Do not disassemble or modify the battery pack, because it incorporates a safety mechanism and protective device for preventing danger. Damaging such mechanism or device could cause heat or smoke generation from or explosion or ignition of the battery pack.
- Do not connect the positive electrode to the negative electrode using metal such as wire. Also do not carry or store this product with metal goods such as necklaces or hairpins. Failure to do so could short-circuit the battery pack and generate an excessive amount of electricity, causing heat or smoke generation, explosion or ignition of the battery pack, as well as heat generation of metal goods such as necklaces and hairpins.
- Do not put the battery pack in open flame or heat it, or it could melt insulators, damage the gas blowdown valve or the safety mechanism, or ignite the electrolyte solution, causing heat or smoke generation, explosion, or ignition.
- Do not use or install the battery pack in hot places (80°C or higher) such as by open flame or a heater. If the resin separator is damaged by the heat, the battery pack may be short-circuited internally, causing heat or smoke generation, explosion or ignition.
- Do not soak the battery pack in or make it wet with water or seawater. The protective device incorporated in the battery pack could cause heat or smoke generation, explosion, or ignition of the battery pack.
- Do not recharge the battery pack by open flame or in the hot sun. If the battery pack becomes hot, the protective device for preventing danger is activated to stop recharging or the protective device may break to recharge the battery pack at an abnormal current or voltage, causing heat or smoke generation, explosion, or ignition due to abnormal chemical reaction inside the battery pack.
- Recharging the battery pack under any condition other than the specified ones (such as at higher temperature, voltage, or current than the specified ones, or with a modified recharging cradle). In addition, the battery pack is recharged with abnormal current, leading to abnormal chemical reaction inside it which could cause heat or smoke generation, explosion, or ignition.
Note: Working temperature and humidity ranges of the recharging cradle: 0 to 40°C / 45 to 85%RH
- Do not drive a nail into, hammer, or step upon the battery pack, or it may be disrupted or deformed to be short-circuited internally, causing heat or smoke generation, explosion, or ignition.
- Do not give a strong impact to or throw the battery pack, or it could cause liquid leakage, heat or smoke generation, explosion, or ignition. In addition, if the protective device incorporated in the battery pack is broken, the battery pack may be recharged with abnormal current or voltage, leading to abnormal chemical reaction inside the battery pack which could cause heat or smoke generation, explosion, or ignition.
- Do not use a battery pack with an external surface that is damaged or an external appearance that is significantly changed, or it could cause heat or smoke generation, explosion, or ignition.
- Do not solder the battery pack directly, or the insulator may melt from the heat or the gas blowdown valve or the safety mechanism may be damaged, causing heat or smoke generation, explosion, or ignition.
- Do not mix up the positive electrode and negative electrode. The battery may be recharged reversely to cause abnormal chemical reaction inside the battery pack or may discharge unexpectedly abnormal current to cause heat or smoke generation, explosion, or ignition.
- The orientation of the positive and negative electrodes of the battery pack is predetermined. If it is difficult to connect the battery pack to a recharging cradle or equipment, check the orientation of the positive and negative electrodes without connecting forcefully. Reverse connection causes reverse recharging of the battery pack, causing abnormal chemical reaction inside it which could lead to heat or smoke generation, explosion, or ignition.
- Do not connect the battery pack to an electric outlet or in-vehicle power port socket, or the high voltage applied may

generate an excessive amount of current which could cause heat or smoke generation, explosion, or ignition of the battery pack.

- Do not use this battery pack for any devices other than the specified ones, or the performance or life of the battery pack may be reduced or abnormal current may flow depending on the type of device, causing breakage, heat or smoke generation, explosion, or ignition of the battery pack.
- If liquid leaked from the battery pack gets in the eyes, rinse thoroughly with clean water such as tap water without rubbing it and seek medical treatment immediately. Any liquid left in the eyes could cause damage to the eyes.

WARNING

- Do not mix primary batteries such as dry cells and batteries with different capacity, type, or brand, or excessive discharge during use or excessive recharge may occur, causing abnormal chemical reaction inside the battery pack which could lead to heat or smoke generation, explosion, or ignition.
- If the recharge is not completed even after the predetermined recharge time, stop recharging. Failure to do so could cause heat or smoke generation, explosion, or ignition of the battery pack.
- Do not put the battery pack in a microwave oven or high-pressure container. Sudden heat-up or loss of airtight condition could cause heat or smoke generation, explosion, or ignition.
- In the event of a liquid leakage or an unusual odor from the battery pack, immediately move it away from fire. The electrolytic solution leaked from the battery pack may catch fire, causing heat or smoke generation, explosion, or ignition.
- In the event of any abnormality such as unusual odor, heat generation, discoloration, or deformation during use, recharge, or storage of the battery pack, remove the battery pack from the device or recharging cradle and discontinue use. Continuing use could cause heat or smoke generation, explosion, or ignition of the battery pack.

CAUTION

- Do not use or leave the battery pack in hot places such as under strong direct sunlight or in a car under the hot sun, or it could cause liquid leakage or heat or smoke generation and also reduce the performance and life of the battery pack.
- Do not use the battery pack in places where static electricity (100 V or higher) is generated, because the battery pack incorporates a protective device for preventing danger. Failure to do so could break the protective circuit, causing liquid leakage from, heat or smoke generation, explosion, or ignition of the battery pack.
- The recharge temperature range of the battery pack is from 0°C to 40°C. Recharging the battery pack outside of this temperature range could not only cause liquid leakage from, heat or smoke generation from, or breakage of the battery pack, but also reduce the performance and life of the battery pack.
- Be sure to read the instruction manual or written instructions carefully before use. In addition, keep the manual at hand after reading it and refer to it when needed.
- Be sure to inspect the battery before charging.
- If any abnormality such as rust, unusual odor or heat generation is observed when you use this product for the first time after purchase, discontinue use and take it to the shop where it was purchased.
- Store the battery pack out of the reach of infants. In addition, during use, be sure that they do not remove the battery pack from a recharging cradle or device in which it is used.
- If liquid leaked from the battery pack comes into contact with the skin or clothes, immediately rinse thoroughly with clean water such as tap water to prevent skin irritation.
- Do not leave the radio plugged in the charger all the time.

Recycling the battery pack

The battery pack (lithium-ion battery) is recyclable.

In order to reuse rare metals, drop unneeded battery packs off to be recycled, without disposing of them.



Li-ion

For the proper use of this product

- This product performs communication using a cellular phone communication network. The scope of the warranty of this product does not include cellular phone communication networks. Be sure to understand the properties of this system and harness its benefits under the responsibility of the user.
- Use only accessories sold by Mobile Create. Do not use commercially-available or self-built accessories, or the product will not be covered under warranty.
- The housing is made of PC + ABS resin. Do not throw or drop this product during transportation, or it may break. In addition, do not remove screws from this product to disassemble it, or it could cause performance degradation or failure which is not covered under the product warranty.
- Consult us if special quality or reliability is required for this product and it is used as a medical, disaster-prevention, or security device, for which failure or malfunction affects life support or property significantly.
- Do not install this product in places which are subject to direct sunlight, or it could cause performance degradation or failure.

Note: Recommended usage environment temperature: 0°C to +45°C

- Leaving stains on this product for a long time may cause flaking of the plating or paint. Wipe with a dry soft cloth periodically.
- When talking, keep this product approximately 5 cm away from the mouth. Talking at a close distance to this product could cause cracking or distortion of the voice transmitted to the other party.
- Using this product in places where cellular phone reception is poor such as in a tunnel or garage and the influence of communication line conditions (such as network line construction and crossed lines) may cause the interruption of the flow of conversing voices during a call.
- The firmware of this product cannot be reverse-engineered, reverse-assembled, or reverse-compiled. It also cannot be modified or revised.
- No notices of intellectual property rights such as copyright, patent, utility model, and trademark described for this product can be deleted or modified.
- Avoid overcharging. After the battery is fully charged, leaving the radio plugged in the charger for long period of time causes the battery swelling. Always disconnect after charging, and let the charger cool between charges.
- Avoid using the radio while charging. Using the radio while charging causes the battery swelling.
- Do not use a swollen battery. Make sure to replace it.

Points to be noted before using this product

We assume no responsibility whatsoever for any direct, indirect, or incidental damage to you or a third party caused by the use of this product under your own responsibility.

When using this product, be sure to take all possible measures such as by paying sufficient attention to the usage environment and conditions and by taking safety and reliability measures including malfunction prevention and preventing the spread of fire.

Matters concerning waterproof and dustproof performances

CAUTION

- For the proper use of this product, read the matters concerning “waterproof and dustproof performances” before use. Using this product without observing the matters described could cause water exposure or sand or foreign matter contamination leading to heat generation, ignition, electric shock, damage, and failure.
This product achieves dustproof and waterproof performances equivalent to IP6X (Former JIS IP code 5) (Note 1) and IPX7 (Former JIS IP code 6) (Note 2) with the rear cover, external connection terminal caps, and hook attached securely.

Note 1: IP6X refers to the protection which prevents the entry of powder dust for dust test (75 μm in diameter).

Note 2: IPX7 refers to the protection which is not affected by water exposure.

- In the practical use of this product, this does not mean that operation under all conditions is assured. In addition, if a failure is determined to be due to your mishandling of this product as a result of an investigation, it is not covered under the warranty.
- Do not recharge while this product is wet, or it could cause electric shock or short circuit or circuit corruption, leading to fire or failure due to heat generation.
- Although this product is waterproof, discontinue use if liquid such as water gets into it when the rear cover is attached or detached to remove the battery pack. Continuing to use this product with liquid in it could cause heat generation, ignition, and failure.
- The provided recharging cradle is not waterproof or dustproof. Use the recharging cradle in places which are not splashed with water directly. If this product is splashed with liquid, unplug it immediately.
- In order to fulfill the waterproof and dustproof functions of this product, be sure to use this product with the accessory cover, rear cover, and USB cap attached securely.

Matters to be noted about wireless products

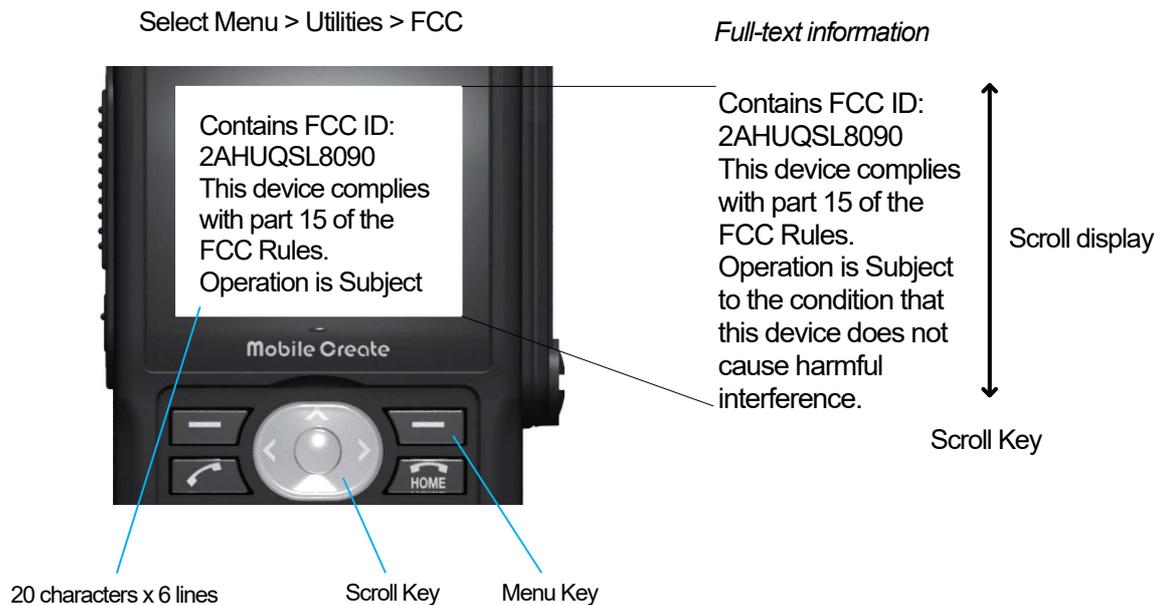
CAUTION

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. Federal Communication Commission (FCC) Radiation Exposure Statement This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This equipment should be installed and operated with minimum distance 1.5cm between the radiator & your body.

contains module FCC ID: 2AHUQSL8090 information

■ Label information

1. Images of the e-label screen are provided below:



2. Users are able to access the information in no more than four steps in a device's menu.

The actual steps are: Select Menu > Utilities > FCC

3. The information is stored on the device, no special accessories or supplemental plug-ins (e.g. a SIM/USIM card) are required to access the information.

4. Users are provided specific instructions on how to access the information.
5. The above information must be programmed by the responsible party and the information must be secured in such a manner that third-parties cannot modify it.
The e-label information is pre-programmed by the grantee.
The user cannot modify the e-label information.



WARNING

- Do not disassemble, modify or repair this product, or it could cause a failure, ignition, electric shock, and damage. We assume no responsibility for problems with the main unit and peripheral devices caused by such modification. Modifying this product violates the Radio Act.

Functions of Parts

Main Unit



Display

GPS RSSI

Received Signal Strength Indicator for GPS signals.

3G RSSI

Received Signal Strength Indicator for cellular signals.

Ticker Function

Information such as time, Silent Mode, and an incoming call is displayed.

Call Mode

The current call mode is displayed.

Selected Radio ID

The number of the radio ID which is selected for the current call mode is displayed.

External Microphone Connection Status

Function of Upper Left Button

The function of the upper Left Button is displayed.

Function of Up and Down/OK Button

The function of the Up and Down/OK Button is displayed.

Function of Upper Right Button

The function of the Upper Right Button is displayed.

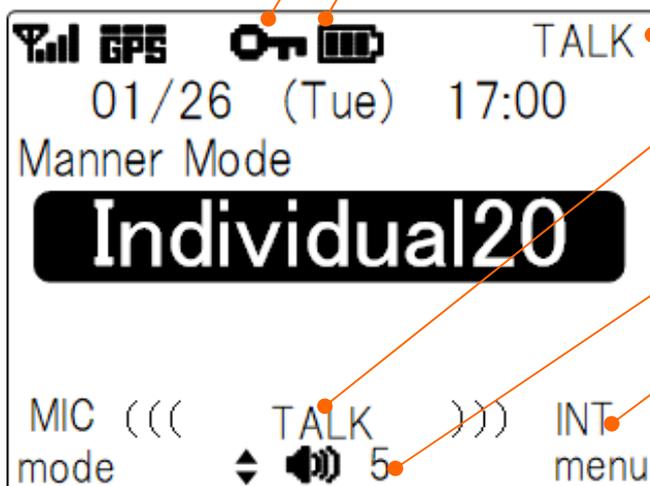
Key Lock Icon

This icon represents the status when the keys are locked.

Battery Status

The remaining battery level or external power supply is displayed.

Screen During a Call



Call Status

These are displayed during a call.

Sound Volume

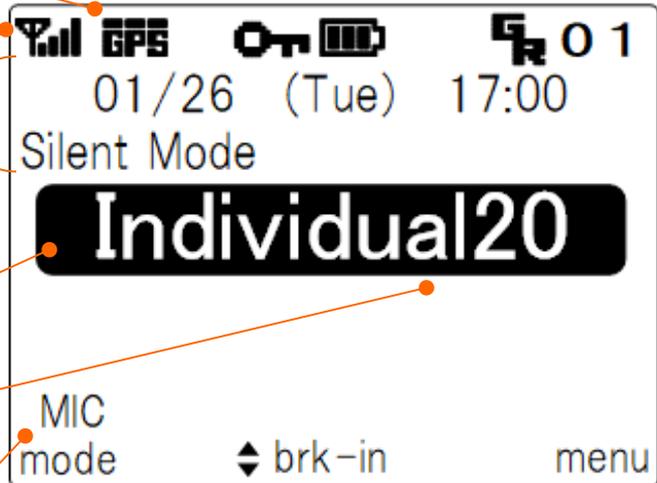
The sound volume of the speaker which is set to be output is displayed.

During a call, pressing the up or down button changes the sound volume.

Break-in Call Status

This is displayed during a break-in call.

Home Screen



Attaching and Detaching Battery Pack

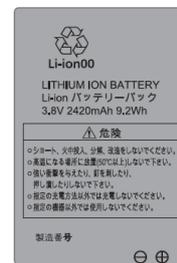
1: Move the rear cover hook on the bottom down to remove the rear cover.

2: Slide the battery pack down into the main unit with the upper claws on the rear cover fit in the groove on the rear cover hook of the main unit.



! Pay attention to the orientation of the battery pack

The battery pack shall be attached in such a way that the gold color terminal on the bottom faces the lower right (as shown in the figure on the left side) and the letters can be seen as shown in the figure on the right side.



! Incorrect attachment of the battery pack could cause a failure or an unexpected accident.

Attaching and Detaching Belt Clip

Put the screw into the belt clip screw hole and tighten it. To detach the belt clip, loosen the screw.



Recharging Battery

How to Recharge Battery Using Charger

- 1: Connect the charger to the AC adapter and then plug the AC adapter in a AC power outlet.



- 2: Insert the main unit into the charger with the guide fitting in the grooves on the side of the main unit.

- 3: The red LED on the main unit lights up and then goes out when recharging is completed.



- It takes approximately 180 minutes to recharge the battery (when the main unit is powered off).
Note: It takes longer to recharge the battery depending on communication conditions.
- Remove the power cord from the outlet after recharging is completed.
- For more details about the spare battery, please contact your dealer.

Recharging Battery Through Micro-USB Port

- 1: Open the cap (USB cap) on the bottom to find the micro-USB connector (female micro-B).

- 2: With the main unit facing front, connect a micro-USB cable to the micro-USB connector. Then, connect the opposite side of the cable to a power supply (such as a PC).

- 3: The red LED on the top of the main unit lights up and then goes out when recharging is completed.



Charger LED

Off : When the battery is not attached or recharging is completed.

Red : During recharging.



- Do not place the main unit on the charger without the battery pack.
- Be sure to meet the following recharging conditions.

Operating temperature and humidity range of the charger: 32°F to 104°F / 45 to 85% RH



- It takes approximately 360 minutes to recharge the battery (when the main unit is off).
Note: when the main unit is powered on, it takes longer to recharge the battery depending on communication conditions.

Turning the Power On/Off

Turning Power On

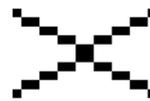
1: Pressing  long until the status LED lights up vibrates the main unit and turns the power on.
Power Knob

2: The screen lights up and the home screen is displayed.

Home Screen



• It requires some time (30 to 50 seconds) to make a call after the main unit is started up. Check the RSSI displayed on the screen before making a call.



Turning Power Off

1: Press  long.
Power Knob

2: The main unit vibrates and displays the OFF message on the screen before the power is turned off.

Power-Off Screen



Remaining Battery Level

How to Check Remaining Battery Level

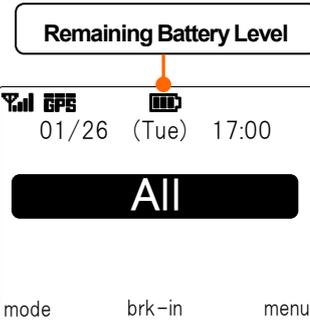
During use, the remaining battery level is displayed on the top of the home screen.



The more the scale marks, the more of the battery remains.

When no scale marks are displayed and the red LED starts flashing, recharge the battery or replace it with a new one.

During recharging, the remaining battery level icon  shows that recharging is underway.



- The battery deteriorates after repeated charge and discharge. If the battery life is extremely shorter than before, replace with a new battery.
- Under low-temperature environment, the remaining battery level displayed may be lower than the actual level.

Standby Mode

The standby mode cuts electric power consumption.



- When the standby mode setting is on, if it is not operated for a preset period of time, the device turns into the standby mode.

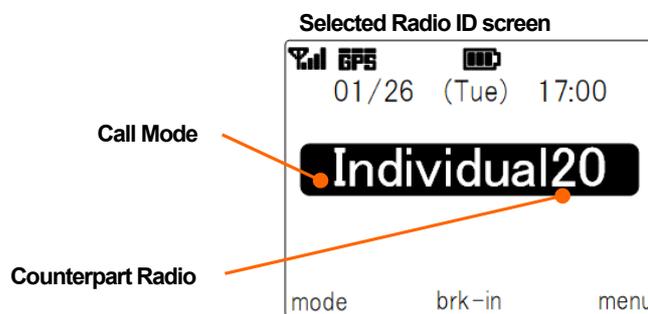
How to set the standby mode: **Menu > 09:Utilities > 01:General Settings > 05:Standby Setting.**

Making/Receiving a Call

Making a Call

For how to switch the call modes, refer to “Switching Call Modes” on page 22.

- 1 : Check if the call mode and the counterpart radio ID are correct and then press the PTT button



- 2 : After the “beep, beep, ...” ring tone, a *blip* sound is produced when the talk session is established.

- 3 : Speak into the microphone port while pressing the PTT button.



3G RSSI is just a rough indication and does not assure the call quality.

The conversing voices may be interrupted during a call even when the radio signal is strong.

Receiving a Call

1: After a blip ring tone, the call mode is displayed on the screen.

2: You can talk while long-pressing the PTT button.

- Ring Tones for Call Modes

Individual Call	Ring tone "Boop blip"
Break-in Calls	Ring tone "Boop boop blip"
Group Calls	Ring tone "Blip"

Incoming call screen



The other kinds of simultaneous calls such as All Call, and Dispatcher Call ring "Blip".

Changing Sound Volume

To change the volume for the main speaker, Turn  up or down.
Volume Knob

Main Speaker Icon on Home Screen

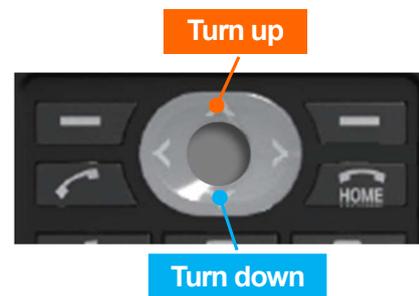


Turning down the volume to “0” using the volume knob activates the silent mode.
See the next page for the silent mode.

Turning down the volume



During the silent mode, the volume can be changed with  .
Up/Down Button



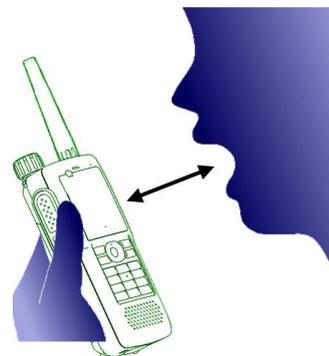
To talk with better sound

During talking, keep the microphone approximately 2 inch away from your mouth. Talking very close to the microphone may crack or distort your voice delivered to the counterpart.

How to change the microphone sensitivity:

Menu > 09:Utilities > 03:Voice Qualities > 01:Mic Sensitivity

According to the voice volume, change the voice sensitivity to one which is friendly to the counterpart.



Silent Mode

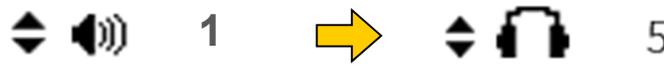
On the home screen, turning  counterclockwise changes to

Volume Knob

the silent mode as shown in the figure below. The ear speaker and the second microphone are activated. Also, in the silent mode, the top microphone and the main speaker are deactivated, respectively.



Call Position in Silent Mode



Switched to Silent Mode

While the volume is displayed with  icon, the ear speaker volume can be turned up and down

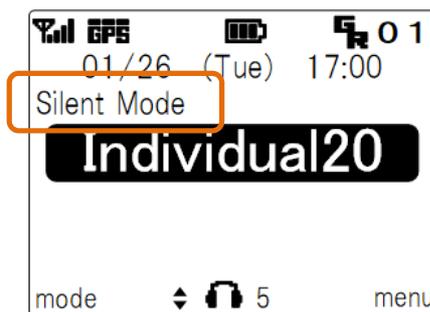
using .

Up/Down Button

To cancel the silent mode, turn  clockwise.

Volume Knob

During the silent mode, “Silent Mode” ticker is displayed on the home screen.



When the vibrator is enabled,

- The vibrator operates when switched to the silent mode.
- When a call is incoming, the vibrator operates according to a preset vibrating pattern.

Making a Call

A Wide Variety of Call Modes

■ Standard Call Modes

Individual Call	This mode enables talking to another radio on a one-to-one basis.
All Call	This mode enables talking to all radios in the customer.
Dispatcher Call	This mode enables talking to all dispatchers in the group simultaneously.
All dispatcher call	This mode enables talking to all dispatchers in the customer.
Group Call	This mode enables talking to all radios in the group simultaneously.
Channel Call	This mode enables talking to all radios which belong to the same channel in the group simultaneously.

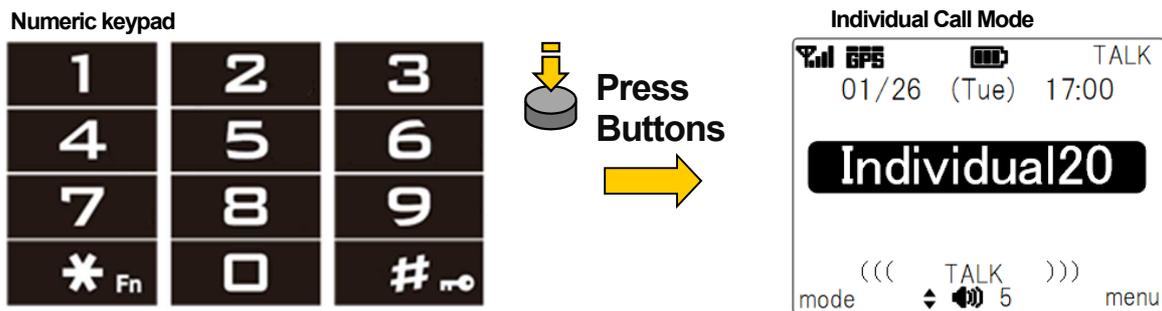
■ Break-in Call Modes

Break-in Individual Call	This mode forcibly terminates the call and makes the radio join an Individual Call.
Break-in All Call	This mode forcibly terminates the call and makes all radios join an All Call.
Break-in Group Call	This mode forcibly terminates the call and makes the radios join a Group Call.
Break-in Channel Call	This mode forcibly terminates the call and makes the radios join a Channel Call.
Break-in Dispatcher Call	This mode forcibly terminates the call and makes all the dispatchers join a Dispatcher Call.
Break-in All Dispatcher call	This mode forcibly terminates the call and makes all dispatchers join an Dispatcher Call.

Switching Call Modes

■ Making an Individual Call

- 1: Entering a radio ID with the numeric keypad on the home screen switches to the individual call mode.
However, if the home screen is in the channel call mode, switch to another call mode.



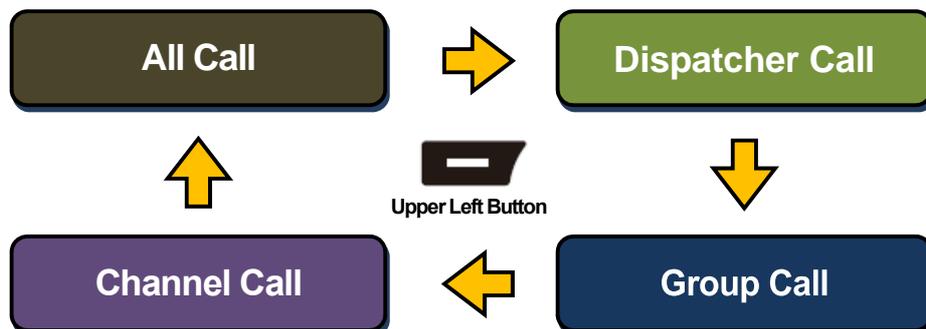
■ Making Other Calls

- 1: Pressing  on the home screen switches among the call modes.
Upper Left Button

The call modes are switched in the order they are registered on Radio Configuration Tool.

! How to Switch Call Modes

As pressing the upper left button, the call modes are switched in the order they are registered.



- The call modes that you want to use need to be registered in advance.
- Contact your dealer if you want to add or change the call modes.

Useful Functions

Registering Group

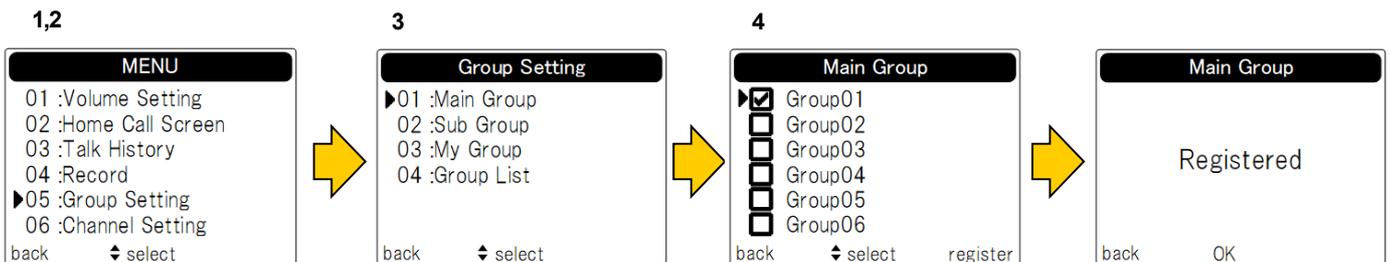
How to Use This Function

1: Switch to **Menu** screen using  .
Upper Right Button

2: Choose **05:Group Setting** using  and press  to go to the setting screen.
Up/Down Button OK Button

3: Choose **01:Main Group** using  and press  to go to the registration screen.
Up/Down Button OK Button

4: Choose a group using , check it using , and register it using  .
Up/Down Button OK Button Upper Right Button



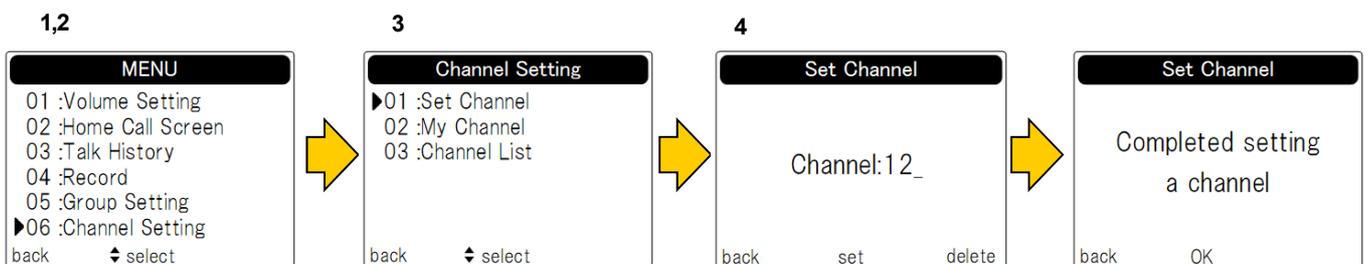
- Since the group setting requires the data communication to the cloud, the registration may fail if the radio signal is weak. If it fails, try the registration again.
- This function may not be usable depending on your system setting. Contact your dealer for details.

Useful Functions

Selecting Channel

How to Use This Function

- 1: Switch to **Menu** screen using  .
Upper Right Button
- 2: Choose **06:Channel Settings** using  and press  .
Up/Down Button OK Button
- 3: Choose **01:Set Channel** using  and press  .
Up/Down Button OK Button
- 4: Enter a channel number using the numeric keypad and press  to select it.
OK Button



- The channel can be selected using a number from 1 to 999.
Entering "0" cancels the channel selection.
- Since the channel selection requires the data communication to the cloud, selection may fail if the radio signal is weak. If it fails, try the selection again.
- This function may not be usable depending on your system setting.
Contact your dealer for details.

Useful Functions

Home Call Screen

The home screen after a call can be changed according to the following procedure:

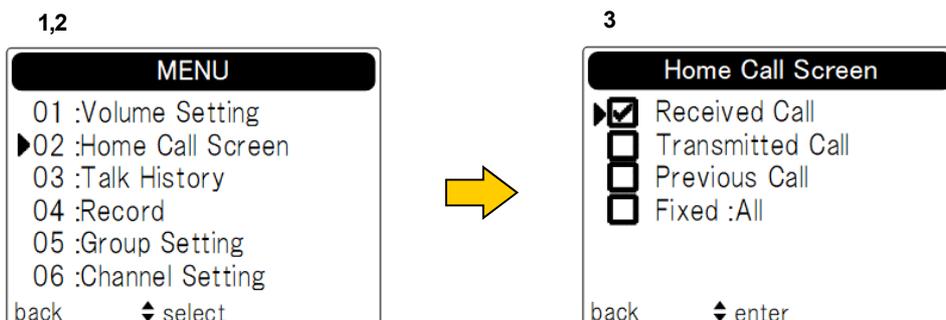
■ Home Call Screen Selection

Received Call	The call mode received from a counterpart radio is retained after the call. In the case of an individual call, the radio ID is also retained.
Transmitted Call	The call mode that you made is retained on the home screen after the call.
Previous Call	Regardless of incoming or outgoing, the radio ID of the last call and the mode are retained after the call.
Fixed	After a call, the radio ID and the call mode which are pre-programmed are retained on the home screen.

 The call mode for Fixed needs to be configured in advance.

■ How to Set This Function

- 1: Switch to **Menu** screen using  .
Upper Right Button
- 2: Choose **02:Home Call Screen** using  and press  .
Up/Down Button OK Button
- 3: Choose the home screen that you want to set using  and check it with  to complete the selection.
Up/Down Button OK Button



Useful Functions

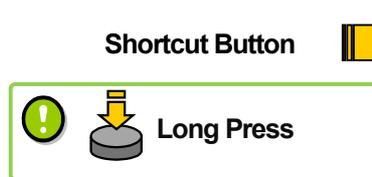
Shortcut

Registering shortcuts for the call modes and the menus which are frequently used enables them to be easily invoked. Up to ten shortcuts can be registered.

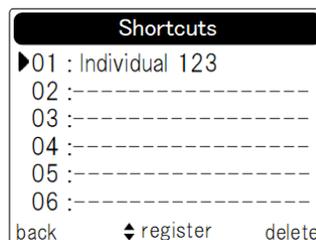
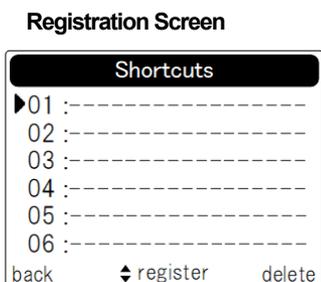
How to Register a Shortcut

(Example: Registering a shortcut for *Individual Call to unit #123*)

1: Long-press the shortcut button for 3 seconds while *unit #123* is selected.



2: When the shortcut registration screen is displayed, choose with  and register with .

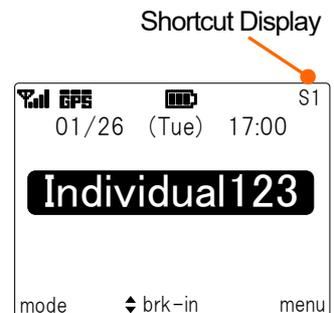


How to Invoke a Shortcut

Pressing the shortcut button switches the screens in the order they are registered.



- If multiple shortcuts are registered, they are invoked in ascending order.
- To use the shortcut function, enable the shortcut setting on RCT (Radio Configuration Tool) in advance.



Useful Functions

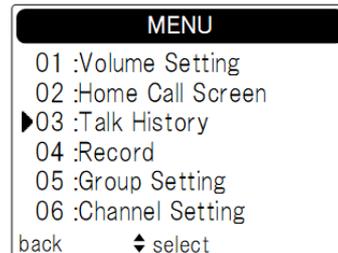
Talk History

Up to ten received and transmitted calls are saved, respectively.

How to Display Talk History

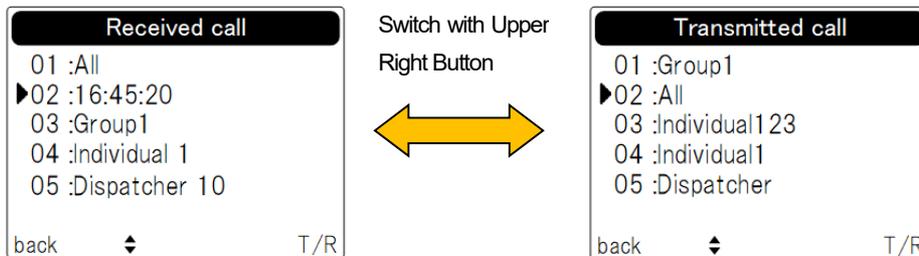
1: Switch to the **Menu** screen using  .
Upper Right Button

Menu screen



2: Choose **03:Talk History** using  and press  to switch between screens.
Up/Down Button OK Button

3: Press  to switch between the received call history and the transmitted call history.
Upper Right Button



Useful Functions

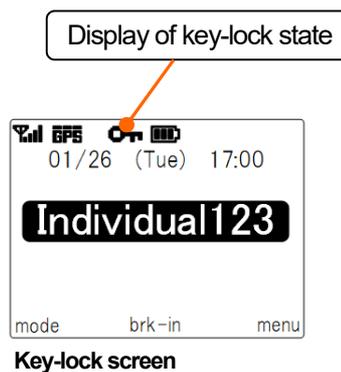
Key-Lock Function

This function disables key inputs to prevent malfunctions.

■ How to Set This Function

1 : Long-pressing  on the home screen activates the key-lock function.

However, the power/volume knob is kept enabled even in the key-lock state.



■ How to Cancel This Function

2 : To cancel the key-lock function, long-press the  again.



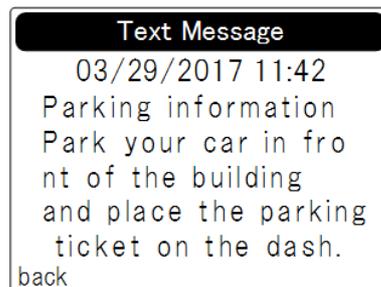
- Calls can be received even in the state where the keys are locked.
- Although the key-lock function is cancelled temporarily when a call is received, it is enabled again after the call.

Useful Functions

Text Message

If the GPS service has been introduced, the text messages can be sent to individual radios from a computer.

The text messages received can be checked again from the menu.

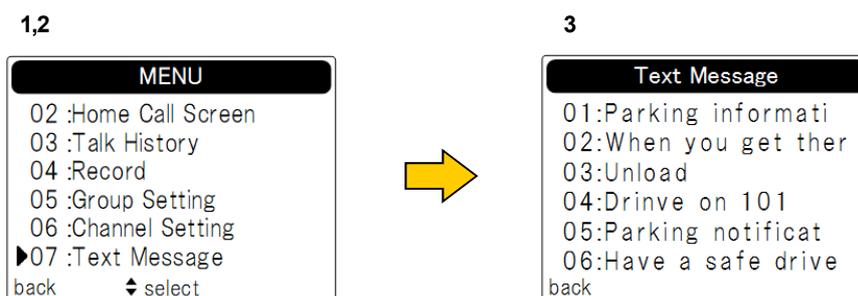


How to Check a Text Message Again

1: Switch to the **Menu** screen using  .
Upper Right Button

2: Choose **07:Text Message** using  and switch among screens using  .
Up/Down Button OK Button

3: Choose the text message you want to check again using  and switch among screens using  .
Up/Down Button OK Button



- The GPS service needs to be applied for. Contact your dealer for details.
- Up to ten text messages received are stored and can be checked from the menu.

1,2

MENU

- 03 :Talk History
- 04 :Record
- 05 :Group Setting
- 06 :Channel Setting
- 07 :Text Message
- ▶08 :Call Options

back ↕ select



3

Call Options

- ▶01 :Missed Call Alert
- 02 :Remote Monitoring

back ▼ select



3

Missed Call Alert

- ▶01 :ON/OFF
- 02 :Alert Timer

back ▼ select



4

ON/OFF

- ▶ ON
- OFF

back ▼ select



5

Missed Call Alert

- 01 :ON/OFF
- ▶02 :Alert Timer

back ▼ select



Alert Timer

- None
- ▶ 1 min
- 5 min
- 10 min
- 30 min
- 60 min

back ↕ select

Useful Functions

Vibration

The vibrator operates when a call is received.



- If the vibration is on, a vibration pattern is executed once in the event of **power on, power off, receipt of call, missed call notification, and no battery remained.**

How to set this function.

Menu > 09:Utilities > 01:General Settings > 02:Vibration

- Different vibration patterns can be set depending on the type of the call below:

Individual Call, Break-in Calls, Group Calls

How to set a vibration pattern when a call is received.

Menu > 09:Utilities > 01:General Settings > 04:Receiving Call > 01:Vibration

- The vibrator operates when the vibration setting is on and the radio is switched to the silent mode.

Useful Functions

Menu

01: Volume Settings	The speaker volume can be changed (0 to 20).
01: Main	The main speaker volume can be set.
02: Earphone	The ear speaker volume can be set.
03: Remote Speaker	The remote speaker microphone volume can be set.
04: Remote Earphone	The remote earphone speaker volume can be set.
02: Home Call Screen	The call mode displayed on the home screen after a call can be changed
<input type="checkbox"/> Received call	The call received from a counterpart radio is retained on the screen after the call. In case of an Individual Call, the radio ID is also retained.
<input type="checkbox"/> Transmitted Call	The call mode that you made is retained on the screen after the call.
<input type="checkbox"/> Previous Call	respective of whether an incoming or outgoing call, the radio ID and the last call are retained on the screen after the call.
<input type="checkbox"/> Fixed	After a call, the radio ID and the call mode which are pre-programmed are retained on the screen.
03: Talk History	The talk history of each of five past incoming and outgoing calls can be checked.
04: Record	The ten most recent calls are recorded (the voice sound of the counterpart radio only).
01: Save	The ten most recent recorded calls can be displayed, played, and saved.
02: Play	Saved calls can be displayed and played.
05: Group Setting	The call group that you want to belong to can be set.
01: Main Group	The main group that you want to belong to can be set.
02: Sub Group	The sub group that you want to belong to can be set.
03: My Group	The main and sub groups that you now belong to can be displayed.
04: Group List	The list of all groups can be displayed.
06: Channel Setting	Channels can be set.
01: Set Channel	The channel that you want to belong to can be set.
02: My Channel	The channel that you now belong to can be displayed.
03: Channel List	Up to 50 radio IDs for the channel that you now belong to can be displayed.
07: Text Message	The nine most recent text messages received can be checked.
08: Call Options	The missed call alert and the remote monitoring can be set.
01: Missed Call Alert	The call back function can be set.
02: Remote Monitoring	The remote monitor can be set.

09: Utilities	A wide variety of functions can be set.
01: General Settings	
01: Home Screen	The call or location display of the home screen can be selected.
02: Vibration	The vibrator can be enabled/disabled.
03: Multi Point CN	Any one of "no microphone connection", "Top microphone", and "2nd microphone" can be selected.
04: Receiving Call	The blocking of incoming calls and vibration in the event of the receipt of a call can be set.
01: Vibration	Vibration patterns for each call mode can be set.
01: Individual Call	Any one of "no vibration" and patterns 1-3 can be selected.
02: Break-in Calls	Any one of "no vibration" and patterns 1-3 can be selected.
03: Other Calls	Any one of "no vibration" and patterns 1-3 can be selected.
02: Block Incoming	The blocking of incoming calls can be set.
05: Standby Setting	The starting time of standby mode can be set.
06: USB Setting	USB communication can be selected.
07: Reset All Settings	All settings can be returned to default values.
02: Shortcuts	The list of registered short-cuts can be displayed or cancelled.
03: Voice Qualities	The equalizer function and microphone sensitivity can be adjusted.
01: Mic Sensitivity	Microphone sensitivity can be changed.
04: Display Settings	The screen display and light can be set.
01: Contrast	The screen contrast can be adjusted.
02: Key Back Light	The key back light can be turned on/off.
03: LCD Back Light	The LCD back light can be turned on/off.
04: LCD BL Color	The LCD back light color can be set.
05: Illumination	The illuminance sensor can be turned on/off.
05: Tones	Effective sounds can be enabled/disabled.
01: Power Up	The boot sound can be enabled/disabled.
02: Key Touch Tone	The key touch sound can be enabled/disabled.
03: Message Tone	Whether the text message receipt sound is produced only once or continuously can be selected.
04: Tone Volume	The volume balance of effective sounds can be set.
05: Call Tones	The call-related sounds can be turned on/off.
01: Ring Tone	Can be turned on/off.
02: PTT Tone	Can be turned on/off.
03: Talk Permit Tone	Can be turned on/off.
04: Connect Tone	Can be turned on/off.
05: Disconnect Tone	Can be turned on/off.
06: System Status	The status of the network and system can be checked.
01: GPS status	The GPS receiving status can be displayed.
01: Receiving Status	The status can be displayed.
02: Lat/Lon	The status can be displayed.
03: Spd/Deg/Alt	The status can be displayed.

04: GPS Time	The time can be displayed.
05: System Clock	The time of receipt can be displayed.
06: GPS RSSI	The level can be displayed.
02: Network Status	The RSSI and communication status of 3G packet communication can be displayed.
01: 3G RSSI	The status can be displayed.
02: 3G Condition	The status can be displayed.
03: Module Condition	The status of the 3G module can be displayed.
03: Voltage/Current	The status of the power voltage and current which are supplied to the main unit can be displayed.
04 : Device Condition	The current status of the device can be displayed.
01: Key Checker	The keys which are pressed can be displayed.
02: USB	The USB connection status can be displayed.
03: Charge	The status of power supply and charge can be displayed.
05: Microphone Test	Pressing the PTT button can start recording and releasing it can play the recorded sound.
06: IP Address	The IP address of this system can be displayed.
07: System Info	The software version and serial number can be displayed.
01: Software Ver.	The firmware version of this radio can be displayed.
02: Serial Number	The serial number of this radio can be displayed.
03: 3G Firmware	The firmware version of the 3G module can be displayed.
07: Advanced Settings	This function is used by a retailer when various settings are configured and requires a password.
08: FCC	The technology conformance mark can be displayed.



Some functions may not be used depending on the type of system used. Contact a dealer for details.

Troubleshooting

If You Suspect A Failure

If you suspect a failure, check the following procedure.

<p>The power cannot be turned on</p>	<ul style="list-style-type: none"> ■ If the length of time of pressing the power button is too short, the system does not start up. Long-press the power button until the status LED lights up. ■ Check if the battery pack is attached properly. ■ If the remaining battery level is insufficient, the system cannot start up. Recharge the battery or replace it with a new one.
<p>The buttons cannot be operated</p>	<ul style="list-style-type: none"> ■ If the key-lock function is enabled, the buttons cannot be operated. Check if the key-lock function is disabled.
<p>In spite of trying to make a call, you have trouble getting through to a counterpart</p>	<ul style="list-style-type: none"> ■ If any of the following messages are displayed on the screen, take the following actions: <i>“Receiver is on another session. Call back later.”</i> This message is displayed when the counterpart radio is on the line. Make the call again later. <i>“No reply. Receivers are out of range or powered off.”</i> The counterpart radio is switched off or out of the service area. Make the call again later. <i>“Error. Wrong Number.”</i> The radio ID is not registered in the system. Check if the number is correct. <i>“Out of range. Can't connect to voice server.”</i> Check the 3G RSSI on the microphone screen and make the call again in a place where the radio signal is strong. <i>“Out of range. Can't connect to voice server.”</i> <i>“Can't call now. Call back later.”</i> There is the possibility of a network failure. Make the call again later.
<p>You have trouble transmitting your voice</p>	<ul style="list-style-type: none"> ■ The sound quality may be deteriorated if your mouth is too close to the microphone. Keep the microphone approximately 2 inches away when you talk. ■ Be careful not to put your fingers on the microphone sound collecting port. ■ The microphone sensitivity can be changed from 09:Utilities in Menu. Adjust the microphone sensitivity according to the loudness of your voice. How to adjust the microphone sensitivity: Menu > 09:Utilities > 03:Voice Quality > 02:Mic Sensitivity
<p>You have trouble hearing the voice of a counterpart</p>	<ul style="list-style-type: none"> ■ Check if the volume setting is too small. ■ Be careful not to put your hand on the speaker.
<p>The battery cannot be recharged</p>	<ul style="list-style-type: none"> ■ Check if the power cord is properly connected to the charger and the power outlet. ■ Check if the USB cable is properly connected (at the time of recharging through USB). ■ Check if the battery pack is attached properly.

Specifications

Dimensions	2.13 (W) × 1.18 (D) × 4.84 (H) in. (Projections are not included.)
Weight	8.47 oz (with Battery Pack)
Power Voltage	Supplied from charger: 5.5 V DC (Maximum current: 2 A) Supplied from USB: 5.0 V DC (Maximum current: 500 mA) Supplied from Battery: 3.8 V DC (2,420 mAh)
Consumption Current	Typical 350 mA, Maximum 500 mA. Standby: 260 mA
Operating Temperature	-4°F to +140°F +32°F to +104°F (During Charging)
Network	AT&T HSPA+ (850MHz / 1900 MHz)
Transmission Output	Maximum 0.25 W
Regulatory	FCC ID: 2AHUQSL8090
Speaker Output	2 Systems: Main Speaker of 1W, Ear speaker of 0.01 W
Water and Dust Proof	Equivalent to IP67

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