MPT-H1 INSTRUCTION MANUAL



Mobile Create Co., Ltd. Rev. 1.0 – 2015

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

	This sign indicates a hazardous situation which could significantly result in serious injury or death.	
	This sign indicates a hazardous situation which could result in serious injury or death.	
	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	
VVANINING	

- 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.



- 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

\land 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 shortcircuited 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.



- 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.

- 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.
- 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.

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.



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, disasterprevention, 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-complied. 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.

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

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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

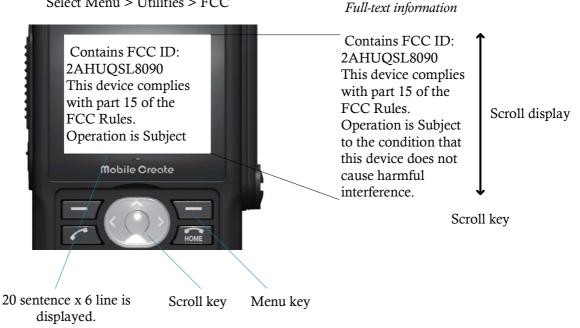
CAUTION

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:



Select Menu > Utilities > FCC

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. Yes.

- 4. Users are provided specific instructions on how to access the information. **Yes.**
- 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 formation.

This MPT-H1 model conforms to the technical standards for the absorption of radio waves into the human body established by the government, as well as international guidelines for radio-radiation protection. These guidelines, established on scientific grounds to prevent radio waves emitted from wireless devices such as cellular phones, which are used close to the human head, from affecting human health, stipulates that the Specific Absorption Rate (SAR) representing the average energy amount of radio waves absorbed into the human head shall not exceed the guideline value of 2 W/kg. This guideline value, which includes sufficient safety factor regardless of the age and body size of the user, is equivalent to the international guidelines established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in a cooperative relationship with the World Health Organization (WHO).

The highest SARs of this wireless device on the temporal region of the head and when this device is worn on the body are 0.634 W/kg and 0.742 W/kg respectively. Although SARs may vary slightly depending on each product, they all satisfy the permitted value.

For detailed information on SAR, refer to the following websites:

The Radio Use Website of the Ministry of Internal Affairs and Communications of Japan http://www.tele.soumu.go.jp/j/sys/ele/index.htm Association of Radio Industries and Businesses of Japan http://www.arib-emf.org/index02.html



 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

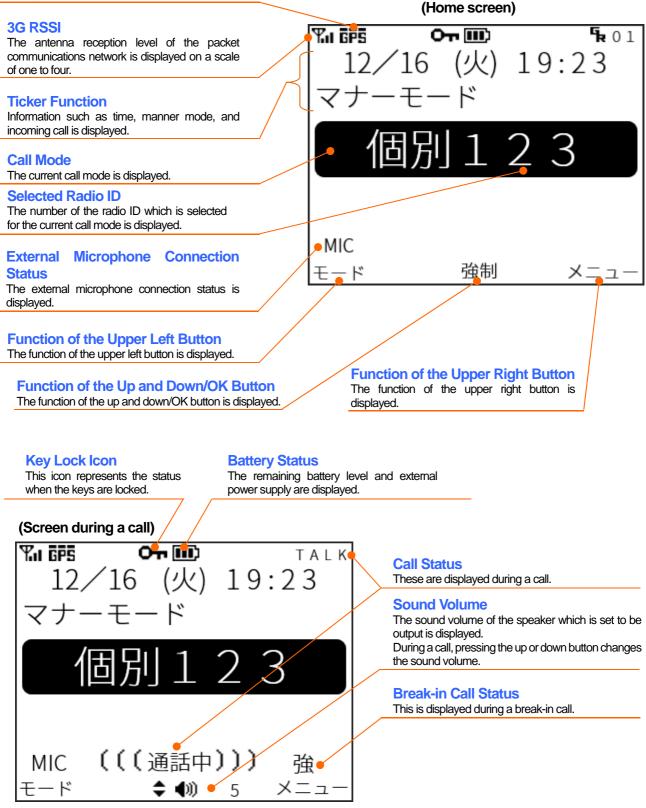
Main unit



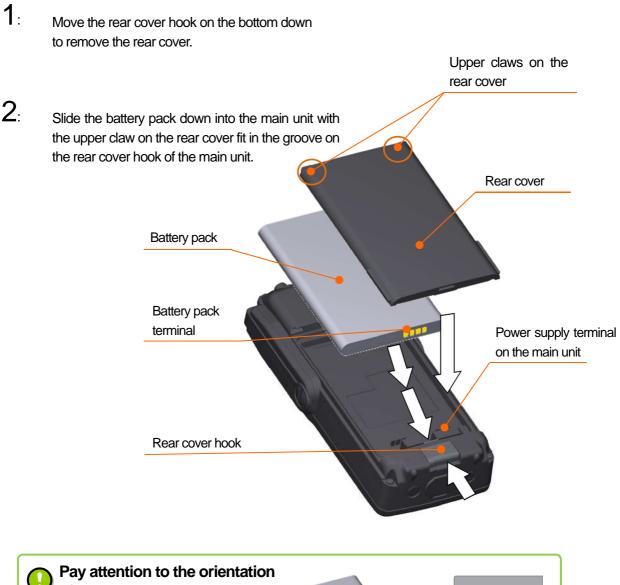
Display screen

GPS RSSI

The reception level of the GPS receiving antenna is displayed.



Attaching and detaching the battery pack



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 the belt clip

- 1: With the belt clip hole aligned with the belt clip screw hole, put the belt clip screw into the belt clip hole and tighten it.
- 2: Loosen the belt clip screw to detach the belt clip.



Recharging the Battery

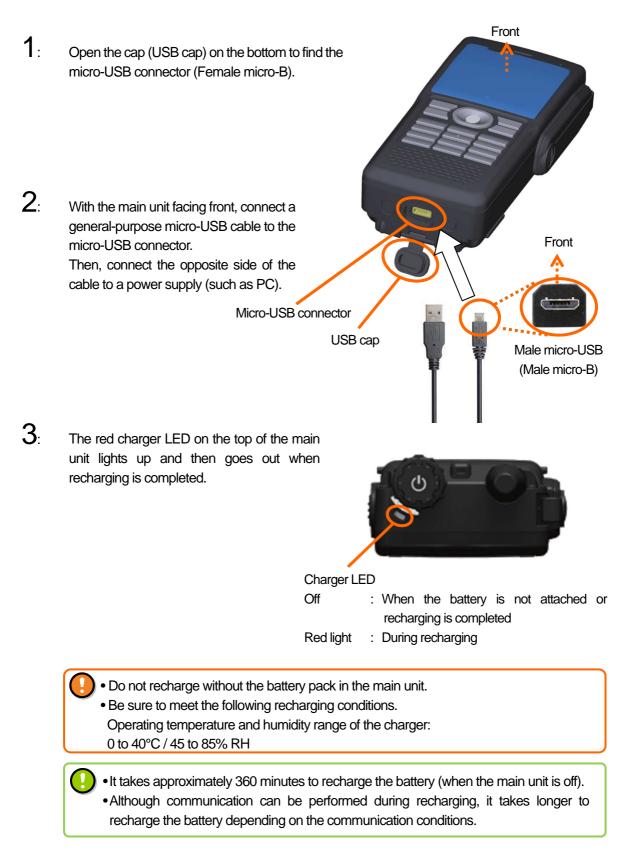
How to recharge the battery using a recharging cradle



It takes approximately 180 minutes to recharge the battery (when the main unit is off).
Although communication can be performed during recharging, it takes longer to recharge the battery depending on the communication conditions.

- Remove the power cord from the outlet after recharging is completed.
- For more details about the spare battery, please contact our distributor.

Recharging the battery through the micro-USB port



Turning the Power On/Off

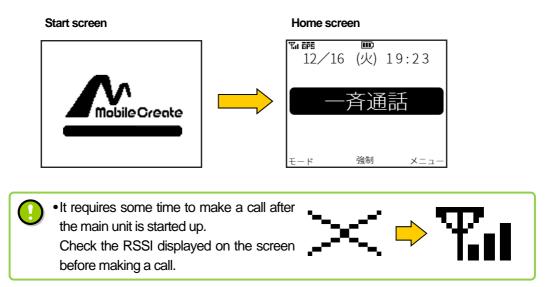
Turning the power on

1: Pressing the

long until the status LED lights up vibrates the main unit and turns the power on. Power button

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

After a system check, the home screen is displayed.



Turning the power off



How to check the remaining battery level

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



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



Home screen

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

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



• The battery pack deteriorates after repeated electric recharge and discharge. If the battery life is extremely shorter than before, replace with a new battery pack.

• Under low-temperature environment, the remaining battery level displayed may be lower than the actual level.

Standby mode

Standby mode is a mode which cuts electric power consumption.

• When Standby mode is on, the product is switched to this mode if it is not operated for a preset period of time.

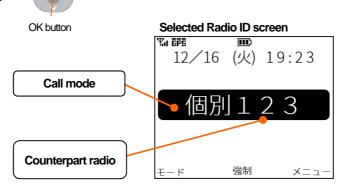
How to set Standby mode [Menu] > [09: 機能設定 (Utilities)] > [01: 一般設定 (General Settings)] > [05:エコモード設定 (Standby Setting)]

Making/Receiving a Call

Making a call (outgoing)

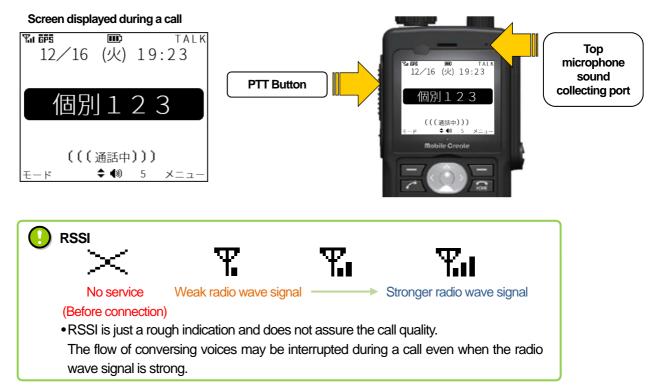
A call can be made in the call mode selected on the screen. For how to switch call modes, refer to "Switching call modes" on page 21.

1 : Check if the call mode and counterpart radio that you want to make a call to are correct and then press the PTT button or the



2: After the "beep, beep, …" dialing tone, a blip sound is produced when the connection is completed.

 ${f 3}$: Speak into the microphone sound collecting port while pressing the PTT button.



Receiving a call (incoming)

 $\boldsymbol{1}$: After a blip ring tone, the call mode is displayed on the screen.

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

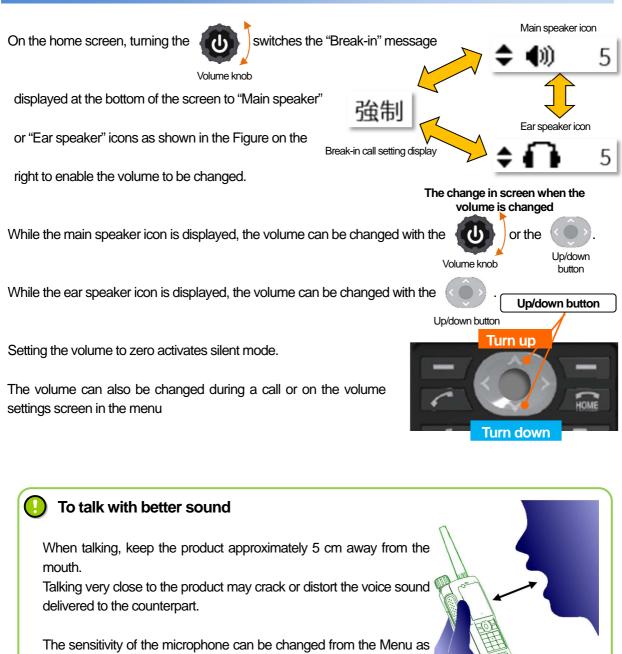
Ring tones for different call modes	
Individual Call	Ring tone "Boop blip"
Break-in Calls	Ring tone "Boop boop blip"
Group Calls	Ring tone "Blip

Incoming call screen



Other kinds of group calls: Group call, all call, and dispatcher call, etc.

Changing the sound volume



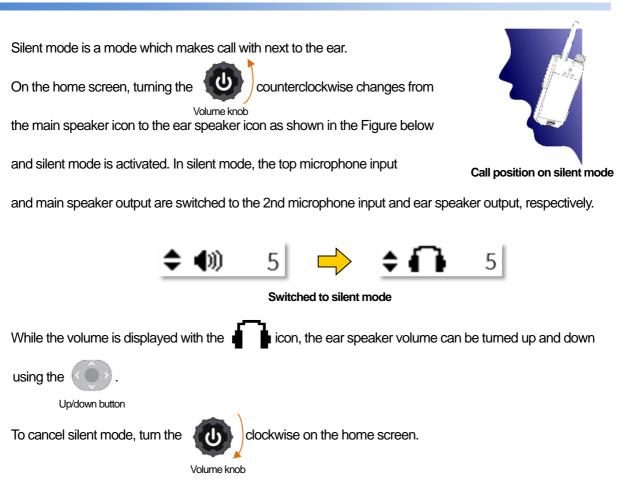
follows:

How to change the microphone sensitivity:

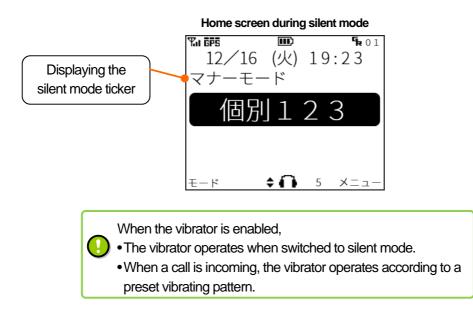
[Menu] > [09: 機能設定 (Utilities)] > [03: 音質設定 (Voice Qualities)] > [02: マイク感度 (Mic Sensitivity)]

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

Silent mode



On the home screen during silent mode, the "silent mode" ticker is displayed.



A wide variety of call modes

Standard call modes

Individual call	This mode enables talking to an another radio on a one-to-one basis.
Dispatcher call	This mode enables talking to all dispatchers in the group simultaneously.
All call	This mode enables talking to all radios together.
Group call	This mode enables talking to all radios in the group simultaneously.
Channel call	This mode enables talking to radios registered with the same channel number.
Talkaround call	This mode enables talking to radios in a user who exist within a predetermined distance centering around the mobile radio of the caller.

Interrupt call modes

Break-in individual call	This mode forcibly terminates a radio during a call and makes it join an individual call.
Break-in dispatcher call	This mode forcibly terminates a dispatcher during a call and makes it join a dispatcher call.
Break-in all call	This mode forcibly terminates radios during a call and makes them join an all call.
Break-in group call	This mode forcibly terminates radios in the group during a call and makes them join a group call.
Break-in channel call	This mode forcibly terminates radios within the same channel number during a call and makes them join a channel call.
Break-in all dispatcher call	This mode forcibly terminates all dispatchers during a call and makes them join an all dispatcher call.

Special-purpose call mode

All dispatcher call	This mode enables talking to all dispatchers including those in different
	groups.

• Adding or changing call modes requires setting by a dealer. Contact a dealer for details.

Switching call modes

In the case of an individual call

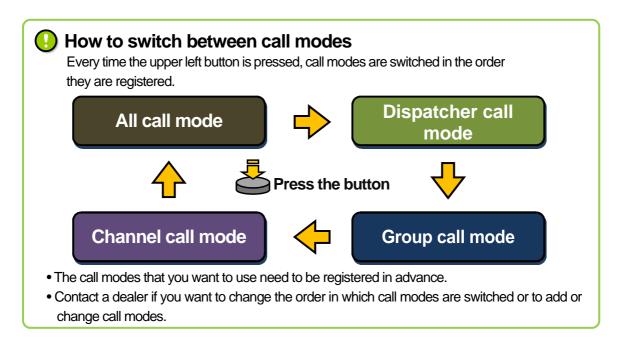
1 : Entering a radio ID with the numeric keypad on the home screen switches to individual call mode. However, if the home screen is in channel call mode, enter a channel number.

Numeric keypad Individual call mode Thi GPS III) TALK 12/16 (火) 19:23 ./@ あ ABC DEF ons GHI は MNC PQRS TUV 5 Ŧ (((通話中))) Fn 🗢 🜒 5 メニュ

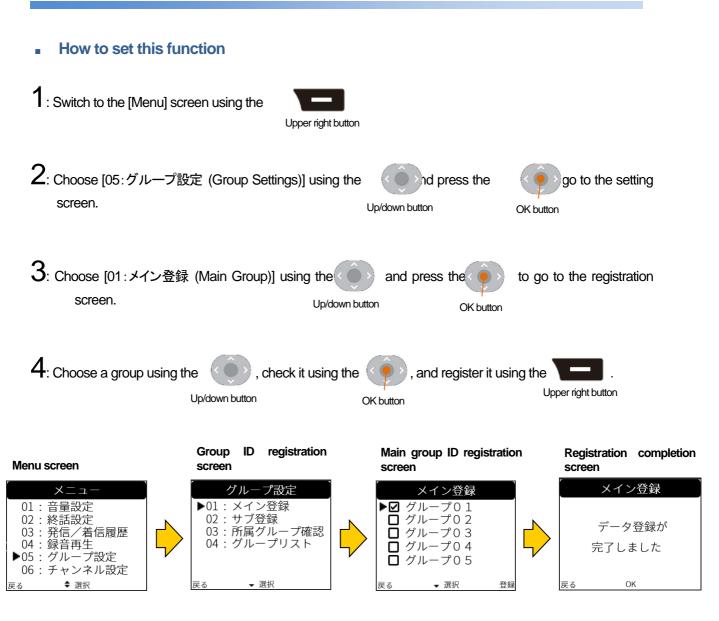
In the case of other call modes

1 : Pressing the Upper left button on the home screen switches among call modes.

Call modes are switched in the order they are registered.



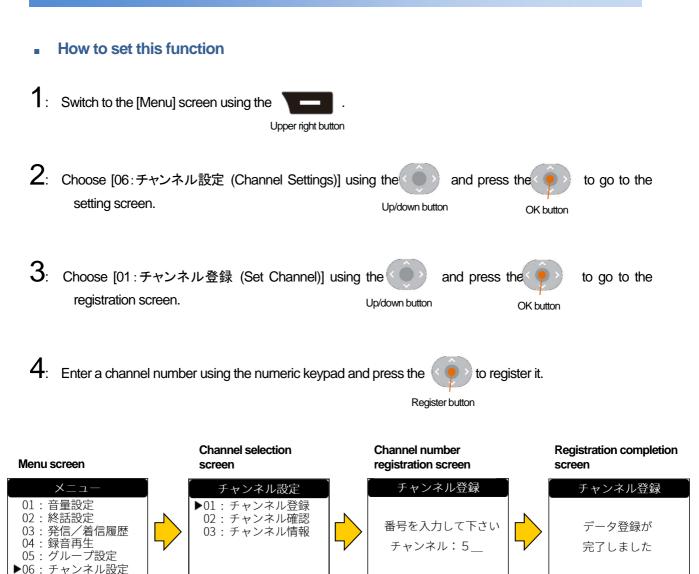
Register group ID function



- Since group ID registration requires packet transfer communication, registration may fail if radio wave signals are weak. If it fails, try the registration again.
- This function may not be usable depending on the type of system you use. Contact a dealer for details.

Channel selection function

◆ 選択



• Since channel selection requires packet transfer communication, selection may fail if radio wave signals are weak. If it fails, try the selection again.

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• This function may not be usable depending on the type of device you have. Contact a dealer for details.

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Call back mode selection function

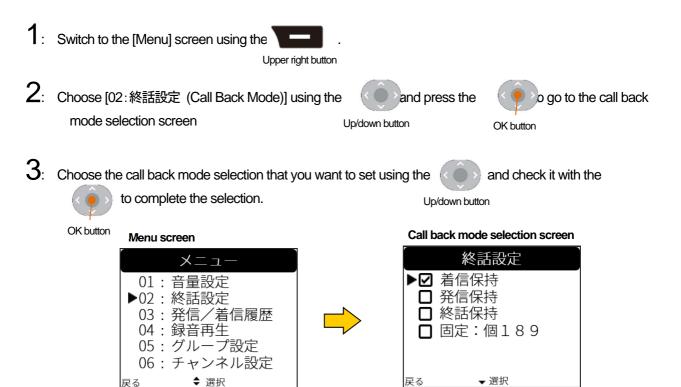
The radio displayed on the home screen after a call can be changed according to the following procedure:

Call back mode selection

Received call mode	The mode of the call received from a counterpart radio is retained after a call. In the case of an individual call, the radio ID is also retained.
Transmitted call mode	The radio ID and mode of the call that you made are retained after a call.
Previous call mode	Irrespective of whether an incoming or outgoing call, the radio ID and mode of the last call are retained after a call.
Initial call mode	After a call, the radio ID and call modes are switched to those set here. Any individual radio and call mode which are already registered can be chosen.

The call mode which is set as the initial call mode needs to be registered in advance. Contact a dealer for details.

How to set this function

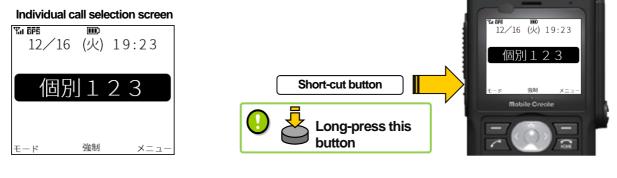


Short-cut function

Registering short-cuts for call modes, individual radios, and menus which are frequently used enables them to be easily invoked. Up to ten short-cuts can be registered.

How to register a short-cut (Example: Registering a short-cut for the No. 123 individual radio)

1 : Long-press the short-cut button while the No. 123 individual radios is selected.



2: When the short-cut registration screen is displayed, choose with the



^ORegistration screen

シ	·ヨートカット設定	
▶1:	:	
2 :		
3 :	:	
4 :		
5 :	:	
6 :	:	
戻る	▼ 登録 ジョンジョン ジョン ジョン ジョン ション ひょうしょう しょうしょう しょうしょう マンチャン ひょうしょう マンチャン ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう マンチャンション ひょうしょう マンチャンション ひょうしょう ひょうしょう ひょうしょう ひょうしょう マンチャンション ジョン ひょうしょう マンチャンション マンチャンション マンチャンション ジョン ひょうしょう マンチャンション ひょうしょう マンチャンション ひょうしょう マンチャンション ひょうしょう ひょう マンチャンション ひょう ひょう ひょうしょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひ	肖去

Up/down button

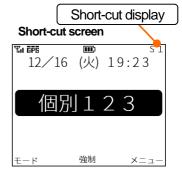


How to invoke a short-cut

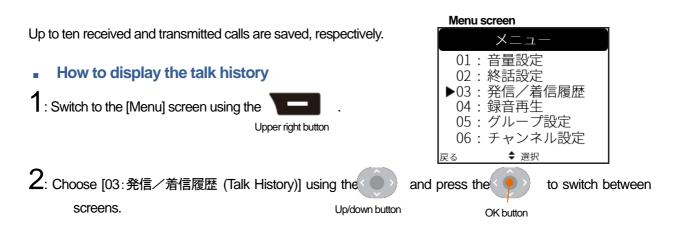
1: Pressing the short-cut button switches the screens in the order they are registered.

- If multiple numbers of short-cuts are registered, they are invoked in ascending order.
 - Short-cuts may not be usable depending on the type of device used.

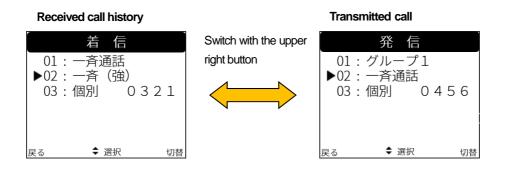
Contact a dealer for details.



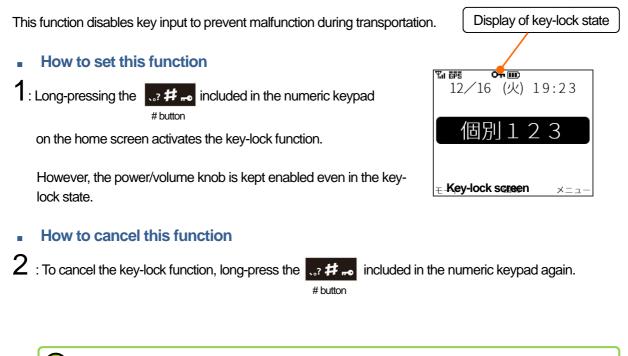
Talk history function



3: Press the Upper right button to switch between the received call history and the transmitted call history.



Key-lock function

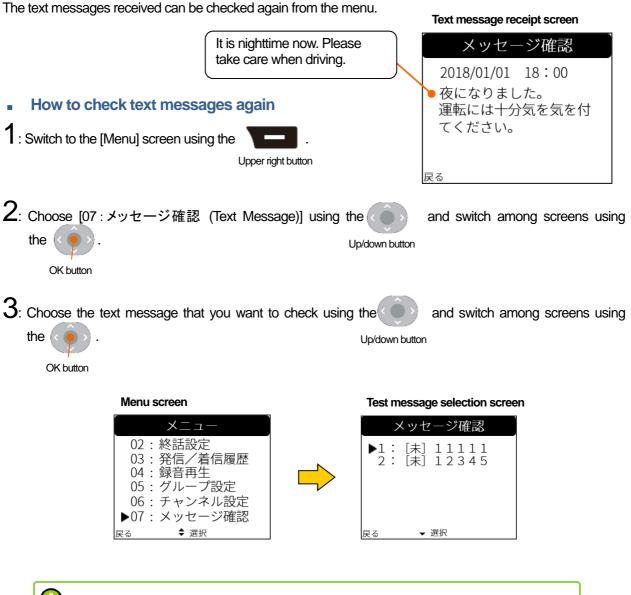


•Calls can be received even in the state where the keys are locked.

• Although the key-lock function is cancelled temporarily when a call is received, it is enabled again after the call.

Text message function

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



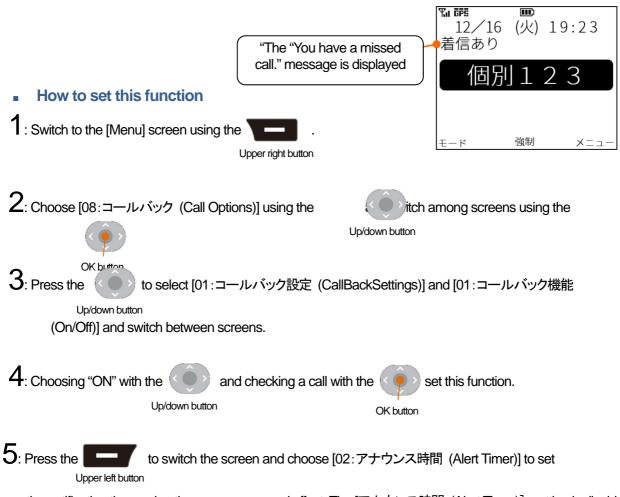
The dynamic control service needs to be applied for. Contact a dealer for details.
Up to ten text messages received are stored and can be checked from the menu.

Call back function

If the main unit is not operated during an individual call, the "着信あり" message is displayed on the home screen.

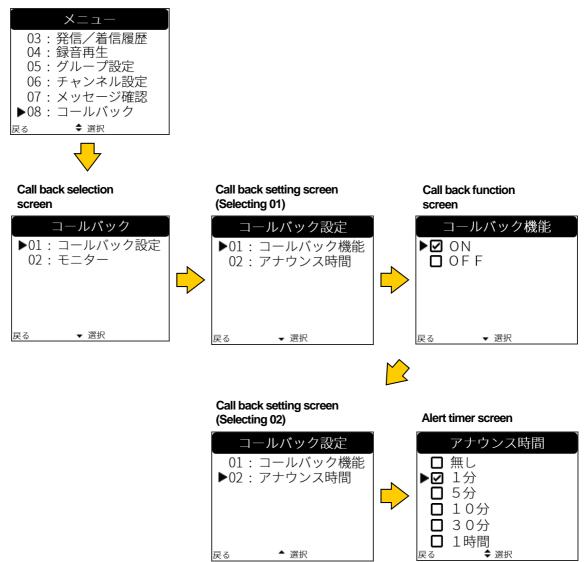
Home screen: If you had a call

To make a call to a caller, press the PTT button or the OK button.



the notification timer using the announce sound effect. The [アナウンス時間 (Alert Timer)] setting is disabled when the main unit is switched to standby mode.

Menu screen



Vibration function

The vibrator operates when a call is received and a mode is changed.

If the vibration function is on, a vibration pattern is executed once in the event of "power on," "power off," "receipt of call," "call back," and "no battery remained." How to set this function [Menu] > [09: 機能設定 (Utilities)] > [01:一般設定 (General Settings)] > [02:バイブ設定 (Vibration)]
Different vibration patterns can be set depending on the type of call: Individual Call : No vibration + three vibration patterns Break-in Calls : No vibration + three vibration patterns Group Calls : No vibration + three vibration patterns How to set a vibration pattern when a call is received [Menu] > [09: 機能設定 (Utilities)] > [01:一般設定 (General Settings)] > [04:着信設定 (Receiving Call)] > [01:着信バイブ設定 (Vibration)]
The vibrator operates when the main unit is switched to silent mode with the vibration function on.

Menu function

Menu

01:音量設定 (Volume Settings) 01:メイン (Main) 02:イヤー (Ear) 03:ハンド (Remote Speaker) 04:イヤホン (Headphone)	The speaker volume can be changed (0 to 20). The main speaker volume can be set. The ear speaker volume can be set. The speaker volume of the speaker microphone can be set. The head set speaker volume can be set. The call mode displayed on the home screen after a call can be changed The mode of the call received from a counterpart radio is retained after a call.
02:イヤー (Ear) 03:ハンド (Remote Speaker) 04:イヤホン (Headphone)	The ear speaker volume can be set. The speaker volume of the speaker microphone can be set. The head set speaker volume can be set. The call mode displayed on the home screen after a call can be changed
03:ハンド (Remote Speaker) 04:イヤホン (Headphone)	The speaker volume of the speaker microphone can be set. The head set speaker volume can be set. The call mode displayed on the home screen after a call can be changed
04:イヤホン (Headphone)	The head set speaker volume can be set. The call mode displayed on the home screen after a call can be changed
	The call mode displayed on the home screen after a call can be changed
02:終話設定 (Call Back Mode)	The mode of the call received from a counterpart radio is retained after a call
□ 着信保持 (Received call)	In the case of an individual call, the radio ID is also retained anel a call.
□ 発信保持 (Transmitted call)	The radio ID and mode of the call that you made are retained after a call.
□ 終話保持 (Previous call)	Irrespective of whether an incoming or outgoing call, the radio ID and mode of the last call is retained after a call.
口 固定 (Fixed): グループ (Group)	After a call, the radio ID and call modes are switched to those set here. Any individual radio and call mode which are already registered can be chosen.
03:発信 / 着信履歴 (Talk History)	The talk history of each of ten past incoming and ongoing calls can be checked.
04:録音再生 (Record Settings)	The ten most recent calls are recorded (the voice sound of the counterpart radio only).
01:音声メモ (Save)	The ten most recent recorded calls can be displayed, played, and saved.
02:保存録音 (Play)	Saved calls can be displayed and played.
05:グループ設定 (Group Settings)	The call group that you want to belong to can be set.
01:メイン登録 (Main Group)	The main group that you want to belong to can be set.
02:サブ登録 (Sub Group)	The sub group that you want to belong to can be set.
03:所属グループ確認 (My Group)	The main and sub groups that you now belong to can be displayed.
04:グループリスト (Group List)	The list of all groups can be displayed.
06:チャンネル設定 (Channel Settings)	Channels can be set.
01:チャンネル登録 (Set Channel)	The channel that you want to belong to can be set.
02:チャンネル確認 (My Channel)	The channel that you now belong to can be displayed.
03:チャンネル情報 (Channel List)	The list of up to 50 radio IDs for the channels that you now belong to can be displayed.
07:メッセージ確認 (Text Message)	The ten most recent text messages received can be checked.
08:コールバック (Call Options)	The call back function and the remote monitor can be set.
01:コールバック設定 (CallBackSettings)	The call back function can be set.
02:モニター (Remote Monitor)	The remote monitor can be set.

01:一般設定 (General Settings) Settings can be reset. 01:ホーム設定 (Home setting) The call or location display of the home screen can be selected 02:バイブ設定 (Vibration) The vibrator can be enabled/disabled. 03:マイク接続設定 (Multi Point CN) Any one of "no microphone connection", "Top microphone", microphone" can be selected. 04:着信設定 (Receiving Call) The blocking of incoming calls and vibration in the event of the a call can be set. 01:着信バイブ設定 (Vibration) Vibration patterns for each call mode can be set. 01:着信がイブ設定 (Vibration) Any one of "no vibration" and patterns 1-3 can be selected.	and "2nd
02:バイブ設定(Vibration) The vibrator can be enabled/disabled. 03:マイク接続設定(Multi Point CN) Any one of "no microphone connection", "Top microphone", microphone" can be selected. 04:着信設定(Receiving Call) The blocking of incoming calls and vibration in the event of the a call can be set. 01:着信バイブ設定(Vibration) Vibration patterns for each call mode can be set. 01:個別通話(Individual Call) Any one of "no vibration" and patterns 1-3 can be selected.	and "2nd
03:マイク接続設定 (Multi Point CN) Any one of "no microphone connection", "Top microphone", microphone" can be selected. 04:着信設定 (Receiving Call) The blocking of incoming calls and vibration in the event of the a call can be set. 01:着信バイブ設定 (Vibration) Vibration patterns for each call mode can be set. 01:個別通話 (Individual Call) Any one of "no vibration" and patterns 1-3 can be selected.	
03:マイク接続設定 (Wild Point CN) microphone" can be selected. 04:着信設定 (Receiving Call) The blocking of incoming calls and vibration in the event of the a call can be set. 01:着信バイブ設定 (Vibration) Vibration patterns for each call mode can be set. 01:個別通話 (Individual Call) Any one of "no vibration" and patterns 1-3 can be selected.	
04: 酒音設定 (Receiving Call) a call can be set. 01:着信バイブ設定 (Vibration) Vibration patterns for each call mode can be set. 01:個別通話 (Individual Call) Any one of "no vibration" and patterns 1-3 can be selected.	receipt of
01:個別通話 (Individual Call) Any one of "no vibration" and patterns 1-3 can be selected.	
02. 建制态语言 (Prool in Collo) Any one of "sex introtion" and nother to a set be selected	
02:強制系通話 (Break-in Calls) Any one of "no vibration" and patterns 1-3 can be selected.	
03:その他同報系通話 (Group Calls) Any one of "no vibration" and patterns 1-3 can be selected.	
02:拒否通話モード (Block Incoming) The blocking of incoming calls can be set.	
05:エコモード設定 (Standby Setting) The starting time of standby mode can be set.	
06:USB 接続設定 (USB Setting) USB communication can be selected.	
07:設定リセット (ResetAllSettings) All settings can be returned to default values.	
02:ショートカット (Short Cuts) The list of registered short-cuts can be displayed or cancelled.	
03:音質設定 (Voice Qualities) The equalizer function and microphone sensitivity can be adjus	ted.
01:スピーカ音質 (Speaker Quality) The sound equalizer function can be selected.	
02:マイク感度 (Mic Sensitivity) Microphone sensitivity can be changed.	
04: 表示•照明設定 (Display Settings) The screen display and light can be set.	
01:コントラスト (Contrast) The screen contrast can be adjusted.	
02:キーバックライト (Key Back Light) The key back light can be turned on/off.	
03: バックライト (LCD Back Light) The LCD back light can be turned on/off.	
04: バックライト色 (LCD BL Color) The LCD back light color can be set.	
05:照度センサ (Illuminance) The illuminance sensor can be turned on/off.	
05:効果音設定 (Sound Effects) Effective sounds can be enabled/disabled.	
01:起動音 (Boot Sound) The boot sound can be enabled/disabled.	
02:キータッチ音 (Key Touch Tone) The key touch sound can be enabled/disabled.	
03:メッセージ受信音 (Message Tone) Whether the test message receipt sound is produced only continuously can be selected.	once or
04:通話モード選択音 (CallMode The call mode announce sound can be enabled/disabled.	
05:効果音音量 (Volume) The volume balance of effective sounds can be set.	
06:通話関連 (Call) The call-related sounds can be turned on/off.	
01:コール音 (Call Tone) Can be turned on/off.	
02:プレス音 (PTT Tone) Can be turned on/off.	
03 : プレス解放音・ザ(Talk Permit Tone)	
04:接続音 (Connect Tone) Can be turned on/off.	
05:切断音 (Disconnect Tone) Can be turned on/off.	
06:機器状態確認 (System Status) The status of the network and system can be checked.	
01:システム時刻 (System Clock) The time of receipt can be displayed.	
02:GPS 状態 (GPS status) The GPS receiving status can be displayed.	
01: 測位状態 (Receiving Status) The status can be displayed.	
02:緯度経度 (Lat/Lon) The status can be displayed.	

03:速度/方位/高度 (Spd/Deg/Alt)	The status can be displayed.
04:GPS 時刻 (GPS Time)	The time can be displayed.
05:受信レベル (GPS RSSI)	The level can be displayed.
03:ネットワーク状態 (Network Status)	The RSSI and communication status of 3G packet communication can be displayed.
01:アンテナレベル (3G RSSI)	The status can be displayed.
02:通信状態 (3G Condition)	The status can be displayed.
03:モジュール状態 (Module Condition)	The status of the 3G module can be displayed.
04: 電源電圧·電流 (Voltage/Current)	The status of the power voltage and current which are supplied to the main unit can be displayed.
05:外部接続機器状態(Device Condition)	The current status of the device can be displayed.
01:各種キー (Key Checker)	The keys which are pressed can be displayed.
02:USB 接続状態 (USB)	The USB connection status can be displayed.
	The status of power supply and charge can be displayed.
06:マイクテスト(Microphone Test)	Pressing the PTT button can start recording and releasing it can play the recorded sound.
07:IPアドレス (IP Address)	The IP address of this system can be displayed.
08:バージョン情報 (System Info)	The software version and serial number can be displayed.
01:ソフトバージョン (Software Ver.)	The firmware version of this radio can be displayed.
02 : シリアルナンバー (Serial Number)	The serial number of this radio can be displayed.
03:認証情報 (Regulatory)	The technology conformance mark can be displayed.
04:3G ファーム (3G Firmware)	The firmware version of the 3G module can be displayed.
07:メンテナンス	This function is used by a retailer when various settings are configured and requires a password.
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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. If the problem still cannot be solved, contact a dealer.

The power cannot be turned on	 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.
The buttons cannot be operated	If the key-lock function is enabled, the buttons cannot be operated. Check whether the key-lock function is enabled.
	 If any of the following messages are displayed on the screen, take the following actions: 「通話中です。しばらくしてからかけ直してください。」
	"Receiver is on another session.Call back later." This message is displayed when the counterpart radio is on the line. Make a call again later. 「電源が入っていないか電波がとどかないためつながりません。」
In spite of trying to make a call, you have trouble getting through to a counterpart	"No reply.Receivers are out of range or powered off." The counterpart radio is switched off or out of the service area. Make a call again later. 「該当する無線局が存在しません。」
	"Error.Wrong Number." This wireless radio ID is not registered with the system. Check if the number of the counterpart radio is correct. 「電波状況が悪いため発信できませんでした。」
	 "Out of range.Can't connect to voice server." Check the RSSI of the microphone and make a call again in a place where the radio wave signal is strong. 「接続できませんでした。しばらくしてからかけ直してください。」 「現在、通話できません。しばらくしてからかけ直してください。」
	"Out of range.Can't connect to voice server."
	"Can't call now.Call back later." There is the possibility of a network failure. Make a call again later.

You have trouble transmitting your voice	 The sound quality may be deteriorated if your mouth is too close to the microphone sound collecting port. Keep the product approximately 5 cm away when you talk. Be careful not to put your fingers on the microphone sound collecting port. The microphone sensitivity can be changed from Utilities in the menu. Adjust the microphone sensitivity according to the loudness of the voice. How to adjust the microphone sensitivity: [Menu] > [09:機能設定 (Utilities)] > [03:音質設定 (Voice Quality)] > [02:マイク感度 (Mic Sensitivity)]
You have trouble hearing the voice of a counterpart	 Check to see if the volume setting is too small. Be careful not to put your hand on the speaker. The sound quality of the speaker can be changed from Utilities in the menu. You can change to an ear-friendly sound quality according to the surrounding environment. How to adjust the sound quality: [Menu] > [09:機能設定 (Utilities)] > [03:音質設定 (Voice Quality)] > [01:スピーカ音質 (Speaker Quality)]
The battery cannot be recharged	 Check if the power cord is properly connected to the recharging cradle and the electric outlet. Check if the USB cable is properly connected (at the time of recharging through USB). Check if the battery pack is attached properly.

Principal Specifications

Dimensions	W 54 × D 30 × H 123 mm (excluding projections)
Weight	240 g (with the battery pack)
Power-supply voltage	Power supplied from the recharging cradle: 5.5 V DC (Maximum current: 2 A) Power supplied from USB: 5.0 V DC (Maximum current: 500 mA) Provided battery pack: 3.8 V DC (2,420 mAh)
Consumption current	During transmission/reception: 350 mA (Up to 500 mA) During standby: 260 mA
Serviceable time	 [Normal mode] Approximately 9 hours (if the ratio of reception : transmission : standby is 1:1:8) [Standby mode] Approximately 13 hours (Same as above) Note: Recharging time: Approximately 180 minutes (when the power is off and the cradle is used)
Surrounding environment	Operational temperature: - 20°C to 60°C (During recharge: $0 °C - 40 °C$)
Communication method	3G (HSPA) 800 / 2100 MHz
Transmission output	Up to 0.25 W
Transmission rate	Receiving: 14.4 Mbps (HSDPA) / 384 kbps (W-CDMA) (Maximum) Sending: 5.7 Mbps (HSUPA) / 384 kbps (W-CDMA) (Maximum)
GPS	Equipped
Speaker output	2 systems: Main speaker of 1W, ear receiver of 0.01 W
Water-proof and dust- proof properties	Equivalent to IP67

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