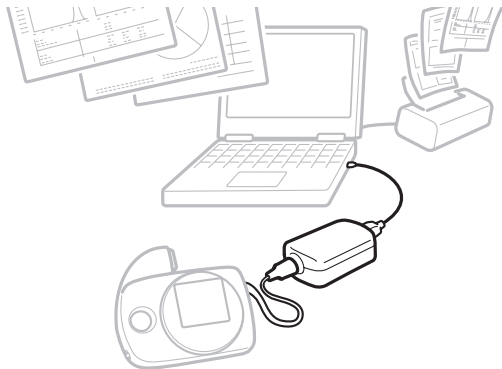




Communication Interface Unit for connecting to a computer

USB Adapter **UA-300**

Instruction Manual



This manual is the instruction manual for USB Adapter UA-300. It explains Introduction, Name of Parts and Notes, etc.

- For details of connecting to a computer or PULSOX, refer to the Installation Guide of the Data Analysis Software DS-5.

Safety Symbols

Warnings and precautions noted in this manual or the instrument are indicated by the following markings, designed to prevent accidents caused by erroneous handling of the equipment.



This indicates text consisting of a warning or precaution relating to safety. Please read the text carefully and use the equipment safely.



This indicates an action which is prohibited. The prohibited action should never be carried out, under any circumstances.



This indicates an action which is prohibited. Never disassemble the product or unit.

Safety Precautions

To ensure correct use of this instrument, read the following points carefully and adhere to them. After you have read this manual, keep it in a safe place where it can be referred to anytime a question arises.



WARNING



Do not use the instrument in places where flammable or combustible gases (anesthetic gas etc.) are present. Doing so may cause a fire.



Do not disassemble or modify the instrument and accessories. Doing so may cause a fire or electric shock.



The instrument should not be operated if it is damaged, or smoke or odd smells occur. Doing so may result in a fire. In such situations, turn OFF the power immediately, remove the battery, and contact the nearest authorized service facility.

Notes on Use

- This instrument should be used under the following operating conditions.
 - Temperature of 0 to 40°C (32 to 104°F), relative humidity of 30 to 85%, with no condensation.
 - Atmospheric pressure of 700 to 1060 hPa (altitude of -400 to 3000m).
- This is a precision instrument. To avoid the possibility of it being damaged, the instrument should not be dropped nor should heavy objects be placed on top of it.
- Do not expose this instrument to rain and water.
- Do not use the instrument on a point where there is excessive vibration. In addition, to avoid excessive impact on the instrument, it should be handled gently. Failure to observe this may cause breakdown.

- Use this USB adapter together with the data analysis software.
- Do not use any cables other than those specified by KONICA MINOLTA SENSING, INC.
- When connecting the PULSOX-300i series pulse oximeter to a computer, use this USB adapter UA-300 to connect it.
- The computer to be connected must have at least one USB port (USB1.1 or higher) as a standard accessory. The supported operating system (OS) is Windows XP, Windows 2000, Windows Me or Windows 98SE. The specifications of the computers comply with the operating environmental conditions of the data analysis software.
- Make sure that this USB adapter is connected directly to a USB port on the personal computer.

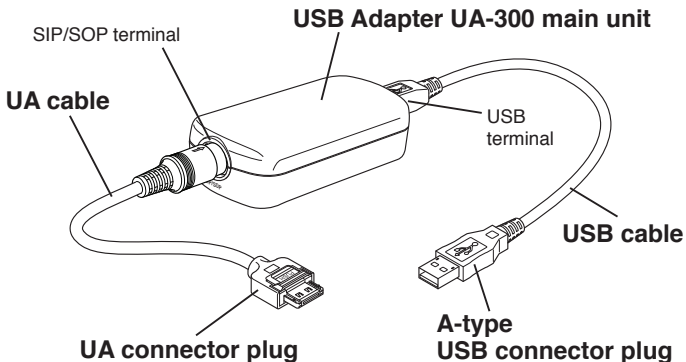
Package Contents

A package includes products as shown below.

- These components are packaged separately. Before use this adapter, connect them according to the procedure at the next page.
 - UA-300 main unit (×1)
 - UA cable for connecting to PULSOX (×1)
 - USB cable for connecting to a computer (×1)
- Regarding handling cables
 - UA cable is not sold in the market. If a broken wire or other trouble has been occurred, contact the nearest KONICA MINOLTA SENSING authorized service facilities.
 - For the USB cable, a USB AB cable up to 1 meter in length can be used instead of the original one.

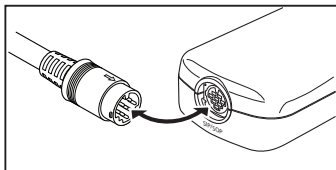
Introduction and Names of Parts

The product consists of a UA cable (to connect the product to the pulse oximeter), USB adapter UA-300, and a USB cable to connect the adapter to a personal computer.

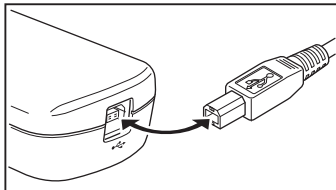


Connecting Procedure

- 1 Connect the round plug of the UA cable to the SIP/SOP terminal of the UA-300.



- 2 Connect the B-type plug of the USB cable to the USB terminal of the UA-300.



- When connecting, gently insert the cable plug straight into the connector.
- For details for connecting methods to the computer or PULSOX and specification of the computer or PULSOX, refer to the Installation Guide of Data Analysis Software DS-5.

Notes on Storage

- This instrument should be stored under the following storage conditions.
 - Temperature of -10 to 60°C (14 to 140°F), relative humidity of 10 to 95% , with no condensation.
 - Atmospheric pressure of 700 to 1060 hPa (altitude of -400 to 3000m).
- When storing the instrument:
 - Do not store the instrument in an area where it will be exposed to water.
 - Do not store the instrument in an area where direct sunlight, pressure, temperature, humidity, ventilation, sunlight, dust, strong magnetic fields, and/or saline or sulphurous atmospheres may affect the instrument.
 - Do not store the instrument on an inclined surface or on a surface which may be subject to vibrations or physical shock. (Also avoid vibrations or physical shock during transportation.)
 - Do not store the instrument in areas where chemicals are stored or where gas may be emitted.
- This USB adapter is powered from the pulse oxymeter and personal computer via the UA and USB cables. Before storing this USB adapter, make sure that these cables are disconnected and the power is turned OFF.

- To avoid any problems occurring the next time the instrument is used, make sure the instrument, cords, and other accessories are cleaned and stored safely.

Disposal Method

- The used adapter should be disposed of in accordance with local laws and regulations.

Maintenance and Inspection

- Before using the adapter, make sure that there is no damages to the adapter, no damage or wire-breakage in the connection cables and it operates correctly and safely.

Cleaning

- Dampen a soft cloth with neutral detergent or water, wipe the instrument with it, then wipe off carefully with a dry cloth. In this way, make sure the instrument is cleaned and never use sol-vent.
When cleaning, take care not to touch the connector terminals. Touching them may break terminal pins, resulting in breakdown or damage.

Specifications

■ Model Name USB Adapter UA-300

■ Main Functions

Acts as an interface to convert the communication protocol when the pulse oximeter is connected to a computer.

■ Operating Conditions

- Temperature of 0 to 40°C (32 to 104°F), relative humidity of 30 to 85%, with no condensation.
- Atmospheric pressure of 700 to 1060 hPa (altitude of –400 to 3000m).

■ Storage Conditions

- Temperature of –10 to 60°C (14 to 140°F), relative humidity of 10 to 95%, with no condensation.
- Atmospheric pressure of 700 to 1060 hPa (altitude of –400 to 3000m).

■ Connecting devices

- PULSOX-300i series oximeters
- A computer that has a USB port (USB1.1 or higher) as a standard accessory

* For supported instrument models and specification of a computer, refer to the specifications of the data analysis software.

■ Dimensions (W × H × D), size, or cable length (unit: mm)

- UA-300 main unit: 47 × 90 × 25mm
- UA cable: 300mm length cable
- USB cable: 1000mm length cable

■ Weight

72g (without cables)

■ Warranty period

1 (one) year after purchase

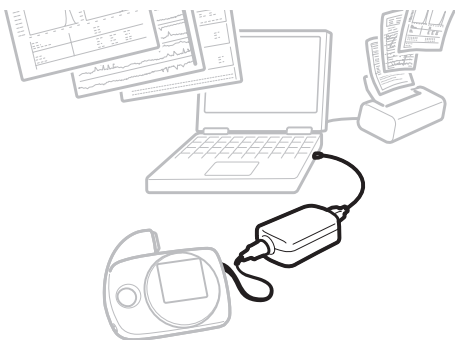
KONICA MINOLTA SENSING, INC.



Communication Interface Unit for PULSOX-300i

USB Adapter **UA-300**

Setting-up Guide



This manual explains for using a UA-300 interface unit that should be used with PULSOX-300i series pulse oximeters for connecting to the computer.

- Introduction and Preparation 4
- Connecting to the computer and installing the USB driver 5
- Connecting to PULSOX-300i series pulse oximeter 10
- Notes 10
- Specifications 13
- Uninstalling the USB driver 14

Before using the UA-300, read the manuals of the PULSOX-300i series pulse oximeter and the computer as well as this manual to use the equipment correctly and safely.

Safety Symbols

Warnings and precautions noted in this manual and the instrument are indicated by the following markings, designed to prevent accidents caused by erroneous handling of the equipment.



This indicates text consisting of a warning or precaution relating to safety. Please read the text carefully and use the equipment safely.



This indicates an action which is prohibited. The prohibited action should never be carried out, under any circumstances.



This indicates an action which is prohibited. Never disassemble the product or unit.

Registered Names and Trademarks

Registered names for products appearing in this manual are as follows.

Windows XP	Microsoft®Windows® XP Operating System
Windows 2000	Microsoft®Windows® 2000 Professional Operating System
Windows Me	Microsoft®Windows® Millenium Edition Operating System
Windows 98 SE	Microsoft®Windows® 98 Second Edition Operating System

*In this manual, "Windows" is sometimes used as a general name to cover the Windows operating systems above.

Trademarks

- Microsoft and Windows are either trademarks or registered trade-marks of Microsoft Corporation in the USA and other countries.
- Other product names and trademarks appearing in this manual are the property of their respective owners.

Remarks

In this manual, it explains how to install or uninstall the USB driver on a computer with Windows XP. In the case of other OS, the method of installing or uninstalling the driver and the displays are different from the explanation in this manual.

Notes on This Manual

- Copying or reproduction of all or any part of the contents of this manual without KONICA MINOLTA SENSING's permission is strictly prohibited.
- The contents of this manual are subject to change without prior notice.
- Every effort has been made in the preparation of this manual to ensure it is correct. However, should you have any questions or find errors or omissions, please contact a KONICA MINOLTA SENSING authorised service facility.
- KONICA MINOLTA SENSING will not accept responsibility for any consequences arising as a result of not using this software according to this manual.

Safety Precautions

To ensure correct use of this instrument, read the following points carefully and adhere to them. After you have read this manual, keep it in a safe place where it can be referred to any-time a question arises.



WARNING (Failure to adhere to the following points may result in death or serious injury.)



Do not use the instrument in places where flammable or combustible gases (anesthetic gas etc.) are present. Doing so may cause a fire.



Do not disassemble or modify the instrument and accessories. Doing so may cause a fire or electric shock.



The instrument should not be operated if it is damaged, or smoke or odd smells occur. Doing so may result in a fire. In such situations, turn OFF the power immediately, remove the battery, and contact the nearest authorized service facility.

Introduction and Preparation

Introduction

The product consists of a UA cable (to connect the product to the pulse oximeter), USB adapter UA-300, and a USB cable to connect the adapter to a personal computer. These components are packaged separately. Before use this adapter, connect them according to the procedure below.

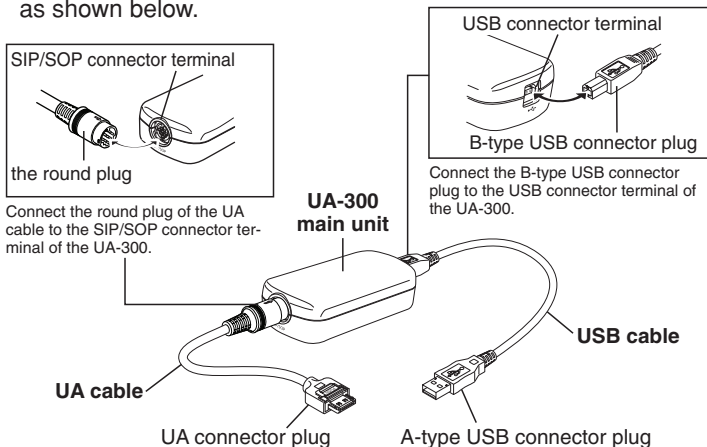
Package contents

A package includes products as shown below.

- UA-300 main unit (×1)
- UA cable for connecting to PULSOX (×1)
- USB cable for connecting to a computer (×1)
- Setting-up guide (This manual) (×1)
- USB driver CD (×1)

Preparation

Connect the UA cable and USB cable to the UA-300 main unit as shown below.



Connecting to the computer and installing the USB driver

System Requirements

To use the UA-300 by connecting it to a personal computer, make sure that the personal computer has at least one USB port (USB1.1 or higher) as a standard accessory.

*If the personal computer has two or more USB ports, make sure that no other USB devices are connected when the UA-300 is used. If any other USB devices are connected, the UA-300 may not be properly recognized, hindering correct operation.

Applicable Operating Systems (OS):

Windows XP, Windows 2000, Windows Me, or Windows 98SE

*Windows XP Pro64 (Professional x64 Edition) is not supported.

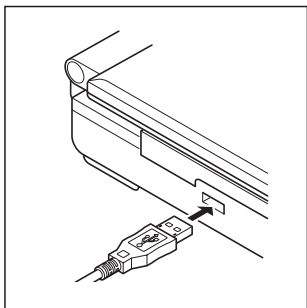
The other performance items of the personal computer must comply with the system requirements of the software used.

Connecting the UA-300 to the computer

Connect the A-type USB connector of the UA-300 to the USB port terminal of the computer.

*Since the UA-300 is hot-pluggable, it is not necessary to power OFF the computer.

*Since the UA-300 is electrically isolated internally, the UA-300 can be connected to PULSOX-300i series before it is connected to the personal computer.



Installing the USB driver

When the UA-300 is connected to the computer, Windows recognizes it automatically and starts installation of the USB driver. Install the driver software as explained below.

*When connecting the UA-300 to a computer that has two or more USB port terminals, the USB driver must be installed for each.

*When installing the USB driver to the computer which is running Windows 2000 or Windows XP, login as a user with Administrator rights.

1 If the computer has been turned OFF, turn it ON to start Windows.

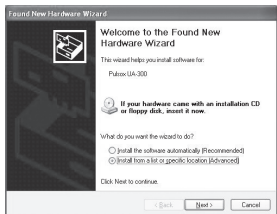
The UA-300 will be recognized and installation of its driver will start.

- ◆ In the case of Windows XP, a dialog box asking you to select whether to access Windows Update may appear. Since the USB driver for UA-300 cannot be installed using Windows Update, check the “No, not this time” checkbox and click “Next”.



- ◆ If an incorrect selection is made and Windows Update is connected, note that the USB driver for UA-300 will not be installed.

2 The [Found New Hardware Wizard] dialog box will appear to allow selection of the driver installation method.



6 Select “Install from a list or

specific location (Advanced)” and then click “Next”.

Do not select “Install the software automatically (Recommended)”. In this case, the computer will not find the correct driver to run UA-300 properly.

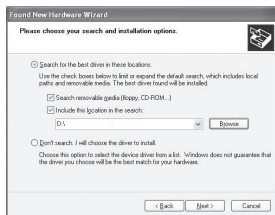


- ◆ When the computer cannot find the correct driver and install it, a dialog box stating that will appear. In this case, click “Back” to go back to “Found New Hardware Wizard” dialog box, and select “Install from a list or specific location (Advanced)” again.
- ◆ In the case of Windows 98SE or Windows 2000, the dialog box which allows selecting the method of installation will not appear. Click “Next” to go to the next step.

3 Insert the USB driver CD into an optical drive (e.g. CD-ROM drive) of the computer.

4 Specify the desired driver search method.

Select “Search for the best driver in these locations”, check “Include this location in the search:” check box, and input the drive letter for the optical drive (e.g. D:¥) in the textbox.



- ◆ If you do not know the drive letter for the optical drive, click “Browse” to open “Browse For Folder” dialog box, specify the optical drive, and then click “OK”. The textbox will show the specified drive letter of the optical drive.
- ◆ In the case of Windows 98SE or Windows 2000, select the method of finding the driver in the first dialog box, and specify the location for finding the driver on the next dialog box.

In the first dialog box, select “Search for the best driver for your device (Recommended)” and then click “Next”.

Do not select “Display a list of all the drivers in a specific location...” to install the correct driver for UA-300.



In the next dialog box, check the “Specify a location:” check-box, and then enter the path of the USB driver in the USB driver CD or click “Browse” to specify the location of the optical drive where the USB driver CD is inserted.

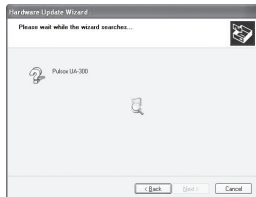


At that time, in the case of Windows 2000, click “Next” after selecting how to find the driver, and specify the location of the optical drive where the USB driver CD is inserted.

5 Click “Next” to start searching the USB driver for the UA-300.

The USB driver for the UA-300 on the USB driver CD will be detected and then installation will start.

- ◆ In the case of Windows XP, a message informing you that the driver is not authorised by Microsoft Corporation will appear. Ignore this and click on “Continue Anyway” to continue.
- ◆ In Windows 98SE, [Insert Disk] message box asking you to insert the USB driver CD will appear. Click “OK” to close the message and continue.



6 When the installation of the driver has finished, the “Completing the Found New Hardware Wizard” dialog box will appear.

Click “Finish” to exit the wizard.

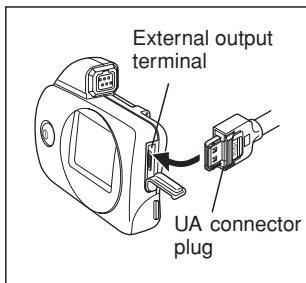
- ◆ Whether the USB driver has been installed correctly or not can be checked by Device Manager.
- When the installation of the USB driver for UA-300 is completed correctly, UA-300 can be used as the interface for communication between the computer and the PULSOX-300i series oximeters.

After the software is installed, the CD-ROM must be kept in a safe place.

Connecting to PULSOX-300i series oximeter

To connect the UA-300 and PULSOX-300i series pulse oximeter, use the UA cable to connect the UA connector plug to the external output terminal of the PULSOX.

- The output terminal of PULSOX-300i is protected with connector cover. Remove the connector cover to expose the connector, align the connectors properly, and carefully connect them in a straight line without forcing them.
- Since the UA-300 is electrically isolated internally, it can be connected to PULSOX-300i series while connected to the computer.
- When connecting the PULSOX-300i to the UA-300, the power of the instrument will be set to OFF automatically.
- If connecting the PULSOX-300i with the power off, turn the power ON after connecting.
- When connecting the PULSOX-300i and turning the power ON, "UA" indicating that the PULSOX-300i is in UA communication mode will appear.



Notes

Notes on Use

- This instrument should be used under the following operating conditions.
 - Temperature of 0 to 40°C (32 to 104°F), relative humidity of 30 to 85%, with no condensation.

- Atmospheric pressure of 700 to 1060 hPa (altitude of –400 to 3000m).
- This is a precision instrument. To avoid the possibility of it being damaged, the instrument should not be dropped nor should heavy objects be placed on top of it.
- Do not expose this instrument to rain and water.
- Do not use the instrument on a point where there is excessive vibration. In addition, to avoid excessive impact on the instrument, it should be handled gently. Failure to observe this may cause breakdown.
- When connecting the PULSOX-300i series pulse oximeter to a computer, use this USB adapter UA-300 to connect it.
Use this USB adapter together with the data analysis software.
- Do not use any cables other than those specified by KONICA MINOLTA SENSING.
- The computer to be connected must have at least one USB port (USB1.1 or higher) as a standard accessory. The supported operating system (OS) is Windows XP, Windows 2000, Windows Me or Windows 98SE. The specifications of the computers comply with the operating environmental conditions of the data analysis software.
*Make sure that this USB adapter is connected directly to a USB port on the personal computer.

Notes on Storage

- This instrument should be stored under the following storage conditions.
 - Temperature of –10 to 60°C (14 to 140°F), relative humidity of 10 to 95%, with no condensation.
 - Atmospheric pressure of 700 to 1060 hPa (altitude of –400 to 3000m).
- When storing the instrument:
 - Do not store the instrument in an area where it will be exposed to water.
 - Do not store the instrument in an area where direct sunlight,

pressure, temperature, humidity, ventilation, sunlight, dust, strong magnetic fields, and/or saline or sulphurous atmospheres may affect the instrument.

- Do not store the instrument on an inclined surface or on a surface which may be subject to vibrations or physical shock. (Also avoid vibrations or physical shock during transportation.)
 - Do not store the instrument in areas where chemicals are stored or where gas may be emitted.
- This USB adapter is powered from the pulse oximeter and personal computer via the UA and USB cables. Before storing this USB adapter, make sure that these cables are disconnected and the power is turned OFF.
- To avoid any problems occurring the next time the instrument is used, make sure the instrument, cords, and other accessories are cleaned and stored safely.

Disposal Method

- Make sure that the instruments or cables are either disposed of or recycled correctly in accordance with local laws and regulations.

Maintenance and Inspection

- Before using the instrument, make sure that there is no damage to the instrument, no damage or wire-breakage in the cable and the instrument operates correctly and safely.

Cleaning

- Dampen a soft cloth with neutral detergent or water, wipe the instrument with it, then wipe off carefully with a dry cloth. In this way, make sure the instrument is cleaned and never use solvent.

When cleaning, take care not to touch the connector terminals. Touching them may break terminal pins, resulting in breakdown or damage.

Specifications

■ **Model Name** USB Adapter UA-300

■ **Main Functions**

Acts as an interface to convert the communication protocol when the pulse oximeter is connected to a computer.

■ **Operating Conditions**

- Temperature of 0 to 40°C (32 to 104°F), relative humidity of 30 to 85%, with no condensation.
- Atmospheric pressure of 700 to 1060 hPa (altitude of -400 to 3000m).

■ **Storage Conditions**

- Temperature of -10 to 60°C (14 to 140°F), relative humidity of 10 to 85%, with no condensation.
- Atmospheric pressure of 700 to 1060 hPa (altitude of -400 to 3000m).

■ **Connecting devices**

PULSOX-300i series oximeters

A computer that has a USB port (USB1.1 or higher) as a standard accessory

*For supported instrument models and specification of a computer, refer to the specifications of the data analysis software.

■ **Power Supply**

Power is supplied via the connector from the connected devices (PULSOX-300i and the computer)

■ **Dimensions (W × H × D), size, or cable length (unit: mm)**

- UA-300 main unit: 47 × 90 × 25mm
- UA cable: 300mm length cable
- USB cable: 1000mm length cable

■ **Weight**

72g (without cables)

■ **Warranty period**

1 (one) year after purchase

Uninstalling USB driver

The USB adapter UA-300, which is used for communication with PULSOX-300i series, is recognized as a USB device by the computer. It is not necessary to remove the USB driver for UA-300 even if data analysis software is uninstalled. However, if you want to remove it, it can be uninstalled as follows.

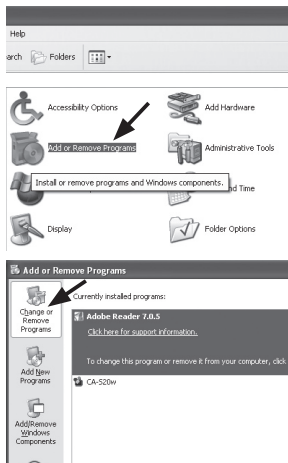
- Uninstallation of the USB driver for the UA-300 can be performed without connecting UA-300 to the computer.
- ◆ To uninstall the USB driver in Windows 2000 or Windows XP, login as a user with Administrator rights.

USB Driver for UA-300 Uninstallation Procedure

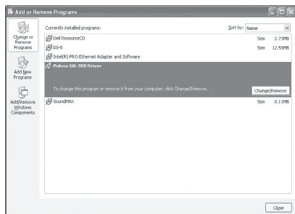
1 Turn ON the computer and start Windows.

2 Double-click the [Add or Remove Programs] icon in the [Control Panel] window.

The [Add or Remove Programs] dialog box will appear.



3 From the software list displayed in the [Currently Installed Programs] field, find the “PULSOX UA-300 Driver” and click to activate it.



- ◆ When the driver is activated, the application name field will be enlarged and highlighted, causing the [Change/Remove] button to appear.

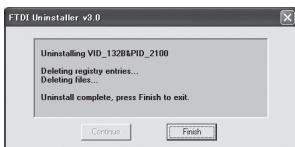
4 Click the [Change/Remove] button.

A message asking you whether to remove the driver will appear.



- ◆ If you click “Continue”, uninstallation of the driver will start. To stop uninstallation, click “Cancel”.
- ◆ Before starting uninstallation of the driver by clicking “Continue”, remove the USB cable of UA-300 from the computer so that the hardware will not be recognized after uninstallation of the USB driver.

5 When uninstallation is complete, a dialog box showing what has been removed will appear. Click “Finish” to exit uninstallation.



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