

FT1DR/DE

FT1XDR/DE

DSP Firmware

Update Instruction Manual

Introduction

This application is a software tool for updating the firmware of transceivers manufactured by Yaesu Musen Co., Ltd.

CAUTION!

*Be sure to confirm the model and the version of your transceiver before starting the update.
Writing incorrect firmware to the transceiver may cause abnormal operation or failure.*

Important Notes

- All responsibility for the use of this software lies with the customer. Yaesu cannot be held responsible in any way for any damages or losses, which may be incurred by the customer as a result of using this software.
- Copyrights and all other intellectual property rights for the software, as well as the software manual, are the property of YAESU MUSEN CO., LTD.
- Revision, modification, reverse engineering, and decompiling of this software is prohibited. Redistribution, transfer, and resale of downloaded files are also prohibited.
- Downloaded files may only be used for personal use.
- If you cannot perform the firmware upgrade yourself, please consult with one of our sales sites or service centers.

Trademarks

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System Requirements (Operating Environment)

In order to use this program, a personal computer (PC) with one of the following Windows operating systems, and a USB data connection cable are required

Supported Operating Systems

One of the following operating system environments:

- Microsoft® Windows® 10 (32 bit / 64 bit)
- Microsoft® Windows® 8.1 (32 bit / 64 bit)
- Microsoft® Windows® 8 (32 bit / 64 bit)
- Microsoft® Windows® 7 (32 bit / 64 bit, Service Pack 1 or later)

CPU

The performance of the CPU must satisfy the operating system requirements.

RAM (System Memory)

The capacity of the RAM (system memory) must be more than sufficient to satisfy the operating system requirements.

HDD (Hard Disk Drive)

The capacity of the HDD must be more than sufficient to satisfy the operating system requirements.

In addition to the memory space required to run the operating system, about 50 MB or more of additional memory space is required to run the program.

Necessary PC peripheral interfaces

USB interface (USB Port)

Other required objects

Data cable for connecting the personal computer (PC) to the FT1DR/DE (FT1XDR/DE).

- SCU-18 or SCU-19
- AC adapter PA-48 series or SAD-11B

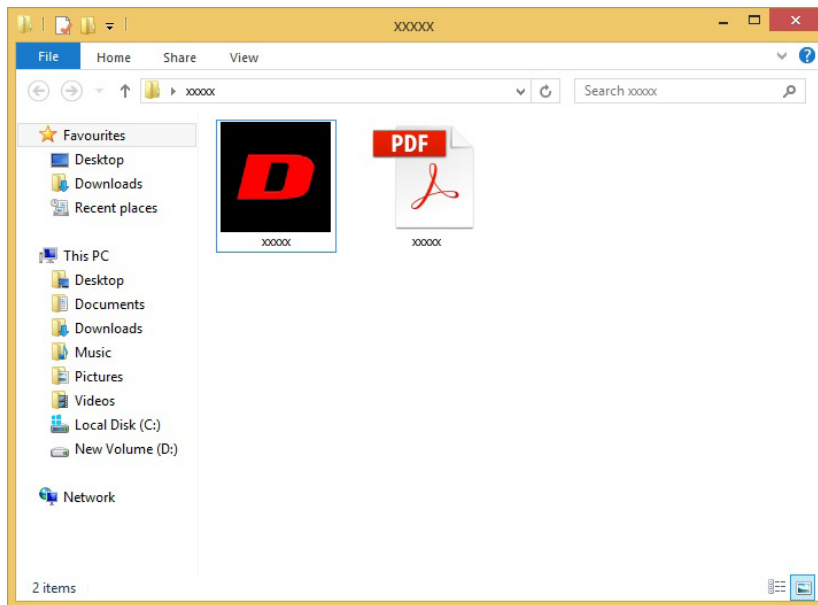
CAUTION!

When using the SCU-18 or SCU-19 data cable, install the SCU-18 or SCU-19 driver software before attempting to update the firmware. Go to the following website to download and install the driver software for the SCU-18 or SCU-19 (<http://www.yaesu.com/>).

Install / Uninstall Procedure

Installation procedure

Extract the downloaded zip file, and save the data contained inside the zip file to any desired location.



Uninstallation procedure

Please delete the folder opened by the update program.

* The operation will end if the opened folder is deleted since no data will be written to the registry and system folder.

Updating the DSP Firmware

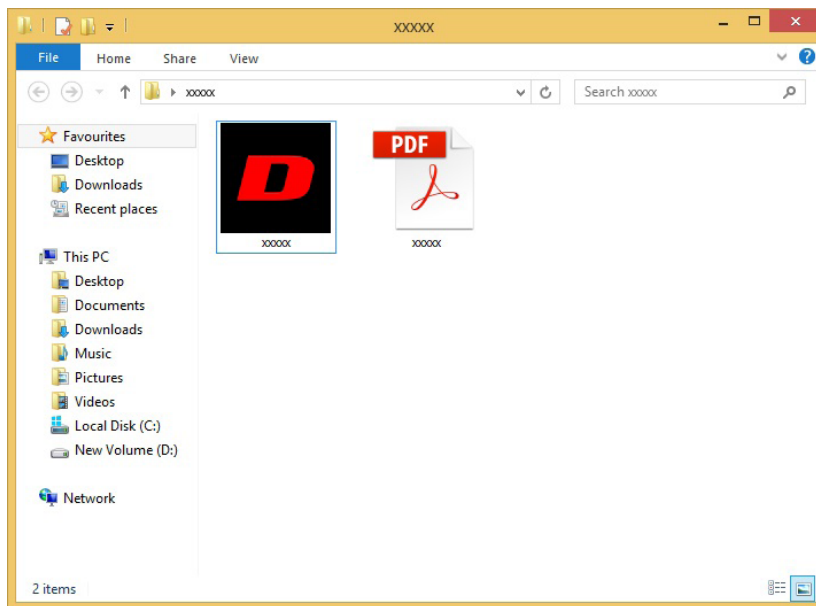
Execute the FT1DR/DE (FT1XDR/DE) DSP firmware update.

Caution

After updating the firmware, reset-all will be executed for FT1DR/DE(FT1XDR/DE) , which will delete all saved data. Back up your registered data using a microSD memory card or write it down. For details on backing up data using microSD memory cards, refer to the “FT1DR/DE (FT1XDR/DE) Operating Manual”.

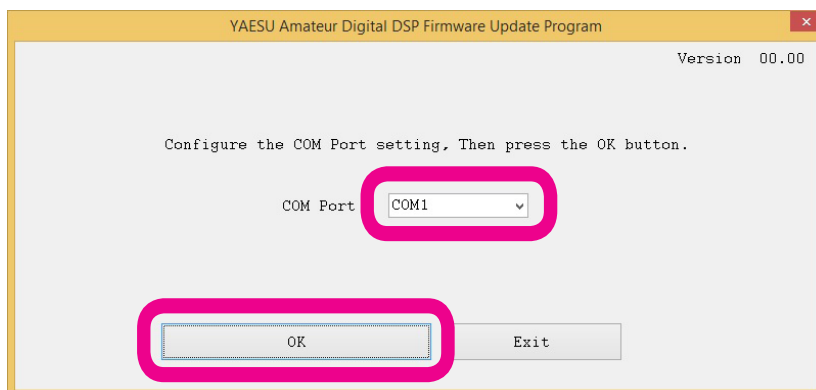
1. Double-click “PCTOOLe_vXXXX.exe” (D icon).

* “XXXX” refers to the version number.



* If the “User Account Control” screen appears, click the [Yes] button.

The “Firmware Update Program” will open.



When the update program is opened, the above screen will appear to permit setting the Com Port number.

CAUTION!

Writing incorrect firmware to the transceiver may cause abnormal operation or failure.

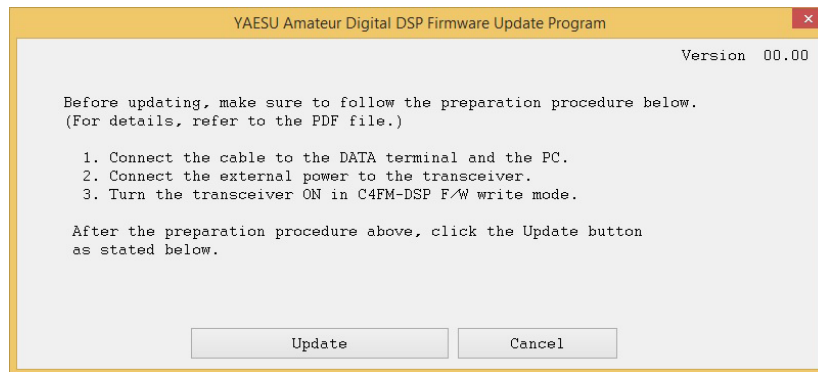
2. Set the COM Port

Set the COM Port number to the Port used in connecting the PC and FT1DR/DE (FT1XDR/DE).
The port number can be verified by accessing the Windows PC device manager.

3. Commence Update

When "Set the COM Port " is completed, press the "OK" button to advance to the next screen (preparations prior to transferring the software).

Pressing the "EXIT" button will end the program without updating the firmware.



4. Remove the battery pack and AC adapter from the transceiver.

5. Use the PC Connection Cable SCU-18 or SCU-19 to connect the FT1DR/DE (FT1XDR/DE) DATA terminal to the computer.





6. Connect the AC adapter to a wall outlet and then insert the DC connector to the FT1DR/DE (FT1XDR/DE) EXT DC IN terminal.

Note: Firmware update cannot be completed using the battery pack. Please be sure to use the AC adapter.

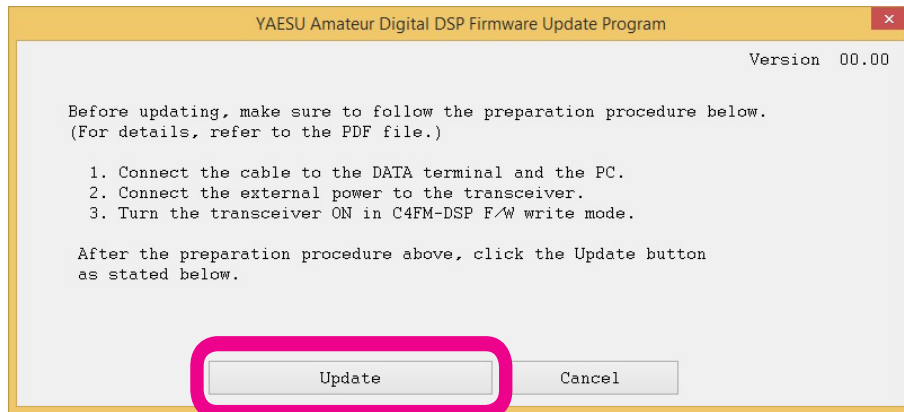




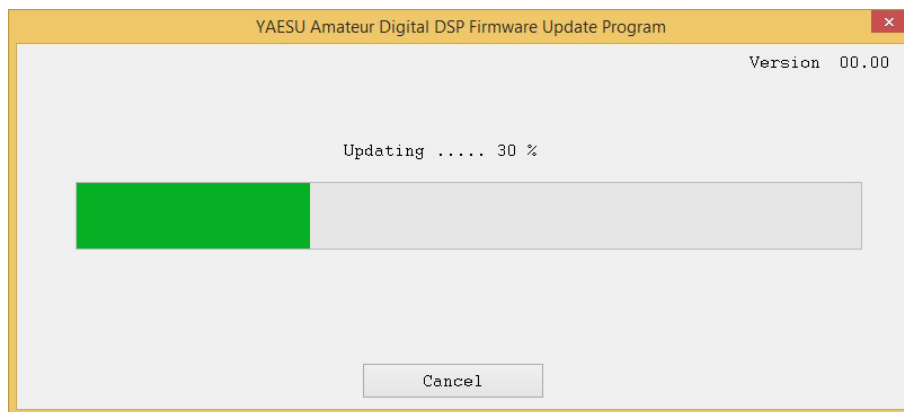
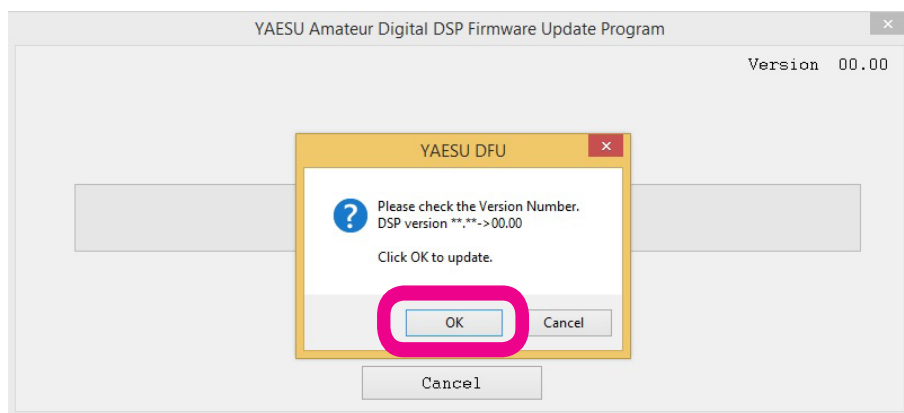
7. Press and hold in the [A/B] key while turning the transceiver ON and press the [F] key to check that DSP WRITE is blinking.



8. On the Firmware Update Program screen, press [Update].



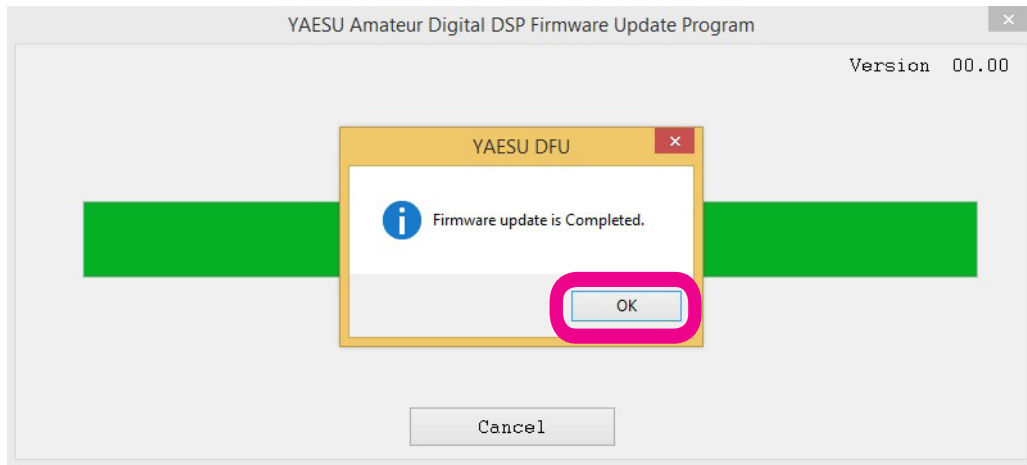
9. When the following pop-up screen is displayed, check the Version number. And then press the "OK" button.



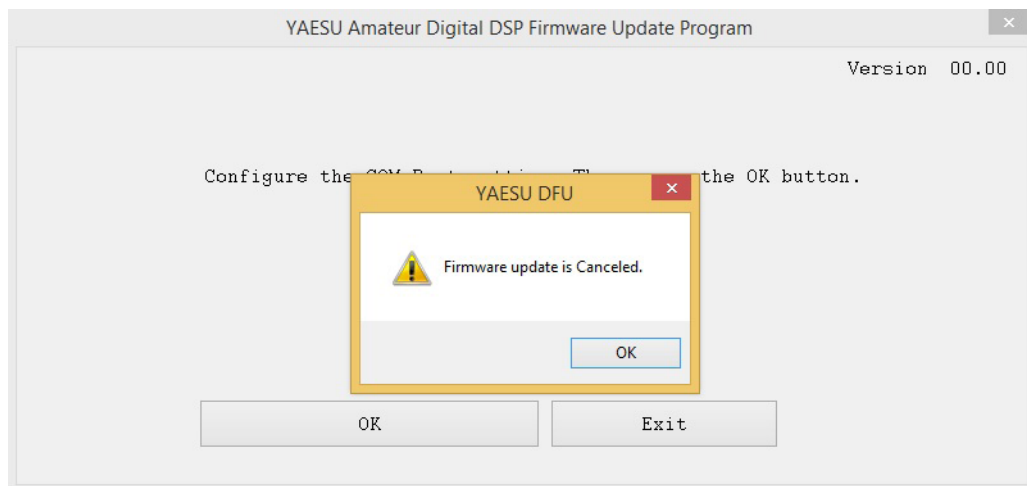
CAUTION!

**Do not turn the PC power supply or the transceiver power OFF during the update.
The transceiver may not function normally if the firmware transfer is interrupted during the update.**

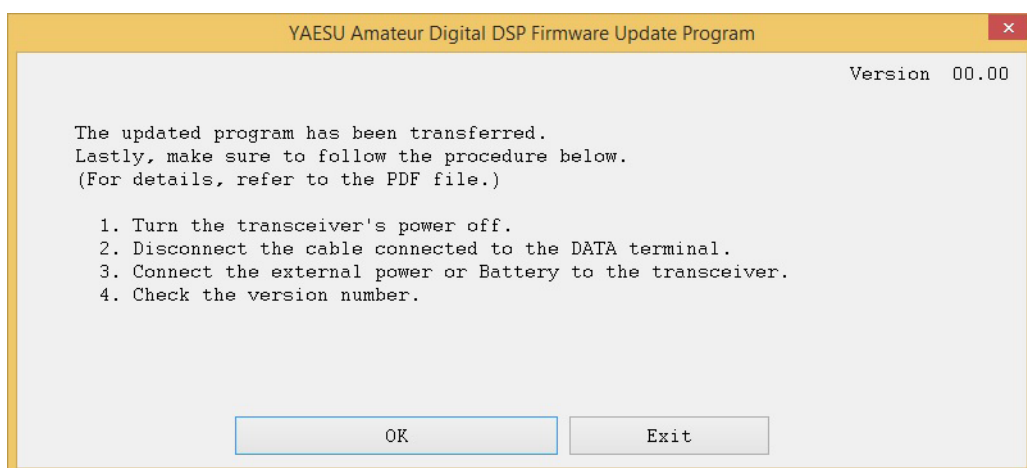
10. In the confirmation dialog box displayed on the computer screen, click the [OK] button.



The following pop-up screen will be displayed when the updating is cancelled or when the update cannot be carried out for some reason.



11. When the following pop-up screen is displayed, upon completion of the update.



12. Disconnect the AC adapter from the transceiver.



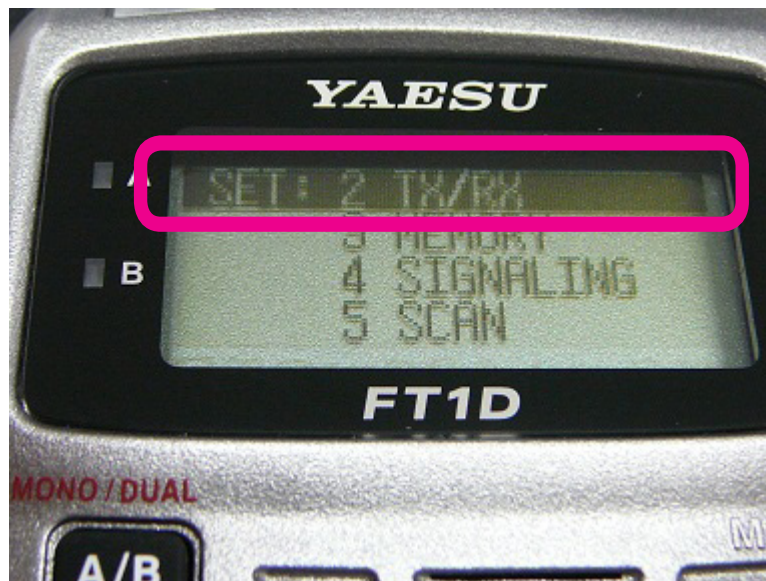
13. Disconnect Connection Cable SCU-18 or SCU-19.



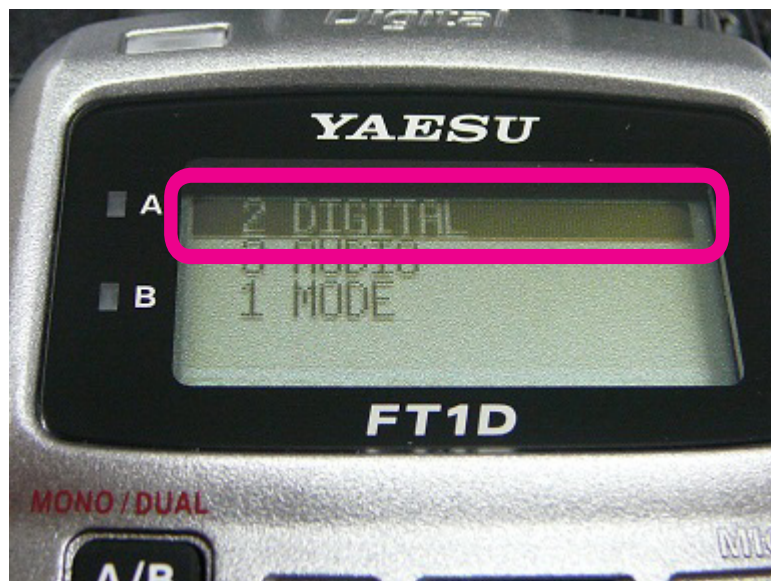
14. Connect the AC adapter to a wall outlet and then insert the DC connector to the FT1DR/DE (FT1XDR/DE) EXT DC IN terminal.



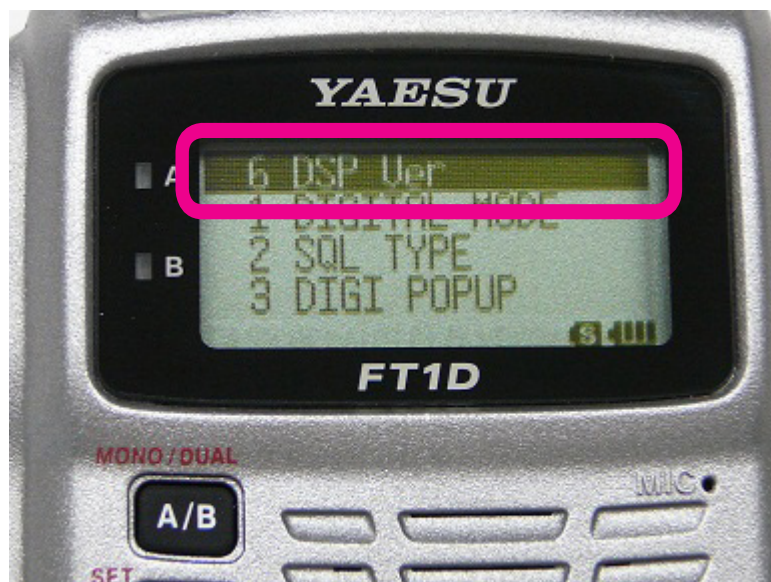
15. Set Band A to the digital mode. (The Version No. cannot be checked if Band A is not set to the digital mode.)
16. Enter the set mode and select "SET:2 TX/RX" and press the [ENT] key.



17. Select "2 DIGITAL" and press the [ENT] key.

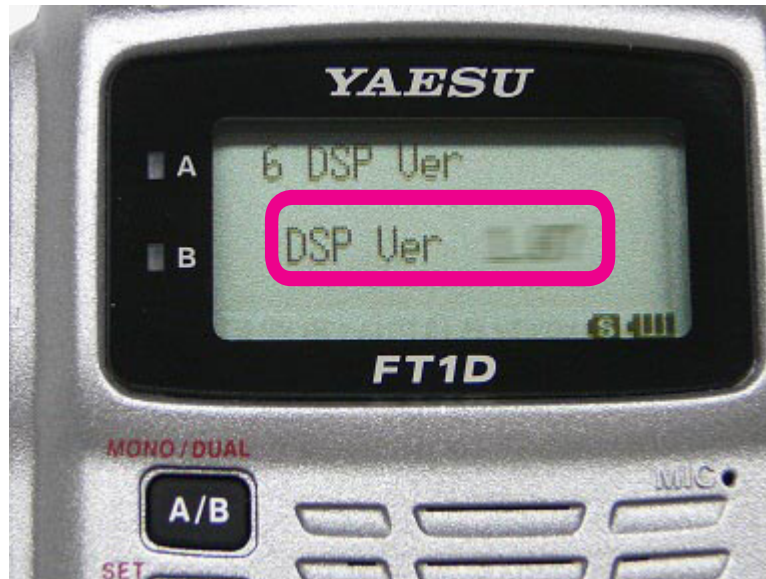


18. Select "6 DSP Ver" and press the [ENT] key.



19. Check the Version No. displayed

If the DSP Version No. has been updated, the firmware update was successfully completed.



20. Press the "Exit" button on the program screen of the PC to end the program.

With this, all the tasks are completed.

Press the "Exit" button on the program screen of the PC to end the program.

Or, press the "OK" button to return to the start-up screen. to update the firmware of another transceiver.

