

User's Manual

Model 707033/707034 WE7033/WE7034 Optical Interface Card

This User's Manual contains information about the installation procedures for the optical interface card WE7033/WE7034 for the PC-based measurement instruments, WE7000. For other information about the functions and specifications of the card, read the WE7000 User's Manual, IM707001-01E.

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Disk No. WE07

4th Edition : January 2001 (YK)

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YOKOGAWA
Yokogawa Electric Corporation

IM 707033-01E 4th Edition

1. Checking the Product

The name plate is located on the rear side of the optical interface card. Check that the model name given on the name plate matches that on the order.

MODEL

Model	Description
707033	WE7033 optical interface card for PCs with ISA bus (full size), 1 port
707034	WE7034 optical interface card for PCs with ISA bus (full size), 2 ports

NO.

When contacting your dealer, please quote the instrument No.

Note

For detailed specifications such as the PC system requirements of the optical interface card, see the PC-Based Measurement Instruments WE7000 User's Manual (IM707001-01E).

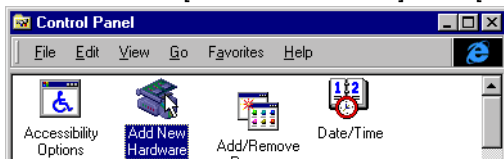
2. Installing the Driver and Allocating Resources

Before installing the optical interface card into the PC, install the driver for it according to the procedure given below.

For Windows 95

[Installing the driver]

1. Start Windows 95.
2. If the PC is connected to a network environment or a user profile has been set, a dialog appears for you to enter a username and password. Enter the username and password in the entry box and click [OK].
3. Place the WE7000 Control Software Setup Disk (CD-ROM, Ver. 3.1.4.0 or later), that is included with the measuring station, into the CD-ROM drive.
4. Click the [Start] button, point to [Settings], and then click [Control Panel]. The [Control Panel] dialog box appears.
5. Double-click the [Add New Hardware] icon. [Add New Hardware Wizard] starts.



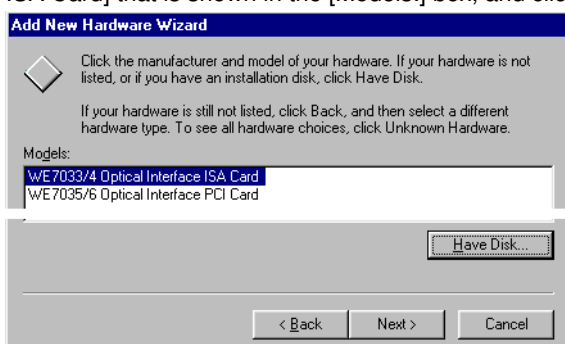
6. Click [Next] in the first dialog box that appears. In the next dialog box that appears, select the [No] option for [Do you want Windows to search for your new hardware?] Then, click [Next].
7. In the dialog box that appears as shown below, click [Other devices] under [Hardware types:] and click [Next].



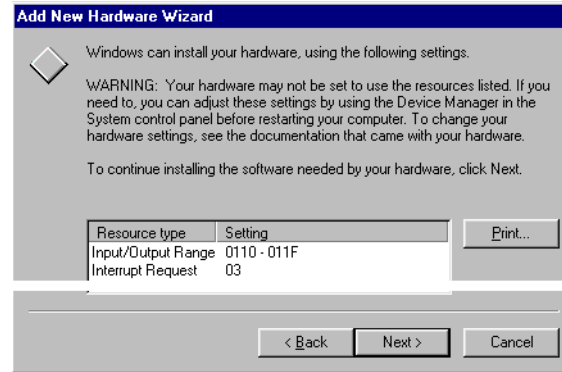
8. In the dialog box that appears, click [Have Disk]. In the next dialog box that appears (see figure below), enter the CD-ROM directory where the driver is located (if the CD-ROM drive is D, the directory is D:\OPTICALD\WIN95) in the [Copy manufacturer's files from:] entry box and click [OK].



9. In the dialog box that appears (see figure below), select [WE7033/4 Optical Interface ISA Card] that is shown in the [Models:] box, and click [Next].



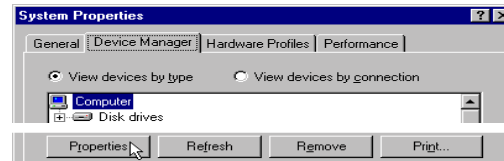
10. In the dialog box that appears (see figure below), click [Next]. The dialog box shown below displays the resource allocation.



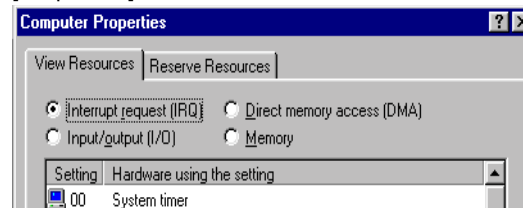
11. In the dialog box that appears, click [Finish].
12. In the [System Settings Change] dialog box, click [No].

[Checking the resources]

13. Double-click the [System] icon in the [Control Panel].



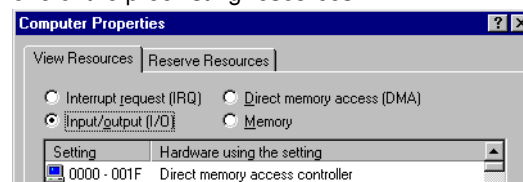
14. Click the [Device Manager] tab, select [Computer] in the displayed box, and click [Properties].



15. In the [Computer Properties] dialog box, click the [Interrupt request (IRQ)] option button in the [View Resources] tab.
16. Check for an unused IRQ number. If there is none, you must delete one of the preexisting resources.



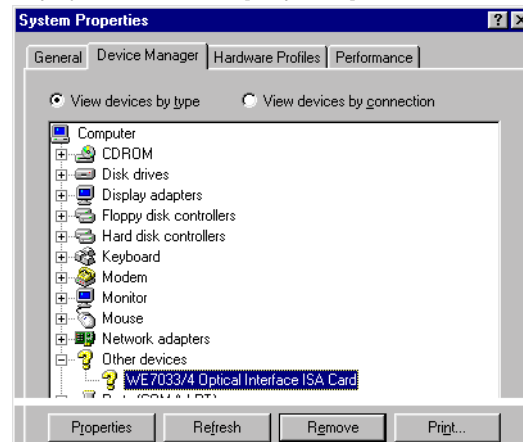
17. Click the [Input/output (I/O)] option button in the [View Resources] tab.
18. Check for an unused I/O port address and click [OK]. If there is none, you must delete one of the preexisting resources.



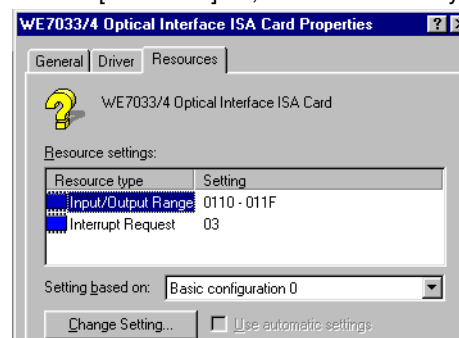
[Changing the resource allocation]

If there is a conflict in the resource allocation, reconfigure it according to the following procedure.

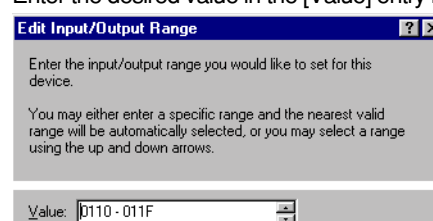
19. In [Device Manager], Select [Other devices] - [WE7033/4 Optical Interface ISA Card] in the displayed box and click [Properties].



20. Click the [Resources] tab, select the resource you wish to change, and click [Change Setting].



21. Enter the desired value in the [Value] entry box and click [OK].

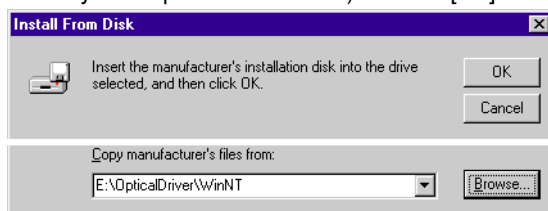


22. After setting both the I/O port address and IRQ, click [OK] and restart the PC.

For Windows NT

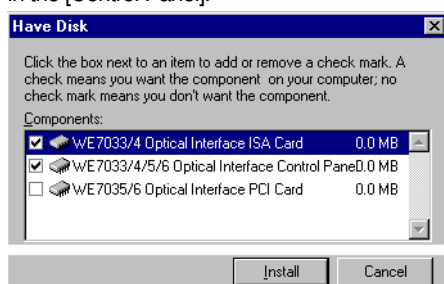
[Installing the driver and allocating resources]

1. Start Windows NT.
2. Press the [Ctrl]+[Alt]+[Delete] keys to display the dialog box for entering the user name and the password. Log on using a user name that is a member of Administrator.
3. Place the WE7000 Control Software Setup Disk (CD-ROM, Ver. 3.1.4.0 or later) that is included with the measuring station into the CD-ROM drive.
4. Click the [Start] button, point to [Settings], and then click [Control Panel]. The [Control Panel] dialog box appears.
5. Double-click the [Add/Remove Programs] icon.
6. Click the [Windows NT Setup] tab, then click [Have Disk].
7. The [Install From Disk] dialog box appears. In the [Copy manufacturer's files from] entry box, enter the CD-ROM directory where the driver is located (if the CD-ROM drive is E, the directory is E:\OpticalDriver\WinNT) and click [OK].



8. In the [Components] box of the [Have Disk] dialog box that appears, select [WE7033/4 Optical Interface ISA Card] and [WE7033/4/5/6 Optical Interface Control Panel], and click [Install].

By selecting the [WE7033/4/5/6 Optical Interface Control Panel] check box, the [WE7000 Optical] icon, which is used to display a confirmation dialog box for resource allocation, is created in the [Control Panel].



9. Restart the PC to allocate the resources.

[Checking the resources]

10. Check the resource allocation using [Administrative Tools (Common)] - [Windows NT Diagnostics].

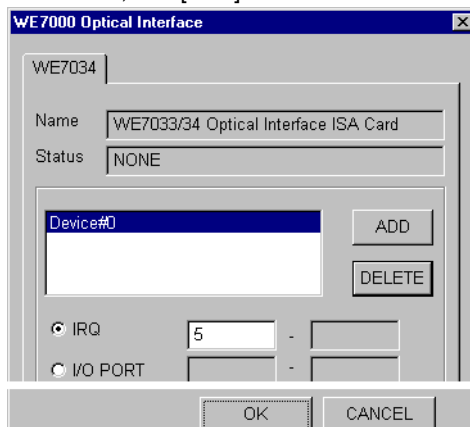
[Changing the resource allocation]

If there is a conflict in the resource allocation, reconfigure it according to the following procedure.

11. Double-click the [WE7000 Optical] icon that has been created in the [Control Panel] to start the [WE7000 Optical Interface Card Control Panel].



12. Set the IRQ number and I/O port address using the [WE7000 Optical Interface Panel]. Select [IRQ] or [I/O PORT], then enter a value that can be allocated in the right entry box. When you are finished, click [ADD].



13. Restart the PC.

For Windows 98/Me or Windows 2000 Pro

If you are using Windows 98/Me, read the file WE7033ReadmeE98Me.pdf in the \OpticalDriver\Win98 (or \WinMe) folder on the WE7000 Control Software Setup Disk (CD-ROM) that came with the measuring station. If you are using Windows 2000 Pro, read the file WE7033ReadmeE2000.pdf in the \OpticalDriver\Win2000 folder. You can also see the following Web page.

<http://www.yokogawa.com/tm/Bu/WE7000/support.htm>

3. Setting Up the Optical Interface card

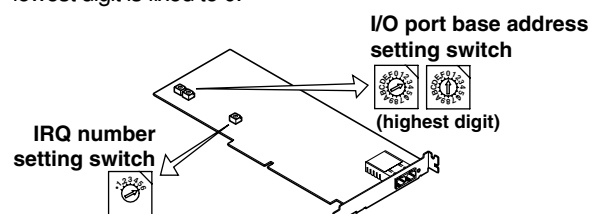
1. Configure the optical interface card to match the IRQ number and I/O port base address that were specified in the above procedures. Use the rotary switch as indicated in the following figure for this task.

Setting the IRQ number.

The optical interface card uses one IRQ number. Select a switch position from 1 to 6 that correspond to IRQ3, IRQ4, IRQ5, IRQ6, IRQ7, and IRQ10, respectively. The factory default setting is switch position 6 (IRQ10). Do not select “*” (OFF).

Setting the I/O port address

The optical interface card will occupy an area of 3 words (XX0 to XX5) in the I/O address space. The base address XX0 will be set using the rotary switch on the card. The base address can be set from 000 to FF0. The factory default setting is 300 (0300 - 0305). The left rotary switch sets the highest digit and the right rotary switch sets the next highest digit. The lowest digit is fixed to 0.



2. Install the optical interface card into the ISA expansion card connector according to the instructions in the manual for your PC.



Warning

- Turn OFF the PC and peripheral devices and remove all cables before installing the card. Otherwise, electric shock or damage may result. Check that the temperature inside the PC is adequately low before starting work. If the card is installed while the temperature is high, fire may result.
- If abnormal symptoms such as smoke, strange odors, or noise occur, turn OFF the PC immediately and unplug the power cord.
- Do not touch the surface of the optical interface card or the section that is shaded in the figure below. You can injure your skin with the IC pins, the corners and burr of the card, and the notch of the bracket.



Caution

- When opening the PC's cover, make sure to turn OFF the PC and follow the instructions given in the manual that came with the PC.
- Do not handle the optical interface card with wet hands.
- Do not disassemble or alter the optical interface card. This can damage the card. If repairs are needed, contact your nearest YOKOGAWA dealer.
- Before working, touch a grounding terminal to remove the static electricity that has built up on the surface of your body and clothes. Otherwise, static electricity may damage the optical interface card.
- When storing or transporting the optical interface card, place the card inside a conductive bag or anti-static bag. If the packaging is not adequate, the static electricity may damage the optical interface card.
- Never touch the section of the optical interface card that is to be inserted into the ISA Bus slot (the plating section). Bad contacts caused by stains can cause malfunction.
- If there is dust or other particles built up in the ISA Bus slot, clean it before installing the optical interface card.
- Be cautious not to let parts of cards installed in adjacent slots or the PC come in contact with the optical interface card. This can damage the card.
- Make sure to secure the bracket section of the optical interface card to the PC using screws. If the card happens to come out of the socket, it can cause malfunction or damage the card.

Note

For the procedures regarding the setup and operation of the WE7000 Control Software, see the PC-Based Measurement Instruments WE7000 User's Manual (IM707001-01E).