

TERMINAL MODE/ACCESS POINT MODE APPLICATION

RS-MS3A

Thank you for choosing this Icom product.
The RS-MS3A is an application for Android devices, designed for using the DV Gateway function of Icom D-STAR transceivers.

READ ALL INSTRUCTIONS carefully and completely before using this product.

SYSTEM REQUIREMENTS

The following system is required to use the RS-MS3A.

- Android version 8.0 or later
The RS-MS3A has been tested with Android 8.x, 9, 10, 11, 12, 13, 14, 15, and 16.
- USB host function or Bluetooth function on the Android device

① Depending on the application status or the capacity of your device, some functions may not work correctly.

- ① This application is only set to fit on a vertical screen.
- ① This instruction manual is based on RS-MS3A version 1.51 and Android 16.
Display indications may differ, depending on the Android version or connecting transceiver.

NOTE: Before using this application, you must have your call sign registered to the gateway server that has the RS-RP3C installed.
Ask the gateway repeater administrator for details.

COMPATIBLE TRANSCEIVERS AND CABLES

The following transceivers are compatible with the RS-MS3A.

Compatible transceiver	Bluetooth connection	Required item for the USB connection
ID-51A (PLUS2)/ID-51E (PLUS2)	N/A	OPC-2350LU DATA CABLE ① If your Android device has a USB Type-C port, you need a USB On-The-Go (OTG) adapter to convert the data cable's plug to USB Type-C.
ID-31A PLUS/ID-31E PLUS	N/A	
ID-4100A/ID-4100E	N/A	
IC-9700	N/A	
IC-705	N/A	Purchase the proper USB cable according to your device's USB port. • For the Micro-B port: OPC-2417 DATA CABLE (option) • For the Type-C port: OPC-2418 DATA CABLE (option)
ID-52A/ID-52E	N/A	USB cable (User supplied) ① For the ID-50A/ID-50E and ID-52A PLUS/ID-52E PLUS, the supplied USB cable is also usable. ① Confirm your USB cable meets following conditions: - Usable for data transfer and not for charging only. - Fits the transceiver's USB port (Type-C) and your device's USB port. ① You cannot use the OPC-2418 DATA CABLE.
IC-905	N/A	
ID-50A/ID-50E	N/A	
ID-52A PLUS/ID-52E PLUS	✓	
ID-5200A/ID-5200E	✓	

✓: Applicable

N/A: Not Applicable

① The compatible transceivers differ, depending on the application version.

NOTE: See "About the DV Gateway function*" on the Icom website for connection details.
<https://www.icomjapan.com/support/>

* When using the IC-9700, IC-705, or IC-905, see the transceiver's Advanced manual.

About the licenses

This product includes "usb-serial-for-android" open source software, and is licensed according to the open source software license.
Refer to the "About the Licenses" page at the end of this manual for information on the open source software being used in this product.

MAIN SCREEN

① Start

Touch to start connection to your destination.

② Stop

Touch to stop the connection to your destination.

③ Connection

Select what you want to connect with.

④ Gateway Repeater (Server IP/Domain)

Enter the RS-RP3C's gateway repeater address.

⑤ Terminal/AP Call sign

Enter the gateway call sign.

⑥ Gateway Type

Select the gateway type.

① Select "Global" when operating outside of Japan.

⑦ UDP Hole Punch

Select whether or not to use the UDP Hole Punch function. This function enables you to communicate with other station who uses the DV Gateway function even if:

- You do not forward port 40000.
- A static or dynamic Global IP address is not assigned to your device.

⑧ Allowed Call sign

Select to allow the station of the assigned call sign to transmit through the Internet.

⑨ Allowed Call sign List

Sets the call sign of the stations to allow transmissions through the Internet while "Enabled" is selected for ⑧ "Allowed Call sign."

⑩ Screen Timeout

Enables or disables the Screen Timeout function to save the battery power.

⑪ Call sign information field

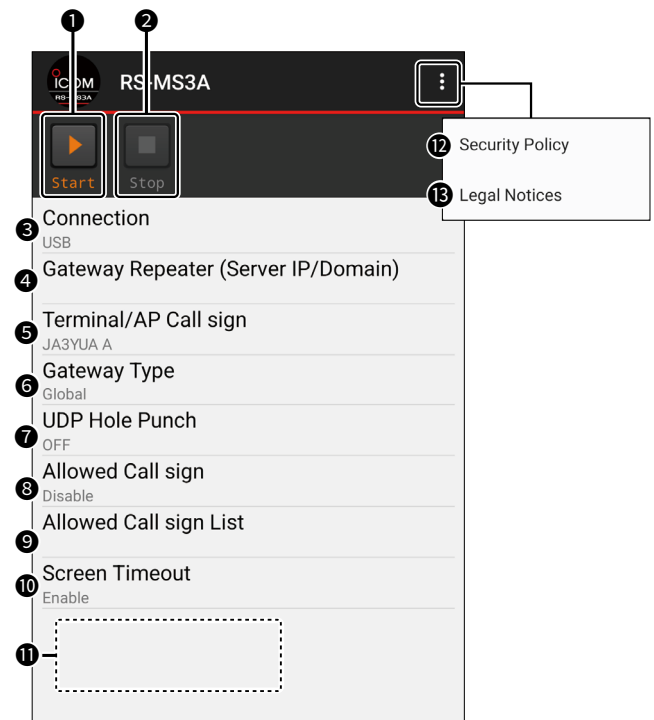
Displays the information of call signs that are transmitted from the Android device or received from the Internet.

⑫ Security Policy

Displays the security policy.

⑬ Legal Notices

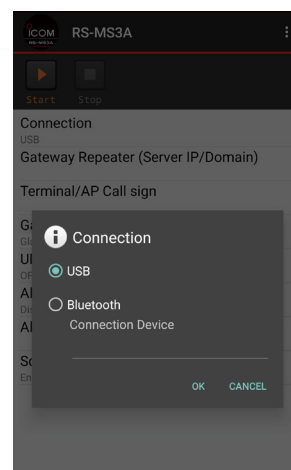
Displays the information on the open source software being used in this application.



CONNECTION

Select the connection type (USB or Bluetooth).

① For the Bluetooth connection, select a transceiver that has already paired with your device. See the transceiver's Advanced manual for connection details.

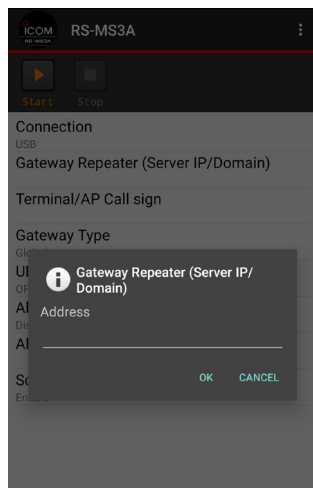


Gateway Repeater (Server IP/Domain)

Enter the RS-RP3C's gateway repeater address or domain name.

① The address consists of up to 64 characters.

NOTE: You must have your call sign registered to the gateway server that has the RS-RP3C installed. Ask the gateway repeater administrator for details.



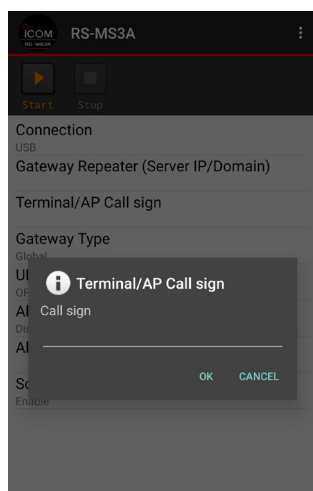
Terminal/AP Call sign

Enter the Terminal/AP call sign that is registered as the access point on the RS-RP3C's Personal Information screen.

① The call sign consists of 8 characters.

- Enter My Call sign of the connected transceiver.
- Enter a desired ID suffix between A to Z, except for G, I, and S, for the 8th character.

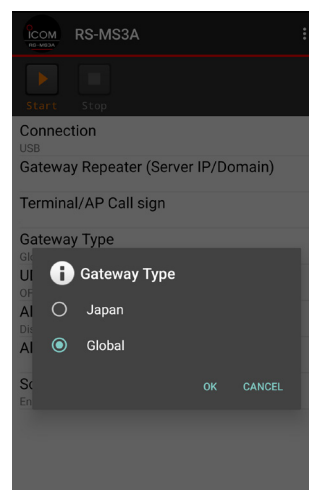
① If the call sign is entered in lowercase letters, the letters are automatically changed to uppercase letters when you touch <OK>.



Gateway Type

Select the gateway type.

① Select "Global" when operating outside of Japan.



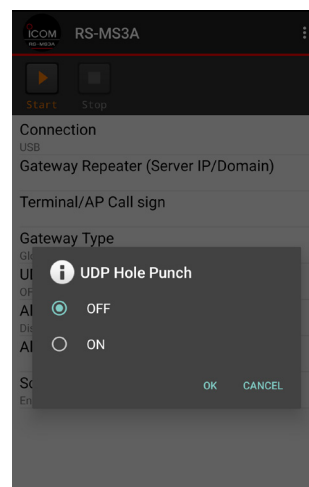
UDP Hole Punch

Select whether or not to use the UDP Hole Punch function. This function enables you to communicate with other station who uses the Terminal or Access Point mode even if:

- You do not forward port 40000.
- A static or dynamic Global IP address is not assigned to your device.

① Information

- You can receive only a reply.
- You cannot communicate using this function when the destination station uses the software that is not compatible with the UDP Hole Punch function.
- When using a device assigned a static or dynamic Global IP address or forwarding port 40000 of a router, select "OFF."



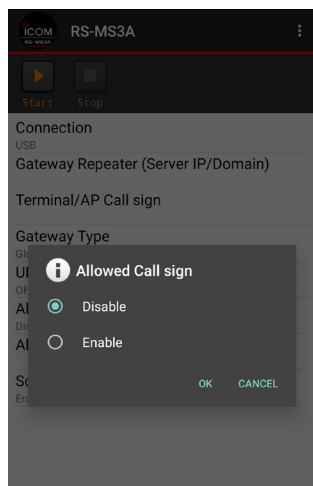
Allowed Call sign

Select to use the call sign restriction for the Access Point mode. When 'Enable' is selected, this allows the station of the assigned call sign to transmit through the Internet.

Disable: Allow all call signs to transmit.

Enable: Allow only the call sign displayed under "Allowed Call sign List" to transmit.

① When using the Terminal mode, select 'Disable.'



Screen Timeout

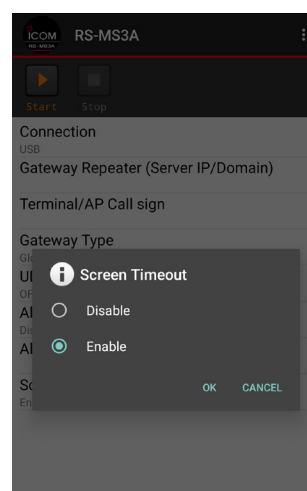
You can enable or disable the Screen Timeout function to save the battery power by turning OFF the screen when no operation is made for a set period of time.

Disable: Does not turn OFF the screen.

Enable: Turns OFF the screen when no operation is made for a set period of time.

① Set the timeout period in your Android device setting. See your Android device's manual for details.

NOTE: Depending on the Android device, the power supply to the USB terminal may cut off or the Bluetooth connection may be disconnected while the screen is OFF or in the battery saving mode. If you are using an Android device of this type, select 'Disable.'



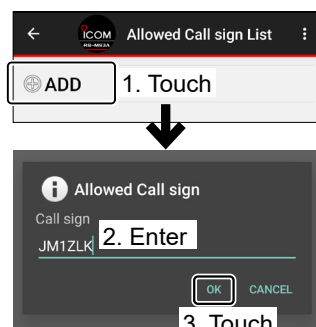
Allowed Call sign List

Enter the call sign of the stations that are allowed to transmit through the Internet while "Enable" is selected for "Allowed Call sign."

① You can add up to 30 call signs.

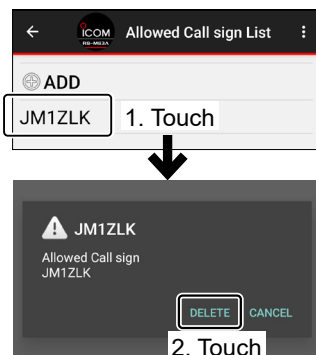
Adding a call sign

1. Touch "ADD."
2. Enter the call sign to allow the call sign to transmit.
3. Touch <OK>.



Deleting a call sign

1. Touch the call sign to delete.
2. Touch <Delete>.



Call sign information field

Displays the information of call signs that are transmitted from the PC or received from the Internet.

(Example)

```
Network -> Transceiver  
(16:39:07)  
RPT2 :  
RPT1 :  
UR :  
MY :
```

Operating notes

For the Bluetooth connection:

- Disconnect the Bluetooth connection from the Android device when not used. This prevents reducing the battery life of your Android device.
- The Bluetooth connection may be disconnected when the surrounding transceiver environment affects it and the state of the Android device.

For the USB connection:

- Disconnect the cable from the Android device when not used. This prevents reducing the battery life of your Android device.
- When using the ID-52A/ID-52E/ID-50A/ID-50E/ID-52A PLUS/ID-52E PLUS/IC-705, you can reduce the battery consumption of your Android device while the transceiver is connected by setting the following item on the transceiver to "OFF."

([MENU] > SET > Function >
USB Power Input (Phone, Tablet, PC))

About the licenses

usb-serial-for-android

MIT License

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