

YAESU

Radio for Professionals

ADMS-19

Instruction Manual

The ADMS-19 software provides convenient editing of the FTX-1 series memory channel frequencies, channel information and alpha tags, using a personal computer. Also, the transceiver parameters and the setup menu items may be edited and configured easily from the computer keyboard.

YAESU MUSEN CO., LTD.

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Introduction

The ADMS-19 PC programming software uses a Personal Computer to quickly enter and save the FTX-1 memory channel frequencies and data. All of the information is saved. The setting data can be imported from the FTX-1 and edited setting data can be transferred to the FTX-1.

- ☐ Edit the frequencies, memory names, squelch settings, repeater settings, transmit power, etc. that is related to the memory channels, and the HOME channel, etc.
- ☐ Configure the various set mode menu options on the computer monitor screen
- ☐ Use the handy editing functions, such as search, copy and paste

About this manual

This manual contains symbols and conventions to call attention to important information.

Symbols	Description
	This icon indicates cautions and alerts the user should be aware of.
	This icon indicates helpful notes, tips and information.

Important Notes

Before downloading this software, please read the "Important Notes" carefully.

- Copyrights and all other intellectual property rights for the software, as well as the software manual, are the property of YAESU MUSEN CO., LTD.
- The revision, modification, reverse engineering, and decompiling of this software is prohibited. Redistribution, transfer, and resale of downloaded files are also prohibited.
- Do not resell the software or manuals.
- 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.

To use the ADMS-19 PC programmer, the software application must first be installed onto the computer. Read this manual thoroughly and install the software.

Trademarks

Microsoft®, Windows®, Windows® 11 are registered trademarks in the United States and other countries.

System Requirements

Supported Operating Systems

Microsoft® Windows® 11

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.

Storage

The capacity of the HDD (SSD recommended) 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.

USB Type-C Cable

Commercially available USB cable.



To connect to a PC using a USB cable, a Virtual COM port driver must be installed on the PC. Visit the Yaesu website <http://www.yaesu.com/> to download the Virtual COM port driver and Installation Manual.

Necessary PC peripheral interfaces

USB port (USB 1.1 / USB 2.0)

Setup of the ADMS-19

The procedure to install the ADMS-19 on a Windows® 11 computer is shown below for the purpose of explanation.

Preparation

- ☐ Download the ADMS-19 software from the Yaesu Website for details (<http://www.yaesu.com/>).
- ☐ Download the ADMS-19 Programming Software to the same folder that contains unzip files.

ADMS-19 Programming Software Installation

1. Start up the computer as an “Administrator” user.
2. Double-click [setup.exe] in the same folder that contains the unzip files.

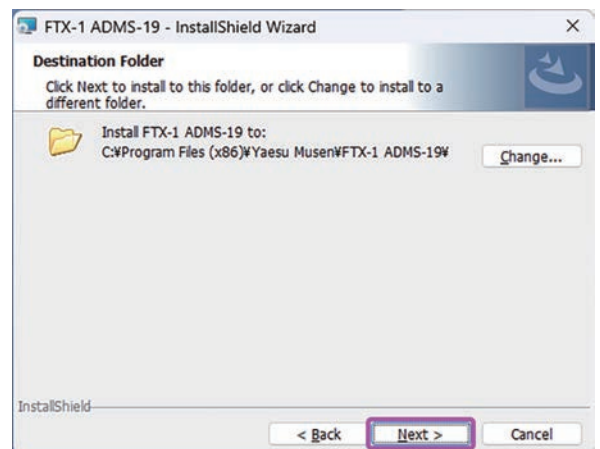
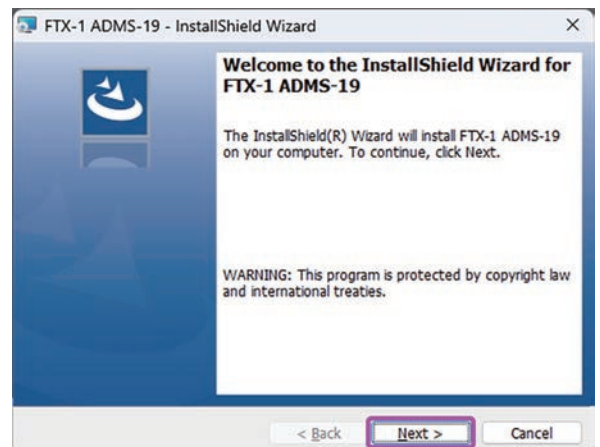
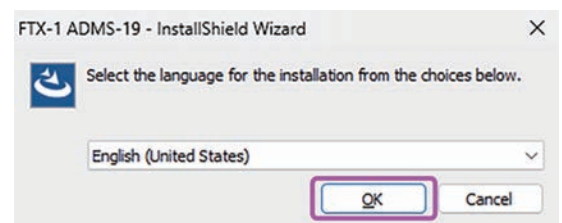
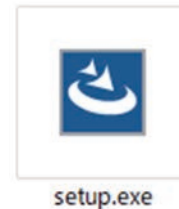
When the “.NET Framework install” dialog box opens, follow the on-screen instructions to install the ADMS-19 programming software.

3. The dialog box, which is shown right, will open. Click the [OK] button.

4. The dialog box, which is shown right, will open. Click the [Next] button.

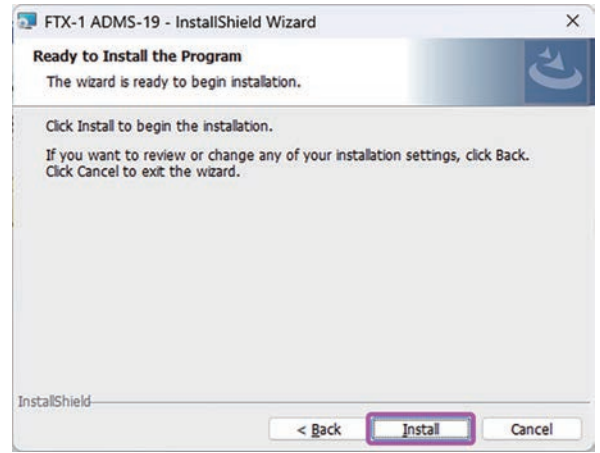
5. The dialog box, which is shown to the right, allows you to change the installation destination. Click [Change] button to change the destination.

If you do not want to change the installation destination, click [Next] button.

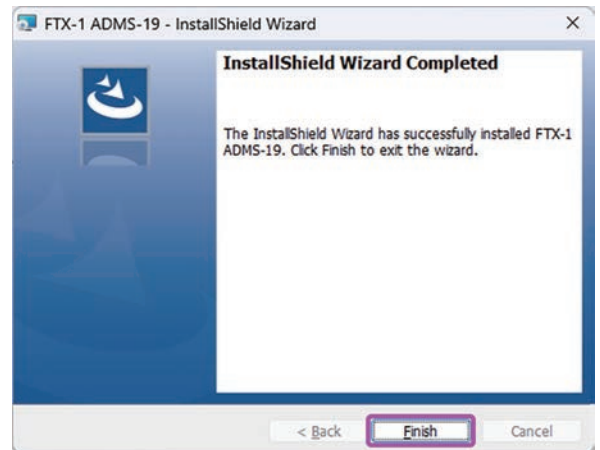


6. Click the **[Install]** button.

When the “User Account Control” dialog box opens, click the [Yes] button.



7. When the installation is finished, the dialog box shown right will open. Click the **[Finish]** button, to complete the installation of the software.



Uninstalling the ADMS-19

The procedure to manually uninstall ADMS-19 on a Windows® 11 computer is shown below for the purpose of explanation.

1. Click the **[Start]** button and then click **[Settings]**.
2. Click **[Apps]**.
3. Select “**FTX-1 ADMS-19**” and then click **[Uninstall]**.
 - Uninstallation of the software will commence. The uninstall procedure ends with this.

USB Driver Software Installation

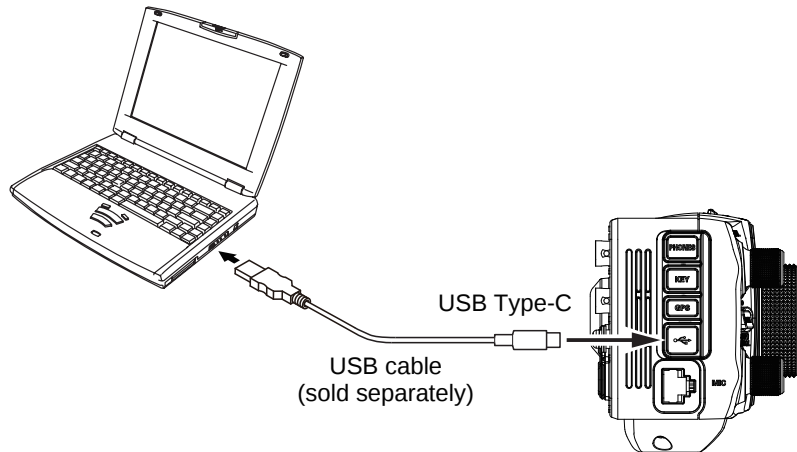


To connect to a PC using a USB cable, a Virtual COM port driver must be installed on the PC.

Before using the USB cable, installation of the Virtual COM port driver. Download the Virtual COM port driver from the Yaesu website (<https://www.yaesu.com/>). Read the installation manual thoroughly and install the driver.

Connect the FTX-1 and the PC

Refer to the figure and connect the USB cable.



Execute ADMS-19

To open the ADMS-19 software, double-click the “FTX-1 ADMS-19” icon on the desktop of the computer.



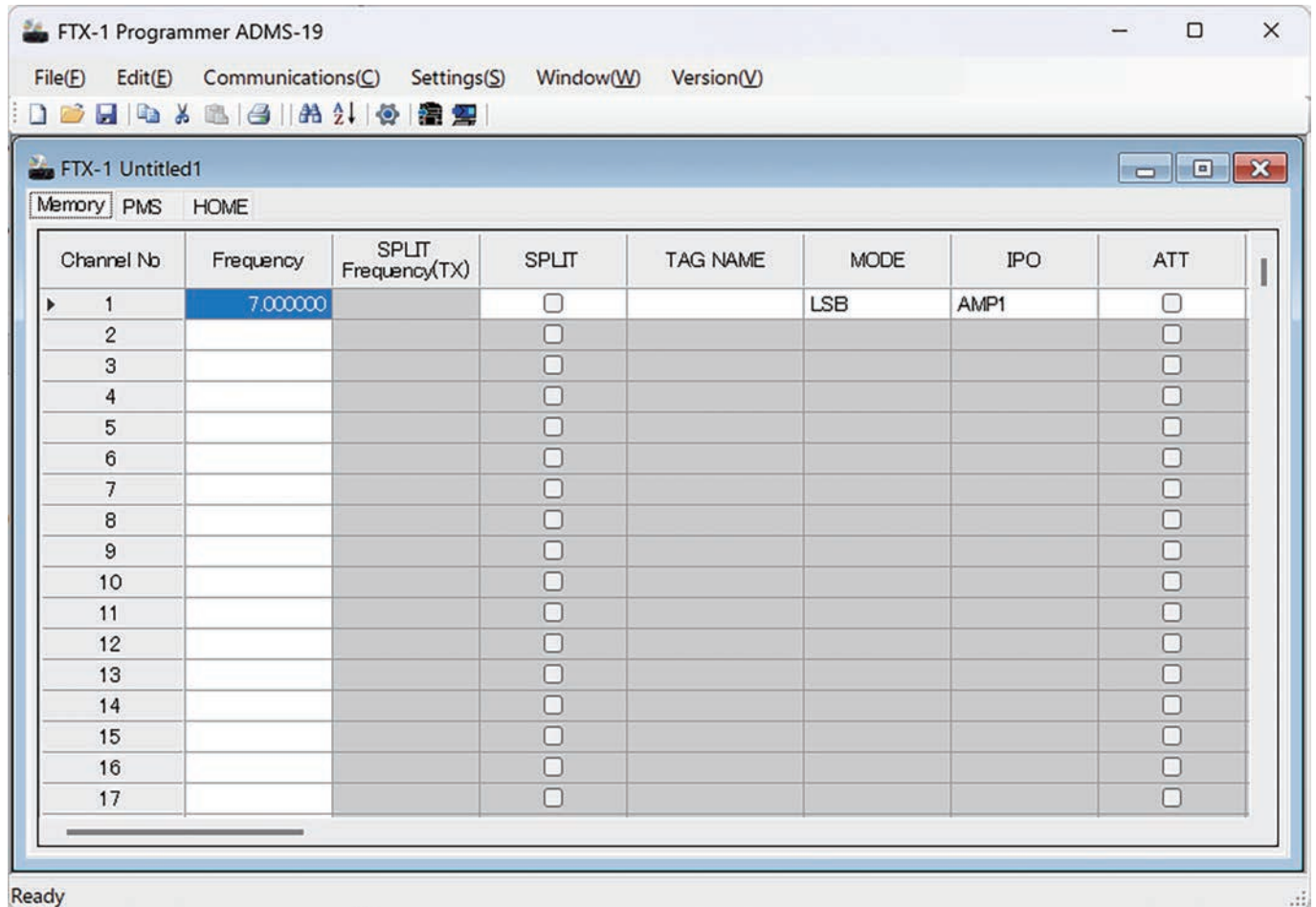
- **To close the ADMS-19 software**

Click “Exit” in the “File” menu to close the ADMS-19.

Display examples

First Screen

This is the first screen to be displayed when starting the ADMS-19 software.

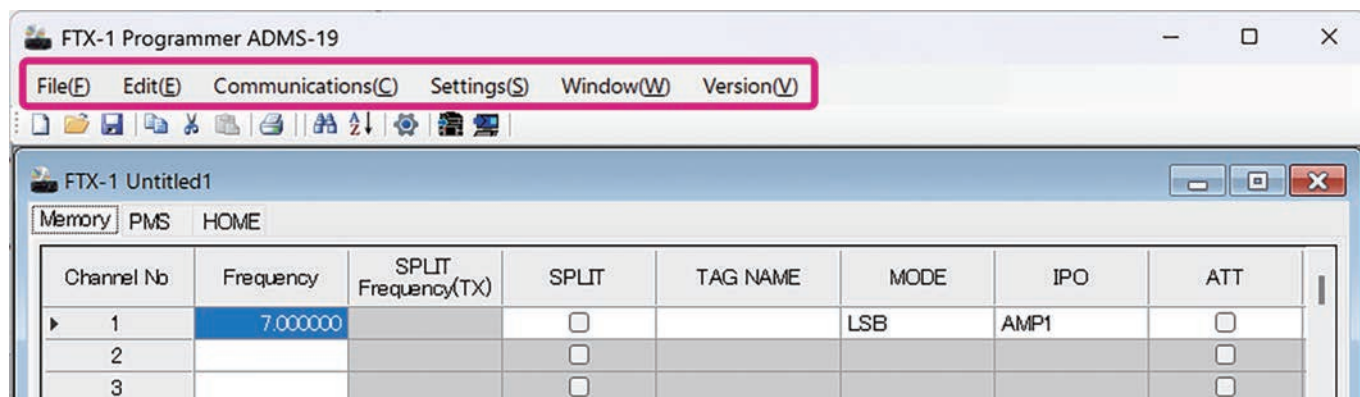


Menu Bar

Click the left mouse button on each Menu in the Menu bar to settings the import/export the setting data file, get data form FTX-1 and send data to FTX-1.



For more details, see “Names and Functions of Menu Bar” (page 13).

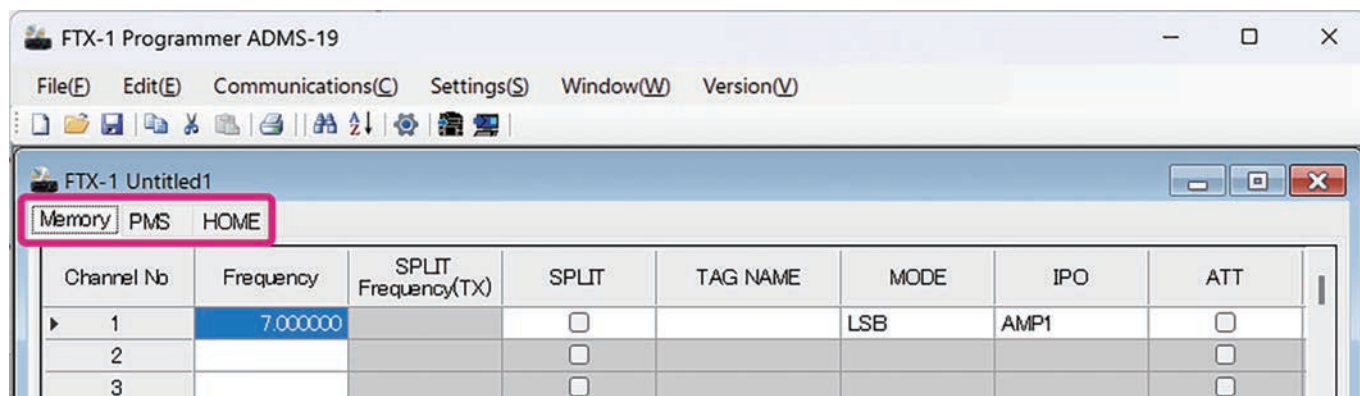


TAB Menu Bar

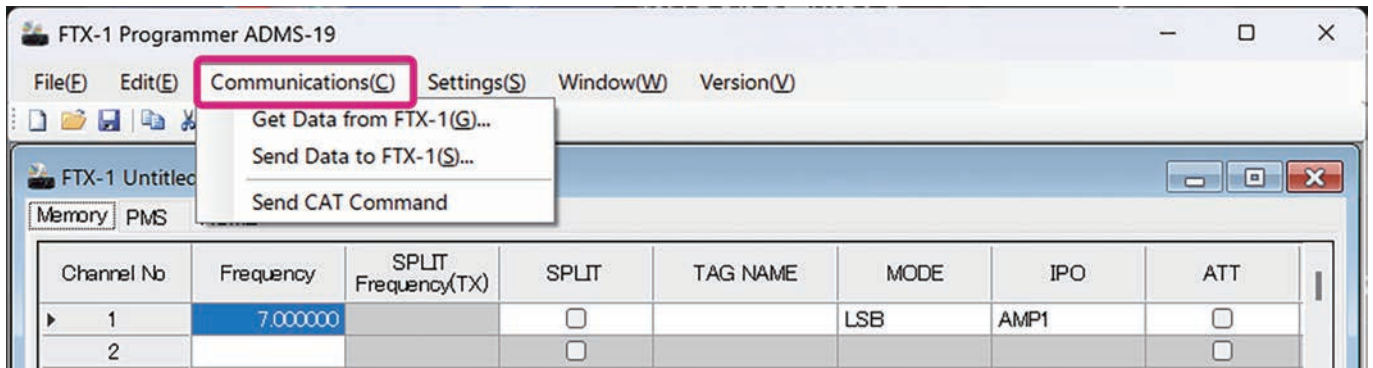
Click the left mouse button on each TAB in the title bar (Memory, PMS and HOME) to display the frequency list of the desired memory channels and other preset transceiver settings.



For more details, see “Setting the Template Items” (page 24).

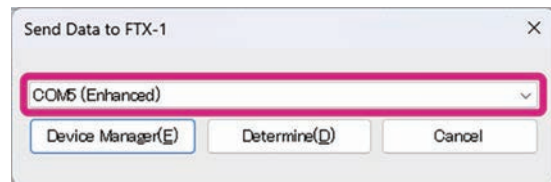
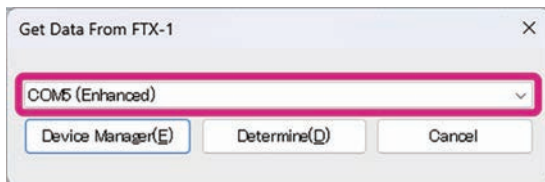


Communications (Data communication with the FTX-1)



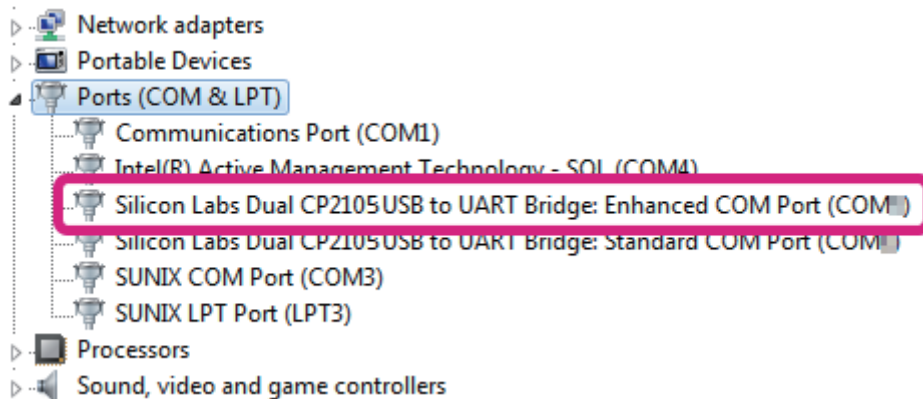
Communication port setting

1. From the menu bar, select **“Communications”** menu, and then click on the **“Get Data from FTX-1”** or **“Send Data to FTX-1”**.
2. Click [▼] in the “Serial Port Selection” column and click the COM port connected to the FTX-1.



• How to Confirm the Installation, and the COM Port Number

Clicking [Device Manager (E)] as shown on the screen above will open the Device Manager window on your computer. Double-click [Ports (COM & LPT)].



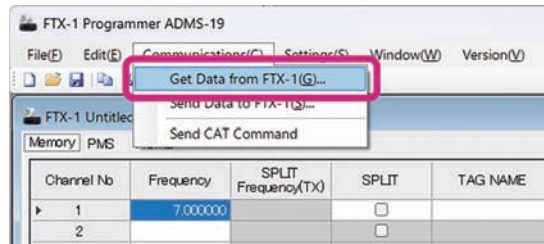
In the ADMS-19 software, select the COM port number for the **“Enhanced COM Port (COM*)”**.
*(The number shown in the “(COMn)” portion may vary from computer to computer.)

3. Click [Determine].

Get Data from FTX-1

This command transfers the settings data of the FTX-1 to the ADMS-19 PC programmer.

1. From the menu bar, select “**Communications**” menu, and then click on the “**Get Data from FTX-1**”.

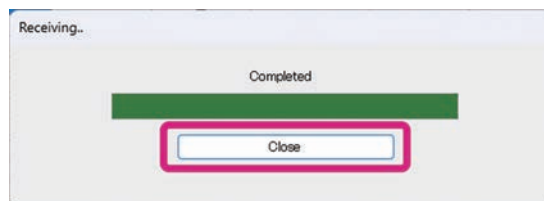


The “Get Data From FTX-1” window will open.

2. Click [**Determine**].



3. When the data transfer is completed, “Completed” will appear on the computer display, and click the [**Close**] button.



4. The template screen received from the FTX-1 appears on the computer display.



This template and configuration data may be saved to the computer hard drive, using the “Save” or “Save as” commands in the “File” menu.

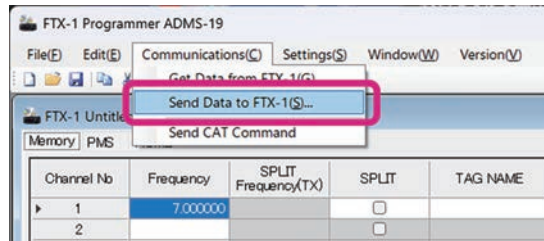
Send Data to FTX-1

This command downloads the ADMS-19 data from the computer to the FTX-1.



Data cannot be sent to the FTX-1 until the information is read from the FTX-1 to the ADMS-19 PC programmer.

1. From the menu bar, select “**Communications**” menu, and then click on the “**Send Data to FTX-1**”.



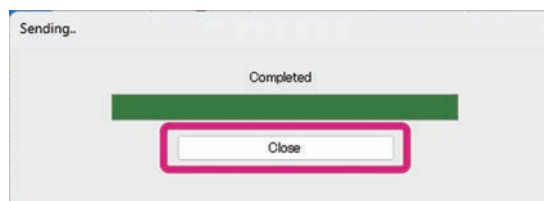
The transmission procedure screen will open.

2. Click [**Determine**].



Never disconnect the USB cable while data transmission is in progress.

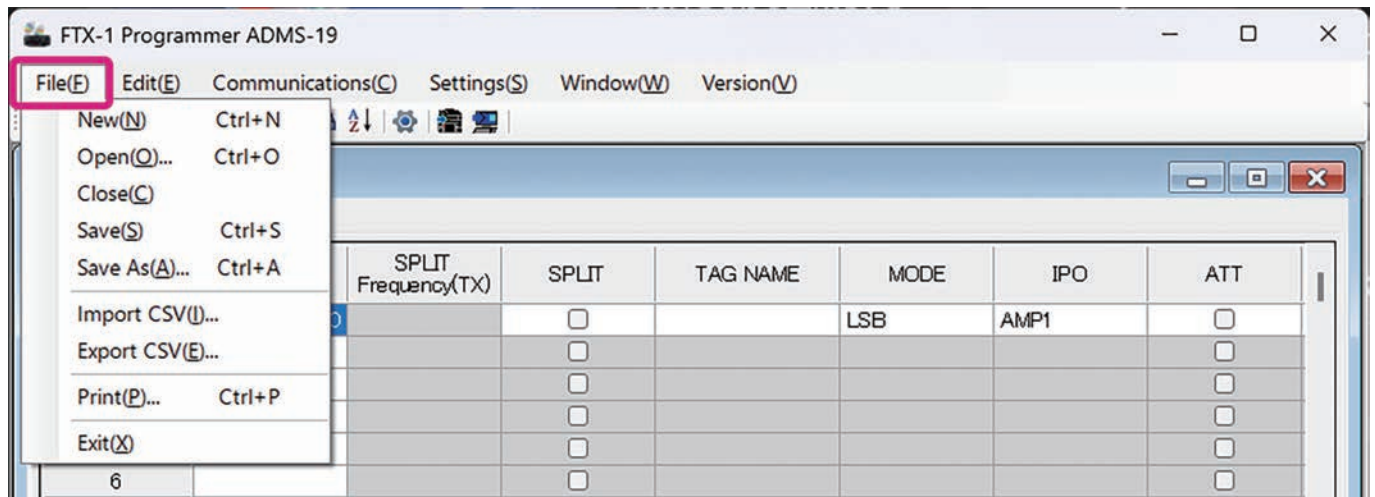
3. When the data transmission completes, “Completed” will appear on the computer display, and click the [**Close**] button.



4. The FTX-1 will automatically start up in accordance with the set data.

Names and Functions of Menu Bar

File



- **New**

When the configuration file is not open, click [**New**] parameter on the “**File**” menu to open a new configuration file.

- **Open**

Click the [**Open**] parameter in the “**File**” menu to display the “Open” window. Select the existing saved template file, and click the [**Open**] button.

- **Close**

Close the displayed configuration file by clicking the left mouse button on the [**Close**] parameter in the “**File**” menu.

- **Save**

Click the [**Save**] configuration in the “**File**” menu.

To save the present configuration, and overwrite the selected configuration file without changing the file name.

- **Save as**

Click the [**Save As**] parameter in the “**File**” menu.

Specify the file name and destination folder for the selected configuration file and then click the [**Save**] button to save the file.

- **Import**

ADMS-19 data files may be created using a spreadsheet such as Microsoft Excel.

To create a data file for the import of data, save the spreadsheet in the “CSV” comma separated file format. A spreadsheet may be easily created by exporting the template data in the “CSV” format using the ADMS-19 “Export” command. After the “CSV” data has been edited the spreadsheet may be imported back into the ADMS-19 PC programmer.

A separate import file is needed for each template.



Do not edit the “Check” line at the right side end of the completed CSV file.

- **Export**

To export the data file in the “CSV” (Comma Separated Values) format.

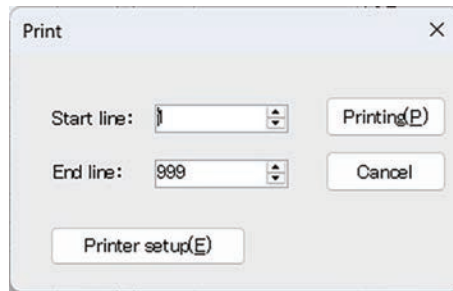
Click the [**Export**] parameter in the “**File**” menu, On the “Save as” screen displayed, specify the directory and file name and save the file.

Type a file name in the bottom box, then click the [**OK**] button.

- **Print**

To print the current template file data to hard copy, click the **[Print]** parameter in the “File” menu, the “Print” window will open to enable printing. Set the start line and the end line of the data you want to print, and then click the **[Printing]** button to start printing.

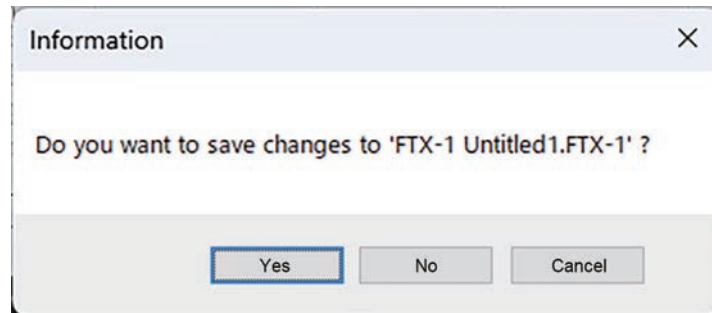
To change the specific printer settings, go to the Printer properties by clicking the the **[Printer setup]** button.



- **Exit**

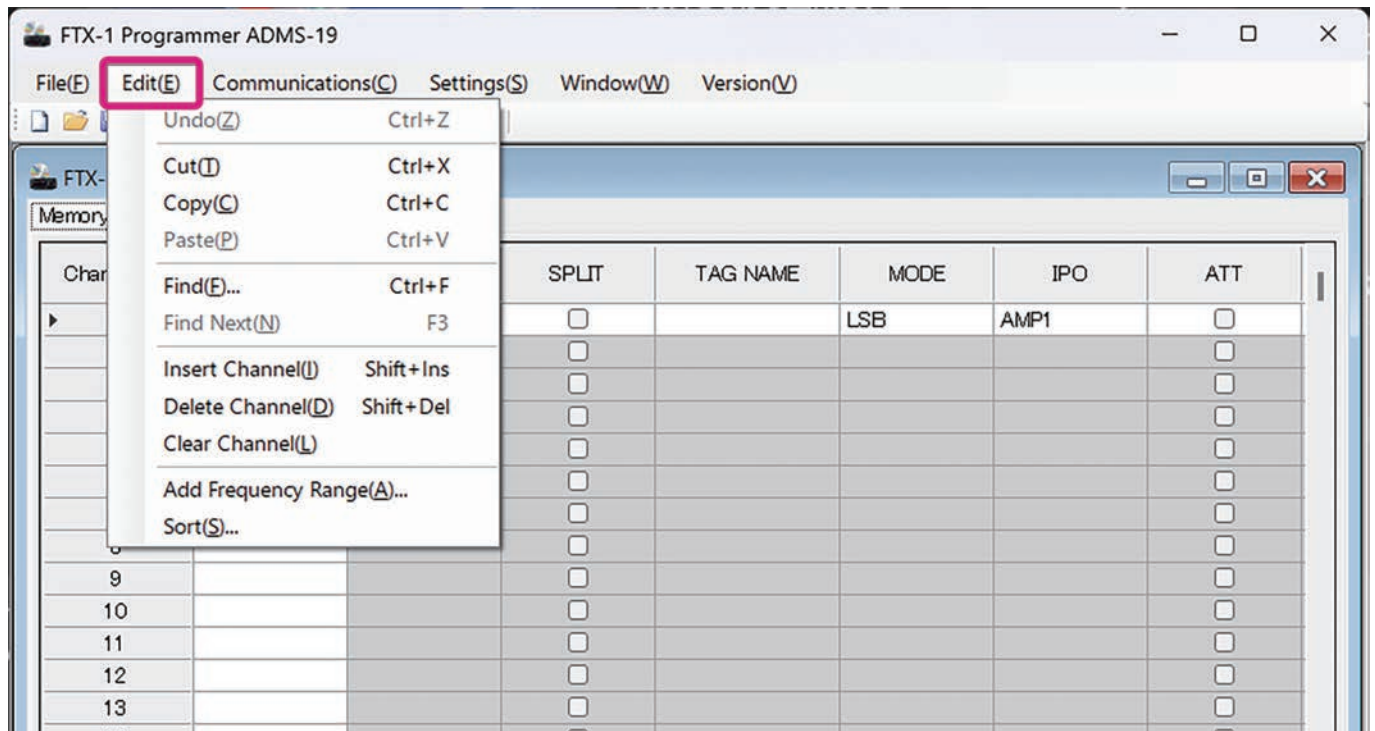
To exit the ADMS-19 PC programmer, click the **[Exit]** parameter in the **[File]** menu to close the ADMS-19 software.

If the following pop-up screen appears to confirm saving, follow the on-screen instruction to select the desired button and close the ADMS-19 software.



Edit

Click the row to edit, then perform the following each operations.



Part of setting items of each row cannot be cut, copy, and paste is not possible.

- **Undo**

To undo the edited data, click the [**Undo**] parameter in the “**Edit**” menu.

- **Cut**

To cut the data of the selected area, click the [**Cut**] parameter in the “**Edit**” menu.

- **Copy**

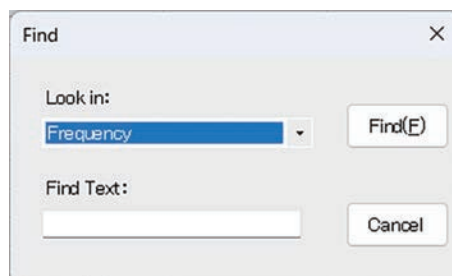
To copy the data of the selected area to the clipboard, click the [**Copy**] parameter in the “**Edit**” menu.

- **Paste**

To paste the clipboard data to the selected area, click the [**Paste**] parameter in the “**Edit**” menu.

- **Find**

To find a specified text, click the [**Find**] parameter in the “**Edit**” menu. The “Find” window will open.



Select the column from the drop down list. Enter the text to search for, and then click the [**Find**] button. The candidate character string found will be highlighted.

- **Find Next**

Click the [**Find Next**] parameter in the “**Edit**” menu to move to the next candidate character string.

- **Insert Channel**

To insert channel data, click the [**Insert Channel**] parameter in the “**Edit**” menu to create a blank new channel data row under a current cursor. If there are any higher channel numbers with channel data, the higher channel numbers will be displayed after the newly inserted channel number so that the channels are displayed in the ascending order.

Attempting to insert a new channel when highest channel contains data causes the data registered to highest channel to be deleted. “Upper memories will be lost, Continue?” will appear. If you agree, click the [**OK**] button.

- **Delete Channel**

To delete the specified range of channel data, click the [**Delete Channel**] parameter in the “**Edit**” menu. The channels that were displayed after the deleted channels will shift up accordingly.

- **Clear Channel**

To clear the current channel data, click the [**Clear Channel**] parameter in the “**Edit**” menu. The channels that were displayed after the deleted channels will not shift up and the blank channels will remain.

- **Add Frequency Range**

New channels may be created in designated frequency steps from the starting frequency by clicking the left mouse button on the [**Add Frequency Range**] parameter in the “**Edit**” menu. The “Add Frequency Range” window will open.

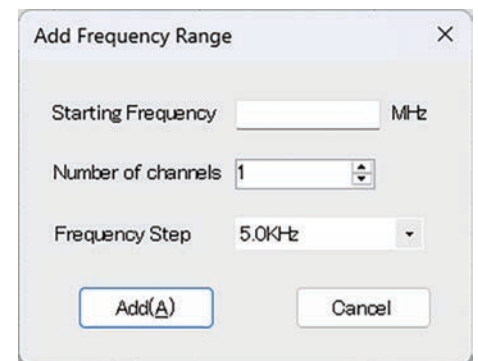
A specified number of memory channels may be created, beginning from the starting frequency in the specified frequency steps.

Starting Frequency: Enter the lower frequency

Number of Channel: Enter the number of channels

Frequency Step: Enter the desire frequency step

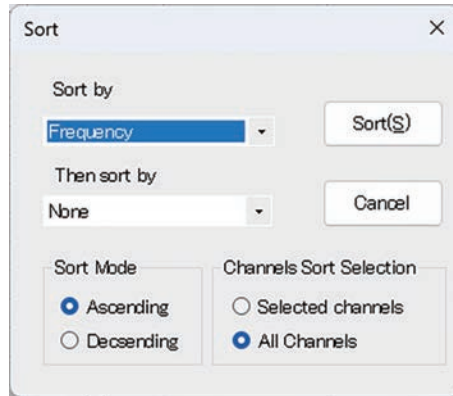
Click the [**OK**] button to create the additional specified memory channels.



The 8.33 kHz step is available only when receiving on the Air band (108-136.995 MHz).

- **Sort**

Click the [**Sort**] parameter in the “**Edit**” menu, the “Sort” window will open.



Sort by:

Select the first parameter for sorting items such as the order of frequencies.

Then sort by:

Select the second parameter for sorting.

Sort Mode:

Set to sort in ascending or descending order.

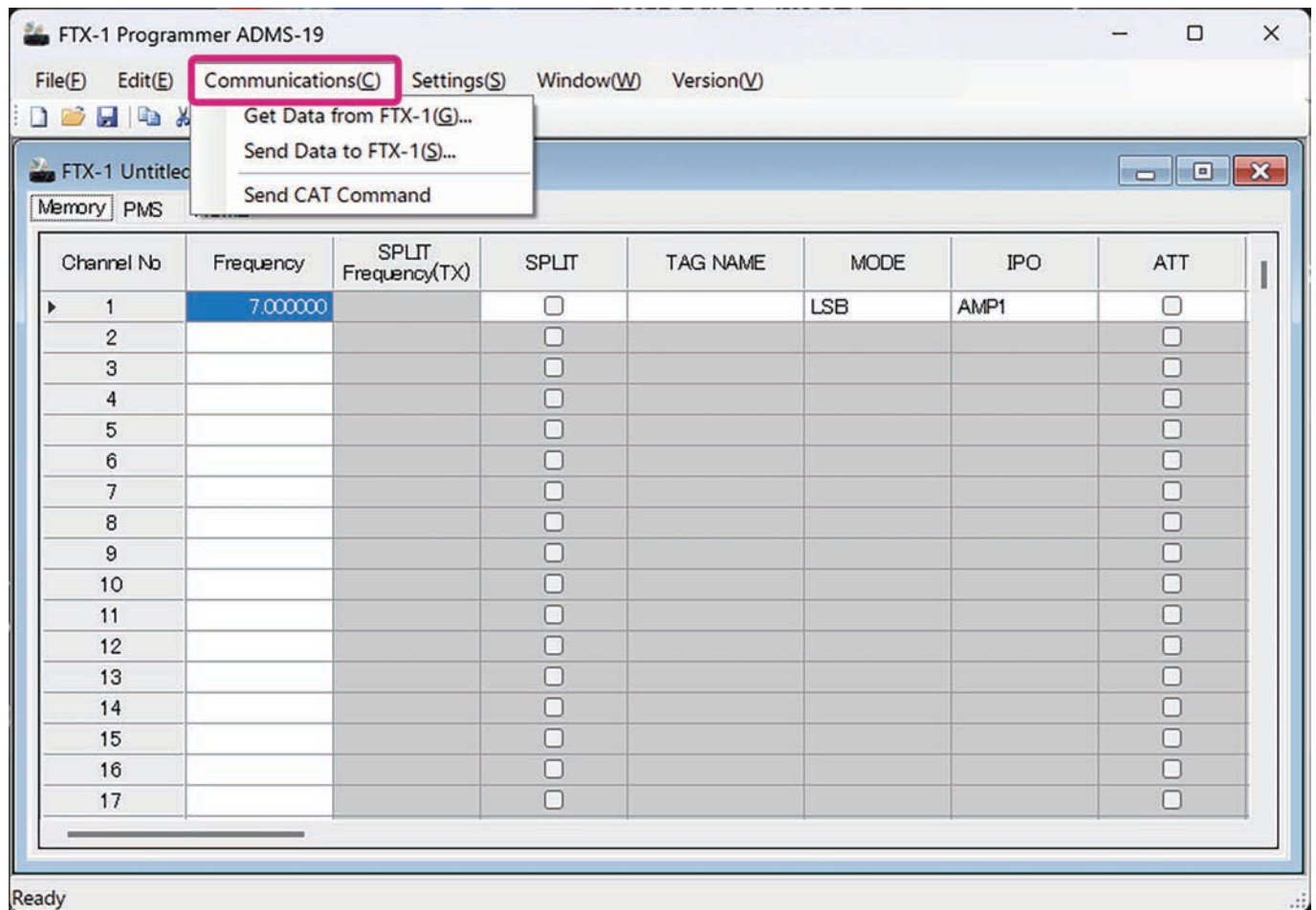
Channels Sort Selection:

Set whether to sort the selected channel column(s) or to sort all channel columns.

Click the [**Sort**] button to initiate the sorting according to the above instructions.

The data may be restored to the previous order by using the “Undo” command.

Communications (Data communication with the FTX-1)



Get Data from FTX-1

This command transfers the settings data of the FTX-1 to the ADMS-19 PC programmer. For details on the “Get Data from FTX-1”, refer to “Get Data from FTX-1” (Page 11).

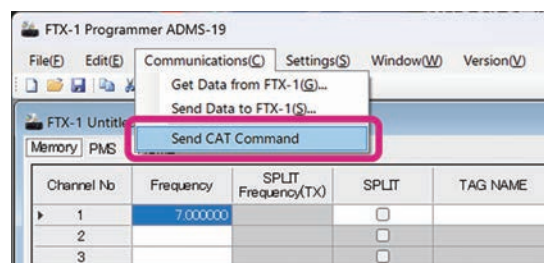
Send Data to FTX-1

This command downloads the ADMS-19 data from the computer to the FTX-1. For details on the “Send Data to FTX-1”, refer to “Send Data to FTX-1” (Page 12).

Send CAT Command

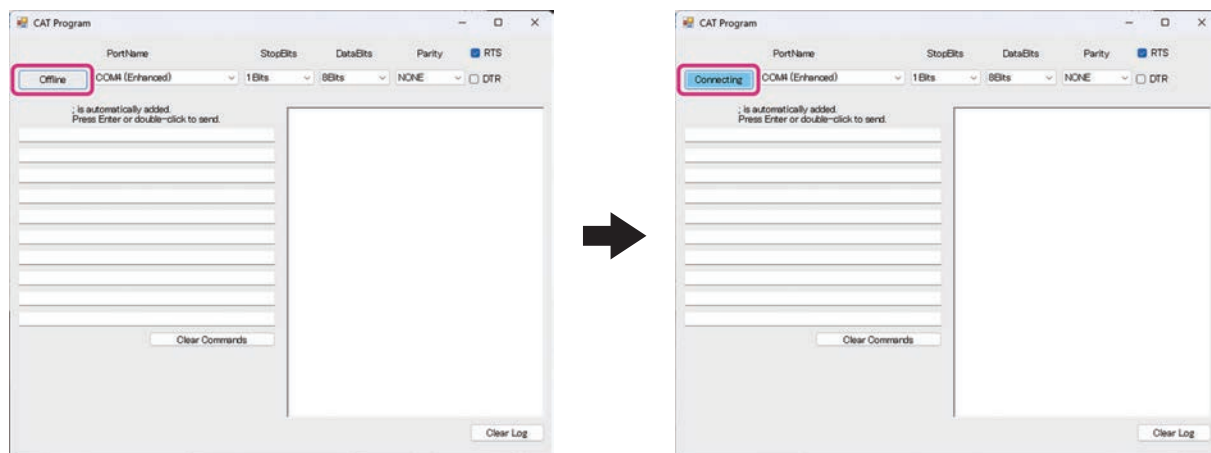
The FTX-1 Series can be controlled via CAT commands.

1. From the menu bar, select “**Communications**” menu, and then click on the “**Send CAT Command**”.



The “**CAT Program**” screen will open.

2. Click [**Offline**].
[**Offline**] changes to [**Connecting**].

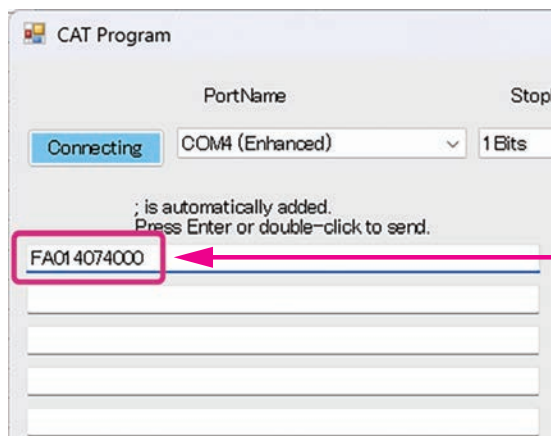


3. Enter the CAT command in the command input field on the left side of the screen.



For CAT commands, please refer to the “FTX-1 Series CAT Operation Reference Manual” which may be downloaded from the Yaesu website.

Example: Enter a CAT command to set the MAIN side frequency to “14.074000MHz”.

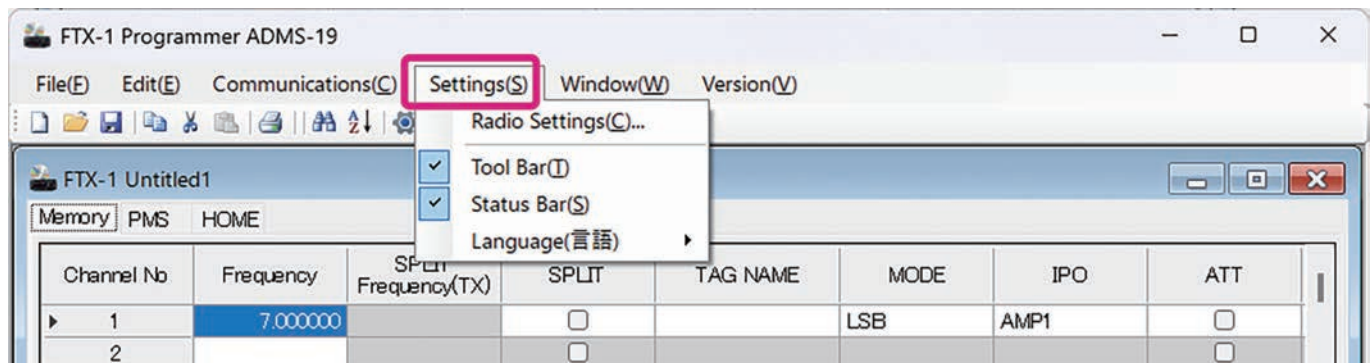


A command terminator “;” is not required at the end of the command.

4. After entering a command, press the Enter key on your keyboard or double-click using your mouse.
The FTX-1 will perform the action corresponding to the command.

- Up to 10 CAT commands may be entered and are saved automatically.
- Click [**Clear Commands**] to clear all commands.

Settings



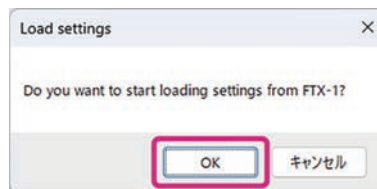
• Radio Settings

Click the **[Radio Settings]** parameter in the “**Setting**” menu to display or hide the Toolbar.

1. From the menu bar, select “**Setting**” menu, and then click on the “**Radio Settings**”.

The “**Radio Settings**” screen will open.

2. When the following display appears “Do you want to start loading settings from FTX-1?”, click **[OK]**.

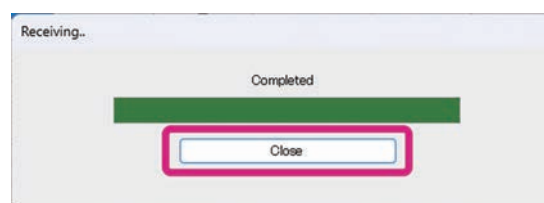


The “Get Data From FTX-1” window will open.

3. Click **[Determine]**.



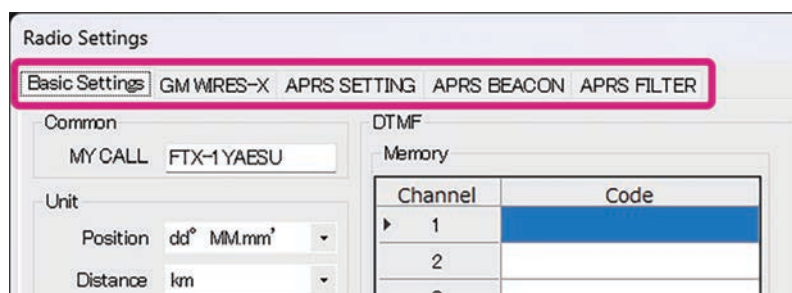
4. When the data transfer is completed, “Completed” will appear on the computer display, and click the **[Close]** button.



5. The settings uploaded from the FTX-1 are displayed on the “**Radio Settings**” screen.

6. Click one of the five tabs listed below to configure those settings.

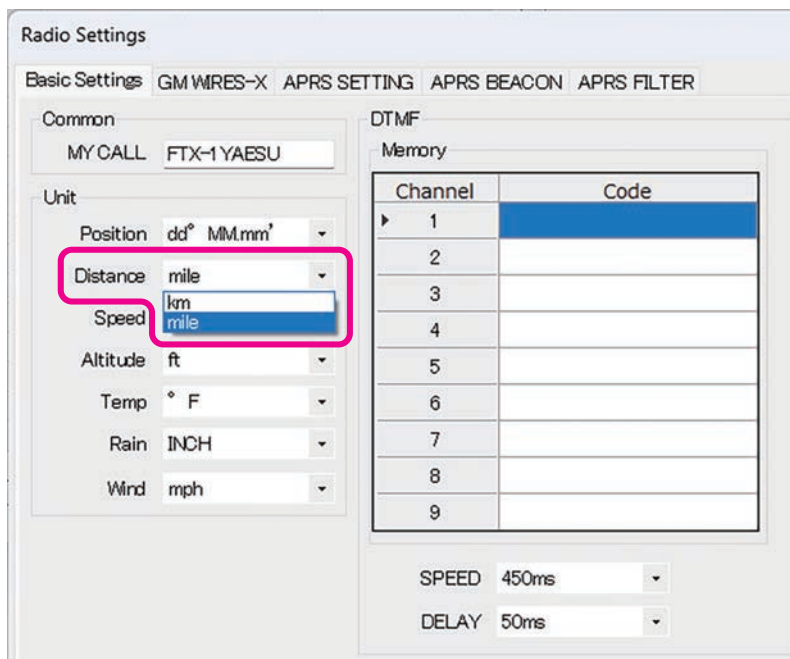
[Basic Settings], **[GM WIRE-X]**, **[APRS SETTING]**, **[APRS BEACON]** and **[APRS FILTER]**



7. Edit a setting by clicking the corresponding drop-down arrow and selecting the desired value.

Refer to the “FTX-1 Operation Manual” for the details of each function.

Example: (Distance: Distance Format Setting):



The "Radio Settings" dialog box is shown with the "Basic Settings" tab selected. The "Common" section has "MY CALL" set to "FTX-1 YAESU". The "Unit" section has "Position" set to "dd° MM,mm'", "Distance" set to "mile", "Speed" set to "mile", "Altitude" set to "ft", "Temp" set to "° F", "Rain" set to "INCH", and "Wind" set to "mph". The "DTMF" section has a "Memory" table with 9 channels and a "Code" column. The "SPEED" is set to "450ms" and the "DELAY" is set to "50ms".

Channel	Code
1	
2	
3	
4	
5	
6	
7	
8	
9	

8. When the settings are configured correctly, click [**Send Data to FTX-1**] in the lower-right corner of the “**Radio Settings**” screen.
9. Click [**Determine**].

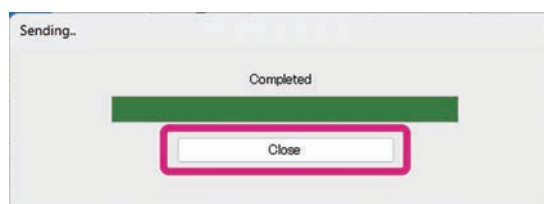


The "Send Data to FTX-1" dialog box is shown with a dropdown menu set to "COM5 (Enhanced)". The "Determine(D)" button is highlighted with a red box.



Never disconnect the USB cable while data transmission is in progress.

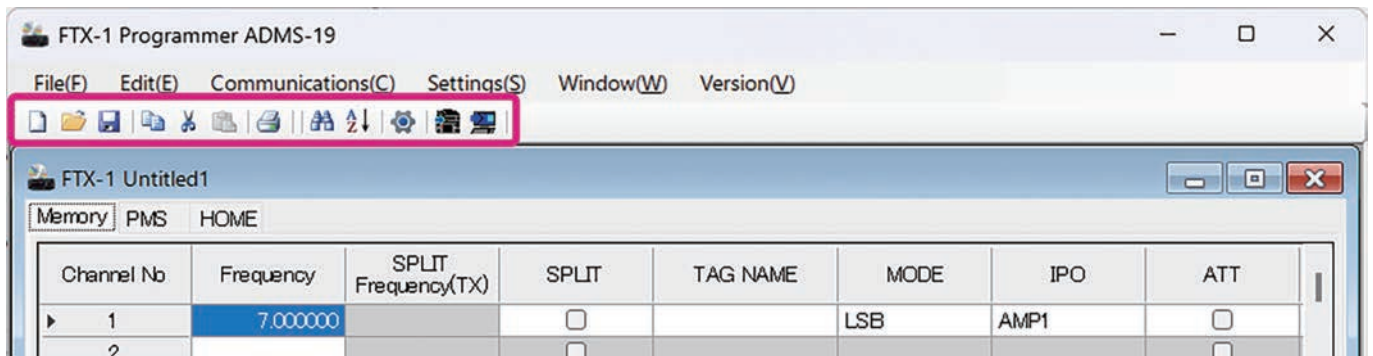
10. When the data transmission completes, “Completed” will appear on the computer display, and click the [**Close**] button.



The "Sending..." dialog box is shown with a green progress bar and the text "Completed". The "Close" button is highlighted with a red box.

• Tool Bar

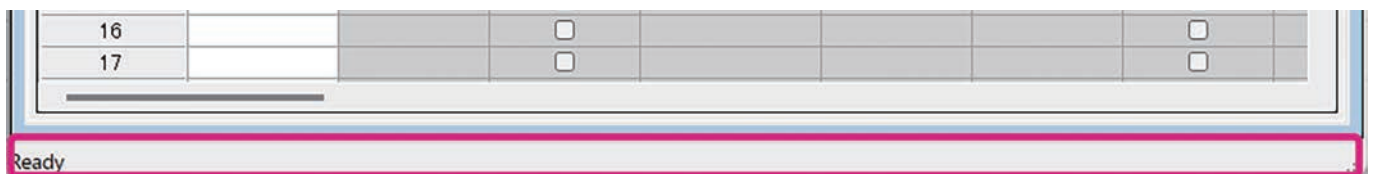
Click the **[Tool bar]** parameter in the “**Setting**” menu to display or hide the Toolbar.
A check mark appears next to the “Tool bar” parameter when the Toolbar is displayed.



• Status Bar

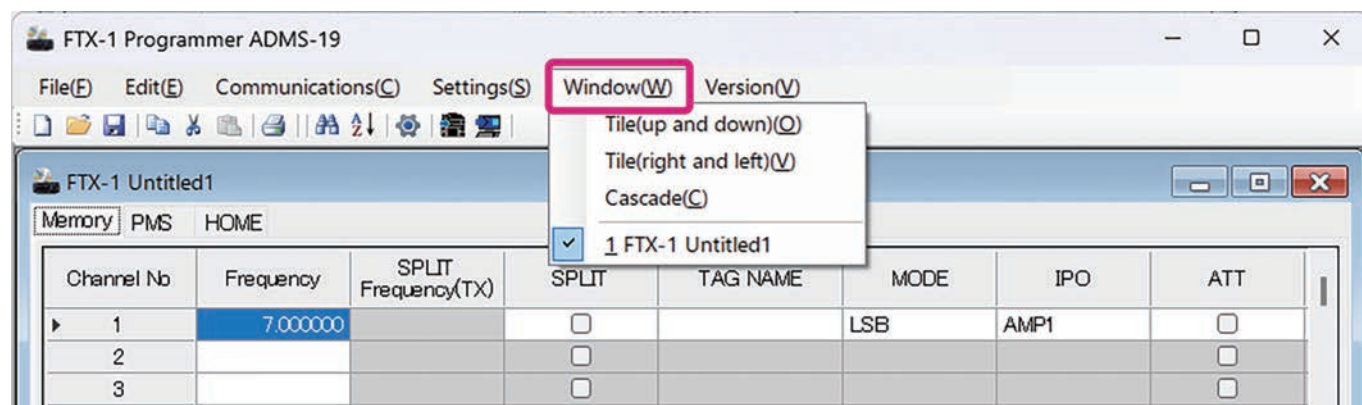
The “Status Bar” describes the action to be executed by the selected menu item, or the depressed toolbar button, and keyboard latch state.

A check mark appears next to the “Status Bar” parameter when the Status Bar is displayed.



Window

This menu sets the operating window parameters of the ADMS-19 PC programmer.



Tile (up and down)

- Click the [**Tile (up and down)**] parameter in the “**Window**” menu to display multiple template files by dividing the window into two lists (upper and lower parts).

Tile (up and down)

- Click the [**Tile (up and down)**] parameter in the “**Window**” menu to display multiple template files by dividing the window into two lists (right and left parts).

Cascade

- Click the [**Cascade**] parameter in the “**Window**” menu to display multiple templates in cascade format.

Setting the Template Items

Memory / PMS

Use this page to edit the Memory channels data, Skip Memory channels, or PMS (Programmable Memory Scan) memory channels.

The screenshot shows the 'FTX-1 Programmer ADMS-19' application window. The 'Memory' tab is selected, displaying a table for editing memory channels. The table has columns for Channel No, Frequency, SPLIT Frequency(TX), SPLIT, TAG NAME, MODE, IPO, and ATT. Channel 1 is highlighted with a frequency of 7.000000. The SPLIT column contains checkboxes, and the ATT column contains checkboxes. The status bar at the bottom indicates 'Ready'.

Channel No	Frequency	SPLIT Frequency(TX)	SPLIT	TAG NAME	MODE	IPO	ATT
1	7.000000		☐		LSB	AMP1	☐
2			☐				☐
3			☐				☐
4			☐				☐
5			☐				☐
6			☐				☐
7			☐				☐
8			☐				☐
9			☐				☐
10			☐				☐
11			☐				☐
12			☐				☐
13			☐				☐
14			☐				☐
15			☐				☐
16			☐				☐
17			☐				☐

Memory

Enter and edit the frequencies you normally use to the memory channels. Up to 999 channels can be registered.

PMS

Edit the upper and lower limit frequencies for performing PMS (Programmable Memory Scan). Enter the lower limit frequency for the L channel and the upper limit frequency for the corresponding U channel. Up to 50 pairs (100 channels) of PMS can be registered.

About the setting items of each memory channels

- **Frequency/ SPLIT Frequency (TX)**

Enter the desired frequency. When the frequency entry is complete, use the → key to move the cursor to the right and subsequently configure the additional detail settings for the channel. To enter the frequency for the next channel, press the ENTER or ↓ key.

- **SPLIT**

Clicking the checkbox of this item activates Split frequency operation using the registered “Frequency” and “SPLIT Frequency (TX)”.

- **TAG NAME**

Enter the desired memory name (up to 16 digits).

- **MODE**

Select the operating mode for receive channel.

- **IPO**

Selects the gain of the RF amplifier section for the IPO (Intercept Point Optimization) function.

IPO: The received signal is input to the IF mixer without passing through the RF amplifier. This can greatly improve receiving, especially in harsh low band signal environments.

AMP1: One stage RF amplifier is connected.

This is a well-balanced operation of receiver sensitivity and characteristics (Approx. 10 dB gain).

AMP2: Two RF amplifiers are connected in series to give top priority to sensitivity (Approx. 20 dB gain).

- **ATT**

By clicking the checkbox of this item, activates the ATT (Attenuator) function.

- **S-DX**

By clicking the checkbox of this item, activates the S-DX (Super DX) function.

- **AGC**

Selects the AGC receiver-recovery time.

- **Narrow**

By ticking the checkbox of this item, switches to the Narrow mode.

- **SQL TYPE**

This item selects the Audio Squelch Code type.

- **CTCSS**

This item selects the Tone Frequency of the Tone Squelch.

- **DCS**

Select the DCS code when DCS is set.

- **RX DG-ID**

Select the receiving DG-ID number.

- **TX DG-ID**

Select the transmitting DG-ID number

- **Repeater**

Set the frequency shift direction.

-: The transmit frequency is shifted to the minus offset.

SIMP: The transmit frequency is not shifted.

+: The transmit frequency is shifted to the plus offset.

ARS: The auto repeater shift function is enabled.

- **WIDTH**

Selects bandwidth range.

The total bandwidth adjustment range will vary according to the operating mode (see table below).

Operating Mode	IF BANDWIDTH
LSB / USB	300Hz - 4000Hz (default: 3000Hz)
CW-L / CW-U RTTY-L / RTTY-U	50Hz - 4000Hz (default: 500Hz)
DATA-L / DATA-U PSK	50Hz - 4000Hz (default: 3200Hz)
AM	9000Hz (Fixed)
AM-N	6000Hz (Fixed)

- **SHIFT**

Selects the passband tuning range.

The total passband tuning range for the IF SHIFT system is $\pm 1.2\text{kHz}$.

- **NB**

Activates/Deactivates the NB (Noise blanker) function.

- **DNR**

Activates/Deactivates the DNR (Digital Noise Reduction) function.

- **NOTCH**

By clicking the checkbox of this item, activates the IF NOTCH Filter.

- **NOTCH FREQ**

Selects the “null” position of the NOTCH filter.

- **CONTOUR**

By clicking the checkbox of this item, activates the CONTOUR Filter system.

- **CONT FREQ**

Selects the setting at which the incoming signal sounds most natural.

- **DNF**

By clicking the checkbox of this item, activates the DNF (Digital Notch Filter) function.

- **APF**

By clicking the checkbox of this item, activates the APF (Audio Peak Filter) function.

- **BK-IN**

By clicking the checkbox of this item, activates the CW Break-in function.

- **ScanSkip**

By clicking the checkbox of this item, skips the memory channels during scanning.

- **M-GRP**

By clicking the checkbox of this item, frequently used memory channels regardless of the frequency band can be registered and called up in the M-GRP (Memory Group).

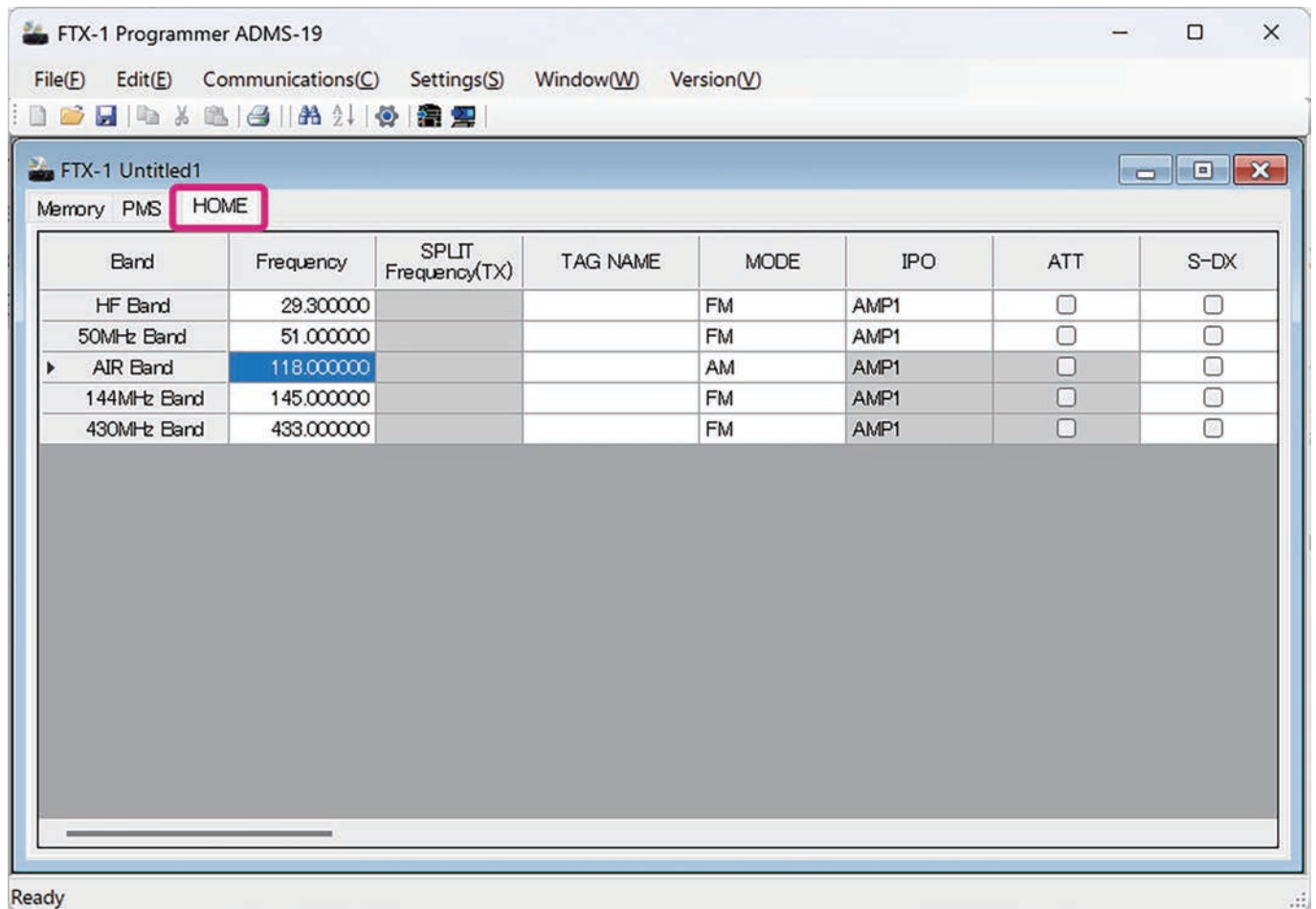
- **Comment**

Comments may be added to the registered memory channels. Up to 255 letters can be used. This function is useful in organizing the memory channels by, for example, applying a category name to each channel.

These comments are not transferred to the FTX-1.

HOME

Edit the Home Channel configurations:



About the setting items of HOME channel frequency

• Frequency

Enter any desired changes into Home Channel frequency. The FTX-1 default Frequencies are pre-entered into the ADMS-19 standard template.

A frequency that is out of the transceiver's range cannot be entered. When the error pop-up window is opened, enter the correct frequency.

• TAG NAME

Enter the desired memory name (up to 16 digits).

• MODE

Select the operating mode for receive channel.

• IPO

Selects the gain of the RF amplifier section for the IPO (Intercept Point Optimization) function.

IPO: The received signal is input to the IF mixer without passing through the RF amplifier. This can greatly improve receiving, especially in harsh low band signal environments.

AMP1: One stage RF amplifier is connected.

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AMP2: Two RF amplifiers are connected in series to give top priority to sensitivity (Approx. 20 dB gain).

• ATT

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• S-DX

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- **AGC**

Selects the AGC receiver-recovery time.

- **Narrow**

By ticking the checkbox of this item, switches to the Narrow mode.

- **SQL TYPE**

This item selects the Audio Squelch Code type.

- **CTCSS**

This item selects the Tone Frequency of the Tone Squelch.

- **DCS**

Select the DCS code when DCS is set.

- **RX DG-ID**

Select the receiving DG-ID number.

- **TX DG-ID**

Select the transmitting DG-ID number

- **Repeater**

Set the frequency shift direction.

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SIMP: The transmit frequency is not shifted.

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These comments are not transferred to the FTX-1.

Troubleshooting

- **The FTX-1 cannot receive or transmit data to the computer**

- **The Data transfer does not start**

- Verify that the programming cable is correctly connected to the FTX-1 data port and to the Computer. Connect correctly.
- Is the computer COM Port setting correct?
Set the COM Port correctly.
- Are you operating in a different order from the clicked the “Get Data from FTX-1” in the “Communications” menu and displayed procedure?
- Follow the on-screen instructions.
- Are you operating in a different order from the clicked the “Send Data to FTX-1” in the “Communications” menu and displayed procedure?
Follow the on-screen instructions.

- **The data transmission has stopped before completion**

- Disconnecting the connection cable or poor contact of the connection cable.
Confirm the cable connection and try again.

- **The data import/export is not successful**

- Adjust the number of the rows of CSV file.
- Use the designated letter for the character string.
- When importing and exporting channels such as memory channels, make sure that the template files are consistent. If the template files are different, an error will occur and the data import and export will not be successful.

YAESU

Radio for Professionals

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