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.)

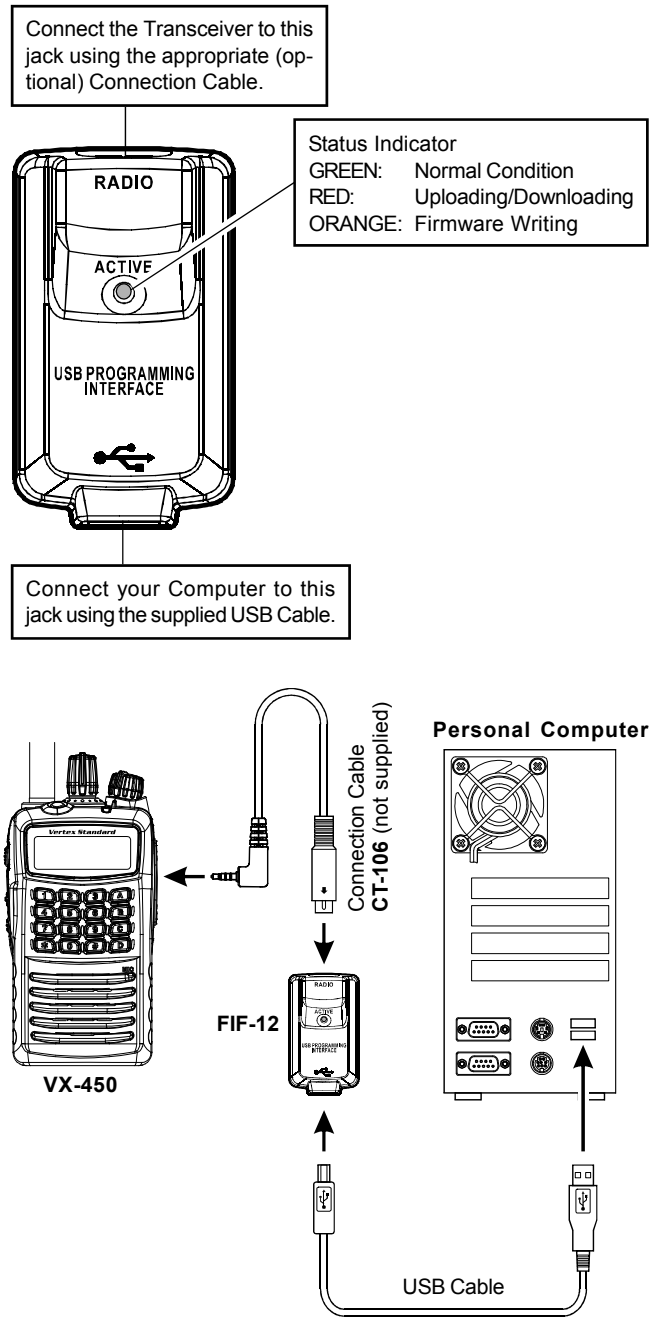
CT-105 Connection Cable with 14-pin Universal Connector (for the **VX-800/-537/-5500/-6000** etc.)

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**.



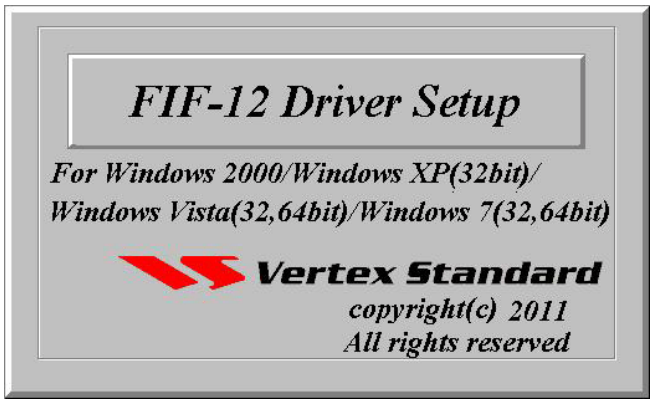
TYPICAL SETUP FOR THE FIF-12

EAJ23X100

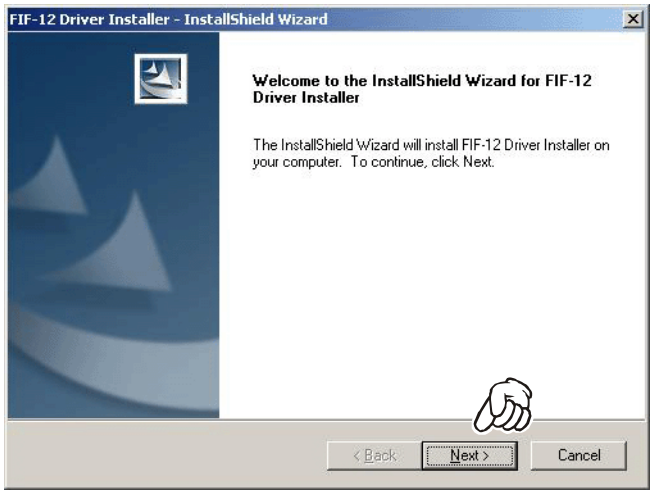
INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® 2000)

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

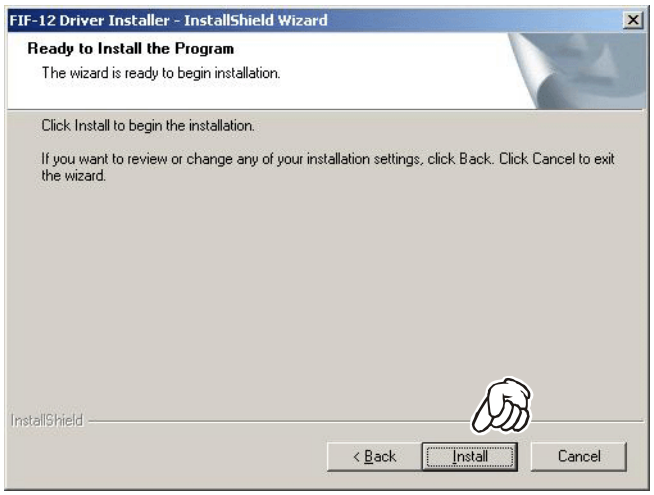
1. Set the supplied CD into your CD-ROM drive, then Click the *left* mouse button on the "**setup.exe**".



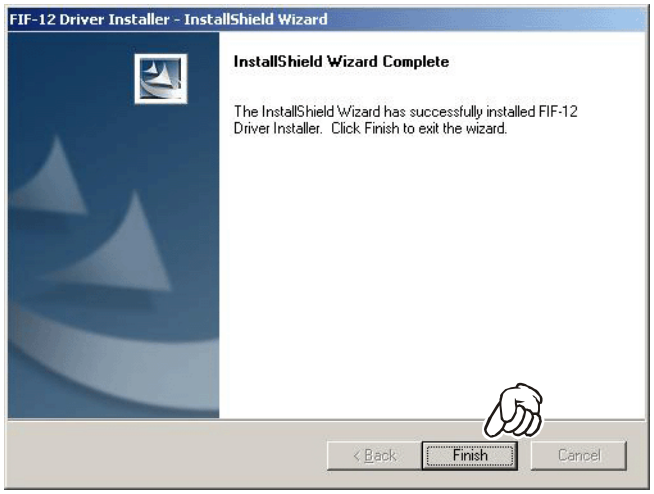
2. The following window (Install Shield Wizard) will be open. Click the left mouse button on "**Next >**" button.



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



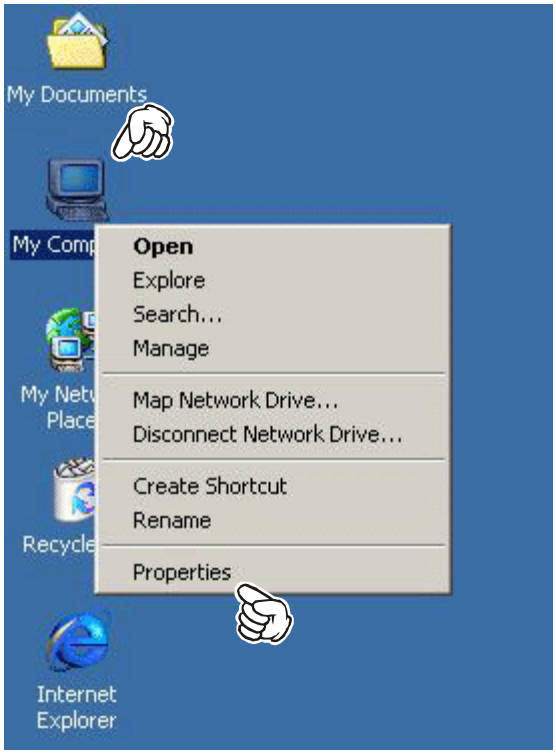
4. Click the *left* mouse button on the "**Finish**" button.



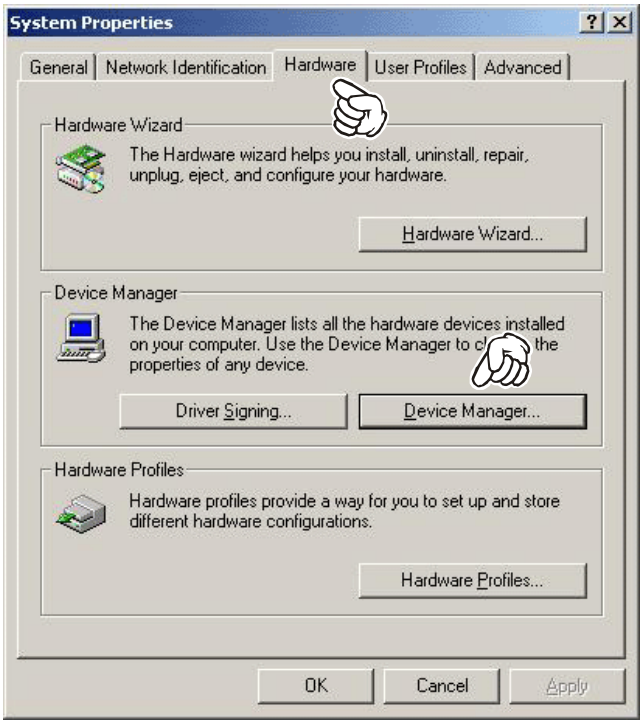
5. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.

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

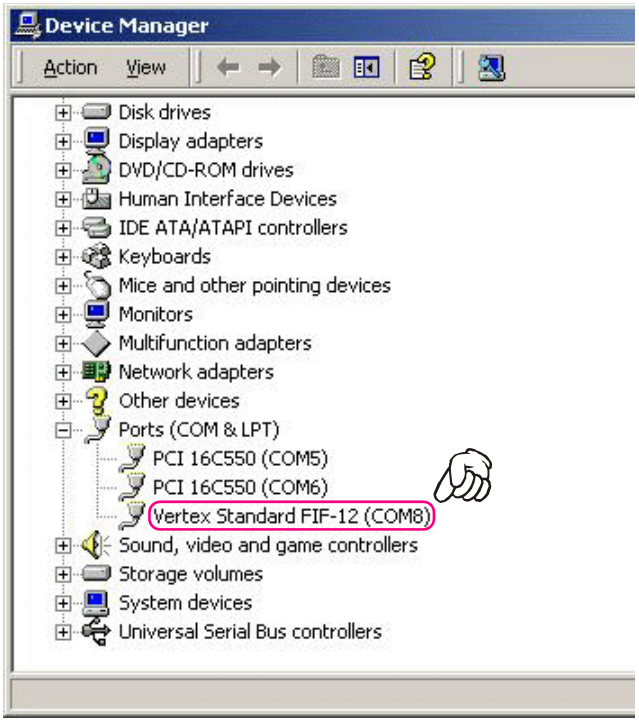
1. Click the *right* mouse button on the "**My Computer**" icon on the desktop, then click the left mouse button on the "**Properties**" item to open the "**System Properties**" window.



2. 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.



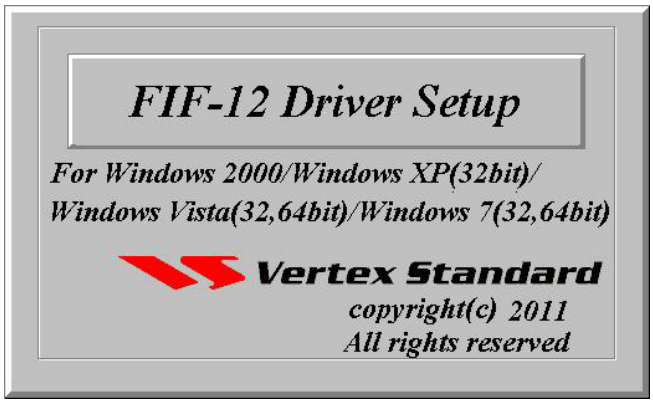
3. Confirm the computer's communication port which detects the **FIF-12**.

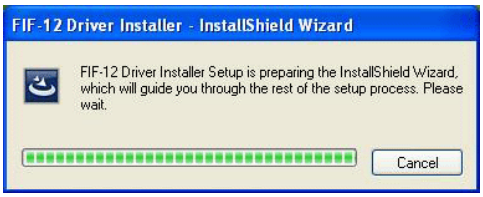


INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® XP)

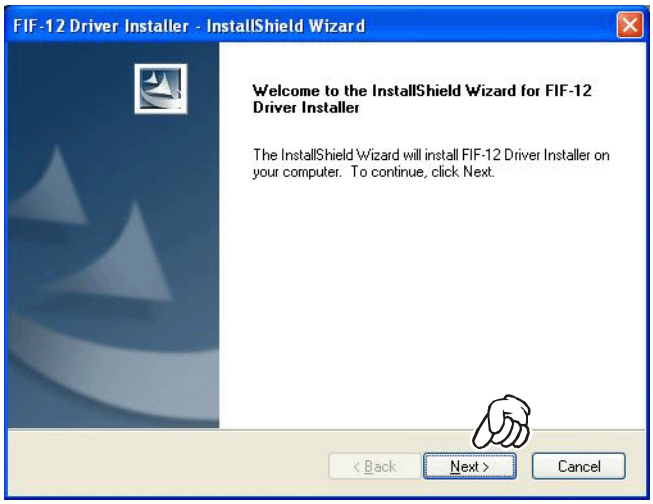
Note: Please perform this operation after changing user account to an "Administrator". ***DO NOT INSTALL ANY HARDWARE BEFORE INSTALLING FIF-12 DRIVER***.

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

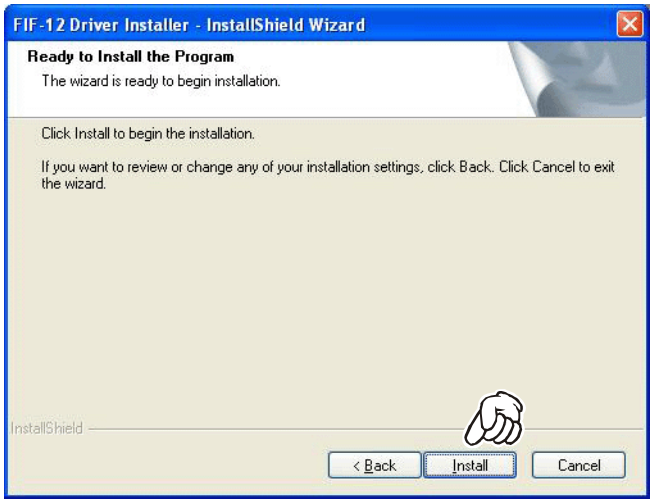




2. The following window (Install Shield Wizard) will be open. Click the left mouse button on "**Next >**" button.

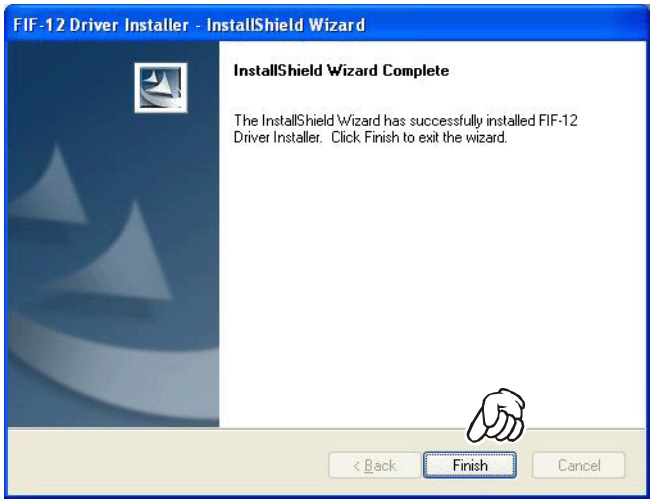


3. Click the *left* mouse button on the "**Install**" button.



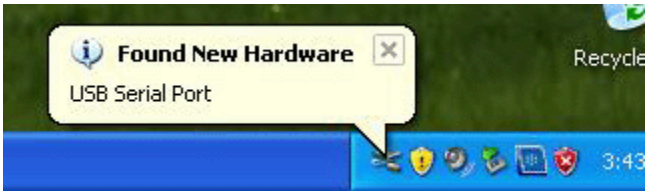
4. Click the *left* mouse button on the "**Continue Anyway**" button.

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



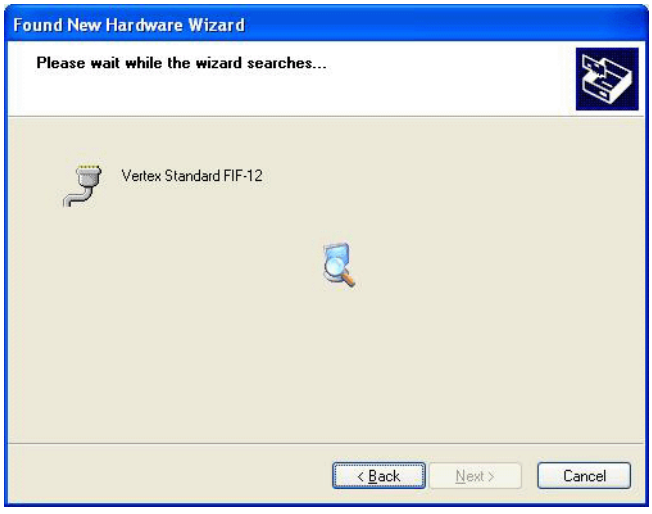
6. Connect the **FIF-12** to the USB port on your computer.

7. The following window (Found New Hardware) will be open.



8. 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.



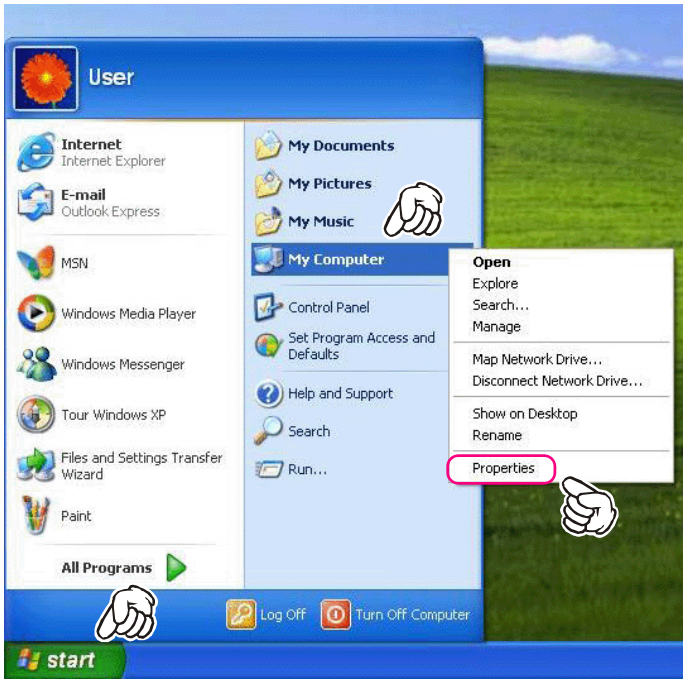
10. Click the *left* mouse button on the "**Continue Anyway**" button.

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

12. Repeat step 7 ~ step 11.

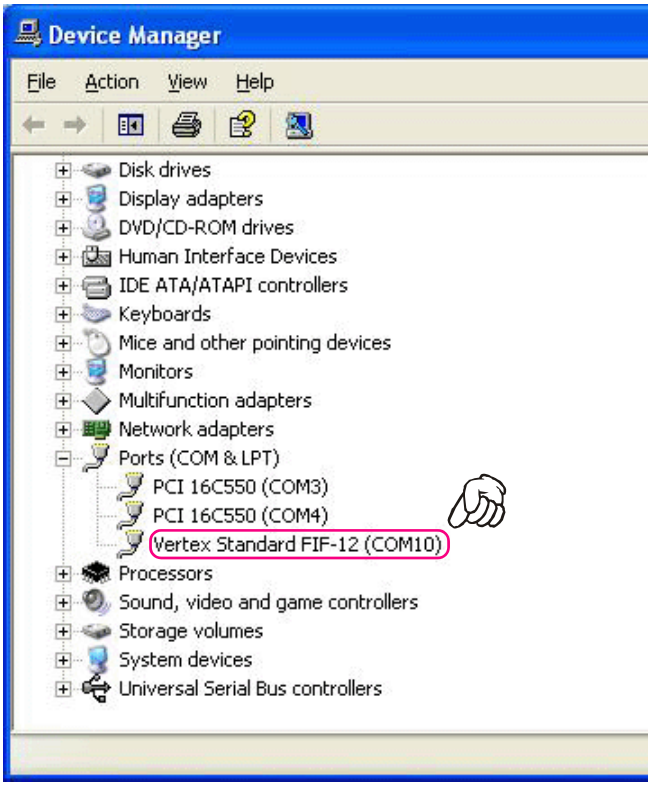
CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® XP)

1. 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.



2. 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.

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

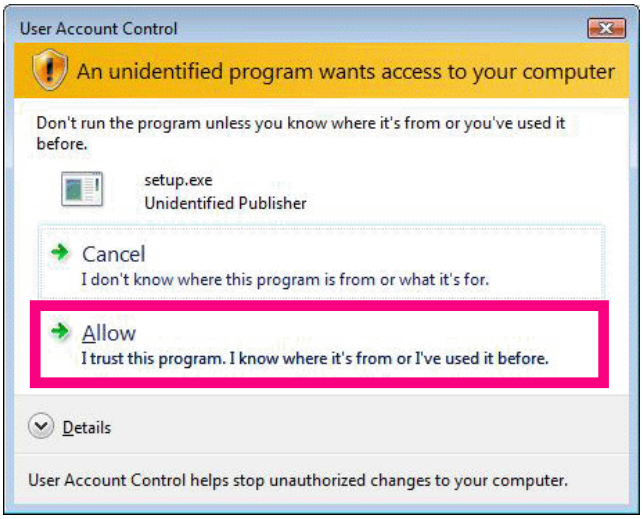


INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® Vista)

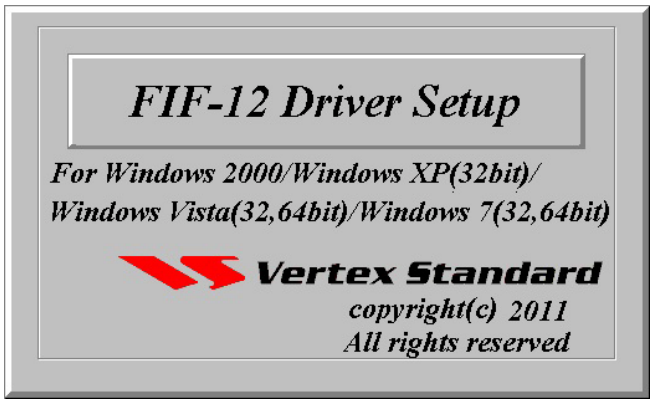
Note: Please perform this operation after changing user account to an "Administrator". ***DO NOT INSTALL ANY HARDWARE BEFORE INSTALLING FIF-12 DRIVER***.

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

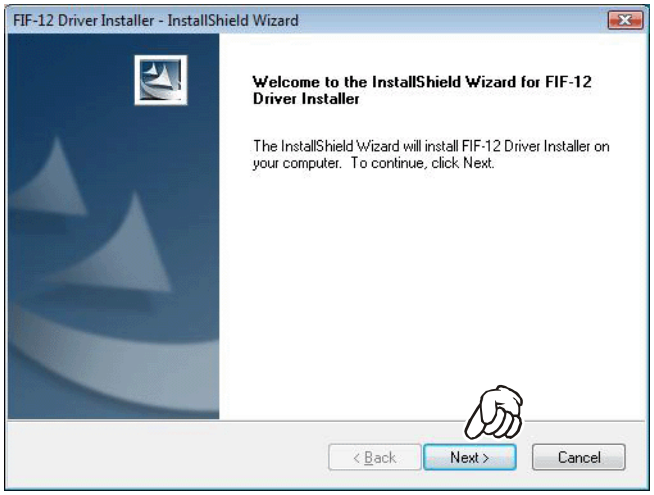
2. The following window (User Account Control) will be open. Click the *left mouse button* on "**Allow**".



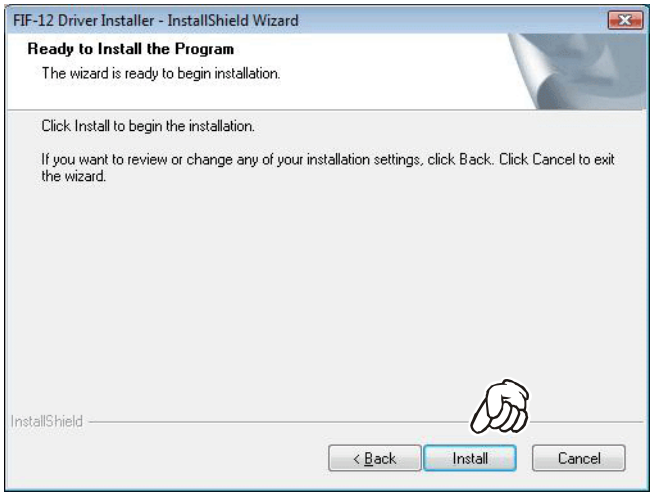
3. The following window (FIF-12 Driver Setup) will be open.



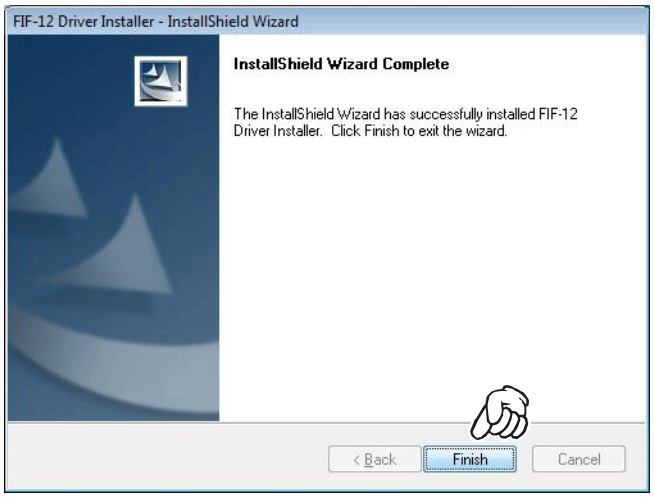
4. The following window (Install Shield Wizard) will be open. Click the left mouse button on "**Next >**" button.



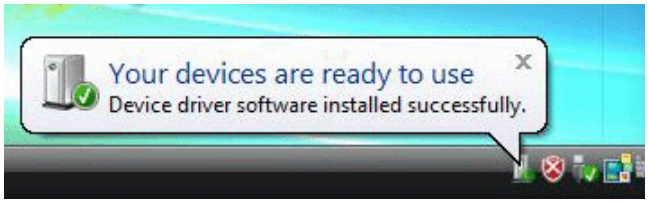
5. Click the *left* mouse button on the "**Install**" button.



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

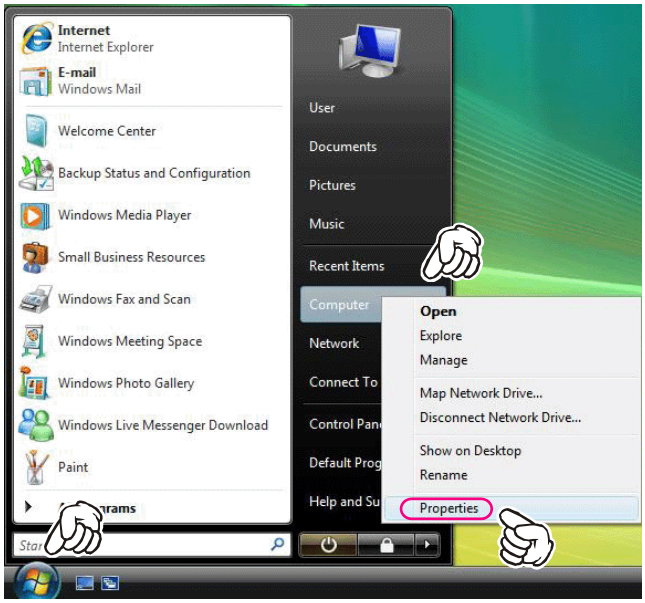


7. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.

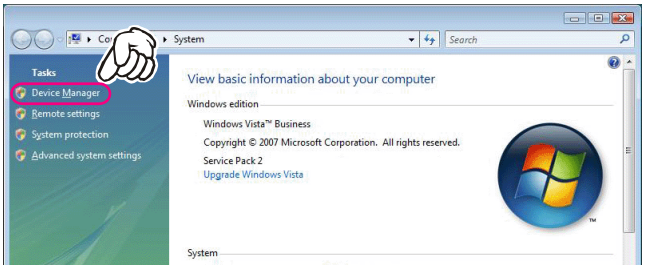


CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® Vista)

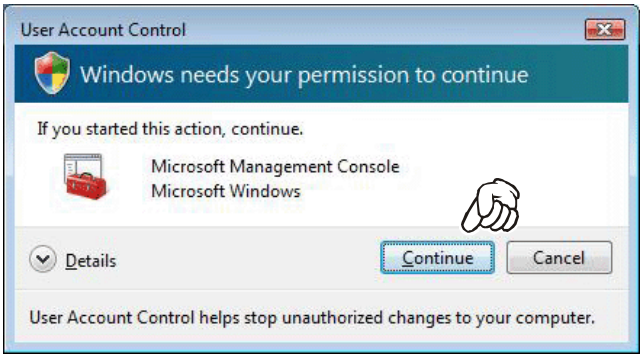
1. Click the *left* mouse button on the "**start**" button, then click the *right* mouse button on the "**Computer**" Item. Click the *left* mouse button on "**Propeties**" to open the "**System Properties**" window.



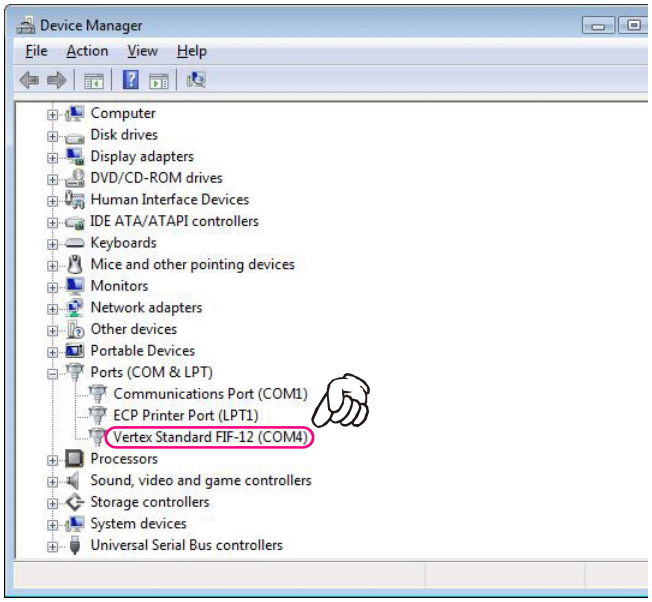
2. Click the *left* mouse button on the "**Device Manager**" Item, to open the "Confirmation" window.



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**.

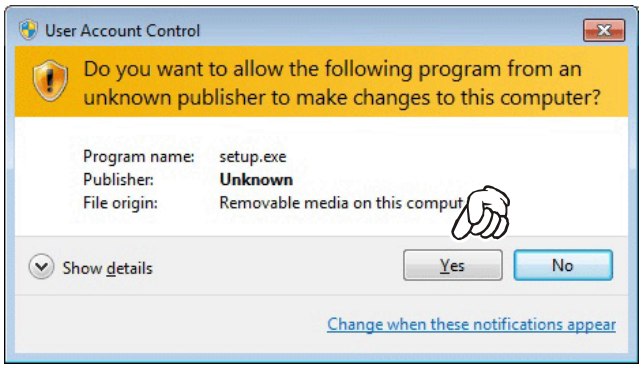


INSTALLATION PROCEDURE FOR THE FIF-12 DRIVER (Microsoft® Windows® 7)

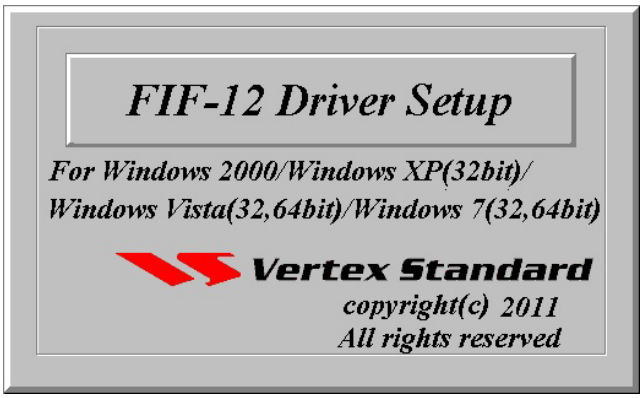
Note: Please perform this operation after changing user account to an "Administrator". ***DO NOT INSTALL ANY HARDWARE BEFORE INSTALLING FIF-12 DRIVER***.

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

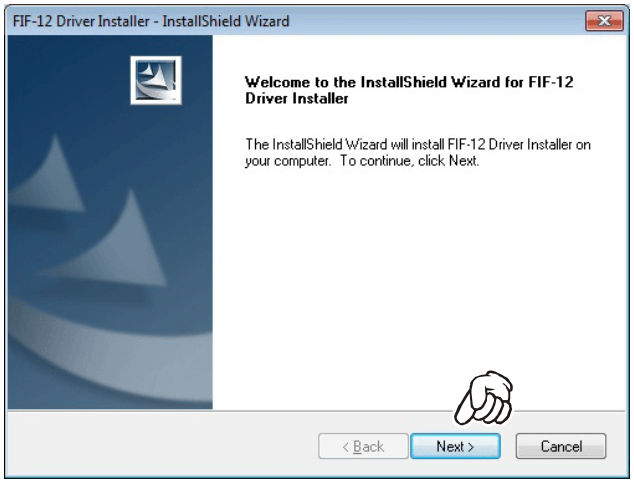
2. The following window (User Account Control) will be open. Click the left mouse button on "**Yes**" button.



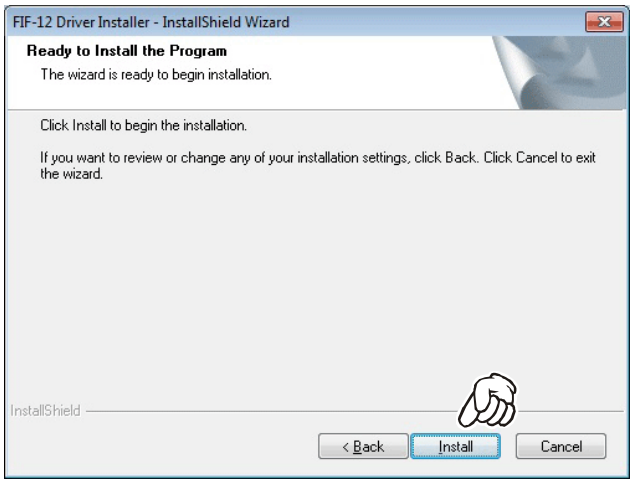
3. The following window (FIF-12 Driver Setup) will be open.



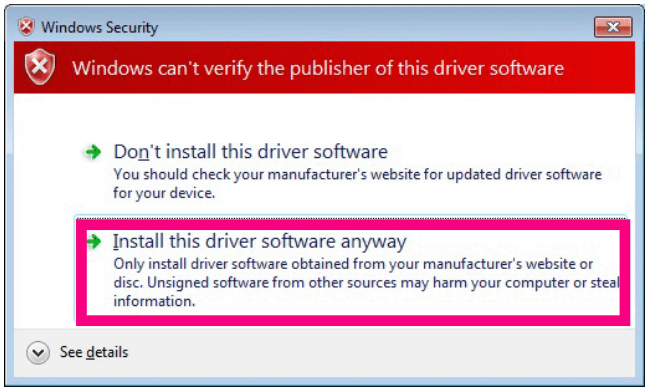
4. The following window (Install Shield Wizard) will be open. Click the left mouse button on "**Next >**" button.



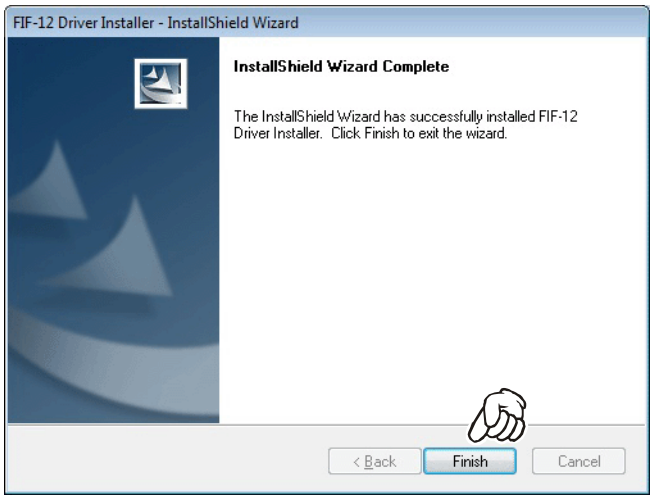
5. Click the *left* mouse button on the "**Install**" button.



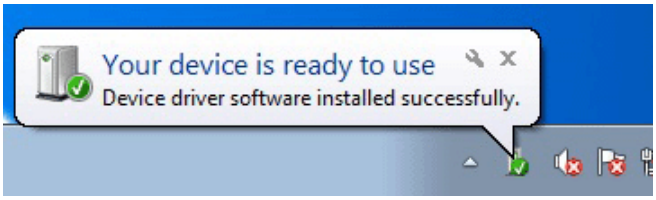
6. The "Windows Security" window will be open. Click the *left mouse button* on "**Install this driver software anyway**".



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

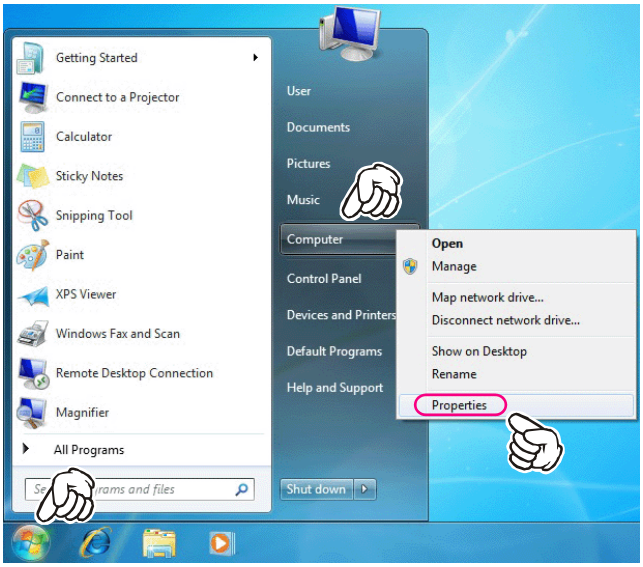


8. Connect the **FIF-12** to the USB port on your computer, the Driver is recognized automatically.

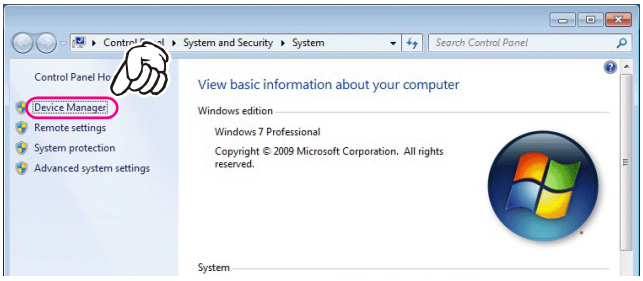


CONFIRMING THE COMPUTER'S COMMUNICATION PORT (Microsoft® Windows® 7)

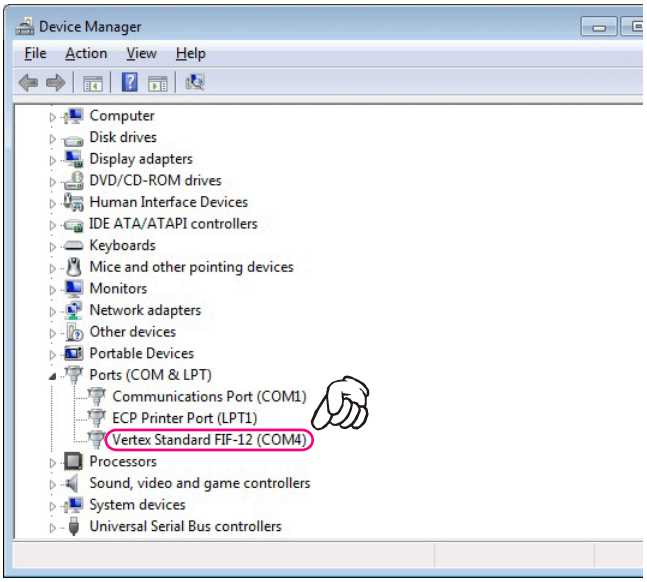
1. Click the *left* mouse button on the "**start**" button, then click the *right* mouse button on the "**Computer**" Item. Click the *left* mouse button on "**Properties**" to open the "**System Properties**" window.



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

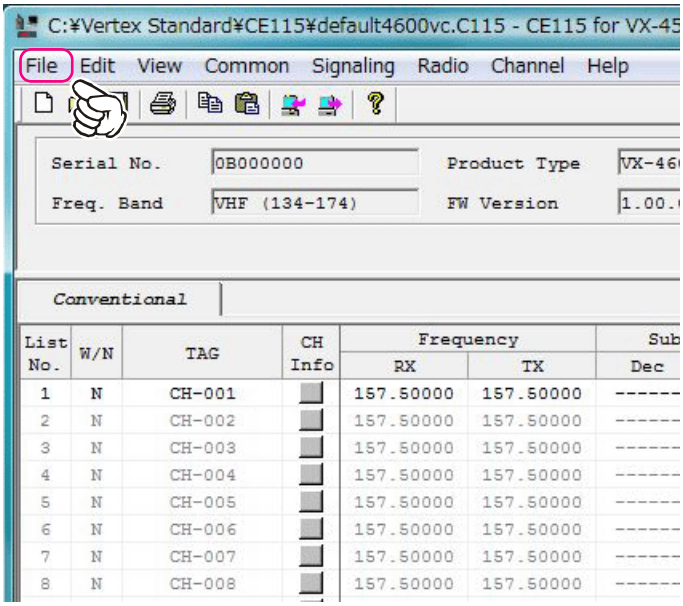


3. Confirm the computer's communication port which detects the **FIF-12**.

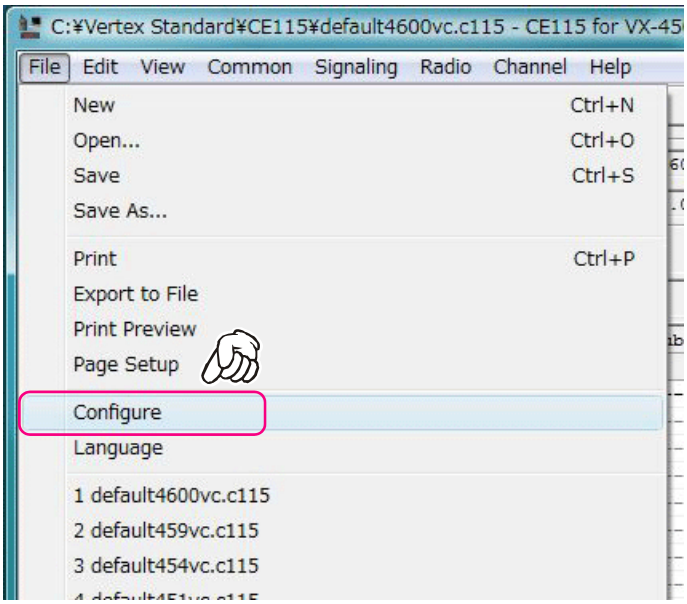


"CONFIGURE" PARAMETER SETTING PROCEDURE (EXAMPLE: "CE115")

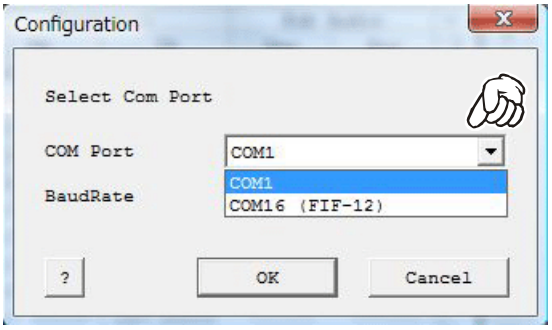
1. Click the *left* mouse button on the "**File**" parameter.



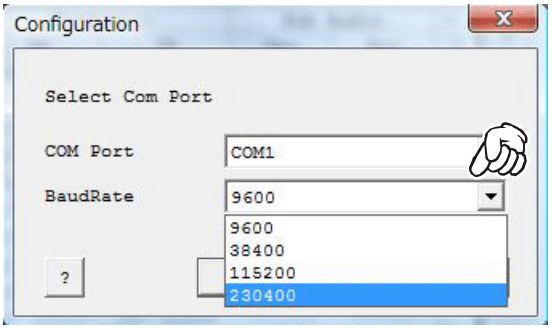
2. Click the *left* mouse button on the "**Configure**" item to open the "**Configure**" window.



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



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



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