

The RS-SAT100 is an application that enables you to text chat through a satellite communication network by connecting an IC-SAT100 or IC-SAT100M using Bluetooth®.

This instruction document shows how to use the application on an Android™ device.

System requirements

The following system is required to use the application. (As of September 2020)

Data device for Android™

Android version 7.0 or later

IC-SAT100 Rev. 1.3 or later

IC-SAT100M Rev. 1.1 or later

① The RS-SAT100 has been tested with Android 7.x.x, 8.x, 9.0, and 10.0.

① This Instruction document is based on using Android 7.0 and RS-SAT100 firmware version 1.0.0.

① Download the application from the Google Play Store. See page 2.

○ Disclaimer

- The application may not work properly, depending on the OS version, installed applications, signal strength, or other reasons.
- Icom is not responsible for any lost profits, or data, or consequential, special, indirect, or incidental damages.
- Depending on the OS version or settings, the indications or items may differ.
- The screenshots on these Instructions are just examples so that the contents may differ from the actual ones.

Features

- You can send a message with a timestamp and a name.
- The received message is displayed both the transceiver and the mobile device.
- You can select and send the standard text that is set in the application in advance.

Operating notes

- This application supports English and Japanese.
- When sending Japanese characters with the application, set the receiving transceiver's language setting to "Japanese." If the receiving transceiver's language setting is different, it may not be displayed on the transceiver.
 - ① Use this application to send a message in Japanese. You cannot send it from the transceiver.
- When connecting or disconnecting the transceiver and a Bluetooth Headset, the connection between the transceiver and this application may be temporarily disconnected.
If the Bluetooth does not connect when reconnecting, try to connect again from either the application or the transceiver side.

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Find and download RS-SAT100

Install this application to your mobile device.

1. Turn ON your mobile device.
2. Touch on "Play Store" (Android).
3. Enter "RS-SAT100" in the search field and search.
 - "RS-SAT100" will be displayed as the search result.
 - ① You may need to enter "RS-SAT100" as a complete word to get the search result.
 - ① If your mobile device does not support the RS-SAT100, "RS-SAT100" may not appear as the search result.
4. Touch "RS-SAT100."
 - Displays the introduction screen of the RS-SAT100.
5. Touch <INSTALL>.
 - Installation starts.
 - After the installation is finished, the RS-SAT100 icon is displayed on the screen.

Pairing with the IC-SAT100 or IC-SAT100M

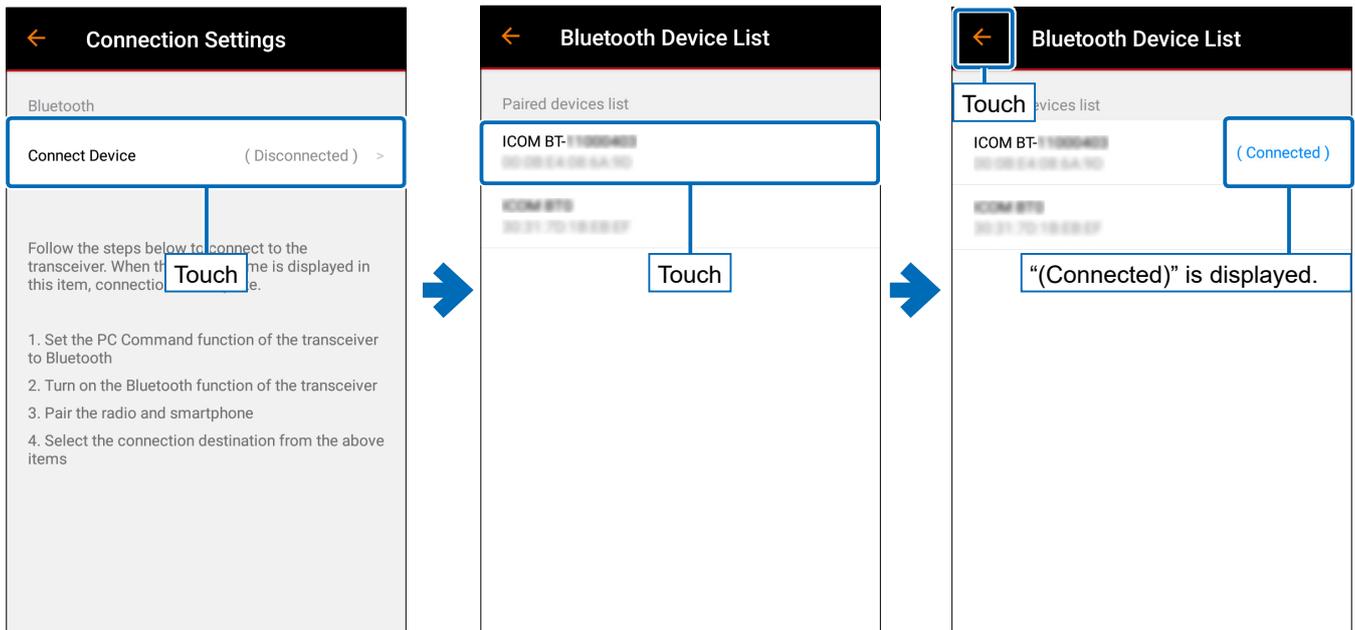
Follow the steps below to pair the transceiver with your mobile device using Bluetooth.

1. Set the PC Command function to "Bluetooth."
MENU > Functions > **PC Command**
2. Set the Bluetooth function to "ON."
MENU > Bluetooth > **Bluetooth ON/OFF**
3. Pair the transceiver and the mobile device.
MENU > Bluetooth > BT Device List > Find Device > **Data Device**
 - ① Before pairing, set the Bluetooth function of the mobile device to "ON."

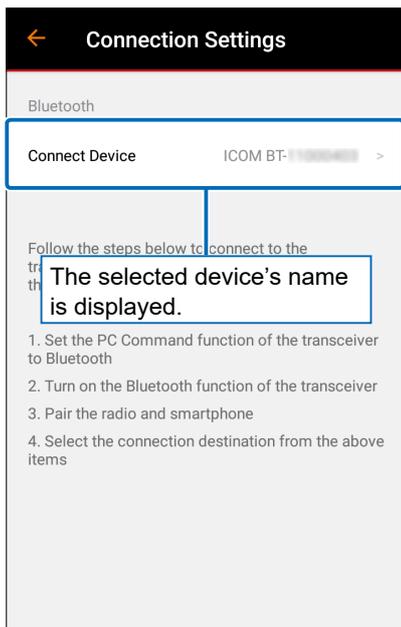
About the Connection Settings screen

Before using this application for the first time, you must select the Bluetooth connection destination.

1. Touch the “RS-SAT100” icon on the mobile device’s screen.
2. Touch “Connect Device,” and select the transceiver you want to use from the paired devices list.
 - “(Connected)” is displayed when the transceiver is connected.
 - ① When touching the connected device entry, it will be disconnected.
3. Touch  to back to the previous screen.
 - The selected device’s name is displayed in the Connection Settings screen.



4. Touch  again to enter the Chat screen.
 - ① This setting can be changed in the Settings screen at any time. (p. 11)



Chat screen

You can send a message and check a received message.

◇ Talkgroup List



1 Talkgroup List

Touch to open each Talk screen.

① The Talkgroup information automatically obtained from the paired transceiver is displayed.

2 Tab menu

Touch to move to each screen.

Chat screen

Radio screen (p. 7)

Settings screen (p. 8)

About screen (p. 14)

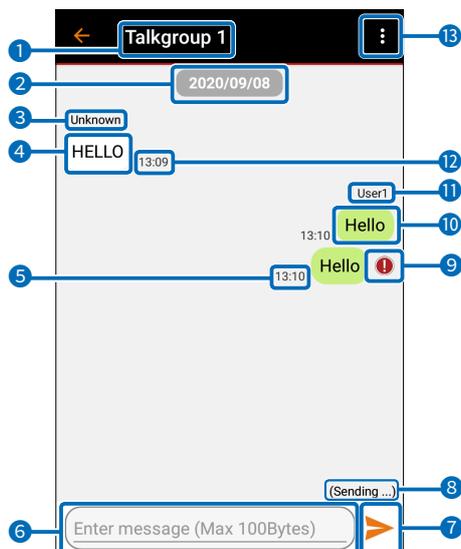
3 Unread icon

Displayed when an unread message is received.

4 [EDIT]

Touch to select the Talkgroups to use.

◇ Talk screen



1 Talkgroup Name

Displays the Talkgroup name selected in the Talkgroup list.

2 Date

Displays the date the message was sent or received.

3 Name (Received Message)

Displays the sender's name.

4 Received Message

Displays a received message.

5 Time (Send Message)

Displays the time that the message was sent.

- ① When the "Add time" setting (p. 8) is set to "ON(Pre)" or "ON(Post)," the time is included in the message.
- ① When the message is too long, the time may not be displayed due to the message's character limit.

6 [Enter Message]

Enters the message you want to send.

- ① When the transceiver is not connected, you cannot enter the message.
- ① See page 7 for the number of characters that can be sent.

7 Send button

Touch to send the message.

8 Transmission status

Displays the transmission status.

- (Requesting ...): Displayed until the transmission is possible.
- (Sending ...): Displayed when sending the message or waiting for a response.
- (Failed): Displayed when sending the message is failed.

9 Stop sending icon

Displayed when the message could not be sent.

10 Send Message

Displays the sent message.

11 Name (Send Message)

Displays the name set in the User Name setting in the Settings screen.

- ① When the "Add Name" setting (p. 8) is set to OFF, or when a message is sent on the transceiver side, "Unknown" is displayed.
- ① You can change the name in the Settings screen. (p. 8)
- ① When the message is too long, the name may not be displayed due to the message's character limit.

12 Time (Received Message)

Displays the time that the message was received.

13 Overflow menu

Touch to display the following menu.

[Change connect device]

Changes the transceiver to connect.

- ① See page 3 for details.

[Send Standard Text]

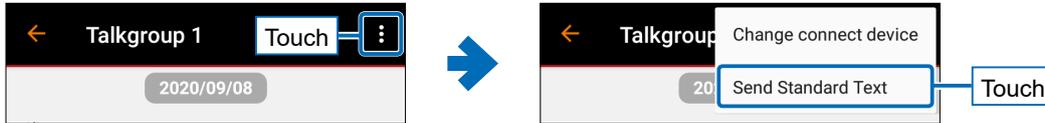
Sends the Standard Text.

- ① See page 6 for details.

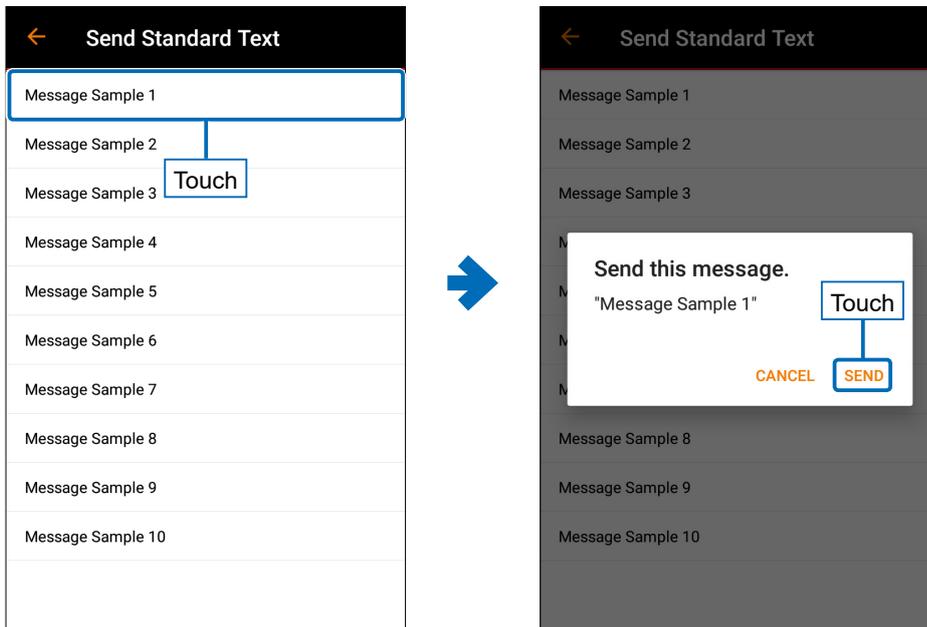
How to send the Standard Text

You can send the Standard Text from the Overflow menu in the Talk screen.

1. Touch the Overflow menu, and then touch the “Send Standard Text.”

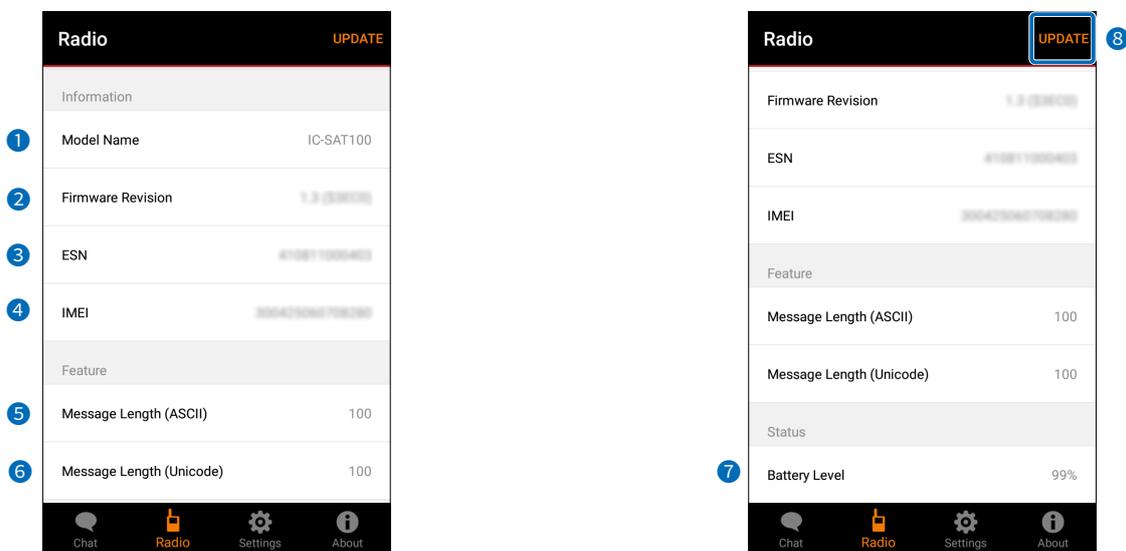


2. Select the Standard Text that you want to send.
 - The confirmation dialog is displayed.
 3. Touch “SEND.”
 - The selected Standard Text is sent, and then returns to the Talk screen.
- ① You can change the contents of the Standard Text in the “Edit Standard Text” setting in the Settings screen. (p. 10)



Radio screen

You can check the transceiver's information.



1 Model Name

Displays the paired transceiver's name.

2 Firmware Revision

Displays the transceiver's firmware version.

3 ESN

Displays the transceiver's ESN (Electronic Serial Number).

4 IMEI

Displays the transceiver's IMEI (International Mobile Equipment Identifier).

5 Message Length (ASCII)

Displays the maximum number of characters that can be sent in ASCII format.

6 Message Length (Unicode)

Displays the maximum number of characters that can be sent in Unicode format.

TIPS:

- In this application, alphanumeric and symbols (excluding " and ,) are treated as "ASCII format," and other characters (Japanese, double-byte characters, etc.) are treated as "Unicode format."
- The ASCII format can send up to 100 characters. When the Unicode format character is included, up to 50 characters can be sent because the amount of information is large. If the more than the number of characters that can be sent is entered, the excess part is automatically truncated when sending.

7 Battery Level

Displays the transceiver's battery level.

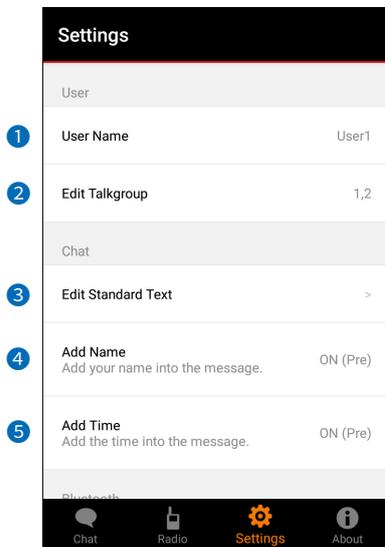
① When the IC-SAT100M is paired, "(Unsupported)" is displayed.

8 [UPDATE]

Touch to update the transceiver's information.

Settings screen

You can change the application's settings.



1 User Name

Enters the user name that will be displayed when sending the message. (p. 10)

2 Edit Talkgroup

Selects the Talkgroup you want to use. (p. 10)

3 Edit Standard Text

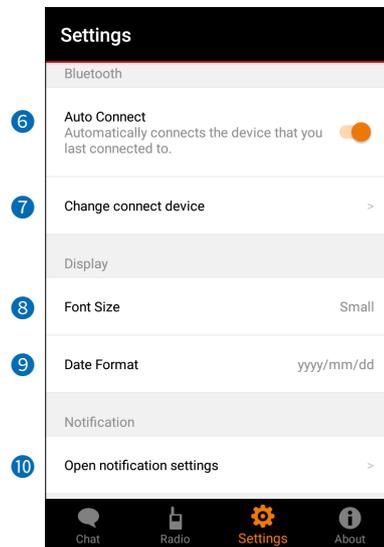
Edits the Standard Text. (p. 10)

4 Add Name

Selects whether or not to add the user name in the message to send. (p. 11)

5 Add Time

Selects whether or not to add the time in the message to send. (p. 11)



6 Auto Connect

Selects whether or not to automatically connect the last connected transceiver using Bluetooth when the application is started.

7 Change connect device

Changes the connection destination. (p. 11)

8 Font Size

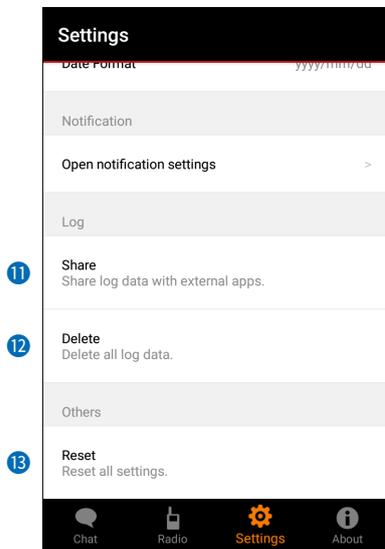
Selects the character size of the messages, date, and time on the Talk screen. (p. 12)

9 Date Format

Selects the date display format on the Talk screen. (p. 12)

10 Open notification settings

Open the mobile device's notification settings. (p. 12)



11 Share

Selects the external application to link to transfer or backup the log files. (p. 13)

12 Delete

Deletes all log files and chat contents. (p. 13)

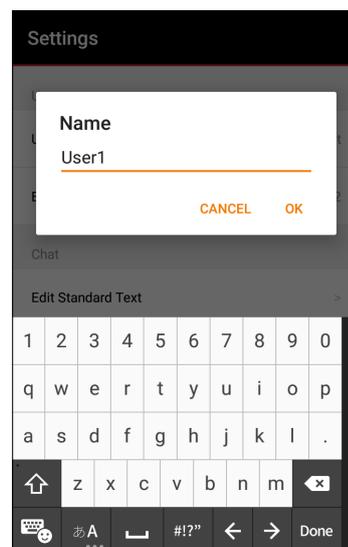
13 Reset

Resets all settings of the Settings screen to the default value. (p. 13)

◇ User Name

Enters the user name that will be displayed when sending the message.

① You can enter up to 20 characters.



◇ Edit Talkgroup

Select the Talkgroup (1 ~ 15) you want to use. The checked Talkgroups can be used on the Talk screen.

① You can select multiple Talkgroups.

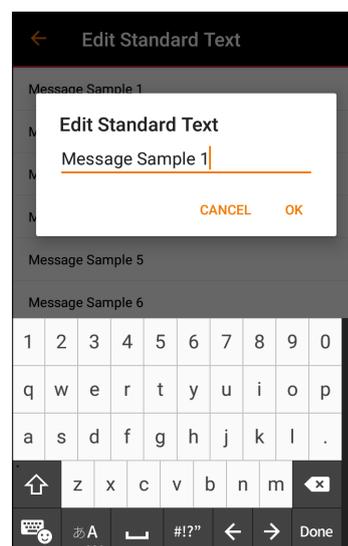
① You can also change it from "EDIT" on the Talkgroup List screen. (p. 4)



◇ Edit Standard Text

You can edit the Standard Text that are used in a message.

① See page 7 for the number of characters that can be sent.

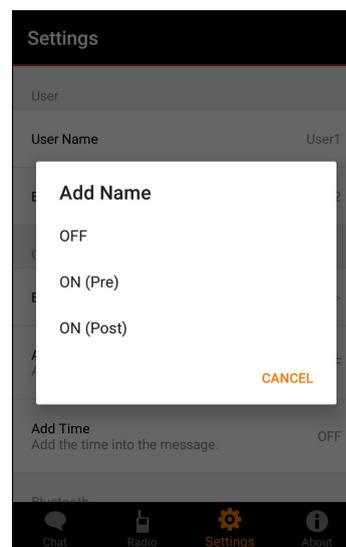


◆ Add Name

Sets whether or not to add the user name in the message to send.

① The name set in the “User Name” setting is displayed.
(p. 10)

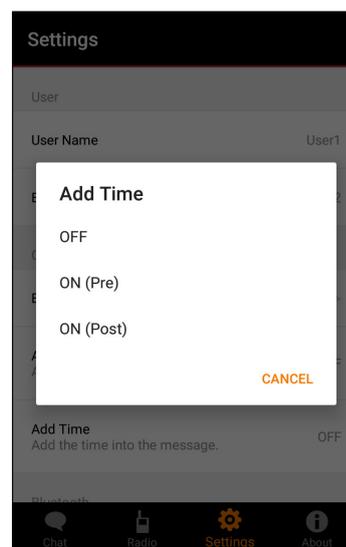
- OFF: The user name is not added to the message.
- ON (Pre): The user name is added at the beginning of the message.
- ON (Post): The user name is added at the end of the message.



◆ Add Time

Sets whether or not to add the time to the message to send.

- OFF: The time is not added to the message.
- ON (Pre): The time is added at the beginning of the message.
- ON (Post): The time is added at the end of the message.

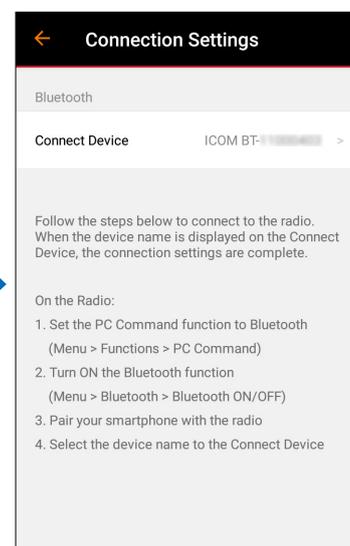
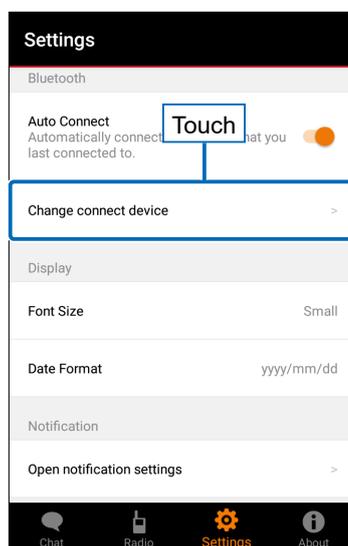


◆ Change connect device

Changes the connection destination.

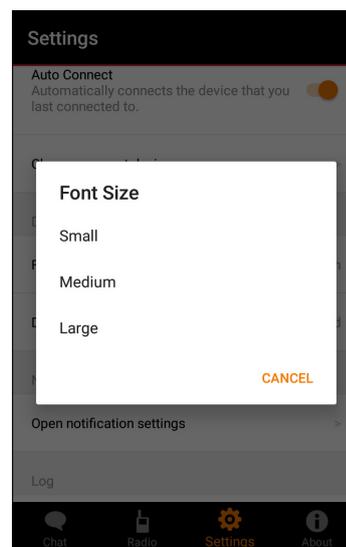
- When touching this item, the Connection Settings screen is displayed.

① See page 3 for details.



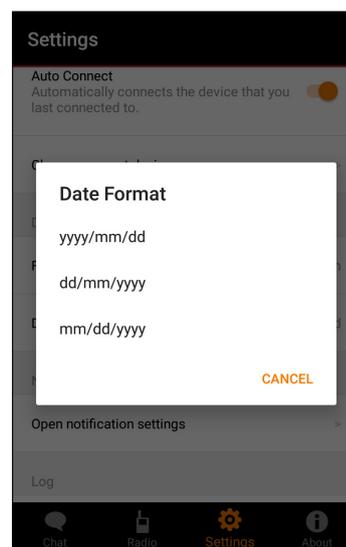
◇ Font Size

Selects the font size of the message display, date, and time on the Talk screen from Small, Medium, and Large.



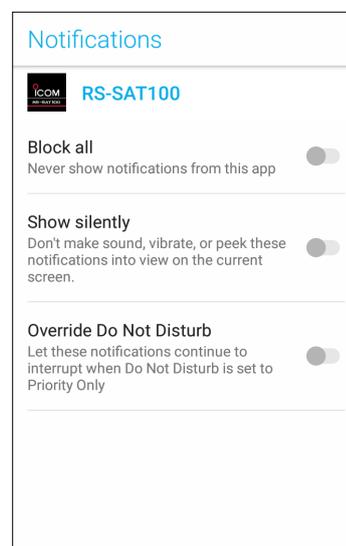
◇ Date Format

Selects the date display format on the Talk screen from "yyyy/mm/dd," "dd/mm/yyyy," or "mm/dd/yyyy."



◇ Open notification settings

Opens the mobile device's notification settings. Touch the back button of the mobile device to return to the application screen.

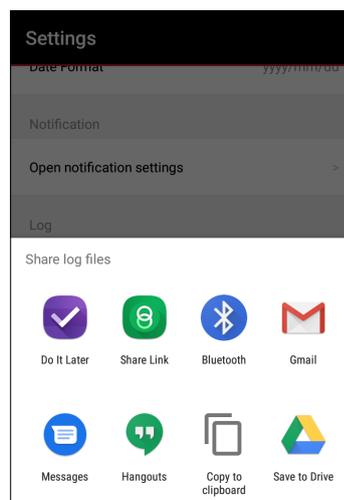


◆ Share

Selects the external application to link to transfer or backup the log files.

The following methods can be used.

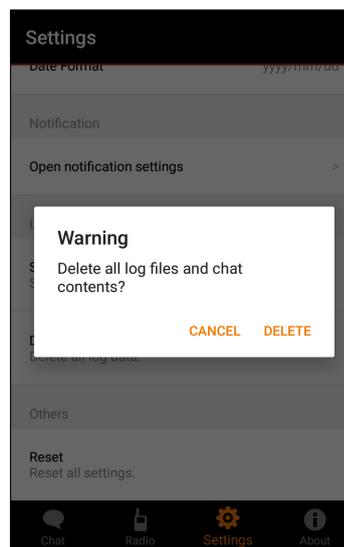
- Transfer the log files to an external device using the Bluetooth file transfer function.
- Save the log files to the microSD card using the file manager.
- Send the log files by e-mail using the e-mail application.



◆ Delete

Deletes all log files and chat contents.

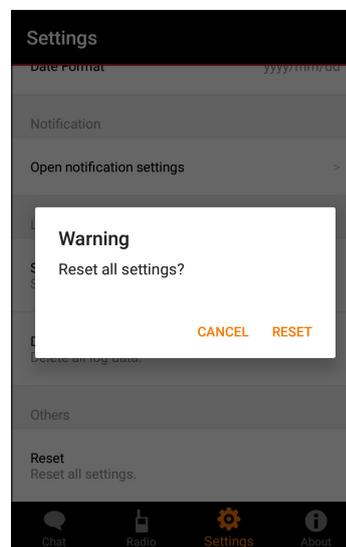
- ① Touch “DELETE” in the confirmation dialog to delete.



◆ Reset

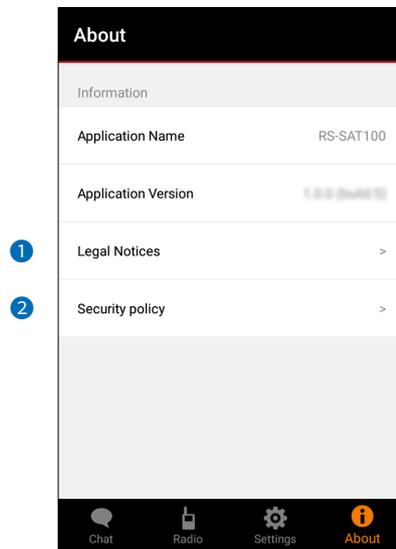
Resets all settings of the Settings screen to the default value.

- ① Touch “RESET” in the confirmation dialog to reset.



About screen

You can check the information about this application.



1 Legal Notice

Displays the information on the open-source software used in this application.

2 Security policy

Displays the “Privacy Policy” page of the Icom website.

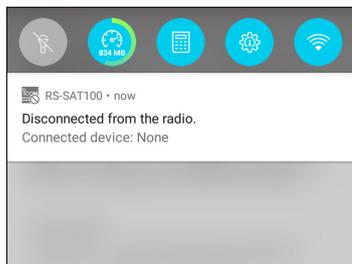
Other functions

◇ Local Notification

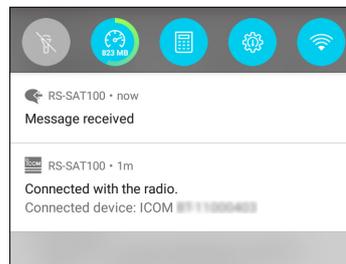
You can check the connection status and notifications from the status bar or notification.

① When the application notification setting is set to OFF, they will not be notified.

① If the notification is not displayed through the application notification setting is set to ON, restart the application.



When the transceiver is disconnected



When the transceiver is connected,
and the message is received

◇ Background Operation

Even when the application runs in the background, the connection status can be displayed, and the message's receipt can be notified.

① When the application notification setting is set to OFF, they will not be notified.

① If the notification is not displayed through the application notification setting is set to ON, restart the application.



When the transceiver is connected



When the transceiver is disconnected



When a message is received

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
You cannot connect the transceiver through Bluetooth.	<ul style="list-style-type: none"> The Bluetooth function in either the transceiver or the application is set to "OFF." The Bluetooth device setting is incorrect. Other Bluetooth devices are operating around you. Other wireless LAN or electric devices may interfere. The distance is too far from the mobile device. 	<ul style="list-style-type: none"> On both of the transceiver and the mobile device, set the Bluetooth function to "ON." Correct the setting in the Settings screen. Stop other Bluetooth devices, or move away from them. Stop other wireless LAN or electric devices, or leave more space from them. Bring the mobile device closer to the transceiver. 	p. 11
You cannot send a message.	<ul style="list-style-type: none"> The satellite connection of the transceiver is out of range. Bluetooth is not connected. 	<ul style="list-style-type: none"> Send after changing your location. Wait for a while before sending it. Connect the transceiver and the mobile device through Bluetooth from the Settings screen. 	p. 11
When receiving a Japanese message, it is not displayed in the transceiver's display.	<ul style="list-style-type: none"> The language setting of the transceiver is not set to "Japanese." 	<ul style="list-style-type: none"> On the transceiver, set the language setting to "Japanese." 	
You cannot check the connection status or message notification in the status bar.	<ul style="list-style-type: none"> The notification setting of the mobile device is set to "OFF." 	<ul style="list-style-type: none"> Set the notification setting to "ON" from the "Open notification settings" in the Setting screen. 	p. 12
The end of the message is missing.	<ul style="list-style-type: none"> The message is too long. 	<ul style="list-style-type: none"> Reduce to within the number of characters that can be sent. Reduce the double-byte characters and symbols. 	p. 7
You cannot send the name or the time.	<ul style="list-style-type: none"> The "Add Name" setting or "Add Time" setting is turned OFF. The message is too long. 	<ul style="list-style-type: none"> Turn on the "Add Name" setting or "Add Time" setting. See the "The end of the message is missing."(above). 	p. 8