FIF-12 USB PROGRAMMING INTERFACE

The **FIF-12** is the Interface Unit which allows cloning of channel data to Vertex Standard transceivers,^{*} and/or re-writing of the firmware on some Vertex Standard transceivers,^{*} using the USB port of a personal computer.

*: Check with your Vertex Standard Dealer for applicable models.

OPERATING SYSTEM REQUIREMENTS

 $Microsoft^{\$}$ Windows \$ 2000, Windows \$ XP (32 bit Ver. only), Windows \$ Vista (32 / 64 bit Ver.), or Windows \$ 7 (32 / 64 bit Ver.)

PACKING LIST

FIF-12 Interface Unit USB Cable CD-ROM (Includes the Driver File and Operating Manual)

OPERATION

- □ Log on to the computer using the "Administrator" account. If you do not know how to change the account to "Administrator," please consult your computer system administrator.
- □ Install the FIF-12 driver.
- When the driver installation is finished, connect the supplied USB Cable between the FIF-12 and your computer, then connect the appropriate Connection Cable (option) between the FIF-12 and the transceiver.
- Confirm the computer's communication port which detects the FIF-12.
- □ Execute the cloning/writing software.

If this is the first time you have executed the programming/ writing software on this computer after installing the **FIF-12** USB Interface, check the programming/writing software's "CONFIGURE" parameter, to be sure that the communication port of the programming/writing software matches that set for the **FIF-12**. See page 13.

OPTIONS

- CT-171 Connection Cable with 8-pin Modular Jack (for the VX-4500/-4600/-2100/-2200/-4100/-4200/ VX-7100/-7200/, VXR-9000/-7000/-1000 etc.)
- CT-105 Connection Cable with 14-pin Universal Connector (for the VX-800/-537/-5500/-6000 etc.)
- CT-106 Connection Cable 4-conductor Mini-phone Jack (for the VX-450/-230/-350/-410/-420/-160/-180 etc.)
- CT-108 Connection Cable with 14-pin Universal Connector (for the VX-820/-920 etc.)

NOTE

The **FIF-12** is designed to be connected directly to the computer's USB port. Devices that are made to convert a USB device to a 9 pin serial port will not work and/or may damage the **FIF-12**.





VERTEX STANDARD CO., LTD.

INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® 2000)

Note: Please perform this operation after changing user account to an "Administrator". *DO NOT INSTALL ANY HARD-WARE BEFORE INSTALLING FIF-12 DRIVER*.

 Set the supplied CD into your CD-ROM drive, then Click the *left* mouse button on the "setup.exe".





 The following window (Install Shield Wizard) will be open. Click the left mouse button on "Next >" button.



3. Click the *left* mouse button on the "**Install**" button.



4. Click the *left* mouse button on the "Finish" button.

FIF-12 Driver Installer - Insta	allShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed FIF-12 Driver Installer. Click Finish to exit the wizard.
	< Back Finish Cancel

5. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.



CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® 2000)

 Click the *right* mouse button on the "My Computer" icon on the desktop, then click the left mouse button on the "Properties" item to open the "System Properties" window.

My Docume	ents	
My Comp	Open	
	Explore	
S	Search	
	Manage	
My Net	Map Network Drive	
Place	Disconnect Network Drive	
CHE C	Create Shortcut	
Decude	Rename	
Recycle -	Properties	
e		
Internel Explore		

 Click the *left* mouse button on the "Hardware" Folder, then click the *left* mouse button on the "Device Manager" Button to open the "Device Manager" window.

eneral 1	Network Identification Hardwa	are User Profiles Advanced
Hardwa	are Wizard	£)
	The Hardware wizard helps y unplug, eject, and configure	vou install, uninstall, repair, your hardware.
		Hardware Wizard
- Device	Manager	
	The Device Manager lists all on your computer. Use the D	the hardware devices installed
	properties of any device.	(AD)
	properties of any device. Driver <u>S</u> igning	Device Manager
- Hardwa	properties of any device. Driver <u>Signing</u> are Profiles	Device Manager
- Hardwa	properties of any device. Driver <u>S</u> igning are Profiles Hardware profiles provide a v different hardware configurat	Device Manager
- Hardwa	properties of any device. Driver <u>S</u> igning are Profiles Hardware profiles provide a v different hardware configurat	Device Manager way for you to set up and store ions. Hardware Profiles
Hardwa	properties of any device. Driver <u>S</u> igning are Profiles Hardware profiles provide a v different hardware configurat	Device Manager Device Manager way for you to set up and store ions. Hardware Profiles

Confirm the computer's communication port which detects the FIF-12.



INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft[®] Windows[®] XP)

Note: Please perform this operation after changing user account to an "Administrator". *DO NOT INSTALL ANY HARD-WARE BEFORE INSTALLING FIF-12 DRIVER*.

 Set the supplied CD into your CD-ROM drive, then Click the *left* mouse button on the "setup.exe".





2. The following window (Install Shield Wizard) will be open. Click the left mouse button on "Next >" button.



3. Click the *left* mouse button on the "Install" button.



 Click the *left* mouse button on the "Continue Anyway" button.



5. Click the *left* mouse button on the "Finish" button.

FIF-12 Driver Installer - In	stallShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed FIF-12 Driver Installer. Click Finish to exit the wizard.
	< Back Finish Cancel

INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® XP)

- 6. Connect the FIF-12 to the USB port on your computer.
- 7. The following window (Found New Hardware) will be open.



 The following window (Found New Hardware Wizard) will be open. Select "Install the software automatically (Recommended)," then click the *left* mouse button on the "Next>" button.



9. The Driver is recognized automatically.



10. Click the *left* mouse button on the "Continue Anyway" button.

Hardwa	re Installation
⚠	The software you are installing for this hardware: Vertex Standard FIF-12
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

11. Click the *left* mouse button on the "Finish" button.

Found New Hardware Wiz	ard Completing the Found New Hardware Wizard The wizard has finished installing the software for: Vertex Standard FIF-12
	Click Finish to close the wizard.

12. Repeat step 7 ~ step 11.

CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® XP)

 Click the *left* mouse button on the "start" button, then click the *right* mouse button on the "My Computer" item. Click the *left* mouse button on "Propeties" to open the "System Properties" window.



 Click the *left* mouse button on the "Hardware" Folder, then click the *left* mouse button on the "Device Manager" button to open the "Device Manager" window.

	store Autom	atic Updates	Remote
General	Computer Name Hardware		Advance
Device Mana Th on pro	ager e Device Manager lists al your computer. Use the D operties of any device.	I the hardware device Device Manager to cy Device Man	singtalled 切the nager
Dri co	ver Signing lets you make mpatible with Windows. V	e sure that installed driv Vindows Update lets v	ers are
ho	w Windows connects to Driver <u>S</u> igning	Windows Update for d	ivers. odate
ho Hardware Pri	w Windows connects to Driver <u>S</u> igning ofiles	Windows Update for d	odate
Hardware Pro	w Windows connects to V Driver <u>S</u> igning ofiles Irdware profiles provide a ierent hardware configura	Windows Update for d	and store
ho Hardware Pri	w Windows connects to Driver <u>S</u> igning ofiles Irdware profiles provide a ierent hardware configura	Windows Update for d	and store

3. Confirm the computer's communication port which detects the **FIF-12**.



INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® Vista)

Note: Please perform this operation after changing user account to an "Administrator". *DO NOT INSTALL ANY HARD-WARE BEFORE INSTALLING FIF-12 DRIVER*.

- Set the supplied CD into your CD-ROM drive, then Click the *left* mouse button on the "setup.exe".
- 2. The following window (User Account Control) will be open. Click the *left mouse button* on "**Allow**".



3. The following window (FIF-12 Driver Setup) will be open.



Cancel

4. The following window (Install Shield Wizard) will be open. Click the left mouse button on "Next >" button.

FIF-12 Driver Installer - InstallShi	eld Wizard
	Welcome to the InstallShield Wizard for FIF-12 Driver Installer
4	The InstallShield Wizard will install FIF-12 Driver Installer on your computer. To continue, click Next.
	<back next=""> Cancel</back>

5. Click the left mouse button on the "Install" button.



6. Click the *left* mouse button on the "Finish" button.



INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft[®] Windows[®] Vista)

7. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.



CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® Vista)

 Click the *left* mouse button on the "start" button, then click the *right* mouse button on the "Computer" Item. Click the *left* mouse button on "Propeties" to open the "System Properties" window.



 Click the *left* mouse button on the "Device Manager" Item, to open the "Confirmation" window.



3. Click the *left* mouse button on the "Continue" button to open the "Device Manager" window.



4. Confirm the computer's communication port which detects the **FIF-12**.



INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft[®] Windows[®] 7)

Note: Please perform this operation after changing user account to an "Administrator". *DO NOT INSTALL ANY HARD-WARE BEFORE INSTALLING FIF-12 DRIVER*.

- Set the supplied CD into your CD-ROM drive, then Click the *left* mouse button on the "setup.exe".
- The following window (User Account Control) will be open. Click the left mouse button on "Yes" button.



3. The following window (FIF-12 Driver Setup) will be open.



Cancel

4. The following window (Install Shield Wizard) will be open. Click the left mouse button on "Next >" button.

FIF-12 Driver Installer - InstallSh	nield Wizard
S	Welcome to the InstallShield Wizard for FIF-12 Driver Installer
	The InstallShield Wizard will install FIF-12 Driver Installer on your computer. To continue, click Next.

5. Click the *left* mouse button on the "Install" button.



 The "Windows Security" window will be open. Click the left mouse button on "Install this driver software anyway".



7. Click the *left* mouse button on the "Finish" button.

FIF-12 Driver Installer - InstallSh	ield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed FIF-12 Driver Installer. Click Finish to exit the wizard.

8. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.



CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® 7)

 Click the *left* mouse button on the "start" button, then click the *right* mouse button on the "Computer" Item. Click the *left* mouse button on "Properties" to open the "System Properties" window.



2. Click the *left* mouse button on the "Device Manager" Item, to open the "Device Manager" window.



3. Confirm the computer's communication port which detects the **FIF-12**.



"CONFIGURE" PARAMETER SETTING PROCEDURE (EXAMPLE: "CE115")

1. Click the *left* mouse button on the "File" parameter.

C:	¥Vertex	Standard¥C	E115¥de	fault4600vc.C	C115 - CE115	for VX-45
File	Edit 1	View Comm	non Sig	naling Radio	Channel H	lelp
D	5	a • •	-	8		
Se Fr	rial N eq. Ba	o. 0800 nd VHF	0000 (134-174	4) FW	oduct Type Version	VX-46
Co	nventi	onal				
No.	W/N	TAG	CH Info	RX	TX	Dec
1	N	CH-001		157.50000	157.50000	
2	N	CH-002		157.50000	157.50000	
3	N	CH-003		157.50000	157.50000	
4	N	CH-004		157.50000	157.50000	1001900
5	N	CH-005		157.50000	157.50000	
6	N	CH-006		157.50000	157.50000	
7			1000			
	N	CH-007		157.50000	157.50000	

2. Click the *left* mouse button on the "Configure" item to open the "Configure" window.

File	Edit View Common Signa	ling Radio Channel Help
	New	Ctrl+N
	Open	Ctrl+0
	Save	Ctrl+S
	Save As	
	Print	Ctrl+P
	Export to File	
	Print Preview Page Setup	
	Configure	
	Language	
	1 default4600vc.c115	
	2 default459vc.c115	
	3 default454vc.c115	
	4 default4Etus attE	

3. Select the communication port which is detecting the FIF-12.

		~
Select Com Port		(ST)
COM Port	COM1	•
BaudRate	COM1 COM16 (FIF-12)	
	07	

4. Select the Baud Rate for the transceiver's computer interface circuitry.

nfiguration	Rate Reality	×
Select Com Po	ort	
COM Port	COM1	- S
BaudRate	9600	•
	9600	
	38400	
2	115200	
	230400	

5. Click the *left* mouse button on the "**OK**" button.

nfiguration	Hall In	
Select Com P	ort	
COM Port	COM16 (FIF-	-12) 💌
BaudRate	230400	分 分
?	OK	Cancel