FIF-10A USB PROGRAMMING INTERFACE

The **FIF-10A** 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-10A 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.

❑ Connect the supplied USB Cable between the **FIF-10A** and your computer, then connect the appropriate Connection Cable (option) between the **FIF-10A** and the transceiver.

❑ When turning on your computer for the time after connecting the **FIF-10A** to your computer, the computer will ask for the **FIF-10A** driver. Please see page 2 through 7 regarding driver installation.
Confirm the computer's communication port which detects the **FIF-10A**. Describe details on the page 8 through 11.

❑ 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-10A** 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-10A**. See page 12 through 14 for details.

Note: When the DC power from the USB Bus is insufficient, connect the **NC-85** or any regulated DC power supply (6 V, 1 A) to the DC power jack of the **FIF-10A**. Be sure to use the correct polarity when connecting the regulated DC power supply; *the center pin of the power jack is positive (+)*.

OPTIONS

CT-104A Connection Cable with 8-pin Modular Jack (for the **VX-2100/-2200/-4100/-4200, VXR-9000** etc.)

CT-105 Connection Cable with 14-pin Universal Connector (for the **VX-600/-800/-900** etc.)

CT-106 Connection Cable 4-conductor Mini-phone Jack (for the **VX-160/-180/-230/-350/-410/-420** etc.)

CT-108 Connection Cable with 14-pin Universal Connector (for the **VX-820/-920** etc.)

NC-85 AC Adapter

> **NOTE**
> The **FIF-10A** 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-10A**.

Connect the Transceiver to this jack using the appropriate (optional) Connection Cable.
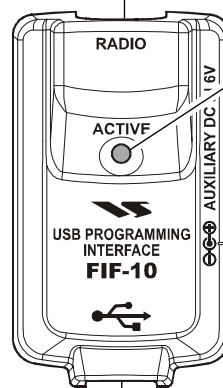

Status Indicator
GREEN: Normal Condition
RED: Uploading/Downloading
ORANGE: Firmware Writing

This DC power jack supplements the DC power of the USB port. Connect the **NC-85** or any regulated DC power supply (6 V, 1 A) to this jack when the DC power from the USB Bus is insufficient. **The center pin of the power jack is positive (+).**

Note: When using the FIF-10A, please make sure the computer is equipped with an Intel or Via chipset (not AMD, SiS and ALi).

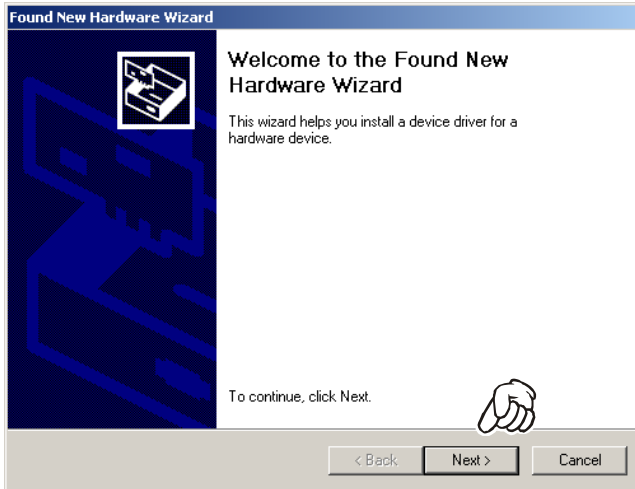Connect your Computer to this jack using the supplied USB Cable.
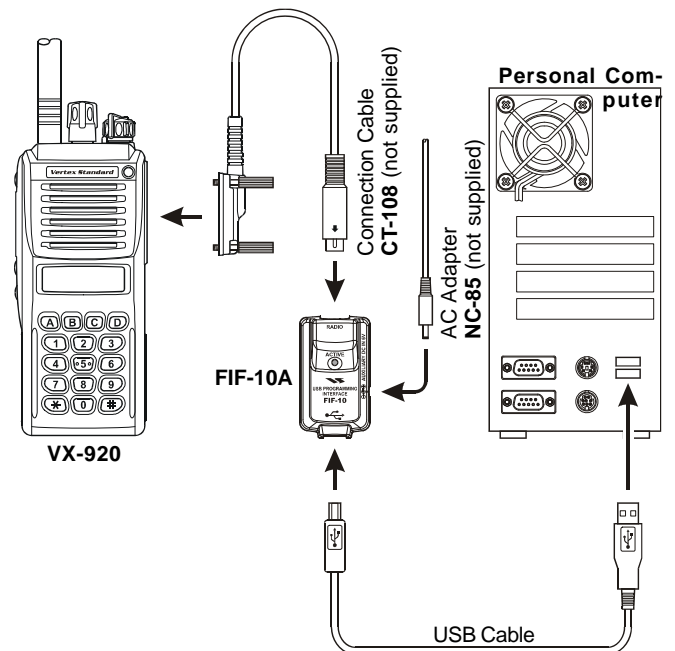
TYPICAL SETUP FOR THE FIF-10A

Note: Please perform this operation after changing user account to an "Administrator".

1. Set the supplied CD into your CD-ROM drive.

2. When FIF-10/A is connected to the USB port on the computer, the following window (Found New Hardware Wizard) will be open. Click the left mouse button on "**Next >**" button.
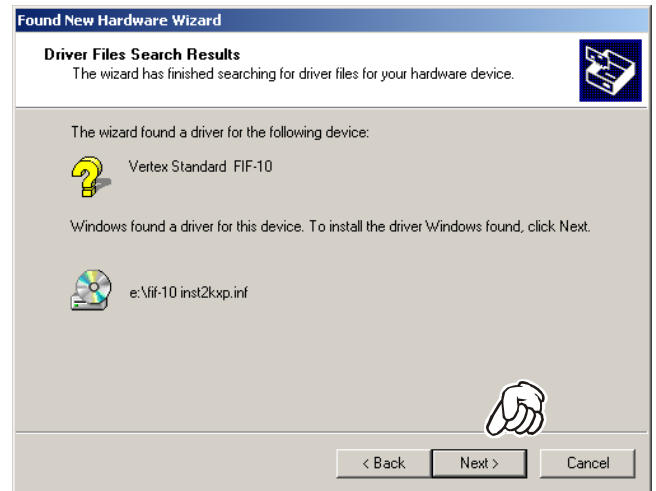

3. Select "**Search for a suitable driver for my device**," then click the *left* mouse button on the "**Next >**" button.

4. Select "**CD-ROM drives**," then click the *left* mouse button on the "**Next >**" button.

5. Click the *left* mouse button on the "**Next >**" button.

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

Note: Please perform this operation after changing user account to an "Administrator".

1. Set the supplied CD into your CD-ROM drive.
2. When FIF-10/A is connected to the USB port on the computer, the following window (Hardware Update Wizard) will be open. Select "**Install from a list or specific location (Advanced)**," then click the *left* mouse button on the "**Next >**" button.
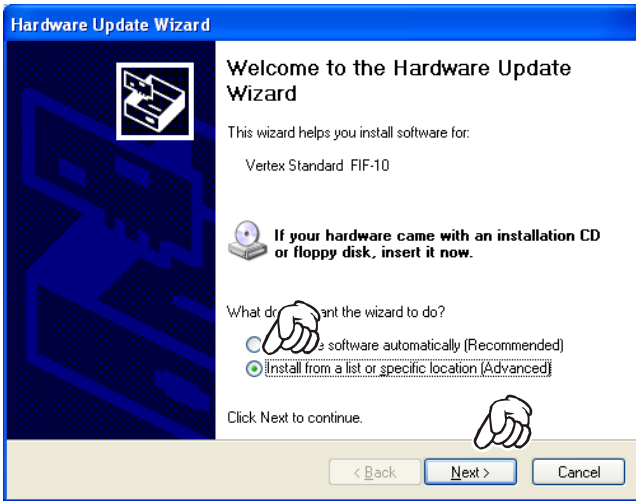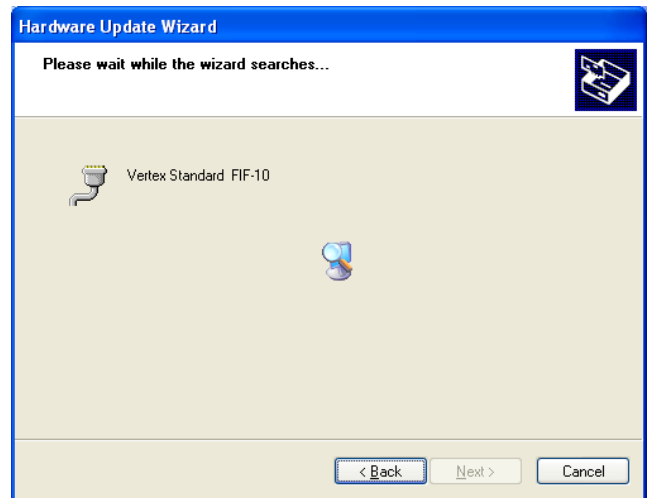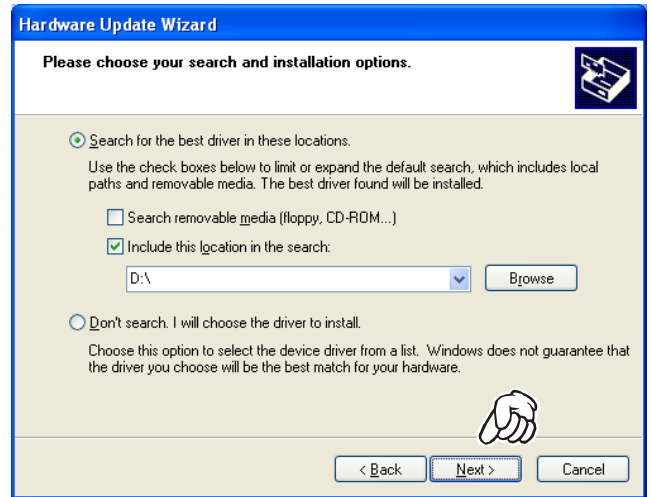

3. Select "**Include the location in the search:**" then click the *left* mouse button on the "**Browse**" button.
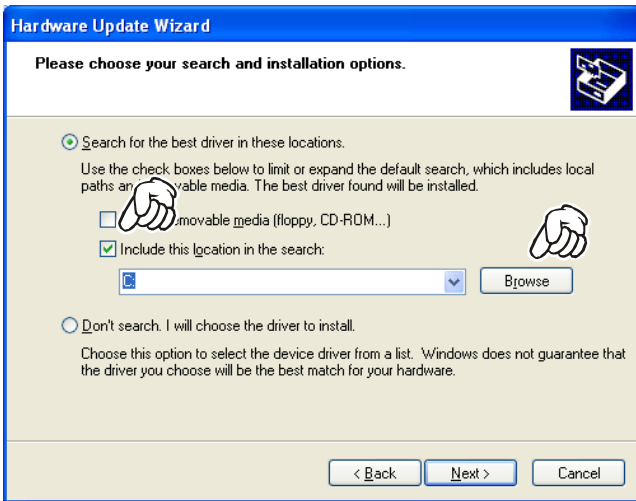
4. Click the CD-ROM Drive, then click the *left* mouse button on the "**OK**" button.
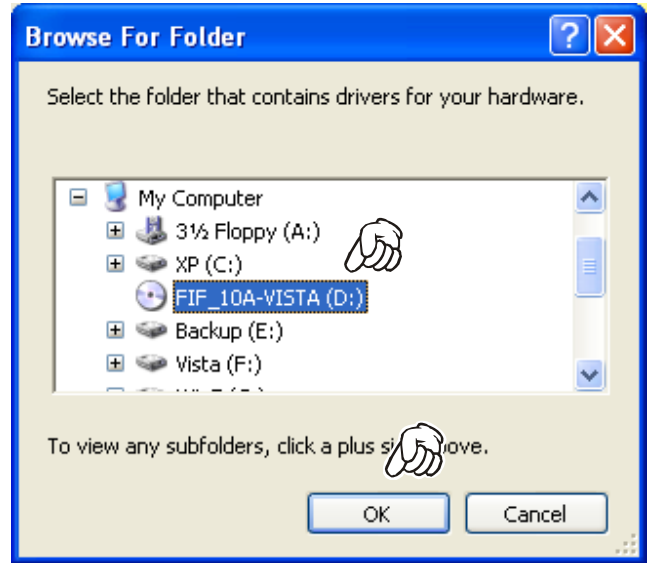
5. Click the *left* mouse button on the "**Next >**" button, then starting the driver install.

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

Hardware Installation

⚠ The software you are installing for this hardware:

Vertex Standard FIF-10/A

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

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] [STOP Installation]

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

Hardware Update Wizard

Completing the Hardware Update Wizard

The wizard has finished installing the software for:

Vertex Standard FIF-10/A

Click Finish to close the wizard.

[< Back] [Finish] [Cancel]

~ 4 ~

Note: Please perform this operation after changing user account to an "Administrator".

1. When **FIF-10/A** is connected to the USB port on the computer, the following window (automatic device recognition window) will be open. Click the *left mouse button* on "**Locate and install driver software (recommended)**".
2. The screen becomes dark, and the "User Account Control" window will be open. Click the *left mouse button* on "**Continue**" button.
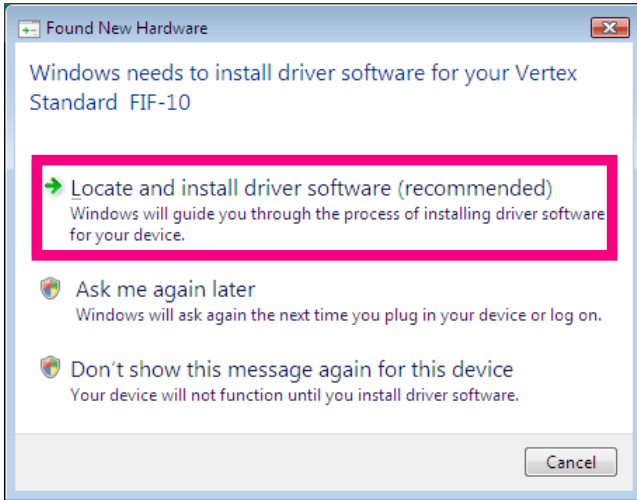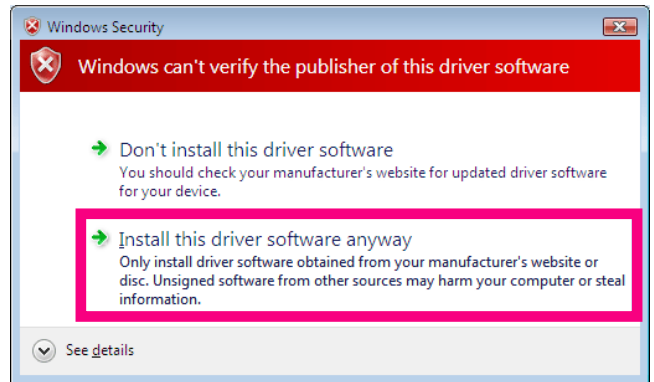
3. The following window will be open. Click the *left mouse button* on "**Don't search online**".
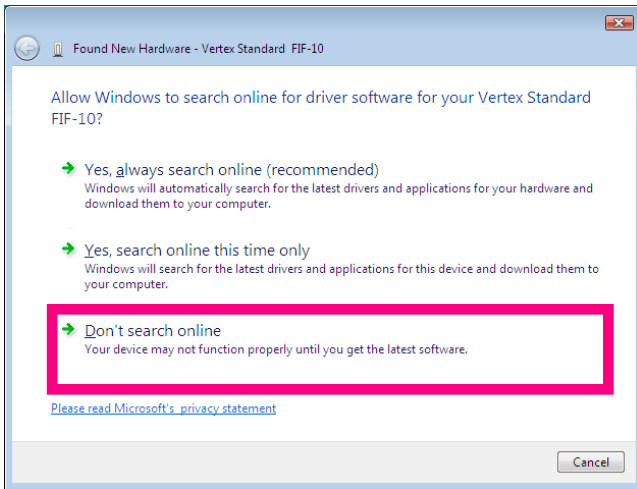
4. The following window will be open. Insert the FIF-10A CD-ROM into your computer.
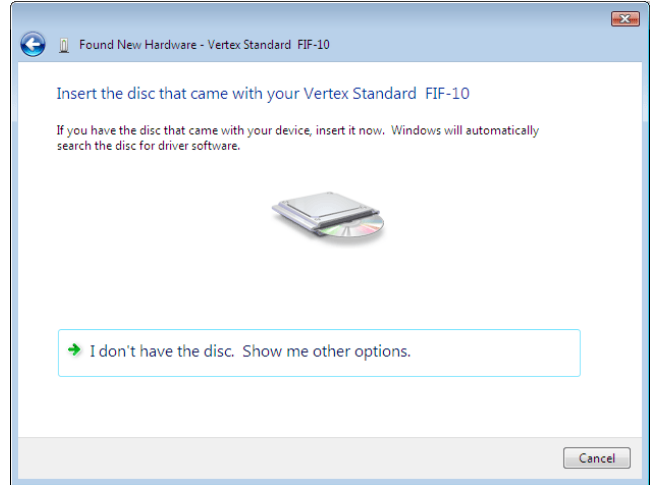
5. The "Windows Security" window will be open. Click the *left mouse button* on "**Install this driver software anyway**".

6. The following window will be open. The driver installation is complete. Click the *left mouse button* on "**Close**" button.
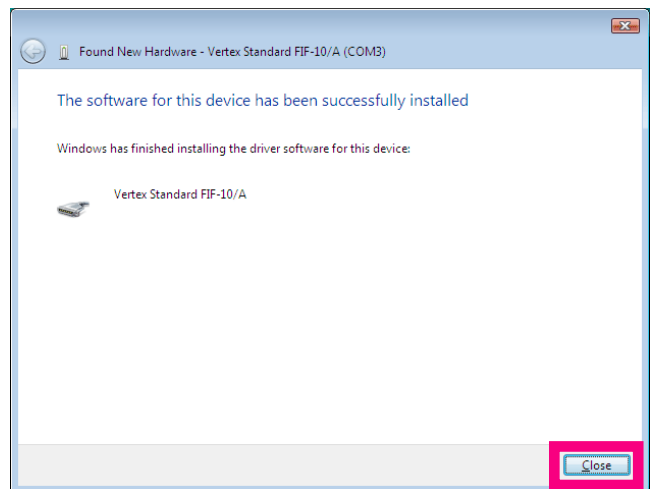
Note: Please perform this operation after changing user account to an "Administrator".

1. Set the supplied CD into your CD-ROM drive.
2. When **FIF-10/A** is connected to the USB port on the computer, the following window will be open. Click the *left mouse button* on "**x**".
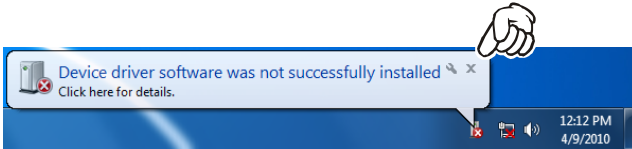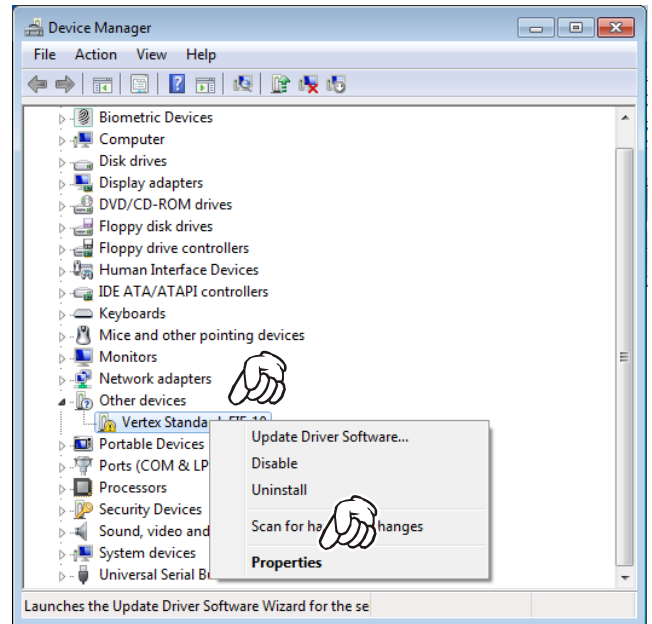
3. Click the *right* mouse button on the "**Computer**" Item, then click the *left* mouse button on "**Properties**" to open the "**System Properties**" window.
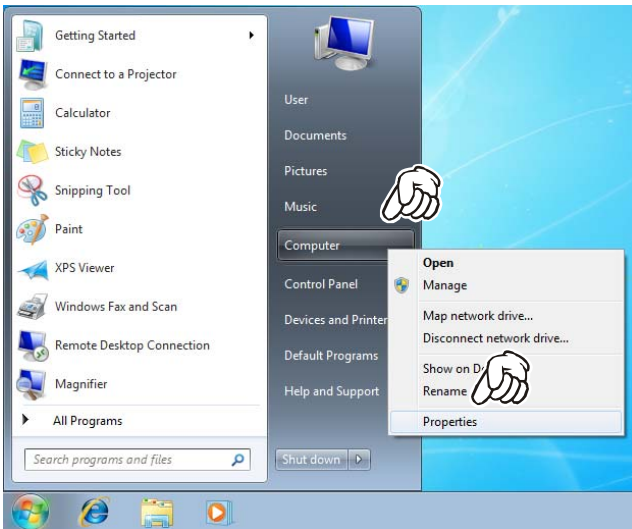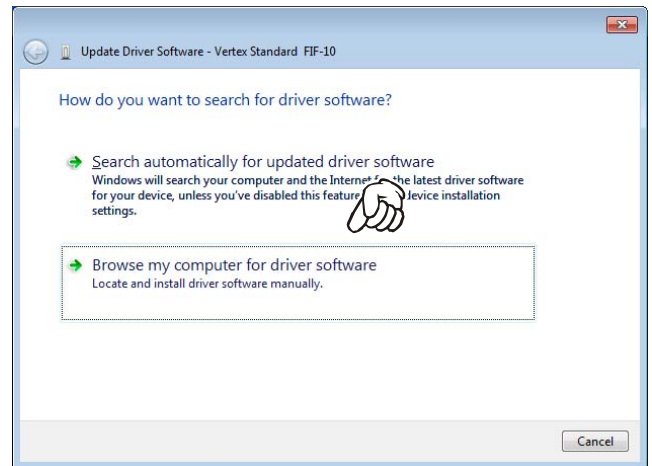
4. Click the *left* mouse button on the "**Device Manager**" Item, to open the "**Device Manager**" window.
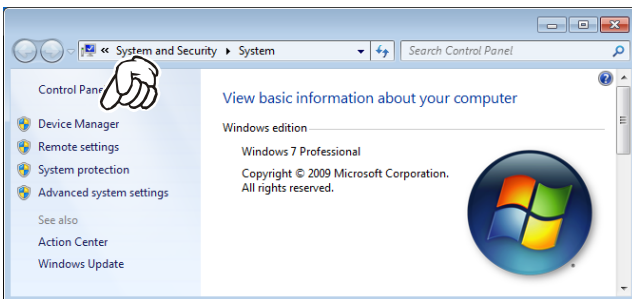
5. Click the *right* mouse button on the "**Vertex Standard FIF-10**" Item, then click the *right* mouse button on "**Properties**".

6. The following window will be open. Click the *left mouse button* on "**Browse my computer for driver software**".

7. The following window will be open. Click the *left* mouse button on the "**Browse...**" button.

8. Click the CD-ROM Drive, then Click the *left* mouse button on the "**OK**" button.

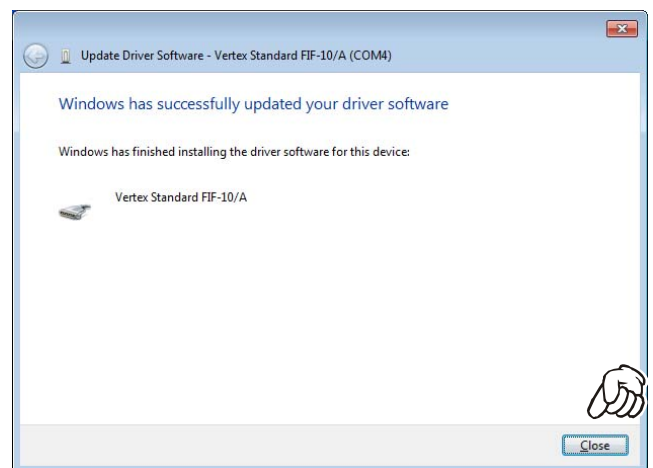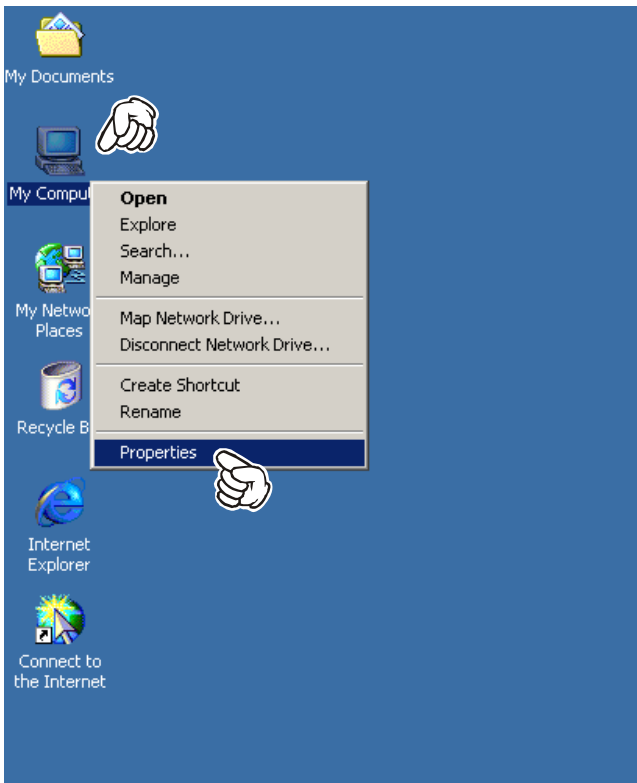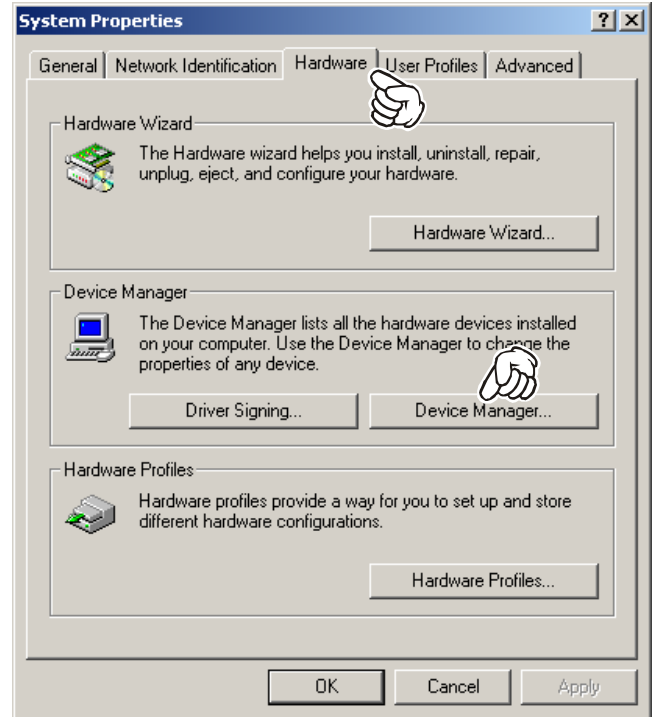*9*. Click the *left* mouse button on the "**Next >**" button, to start the driver install.
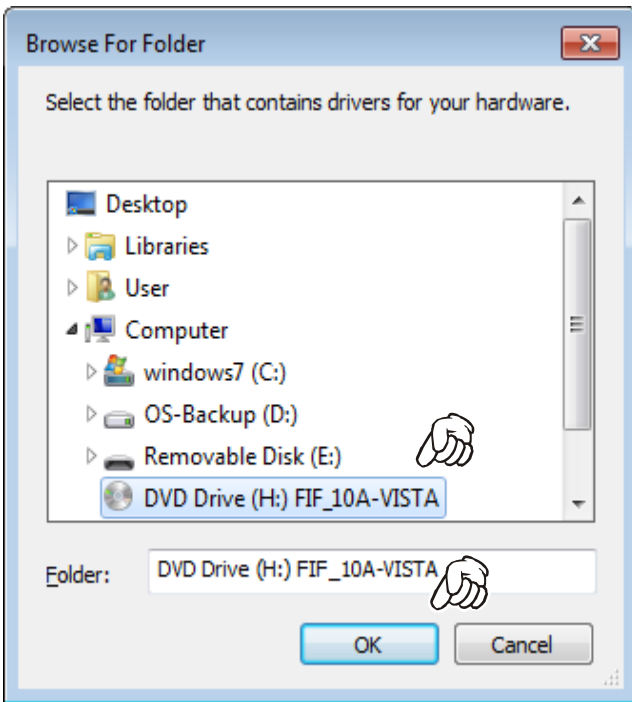
10. The "Windows Security" window will be open. Click the *left mouse button* on "**Install this driver software anyway**".
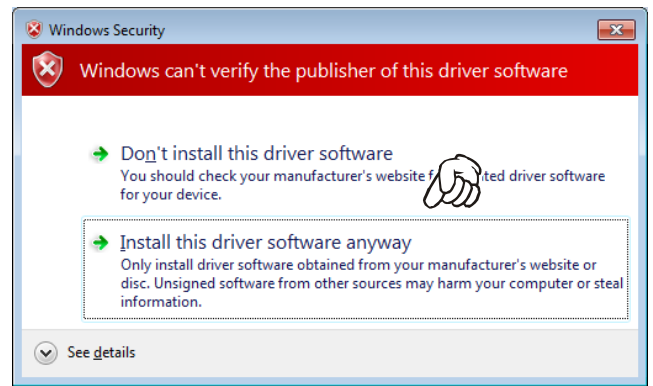
11. The following window will be open. The driver installation is complete. Click the *left mouse button* on "**Close**" button.
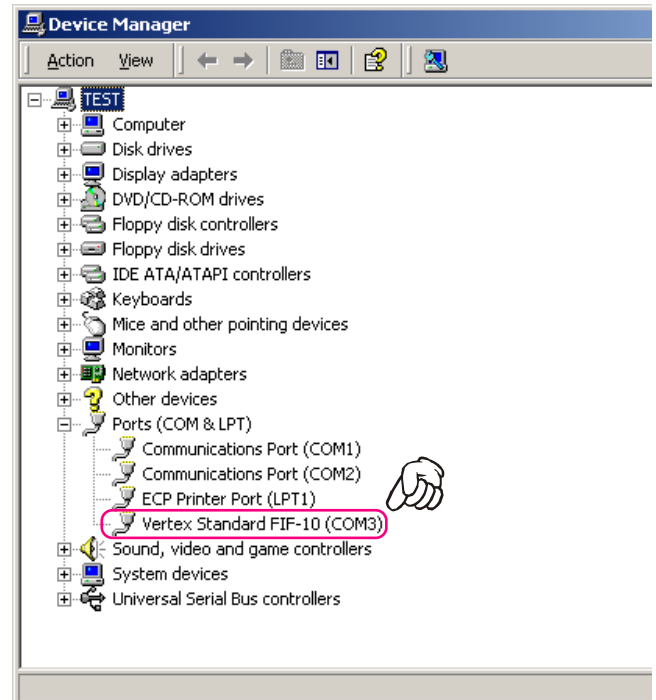
1. Click the *right* mouse button on the "**My Computer**" icon on the desktop, then click the left mouse button on the "**Properties**" item to open the "**System Properties**" window.

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-10A**.

1. Click the *left* mouse button on the "**start**" button, then click the *left* mouse button on the "**My Computer**" Item.
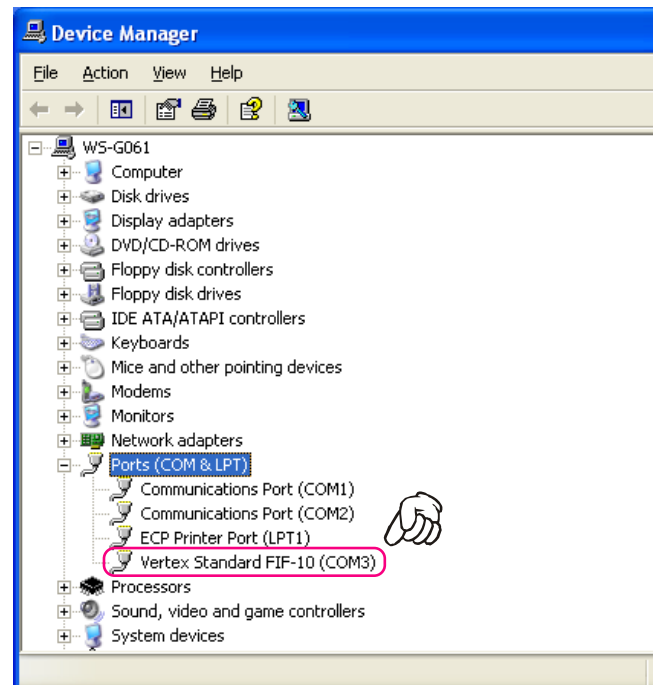

2. Click the *left* mouse button on "**View system information**" to open the "**System Properties**" window.

3. 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.
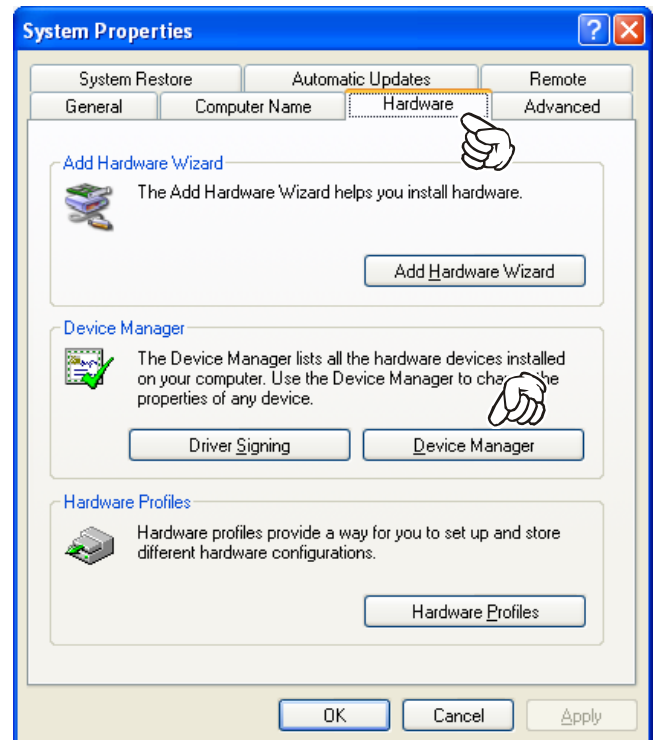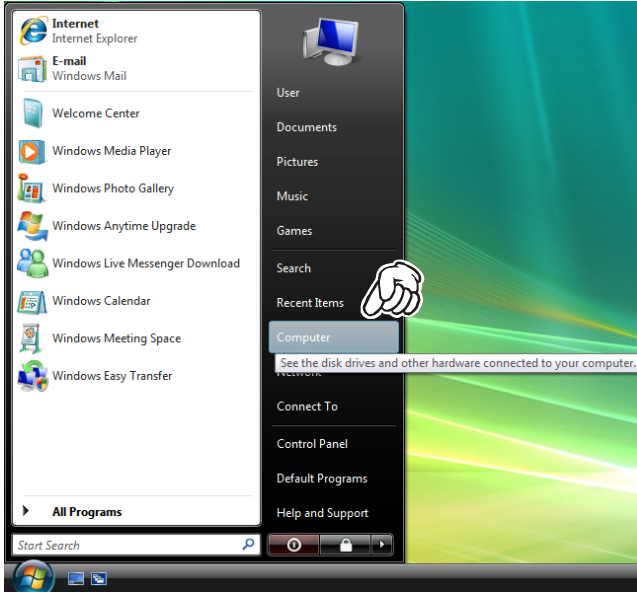

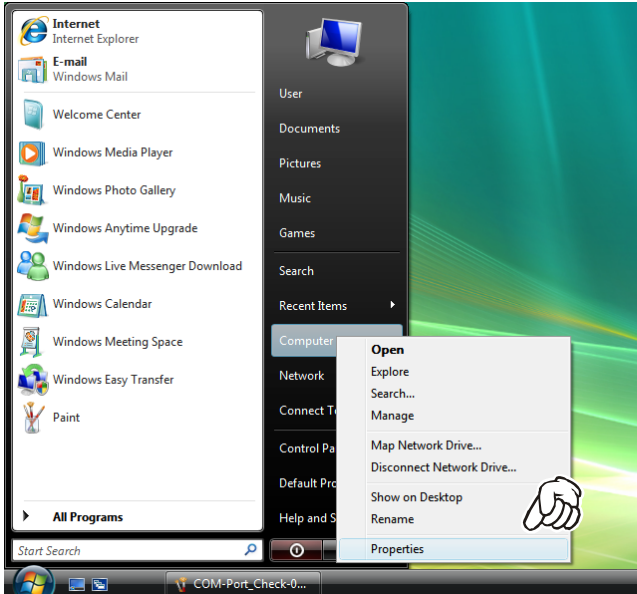**4**. Confirm the computer's communication port which detects the **FIF-10A**.
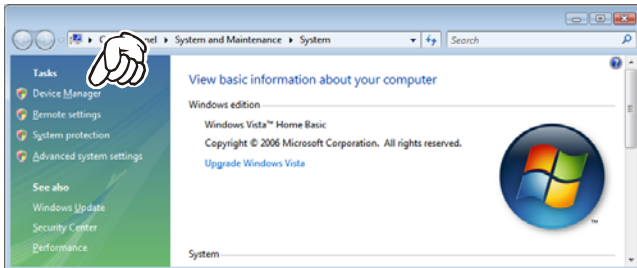
1. Click the *left* mouse button on the "**start**" button, then click the *right* mouse button on the "**Computer**" Item.
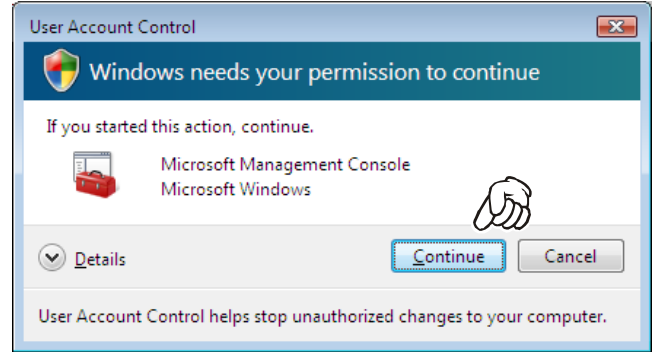
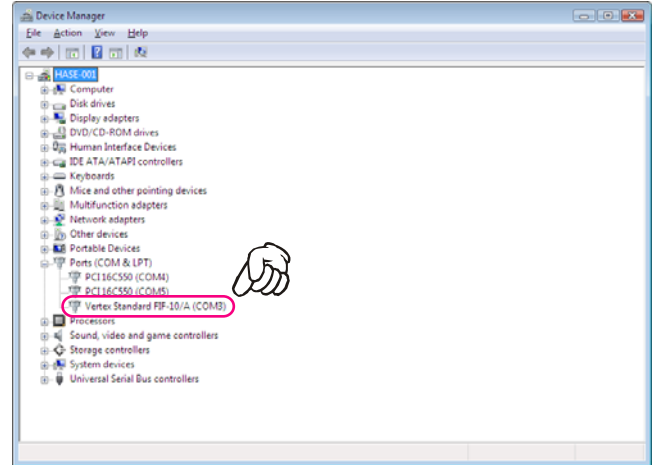*2*. Click the *left* mouse button on "**Propeties**" to open the "**System Properties**" window.

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

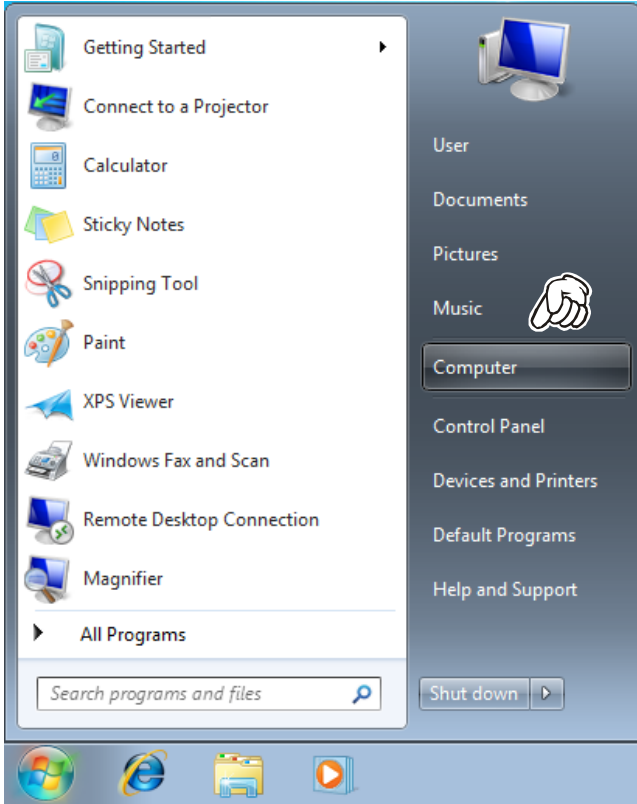*4*. Click the *left* mouse button on the "**Continue**" button to open the "**Device Manager**" window.

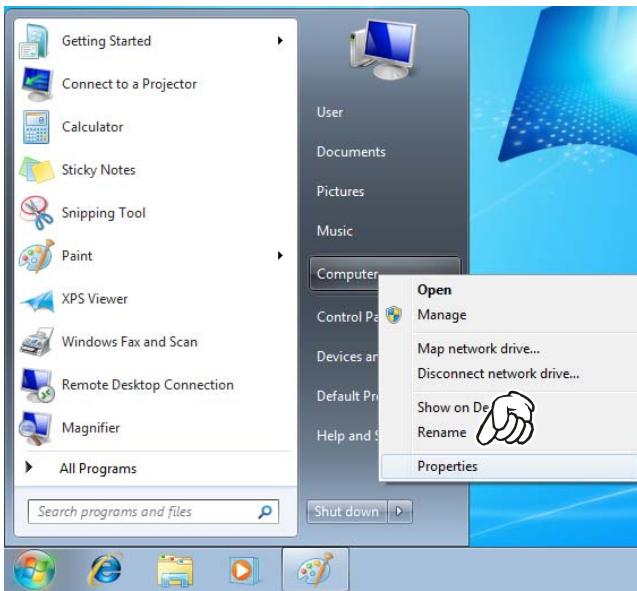*5*. Confirm the computer's communication port which detects the **FIF-10A**.
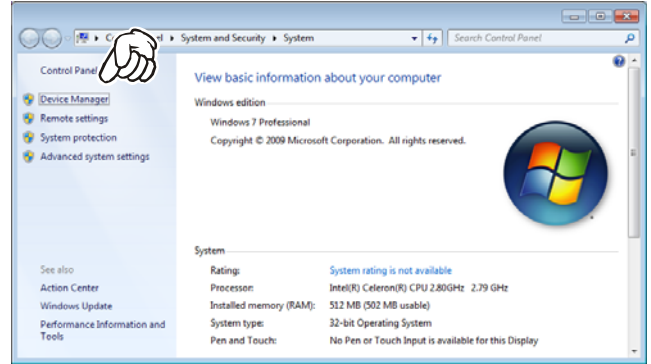
1. Click the *left* mouse button on the "**start**" button, then click the *right* mouse button on the "**Computer**" Item.

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

4. Confirm the computer's communication port which detects the **FIF-10A**.

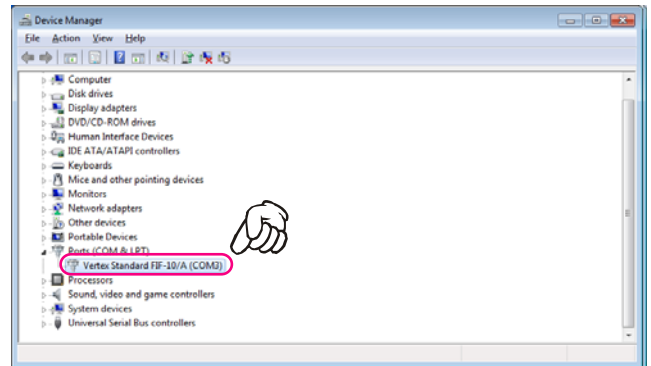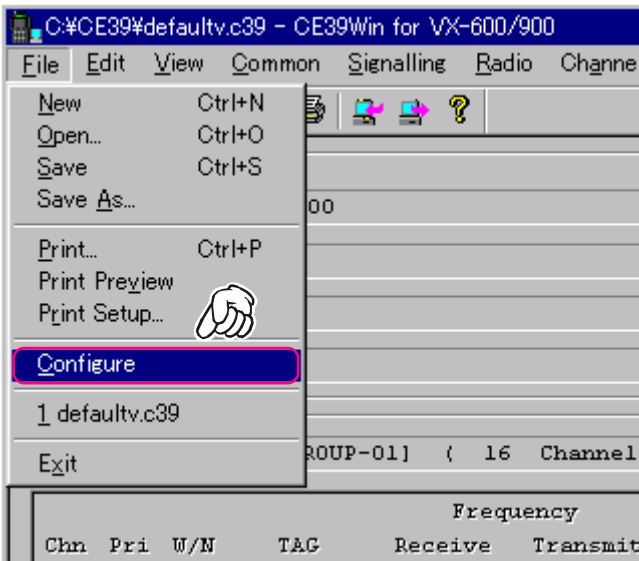*2*. Click the *left* mouse button on "**Properties**" to open the "**System Properties**" window.

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

```
C:¥CE39¥defaultv.c39 - CE39Win for VX-600/900
File  Edit  View  Common  Signalling  Radio  Channe

    Serial No     0B010001

    Freq Band     VHF

    ProductType   VX-900

    SW Version    2.00


    Group   1  TAG [GROUP-01]  (  16  Channel
                                 Frequency
   Chn  Pri  W/N      TAG      Receive    Transmit
```

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

```
C:¥CE39¥defaultv.c39 - CE39Win for VX-600/900
File   Edit   View   Common   Signalling   Radio   Channe
  New            Ctrl+N
  Open...         Ctrl+O
  Save           Ctrl+S
  Save As...              00
  Print...        Ctrl+P
  Print Preview
  Print Setup...
  Configure
  1 defaultv.c39
                        ROUP-01]  (  16  Channel
  Exit
                          Frequency
  Chn  Pri  W/N      TAG      Receive    Transmit
```

3. Select the communication port which is detecting the **FIF-10A**, then click the *left* mouse button on the "**OK**" button.

```
Configuration

   Select COM Port          ┌──────┐
                            │  OK  │
  ┌─COM Port──────────      └──────┘
  │
  │  ○ COM 1    ○ COM 2     ┌──────┐
  │                         │Cancel│
  │  ● COM 3    ○ COM 4     └──────┘
```
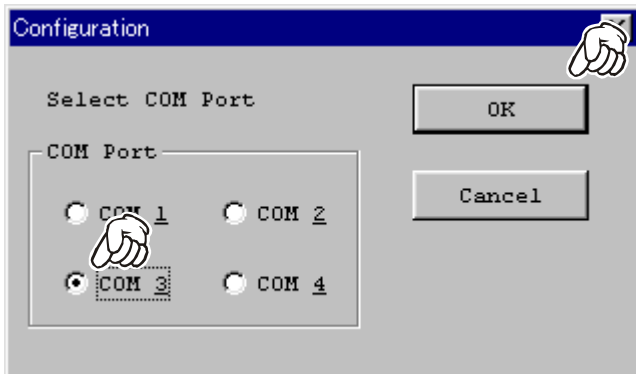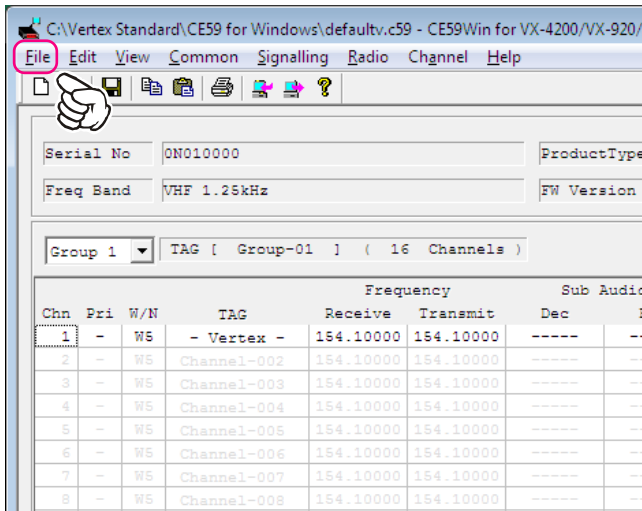
1. Click the *left* mouse button on the "**File**" parameter.

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-10A**.

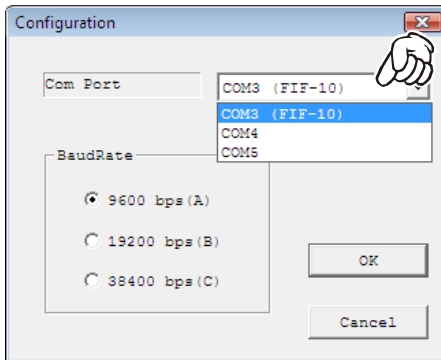*4*. Select the Baud Rate for the transceiver's computer interface circuitry, then click the *left* mouse button on the "**OK**" button.
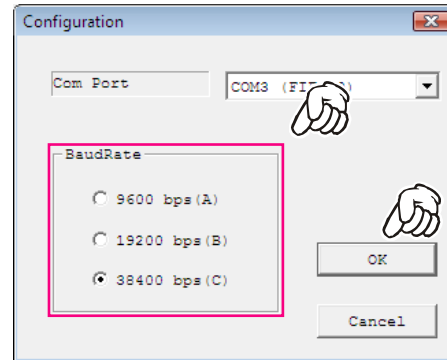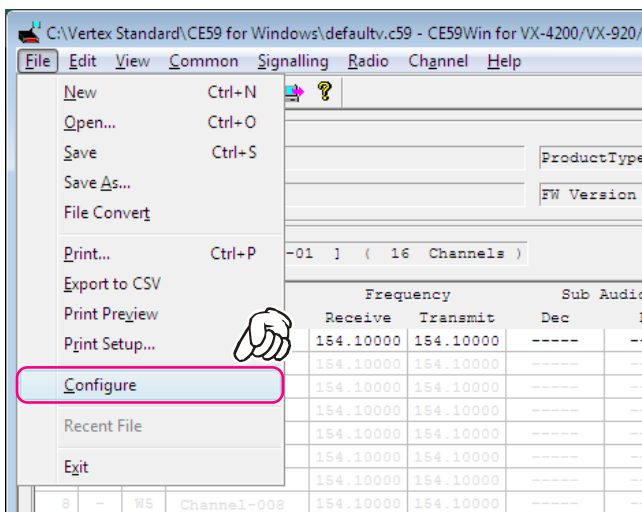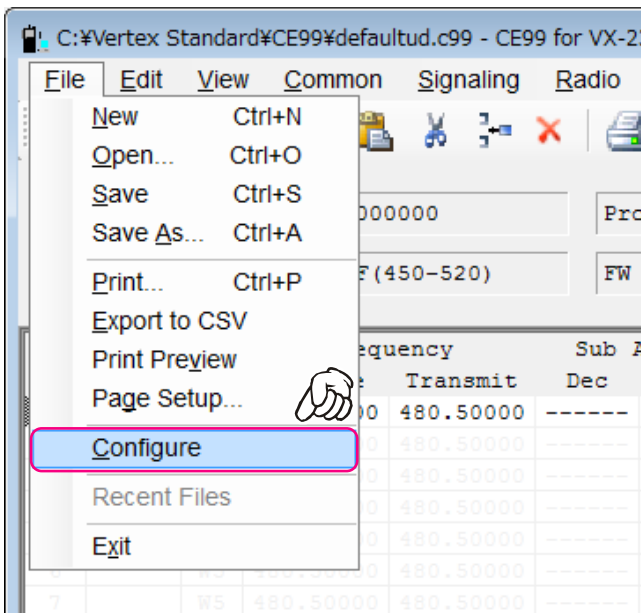
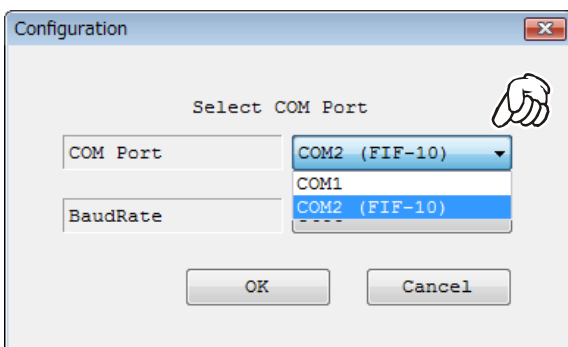# "CONFIGURE" Parameter Setting Procedure (Example: "CE99")

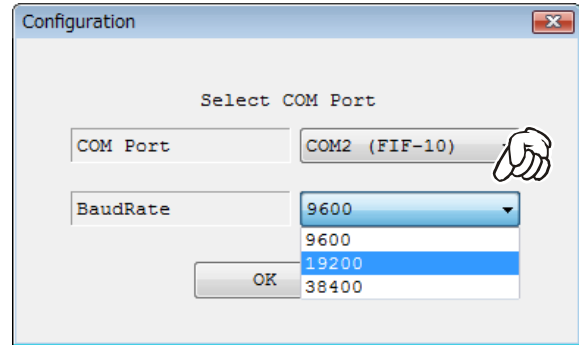*1*. Click the *left* mouse button on the "**File**" parameter.
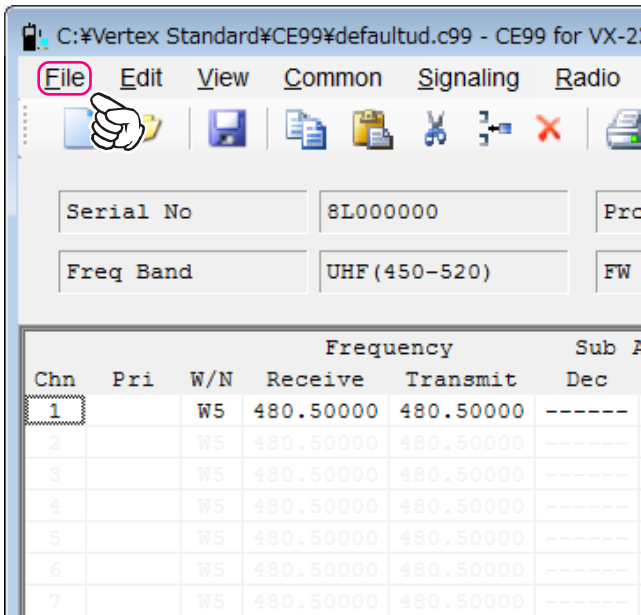
2. Click the *left* mouse button on the "**Configure**" item to open the "**Configure**" window.

3. Select the communication port which is detecting the **FIF-10A**.

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

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