

# ADMS-18 Instruction Manual

The ADMS-18 software provides convenient editing of the FTM-510DR/DE 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.

# TABLE OF CONTENTS

Introduction 3
About this manual 3
Important Notes 3
Trademarks 3
System Requirements 4
Supported Operating Systems 4
CPU
RAM (System Memory) 4
HDD (Hard Disk)
microSD
Cables 4 Necessary microSD memory card reader 4
Necessary PC peripheral interfaces
The flow of a setup of ADMS-18
-
Setup of the ADMS-18 6
Preparation
ADMS-18 Programming Software Installation 6
Uninstalling the ADMS-18
Installation
Connect the FTM-510DR/DE and the PC
Execute ADMS-18
Be sure to read the transceiver data information
before using ADMS-18
Use a microSD card
Use a PC Connection Cable
Display examples
First Screen
Menu Bar 10 TAB Menu Bar 11
Set mode screen 11
Communications (Data communication
with the FTM-510DR/DE) 12
Get Data from SD card 12
The folder configuration of the micro-SD card 12
Send Data to SD card 13
Communication port setting
Get Data from FTM-510DR/DE 14
Send Data to FTM-510DR/DE 14
Names and Functions of Menu Bar 15
File
New
Open
Close
Save
Save as
Import 16
Export
Import with FTM-100D/400D format16
Export with FTM-100D/400D format
Import with FT1D/FT2D format
Export with FT1D/FT2D format
Import with FT3D/FT5D format
Export with FT3D/FT5D format
Print
ב∧ונ 10

	19
Undo	19
Cut	
Сору	
Paste	
Find	
Find Next	
Go to Channel	
Insert Channel Delete Channel	
Clear Channel	
Move Up	
Move Down	
Add Frequency Range	
Sort	
Communications (Data communication	
with the FTM-510DR/DE)	22
Settings	22
Set Mode	22
• Tool Bar	23
• Status Bar	23
Window	23
Setting the Template Items	24
Memory	24
Memories	
PMS	24
About the setting items of each	
memory channels	25
Receive Frequency/ Transmit Frequency	25
Offset Frequency	
Offset Direction	
Operating Mode	25
DIG/ANALOG	25
Name	25 25
Name Tone Mode	25 25 25
Name Tone Mode CTCSS Frequency	25 25 25 25
Name Tone Mode CTCSS Frequency DCS Code	25 25 25 25 25 25
Name Tone Mode CTCSS Frequency DCS Code User CTCSS	25 25 25 25 25 25 25
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID	25 25 25 25 25 25 25 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS. RX DG-ID TX DG-ID	25 25 25 25 25 25 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power	25 25 25 25 25 25 25 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS. RX DG-ID TX DG-ID	25 25 25 25 25 25 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP	25 25 25 25 25 25 26 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow	25 25 25 25 25 25 25 26 26 26 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift	25 25 25 25 25 25 25 26 26 26 26 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID. TX DG-ID. TX Power M-GRP SCAN. Step. Narrow Clock Shift. Comment	$\begin{array}{c} 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26$
Name Tone Mode CTCSS Frequency DCS Code. User CTCSS RX DG-ID. TX DG-ID. TX Power M-GRP. SCAN. Step Narrow. Clock Shift. Comment. VFO A / VFO B	$\begin{array}{c} 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26\\ 26$
Name Tone Mode CTCSS Frequency DCS Code User CTCSS. RX DG-ID TX DG-ID TX Power M-GRP SCAN Step Narrow Clock Shift Comment. VFO A / VFO B About the setting items	25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS. RX DG-ID TX DG-ID TX Power. M-GRP SCAN Step. Narrow. Clock Shift. Comment. VFO A / VFO B About the setting items of VFO A / VFO B frequencies	25 25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 27 27 27
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift Comment VFO A / VFO B About the setting items of VFO A / VFO B frequencies Receive Frequency	25 25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 27 27 27
Name Tone Mode CTCSS Frequency DCS Code. User CTCSS RX DG-ID. TX DG-ID. TX Power M-GRP. SCAN. Step Narrow. Clock Shift. Comment. VFO A / VFO B. About the setting items of VFO A / VFO B frequencies Receive Frequency Transmit Frequency	25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 27 27 27
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift Comment VFO A / VFO B About the setting items of VFO A / VFO B frequencies Receive Frequency Transmit Frequency Offset Frequency	25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 27 27 27 27
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift Comment VFO A / VFO B About the setting items of VFO A / VFO B frequencies Receive Frequency Transmit Frequency Offset Frequency Offset Direction	25 25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 27 27 27 27 28
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift Comment VFO A / VFO B About the setting items of VFO A / VFO B frequencies Receive Frequency Transmit Frequency Offset Frequency Offset Direction AUTO MODE	25 25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
Name Tone Mode CTCSS Frequency DCS Code User CTCSS RX DG-ID TX DG-ID Tx Power M-GRP SCAN Step Narrow Clock Shift Comment VFO A / VFO B About the setting items of VFO A / VFO B frequencies Receive Frequency Transmit Frequency Offset Frequency Offset Direction	25 25 25 25 25 25 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26

Tone Mode28
CTCSS Frequency
DCS Code
User CTCSS
RX DG-ID
TX DG-ID
Tx Power
AUTO STEP 29
Step
Narrow
Clock Shift
Comment29
HOME A / HOME B 30
About the setting items
of HOME A / HOME B channel frequency 30
Receive Frequency / Transmit Frequency 30
Offset Frequency
Offset Direction
Operating Mode
DIG/ANALOG
Name
Tone Mode31
CTCSS Frequency
DCS Code
User CTCSS
RX DG-ID
TX DG-ID 31
Tx Power
Step
Narrow
Clock Shift 32
Comment32
Troubleshooting
The FTM-510DR/DE cannot receive
or transmit data to the computer
The Data transfer does not start
The data transmission has stopped
before completion33
The data import/export is not successful

# Introduction

The ADMS-18 PC programming software uses a Personal Computer to quickly enter and save the FTM-510DR/DE memory channel frequencies and data. Also, the many menu settings may be adapted for individual operating preferences. All of the information is saved. The setting data can be imported from the FTM-510DR/DE and edited setting data can be transferred to the FTM-510DR/DE.

- Edit the frequencies, memory names, squelch settings, repeater settings, transmit power, etc. that is related to the VFO, 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, move 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.
i	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-18 PC programmer, the software application must first be installed onto the computer. Read this manual thoroughly and install the software.

# **Trademarks**

Microsoft<sup>®</sup>, Windows<sup>®</sup>, Windows<sup>®</sup> 10 and Windows<sup>®</sup> 11 are registered trademarks in the United States and other countries.

# **System Requirements**

# Supported Operating Systems

Microsoft<sup>®</sup> Windows<sup>®</sup> 11 Microsoft<sup>®</sup> Windows<sup>®</sup> 10

# <u>CPU</u>

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)

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.

# microSD

Commercially available microSD memory card

\* When using the following cables, a microSD memory card is not necessary.

# **Cables**

• When using a USB port on the computer: the optional SCU-56/SCU-20 PC connection cable for USB (The SCU-56/SCU-20 is included in the optional SCU-58/SCU-40 WIRES X Connection Cable Kit.)

WIRES-X Connection Cable	Windows <sup>®</sup> 11	Windows <sup>®</sup> 10
SCU-58	$\checkmark$	$\checkmark$
SCU-40		$\checkmark$

**NOTE:** The SCU-40 can use the same driver software as the SCU-58, but the SCU-40 cannot be used with Windows 11.

- When using a COM port connection: the optional CT-163 cable
- \* When using the SCU-56/SCU-20 cable, be sure to install the designated driver before connecting the cable to the computer.
- \* When using a microSD memory card, these cables are not necessary.

# Necessary microSD memory card reader

Commercially available microSD memory card reader

\* When using a SCU-56, SCU-20 or CT-163 cable, memory card reader is not necessary.

# Necessary PC peripheral interfaces

USB port (USB 1.1 / USB 2.0) or RS-232C interface (COM port)

\* When using a microSD memory card, these ports are not necessary.

# The flow of a setup of ADMS-18

The procedure when using ADMS-18 for the first time is as follows:



# Setup of the ADMS-18

The procedure to install the ADMS-18 on a Windows 11<sup>®</sup> computer is shown below for the purpose of explanation.

#### Preparation

4. Click the [Install] button.

- Download the ADMS-18 software from the Yaesu Website for details (http://www.yaesu.com/).
- Download the ADMS-18 Programming Software to the same folder that contains unzip files.

#### **ADMS-18 Programming Software Installation**

- Start up the computer as an "Administrator" user. 1.
- 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-18 programing software.
- 3. The dialog box, which is shown right, will open. Click the [Next] button.



The dialog box, which is shown right, will open. Click	FTM-510D ADMS-18 EXP - InstallShield Wizard	×
the [ <b>Next</b> ] button.	Welcome to the InstallShield Wizard I FTM-510D ADMS-18 EXP The InstallShield(R) Wizard will install FTM-510D AI on your computer. To continue, click Next.	
	WARNING: This program is protected by copyright international treaties.	law and
	< Back	Cancel
Click the [Install] button.	Install] button. e "User Account Control" dialog box opens, The wizer is ready to begin installation.	×
• When the "User Account Control" dialog box opens, click the [Yes] button.	The wizard is ready to begin installation. Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click	Cancel to
	InstallShield	
	< Back	Cancel
When the installation is finished the dialog box shown	# FTM-510D ADMS-18 EXP - InstallShield Wizard	×

5. 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-18

The procedure to manually uninstall ADMS-18 on a Windows 11<sup>®</sup> computer is shown below for the purpose of explanation.

- 1. Disconnect the USB Cable from the computer.
- 2. Click the [Start] button and then click [Settings].
- 3. Click [Apps].
- 4. Select "FTM-510D ADMS-18 EXP" and then click [Uninstall].
  - When the "User Account Control" dialog box opens, click the left mouse button on [Yes].
  - Uninstallation of the software will commence. The uninstall procedure ends with this.

# SCU-58/SCU-40 USB Driver Software Installation



Do not connect the transceiver to the computer via the SCU-56/SCU-20 PC Connection Cable until the driver installation process has been completed. Connecting the SCU-56/SCU-20 to the computer before installation has been completed may result in the wrong driver being installed, preventing proper operation.



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This procedure is not necessary when exchanging data using a micro SD card.

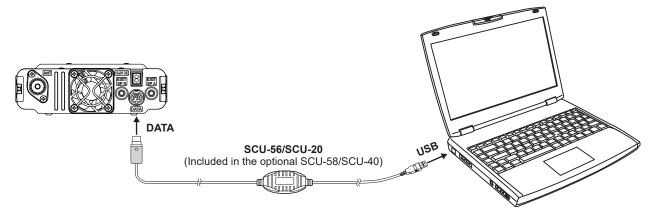
Before using the SCU-56/SCU-20 PC connection cable, installation of the driver software for the SCU-58/ SCU-40 is required. Download the driver software for the SCU-58/SCU-40 in advance.

Download the designated driver software from the Yaesu website (https://www.yaesu.com/). Read the installation manual thoroughly and install the driver. The SCU-56/SCU-20 is included in the optional SCU-58/SCU-40 WIRES X Connection Cable Kit.

#### Connect the FTM-510DR/DE and the PC

This procedure is not necessary when exchanging data using a micro SD card.

Refer to the figure and connect the SCU-56 or SCU-20 PC connection cable.
 When using the CT-163 cable, connect the D-SUB connector to the COM port of the PC.



# **Execute ADMS-18**

To open the ADMS-18 software, double-click the "**FTM-510D ADMS-18 EXP**" icon on the desktop of the computer.

#### • To close the ADMS-18 software

Click "Exit" in the "File" menu to close the ADMS-18.



# Be sure to read the transceiver data information before using ADMS-18

It is necessary to read the data information from the transceiver first. If the data is not read, it will not be possible to load the saved file or transfer the data to the transceiver. Read the FTM-510D data information from the transceiver by the following either the microSD card or PC connection cable procedure, before editing the data with ADMS-18.

#### Use a microSD card

- Save the FTM-510DR/DE data to the microSD card by selecting "107 BACKUP" → "WRITE TO SD"
   → "ALL" from the FTM-510DR/DE setup menu.
- 2. Insert the microSD memory card with the saved "ALL" data from FTM-510DR/DE to the PC.
- Click [Get Data from SD card] in the "Communications" menu, then click "ALL" Select the "CLNFTM510D.dat" file in the "FTM510D" folder - "BACKUP" folder of the microSD card drive.

(root)

BACKUP — ALL settings data (CLNFTM510D.dat)

- 4. Click the [Open] button.
- 5. Click the [**OK**] button.

When the data transfer is complete, the template screen which was imported from the FTM-510DR/DE via the microSD memory card will appear on the ADMS-18 screen.

# Use a PC Connection Cable

- 1. Connect the FTM-510DR/DE to the PC using the PC connection cable SCU-56 or SCU-20.
- 2. Press and hold the **FUNC** knob on the FTM-510DR/DE.
- 3. Turn the **FUNC** knob to select [**119** This  $\rightarrow$  **Other**] and press the **FUNC** knob.
- 4. Click [Get Data from FTM-510D] in the "Communications" menu.
- 5. Click the [**OK**] button.
- 6. Rotate the **FUNC** knob on the FTM-510DR/DE to select [**OK**], and press the **FUNC** knob. A bar graph will be displayed and data transfer will start.
- 7. Click the [**Close**] button.

# **Display examples**

# First Screen

This is the first screen to be displayed when starting the ADMS-18 software.

FTM-510D Unt	itled1 VFO A VFO B HO	OME CH A HOM	ЕСНВ				
Channel No	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	
1	144.00000	144.00000	0.60000	OFF	FM	FM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12		1					
13							
14							
15							
16							
17							
18							

# <u>Menu Bar</u>

Click the left mouse button on each Menu in the Menu bar to settings the import/export the setting data file, get data form FTM-510DR/DE and send data to FTM-510DR/DE.

	$\frown$
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For more details, see "Names and Functions of Menu Bar".

		grammer ADMS-18							>
ile(E)	Edit(E)	Communications(		and the second	Version(V)				
		X 🛝 🖂 💽 🗷	] #4.2↓ ∰	9					
amo	NAC DWC	MED A MED D H		E OU D					
	nannel No	VFO A VFO B H	OME CH A HOM Transmit Frequency	E CH B Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	1	ŕ
	Loosac	Receive	Transmit			Operating Mode	DIG/ANALOG		ĺ
	Loosac	Receive Frequency	Transmit Frequency	Offset Frequency					

# TAB Menu Bar

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

×

• ×

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$\square$	For mor	e details, see '	Setting the	Template Ite	ms".			
🍅 FT	M-510D Pro	grammer ADMS-18					-	
File(E		Communications() 🔉 🛍 🛃 🖬 📱			Version(V)			
C	M-510D Unt	titled1 VFO A VFO B HO	DMECHAHOM	Е СН В			-	
6	hannel No	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	
Þ	1	144.00000	144.00000	0.60000	OFF	FM	FM	
	2							

#### Set mode screen

Basic setting items which are not related to memory channels can be configured from "Set Mode". Click the left mouse button on [**Settings**] in the "**Settings**" menu to open the item "Set Mode" window.

For more details, see "Set Mode".

mmon GM WIRES-X	Arno Arno I	Deacor														
Config			Display			Signaling			DTMF Memory							
Date Time Format	yyyy/mmm/dd		Display Select	BACKTRACK		Pager Code			Channel No	Code		1				
Dave _11me Format	24 hour		Location Info	COMPASS		RX CODE	05 - 47		► 1	Call Contract						
Time zone	UTC ± 00:00		Compass	HEADING UP		TX CODE	05 - 47	*	2							
A RPT ARS	AUTO		A Band Scope	WIDE		A Bell Ringer	OFF		3			1				
B RPT ARS	AUTO		B Band Scope	WIDE		B Bell Ringer	OFF		4			1				
Beep	LOW		Memory List Mode	OFF		SQL Expansion			5							
P1	2nd PTT	4	LCD Brightness	MAX					6							
MIC Program P2	HOME CH		Display Color	WHITE					7							
Key p3	DX					S-D)	OFF		8							
P4	T-CALL		SCAN						9							
Unit	METRIC		A SCAN RESUME	DUCY		DATA			Audio							
APO	OFF	*	B SCAN RESUME			COM Port Setting			Recording							
GPS Datum	WGS-84		A Dual Receive Interval				9600bps	*	BAND							
GPS Device	INTERNAL		B Dual Receive Interval		1	OUTPUT			MIC	OFF						
GPS Log	OFF		A Priority Revert		- 1	WP FORMAT		۲	Front Speaker Mute			BAND Skip				
					- 3	WP FILTER	ALL	٠		CONTINUE		BAND	A BAND	B BAN		
PMG	-		B Priority Revert		- 1	Data Band Select						AIR				
PMG TIMER	0.5s		Dual Receive Mode	OFF		APRS	OTHER BAND(B	) •	Option			VHF				
PMG HOLD	25		RX			DATA	OTHER BAND(B	) -	Bluetooth	OFF		UHF				
тх			Sub Band	ON		Data Speed			AUDIO			OTHER				
Auto Dialer			Sub Band Mute				1200 bps					Function Regist	ration			
MIC Gain	NORMAL				Ref.	DATA	1208 bps		FVS-2	rorr r		KEYPAD	STOCLA	140	MECH	
VOX	OFF		Audio Equalizer FRONT TONE	OFF		Data Squeich				FREE 5 min	13	051: SCAN			8: TX POWER	122
DELAY			REAR TONE		-		RX BAND		ANNOUNCE			045: SQL TYP	c .		5: RPT ARS	- 3
VOX MIC			REAR OUT				RX BAND		LANGUAGE		1	045: SQL 117			6: TONE SQL FREQ	- ÷.
a service serv			REAR OUT AESS PHASE				ON		VOLUME		1	028: RPT REV 043: DTMF	/ERGÉ			
TOT	5 min		AESS PHASE	iv./oms		100	ant		RX MUTE	ON	1	USS: DIMF		• 07	5: APRS MODEM	•

# Communications (Data communication with the FTM-510DR/DE)

File( <u>F</u> ) Edit( <u>E</u> )	Communications(C)	Settings( <u>S</u> )	Wind	dow(W)	Version(⊻)			
FTM-510D Un Memories PMS	Get Data from Send Data to F Get Data from Send Data to Si	TM-510D( <u>S</u> ) SD card( <u>D</u> )	•					×
Channel No	el No COM port Settings(C)				Offset Direction	Operating Mode	DIG/ANALOG	^
N 1	144.00000	144.00000		0.60000	OFF	FM	FM	-7

# Get Data from SD card

This command imports the settings data from the microSD memory card to the ADMS-18 PC programmer, and creates a new data file.

- 1. Insert the microSD memory card with the saved data from FTM-510DR/DE to the computer.
- 2. Click [Get Data from SD card] in the "Communications" menu, then select the data area to read from the following.

#### ALL / MEMORY / SETUP

3. Select the file in the following folder of the microSD card drive according to the selected area.

ALL :	"CLNFTM510D.dat" file in the "FTM510D" folder - "BACKUP" folder
<b>MEMORY</b> :	"MEMFTM510D.dat" file in the "FTM510D_MEMORY-CH" folder
SETUP :	"SYSFTM510D.dat" file in the "FTM510D" folder - "BACKUP" folder

- 4. Click [Open].
- 5. Click [OK].

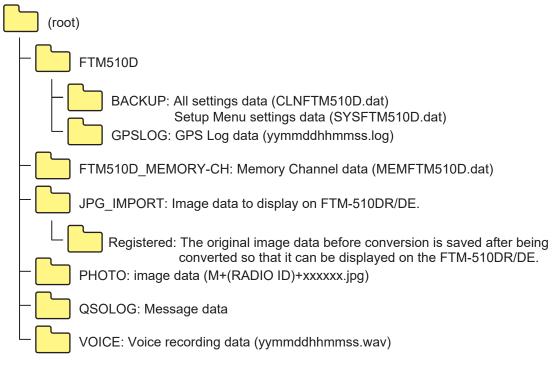
When the data transfer is complete, the template screen which was imported from the FTM-510DR/DE via the microSD memory card will appear on the ADMS-18 screen.



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

# • The folder configuration of the micro-SD card

The parameters of each function are stored in the following folders.



# Send Data to SD card

Memories and settings from the ADMS-18 PC programmer may be transferred to the microSD memory card.



Data cannot be sent to the microSD memory card until the information is read from the FTM-510DR/DE to the ADMS-18 PC programmer. See "Be sure to read the transceiver data information before using ADMS-18" (Page 9) for more information.

- 1. Insert a microSD memory card to write data for transfer from PC to FTM-510DR/DE.
- 2. Click [Send Data to SD card] in the "Communications" menu, then select the data area to write from the following.

#### ALL / MEMORY / SETUP

3. Select the file in the following folder of the microSD card drive according to the selected area.

```
ALL: "CLNFTM510D.dat" file in the "FTM510D" folder - "BACKUP" folder
MEMORY: "MEMFTM510D.dat" file in the "FTM510D_MEMORY-CH" folder
SETUP: "SYSFTM510D.dat" file in the "FTM510D" folder - "BACKUP" folder
```



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Please note that the FTM-510DR/DE cannot read the data from the SD card if you change the save folder or file name.

- 4. Click the [Save] button.
- 5. Click the [OK] button.
  - File name can be changed (up to 12 characters). Characters that can be used are letters (upper and lowercase), numbers, and some symbols. Do not change the extension.
  - The number of files that can be loaded from an SD card with the FTM-510DR/DE is up to 10 for each of "ALL", "MEMORY" and "SETUP", starting with the most recent.
    - To transmit previously created data to the microSD memory card, click [**Open**] in the "**File**" menu and open the desired file before performing the Send Data to SD card operation above.

# Communication port setting

This procedure is not necessary when exchanging data using a micro SD card.

- 1. Connect the FTM-510DR/DE to a computer (Refer to the "Connect the FTM-510DR/DE and the PC").
- 2. Execute the ADMS-18 (Refer to the "Execute the ADMS-18").
- 3. From the menu bar, select "Communications" menu, and then click on the "COM port Settings".
- Click [▼] in the "Serial Port Selection" column and click the COM port connected to the FTM-510DR/DE.
- 5. Click [Determine].

File(F) Edit(E	) Communications( <u>C</u> )	Settings( <u>S</u> )	Wind
🖕 FTM-510D U	Send Data to FI Get Data from S	M-510D( <u>S</u> ) D card( <u>D</u> )	•
Channel No	COM port Settin	ngs( <u>C</u> )	
▶ 1	144.00000	144.00000	
2			
3			
COM Port Sett	ings		×
COM1	Get Data from FTM-510D(G) Send Data to FTM-510D(G) Get Data from SD card(D) Send Data to SD card(D) Send Data to SD card(D) COM port Settings(C) 1 144.00000 2 3 M Port Settings	•	

# Get Data from FTM-510DR/DE

This command transfers the settings data of the FTM-510DR/DE to the ADMS-18 PC programmer. To communicate with the FTM-510DR/DE and create a new data file. Click the [**Get Data from FTM-510D**] parameter in the "**Communications**" menu. The "Get Data From FTM-510D" window will open. Connect the PC connection cableSCU-56 or SCU-20 between the FTM-510DR/DE and the computer. Follow the on-screen instructions to acquire data from the FTM-510DR/DE. When the data transfer is completed, the template screen received from the FTM-510DR/DE appears on the computer display. The memory channels and configuration menu data may be edited using the ADMS-18 software tools.

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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 FTM-510DR/DE

This command downloads the ADMS-18 data from the computer to the FTM-510DR/DE.



Data cannot be sent to the FTM-510D until the information is read from the FTM-510D to the ADMS-18 PC programmer. See "Be sure to read the transceiver data information before using ADMS-18" (Page 9) for more information.

Click the [**Send Data to FTM-510D**] parameter in the "Communications" menu. The transmission procedure screen will open.



To load a previously created data file to the FTM-510DR/DE, click the [**Open**] parameter in the "File" menu, and open the desired file before performing the send data operation above.

Connect the PC connection cable SCU-56 or SCU-20 between the FTM-510DR/DE and the computer. Follow the on-screen instructions to transmit data to the FTM-510DR/DE. After the data transmission completes, "Completed" will appear on the computer display, and click the [**Close**] button. Then, remove the plug of the USB cable and battery charger from the FTM-510DR/DE, after installation of the battery pack, the FTM-510DR/DE will automatically start up in accordance with the set data.

- Never disconnect the programming cable while data transmission is in progress.
- Pay careful attention to the power cable and the connections to the FTM-510DR/DE and the computer, so as not to lose the power during data reception/transmission.

# File

FTM-510D Programmer ADMS- le(E) Edit(E) Communication		ings( <u>S</u> )	Window(W)	Version(V)		-	
New(N)	Ctrl+N			(croining)			
Open(O)	Ctrl+O					_	
Close( <u>C</u> ) Save( <u>S</u> )	Ctrl+S	ом	E CH B				- 0 ×
Save As( <u>A</u> )	Ctrl+A		Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	^
Import(])		000	0.60000	OFF	FM	FM	
Export(E)							
Import (FTM-100D/400D form							
Export (FTM-100D/400D form	10-00-00						
Import (FT1D/FT2D format)(G	are of						
Export (FT1D/FT2D format)(L)					-		
Import (FT3D/FT5D format)(H							
Export (FT3D/FT5D format)(K	)						
Print( <u>P</u> )	Ctrl+P						
Exit(X)							

# • New

When the configuration file is not open, click "**New**" parameter on the File menu to open a new configuration file.

Standard values are preset for each memory channel, VFO and set mode.

# 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.

- This menu item is grayed out and cannot be operated until the information is read from the FTM-510DR/DE into the ADMS-18 PC programmer. See "Be sure to read the transceiver data information before using ADMS-18" (Page 9) for more information.
- When a file saved with an incompatible transceiver is selected, an error is displayed and the data cannot be read.

# Close

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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.



This menu item is grayed out and cannot be operated until the information is read from the FTM-510DR/DE into the ADMS-18 PC programmer. See "Be sure to read the transceiver data information before using ADMS-18" (Page 9) for more information.

# 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.



This menu item is grayed out and cannot be operated until the information is read from the FTM-510DR/DE into the ADMS-18 PC programmer. See "Be sure to read the transceiver data information before using ADMS-18" (Page 9) for more information.

# • Import

ADMS-18 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-18 "Export" command. After the "CSV" data has been edited the spreadsheet may be imported back into the ADMS-18 PC programmer.

A separate import file is needed for each template.

For example, to import the VFO and memory templates; first, click the "VFO" tab to display the VFO template, then import the VFO (CSV) file; next, click the "Memories" tab to display the "Memory" template; then import the Memory (CSV) file.



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.

# • Import with FTM-100D/400D format

To create a data file for the import of data, save the spreadsheet in the "CSV" comma separated file format (FTM-400XD/D or FTM-100D).

A spreadsheet may be easily created by exporting the template data in the "CSV" format using the ADMS-7 or ADMS-9 "Export" command.

A separate import file is needed for each template. For example, to import the VFO and memory templates; first, click the [**VFO**] tab to display the VFO template, then import the VFO (CSV) file; next, click the [**Memories**] tab to display the "Memory" template; then import the Memory (CSV) file.

# • Export with FTM-100D/400D format

To export the data file in the "CSV" (Comma Separated Values) format for the ADMS-7 or ADMS-9. Click the [**Export (FTM-100D/400D format)**] 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.

# • Import with FT1D/FT2D format

To create a data file for the import of data, save the spreadsheet in the "CSV" comma separated file format (FT2D or FT1XD/D).

A spreadsheet may be easily created by exporting the template data in the "CSV" format using the ADMS-8 or ADMS-6 "Export" command.

A separate import file is needed for each template. For example, to import the VFO and memory templates; first, click the [**VFO**] tab to display the VFO template, then import the VFO (CSV) file; next, click the "Memories" tab to display the "Memory" template; then import the Memory (CSV) file.

# • Export with FT1D/FT2D format

To export the data file in the "CSV" (Comma Separated Values) format for the ADMS-8 (FT2D) or ADMS-6 (FT1XD/D).

Click the [**Export (FT1D/FT2D format)**] 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.

# Import with FT3D/FT5D format

To create a data file for the import of data, save the spreadsheet in the "CSV" comma separated file format (FT3D).

A spreadsheet may be easily created by exporting the template data in the "CSV" format using the ADMS-11 "Export" command.

A separate import file is needed for each template. For example, to import the VFO and memory templates; first, click the "VFO" tab to display the VFO template, then import the VFO (CSV) file; next, click the "Memory" template; then import the Memory (CSV) file.

# • Export with FT3D/FT5D format

To export the data file in the "CSV" (Comma Separated Values) format for the ADMS-11.

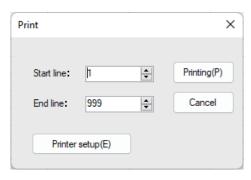
Click the [**Export (FT3D/FT5D format)**] parameter in the "File" menu, On the "Save as" screen displayed, specify the directory and file name and save the file.

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-18 PC programmer, click the [**Exit**] parameter in the [**File**] menu to close the ADMS-18 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-18 software.

Informatio	n		
Do you wa	int to save changes to	'FTM-510D Untitle	d1.FTM510D' ?

# Edit

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

FTM-510	D Programmer ADMS-18					-	
	lit(E) Communications(C) Se Undo(Z) Ctrl+Z			Version(V)			
FTM	Undo(Z)         Ctrl+Z           Cut(T)         Ctrl+X           Copy(C)         Ctrl+C						💌
Cha	Paste(P) Ctrl+V Find(F) Ctrl+F		Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	^
	Find Next(N) F3	00	0.60000	OFF	FM	FM	
	Goto Channel(G)Ctrl+GInsert Channel(I)Shift+InsDelete Channel(D)Shift+DelClear Channel(L)Move Up(U)Move Up(U)Ctrl+UMove Down(B)Ctrl+D						
	Add Frequency Range(A) Sort(S)						

!

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.

Find		×
Look in: Receive Frequency	•	Find(F)
Find Text:		
		Cancel

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.

# Go to Channel

Move the cursor to the desired channel, click the [**Goto Channel**] parameter in the "**Edit**" menu to open the screen where you can specify the channel you want to move to.

Goto Channel		×
Enter channel nu	mber to move to.	Move(M)
Channel	1	Cancel

Enter the channel number you wish to find, and then click the [**OK**] button.

# 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. "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.

# • Move Up

To move the current channel data up one row, click the [**Move Up**] parameter in the "**Edit**" menu. If other channel data already exists where the channel data moves, the existing channel will be overwritten.

# Move Down

To move the current channel data down one row, click the [**Move Down**] parameter in the "**Edit**" menu, the currently selected channel data moves downward one row.

If other channel data already exists where the channel data moves, the existing channel will be overwritten.

# 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.

Add Frequency Range			×
Starting Frequency		MHz	
Number of channels	1	* *	
Frequency Step	5.0KHz	•	
Add(A)		Cancel	

Starting Frequency:Enter the lower frequencyNumber of Channel:Enter the number of channelsFrequency Step:Enter the desire frequency step

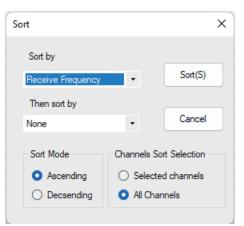
Click the [**OK**] button to create the additional specified memory channels.

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

## • Sort

i

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 col-

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.

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 FTM-510DR/DE)

FTM	I-510D Prog	grammer ADMS-18					-	×
File(E)	Edit(E)	Communications(C)	Settings( <u>S</u> )	Window(W)	Version(V)			
CORTENIST	1-510D Unt	Get Data from F Send Data to FT Get Data from S	M-510D(S)					×
Memor	ies PMS	Send Data to SI	O card(U)	- >.				
Ch	annel No	COM port Settin	ngs( <u>C</u> )	requency	V Offset Direction	Operating Mode	DIG/ANALOG	î
•	1	144.00000	144.00000	0.6000	0 OFF	FM	FM	

For details on the Communications Menu, refer to "Communications (Data communication with the FTM-510DR/DE)" (Page 12).

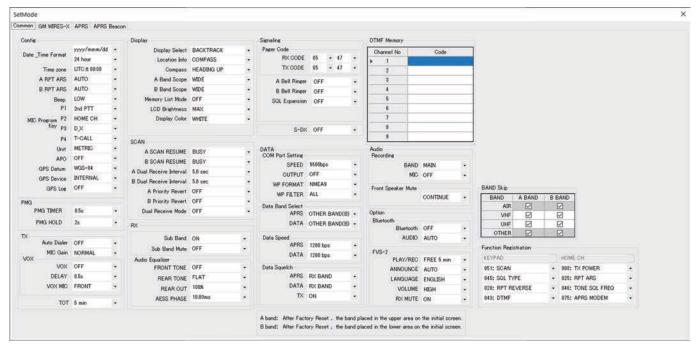
# **Settings**

#### Set Mode

From the set mode menu, you can customize the various functions of the FTM-510DR/DE according to your preferences.

The ADMS-18 software displays the set mode menu in an easy-to-understand manner where you can change and save the setting values.

Click the [Settings] parameter in the "Settings" menu to open the "Set Mode" window.



To change the setting of each item in the window, click the " $\mathbf{\nabla}$ " icon to show the dropdown settings list, and then click the desired selection in the list.

#### Example:

SetMode	-				
Common	GM WIRES-X	APRS APRS B	eacon		
Config	,		_	Display	
		mmm/dd/yyyy	•	Display Select	BACKTRACK
Dat	te_Time Format	mmm/dd/yyyy yyyy/mmm/dd		Target Location	COMPASS
	Time zone	dd/mmm/yyyy yyyy/dd/mmm	- 11	Compass	HEADING UP
	A RPT ARS	AUTO	*	A Band Scope	WIDE
	<b>B RPT ARS</b>	AUTO	-	B Band Scope	WIDE
	Beep	LOW	•	Memory List Mode	OFF
	P1	GM (FIX)	•	LCD Brightness	MAX
м	IC Program P2	HOME	•	Display Color	WHITE
	Key P3	D_X	•		
	D4	WX			

Refer to the "FTM-510DR/DE Operating Manual" for the details of each function. When you have completed editing the settings of the Menu Setting window.

#### • Tool Bar

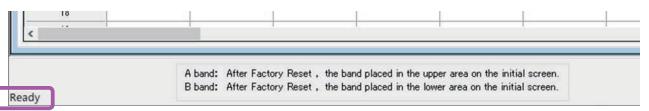
Click the [**Tool bar**] parameter in the "**Setting**" menu to display or hide the Toolbar. A check mark appears next to the "Tool bar" parameter when the Toolbar is displayed.

FT	M-510D Pro	grammer ADMS-18					<del></del>	×
File(		Communications(			Version(V)			
11		* 🛍 😂 💽 💽	<i>8</i> 8 2↓   @	<u>× )</u>				
	M-510D Unt							×
	DLIC DLIC		ME OH A HOM					
wem	ories PMS	VFO A VFO B HC	ME OF A HOM	LOND				 
	hannel No	VFO A VFO B HC Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	^

# 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-18 PC programmer.

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

# Memory

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

TM-510D Unt	itled1 VFO A VFO B HO		E CH B			-	
Channel No	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG	
1	144.00000	144.00000	0.60000	OFF	FM	FM	
2		1					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12		î					
13							
14							
15							
16							
17							
18							

#### **Memories**

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

# Receive Frequency/ Transmit Frequency

Enter the desired receive/transmit frequency. When the frequency entry is complete, use the  $\rightarrow$  key to move the cursor to the right and subsequently configure the additional detail settings for the channel. To enter the transmit frequency for the next channel, press the ENTER or  $\downarrow$  key. The receive and transmit frequencies can be set separately.

#### Offset Frequency

When a transmit frequency is not entered, transmission will be performed at a frequency obtained by adding/subtracting the offset frequency to/from the receive frequency.

# Offset Direction

Set the frequency shift direction.

- OFF: The transmit frequency is not shifted.
- -RPT: The transmit frequency is shifted to the minus offset.
- +RPT: The transmit frequency is shifted to the plus offset.
- -/+ The transmit frequency is not shifted.

#### • Operating Mode

Select the operating mode for receive channel.

- FM: The selected frequency band is set to FM mode.
- AM: The selected frequency band is set to AM mode.

# • DIG/ANALOG

The AMS, V/D mode (DN), the Voice FR mode (VW) and the ANALOG mode (FM/AM mode) are selectable.



When the Setup Menu [14 DIGITAL VW] is set to "ON", the Voice FR mode (VW) can be selected.

#### Name

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

#### • Tone Mode

This item selects the Audio Squelch Code type.

# CTCSS Frequency

This item selects the Tone Frequency of the Tone Squelch.

#### DCS Code

Select the DCS code when DCS is set.

#### User CTCSS

Select the idle line frequency to remove signals such as idle line signals used by private railways and control signals of MCA radio system.

# • RX DG-ID

Select the receiving DG-ID number.

# • TX DG-ID

Select the transmitting DG-ID number

# Tx Power

This item selects the TX Power.

# • 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).

# • SCAN

Select the scanning condition for receiving channels.

YES : Performs scanning according to the set mode basic setting – SCAN RESUME.

NO : Skips the designated memory channels during scanning.

# • Step

Sets the channel step for receiving channels.

# Narrow

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

# Clock Shift

When an internal spurious signal occurs due to the microcomputer clock, turn this setting on (tick the checkbox). This may improve the situation.

Usually, this item is set to "OFF" (un-tick the checkbox).

# 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 FTM-510DR/DE.

# VFO A / VFO B

Edit the VFO A / VFO B configurations for each band on this page template.

Channel No 1 2	VFO A VFO B HC Receive Frequency 144.00000	Transmit Frequency	Offset Frequency	Offset Direction	1	1	
2	144,00000		and a second sec	Unset Direction	Operating Mode	DIG/ANALOG	
		144.00000	0.60000	OFF	FM	FM	
0							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
15							
15							
67671							
14							

# About the setting items of VFO A / VFO B frequencies

#### Receive Frequency

Enter the VFO frequencies for each band. The FTM-510DR/DE default Frequencies are pre-entered into the ADMS-18 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.

#### Transmit Frequency

The transmit frequency display is grayed out, and it will be set automatically, in accordance with the receive, and the offset frequencies.

#### Offset Frequency

When a transmit frequency is not entered, transmission will be performed at a frequency obtained by adding/subtracting the offset frequency to/from the receive frequency.

# Offset Direction

Set the frequency shift direction.

OFF: The transmit frequency is not shifted.

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

# • AUTO MODE

When tick the check box of AUTO MODE, the receive mode (FM mode or AM mode) is automatically selected. Un-ticking the checkbox enables selecting the operating mode.

## Operating Mode

Select the operating mode for receive channel.

FM: The selected frequency band is set to FM mode.

AM: The selected frequency band is set to AM mode.

# • DIG/ANALOG

The AMS, V/D mode (DN), the Voice FR mode (VW) and the ANALOG mode (FM/AM mode) are selectable.



When the Setup Menu [14 DIGITAL VW] is set to "ON", the Voice FR mode (VW) can be selected.

#### • Tone Mode

This item selects the Audio Squelch Code type.

# CTCSS Frequency

This item selects the Tone Frequency of the Tone Squelch.

# DCS Code

Select the DCS code when DCS is set.

# User CTCSS

Select the idle line frequency to remove signals such as idle line signals used by private railways and control signals of MCA radio system.

#### • RX DG-ID

Select the receiving DG-ID number.

#### • TX DG-ID

Select the transmitting DG-ID number.

# Tx Power

This item selects the TX Power.

# • AUTO STEP

By ticking the checkbox of this item, the frequency step is set to "AUTO" automatically provides a suitable frequency step (frequency variation by rotating the **DIAL** knob) according to the frequency band. By Turning off the checkbox, the step setting become selectable.

# • Step

Sets the channel step for receiving channels.

# Narrow

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

# Clock Shift

When an internal spurious signal occurs due to the microcomputer clock, turn this setting on (tick the checkbox). This may improve the situation.

Usually, this item is set to "**OFF**" (un-tick the checkbox).

# • Comment

Comments may be added to the edited VFO bands. Up to 255 letters can be used. This function is useful in organizing the VFO bands by, for example, applying a category name to each VFO bands. These comments are not transferred to the FTM-510DR/DE.

# HOME A / HOME B

Edit the Home Channel configurations:

FTM-510D Untitled1									
Channel No	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	DIG/ANALOG			
• 1	144.00000	144.00000	0.60000	OFF	FM	FM			
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12					1				
13									
14									
15									
16									
17									

# About the setting items of HOME A / HOME B channel frequency

# • Receive Frequency / Transmit Frequency

Enter any desired changes into Home Channel frequency. The FTM-510DR/DE default Frequencies are pre-entered into the ADMS-18 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. Inputting the receive frequency, the transmit frequency is automatically set.

# Offset Frequency

When a transmit frequency is not entered, transmission will be performed at a frequency obtained by adding/subtracting the offset frequency to/from the receive frequency.

# Offset Direction

Set the frequency shift direction.

OFF: The transmit frequency is not shifted.

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

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

-/+: The transmit frequency is not shifted.

# Operating Mode

Select the operating mode for receive channel.

- FM: The selected frequency band is set to FM mode.
- AM: The selected frequency band is set to AM mode.

# • DIG/ANALOG

The AMS, V/D mode (DN), the Voice FR mode (VW) and the ANALOG mode (FM/AM mode) are selectable.

When the Setup Menu [14 DIGITAL VW] is set to "ON", the Voice FR mode (VW) can be selected.

# Name

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

#### Tone Mode

This item selects the Audio Squelch Code type.

#### CTCSS Frequency

This item selects the Tone Frequency of the Tone Squelch.

#### DCS Code

Select the DCS code when DCS is set.

#### User CTCSS

Select the idle line frequency to remove signals such as idle line signals used by private railways and control signals of MCA radio system.

#### • RX DG-ID

Select the receiving DG-ID number.

# • TX DG-ID

Select the transmitting DG-ID number

#### • Tx Power

This item selects the TX Power.

#### Step

Sets the channel step for receiving channels. Normally, when a frequency is entered, the optimal channel step will be automatically set according to the frequency.

#### Narrow

By ticking the checkbox of this item, switches to the Narrow FM mode. The degree of modulation becomes half the normal level.

# Clock Shift

When an internal spurious signal occurs due to the microcomputer clock, turn this setting on (tick the checkbox). This may improve the situation.

Usually, this item is set to "OFF" (un-tick the checkbox).

# • Comment

Comments may be added to the edited HOME channels. Up to 255 letters can be used. This function is useful in organizing the HOME channels by, for example, applying a category name to each channel. These comments are not transferred to the FTM-510DR/DE.

# Troubleshooting

- The FTM-510DR/DE cannot receive or transmit data to the computer
- The Data transfer does not start
- Verify that the programming cable is correctly connected to the FTM-510DR/DE 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 FTM-510D" 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 FTM-510D" 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 and VFO 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.



# Radio for Professionals

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