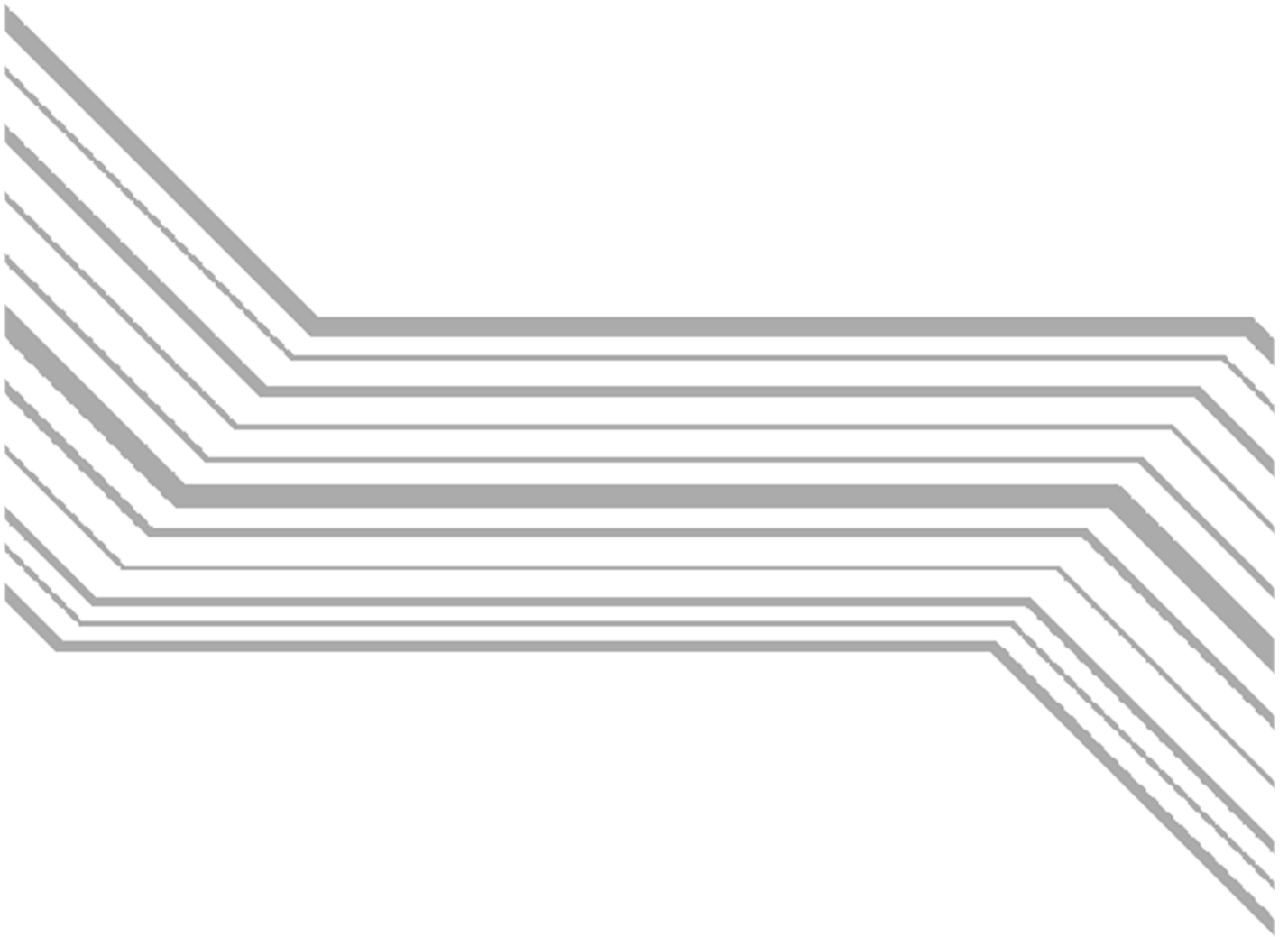


***DENSO***



***Active USB-COM Port Driver***

**Installation Guide**

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# Preface

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This manual describes installation/uninstallation of Active USB-COM Port Driver. Please read first before using devices those need Active USB-COM Port Driver.

## ■ Obtaining This Product and the Latest Information

This product and the latest information can be obtained by accessing the below URL.

<http://www.qbdirect.net/>

Those customers who have purchased DENSO WAVE products can obtain more detailed information from our exclusive Web site for registered users (QBdirect). Please refer to the following URL.

<http://www.qbdirect.net/>

## ■ Related Publications

Operator's Guide and User's Manual of the USB devices made by DENSO WAVE that use Active USB-COM Port Driver.

## ■ Screen Indication

The lettering in the screens in this manual is a little different from that in the actual screens. Device names used are only for description purpose, so they will not appear if you have not set devices having those names.

## ■ Intellectual Property Precaution

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# Contents

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<b>1.</b>	<b>OVERVIEW OF ACTIVE USB-COM PORT DRIVER.....</b>	<b>1</b>
1.1	USAGE ENVIRONMENT .....	1
1.2	FEATURES .....	2
1.3	NOTICE .....	2
1.4	DIFFERENCES FROM USB-COM PORT DRIVER 1.X .....	2
<b>2.</b>	<b>INSTALLATION .....</b>	<b>3</b>
2.1	STEPS OF INSTALLATION .....	3
2.2	[STEP1] INSTALLATION OF VIRTUAL SERIAL PORT DRIVER.....	4
2.3	[STEP2] INSTALLATION OF USB DRIVER .....	6
2.4	IMPORTANT POINTS OF INSTALLATION ON WINDOWS VISTA.....	7
2.5	HOW TO UNPLUG THE HARDWARE IN SAFETY.....	7
2.6	CHANGING THE COM PORT NUMBER.....	7
<b>3.</b>	<b>UNINSTALLATION .....</b>	<b>8</b>
3.1	UNINSTALLATION OF ACTIVE USB-COM PORT DRIVER.....	8

# 1. Overview of Active USB-COM Port Driver

This section describes the overview of Active USB-COM Port Driver.

## 1.1 Usage environment

### ■ Supported Windows OS (When the issued of this edition)

Windows Vista (32bit), Windows 7 (32bit/64bit),  
Windows 8 (32bit/64bit), Windows 8.1 (32bit/64bit)

**TIP:**

The latest information of the supported Windows OS can be obtained by accessing the below URL.

<http://www.qbdirect.net/>

### ■ Supported Devices (When the issued of this edition)

The operations of the following USB devices made by DENSO WAVE have been checked with Active USB-COM Port Driver.

**TIP:**

The latest information of the supported products can be obtained by accessing DENSO WAVE products web site or the below URL.

<http://www.qbdirect.net/>

Product	Models
2D Code Scanner	QK12-U, QK20-U, QK21-U, QK30-U, QK31-U, QB30-SU, QB31-SU GT10Q-SU, GT15Q-HU, GT20Q-SM(U) AT10Q-SM/HM, AT20Q-SM(U), AT21Q-SM(U), AT25Q-SM(U), AT26Q-SM(U),
Bar Code Handy Scanner	HC56TU, HC56IITU, GT10B-SU, GT11B-SU, AT20B-SM(U), AT21B-SM(U)
Bar Code Handy Terminal <sup>*1</sup>	BHT-900 Series, BHT-1300 Series
Communication Unit	CU-521, CU-621, CU-821, CU-921, CU-1321 <sup>*2</sup>
Bluetooth Communication Adapter	BA10-RKU, BA11-RKU, BA20-RU

<sup>\*1</sup> Case that the USB connector of the side of the BHT body is used as a COM port.

<sup>\*2</sup> The CU-1321 only is not recognized as the USB device. Please hold the BHT-1300 on the CU-1321.

## 1.2 Features

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Active USB-COM Port Driver has following features.

- The USB device can be removed from the PC USB port while the application opens the Serial Port with which the USB device is connected. (It will be kept opening when the USB device is plugged into the USB Port again.)
- The Virtual Serial COM Port is always existed on PC even if the USB device is removed from the PC USB Port, so that the Serial Port can be opened anytime.
- On the task tray or the Device Manager, the COM port is confirmed which port the USB device is connected with.

## 1.3 Notice

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Precautions in using Active USB-COM Port Driver are as follows:

- Please install the Active USB-COM Port Driver as the Administrator.
- The USB device can be removed and plugged into PC during communication. (COM port is opened.) However, communication data are lost while the USB device is removed. Please recovery the lost data with your application.
- The multiple use of the USB device is available when this driver is installed at the multiple times. However, this driver can not be individually uninstalled. (All the installed drivers are uninstalled at one time at the Windows Control Panel "Programs and Features" utility.)

## 1.4 Differences from USB-COM Port Driver 1.x

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The differences between Active USB-COM Port Driver and USB-COM Port Driver 1.x are shown on the below table.

Function	Active USB-COM(Ver. 2.x)	USB-COM(Ver. 1.x)
Need for the operation of "safely remove the USB device" when the USB device is removed	No need	Need
Serial Port Number release when the USB device is removed	Non-release	Release
Plugging the USB device into/off, during communication (COM Port is opened)	Possible	Impossible

### Note:

When using USB-COM Port Driver 1.x, if the connection of the USB device is checked with your application software, the check algorithm may be re-made. Understand the features of Active USB-COM Port Driver and match them.

## 2. Installation

This section describes how to install Active USB-COM Port Driver.

**TIP:**

Here, the uninstallation step of Windows 8.1 is described. The other Windows OS are same this step, too..

**Note:**

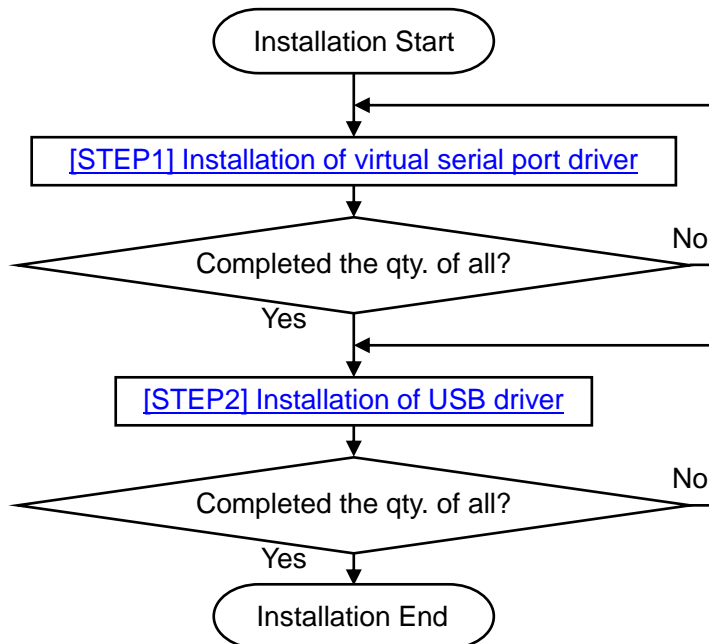
If a new device driver is started to search on Windows update site automatically, quite a bit of time for search is spent. The above problem may be improved with setting to skip the search of Windows Update. About setting it, comply with the OS specification.

### 2.1 Steps of installation

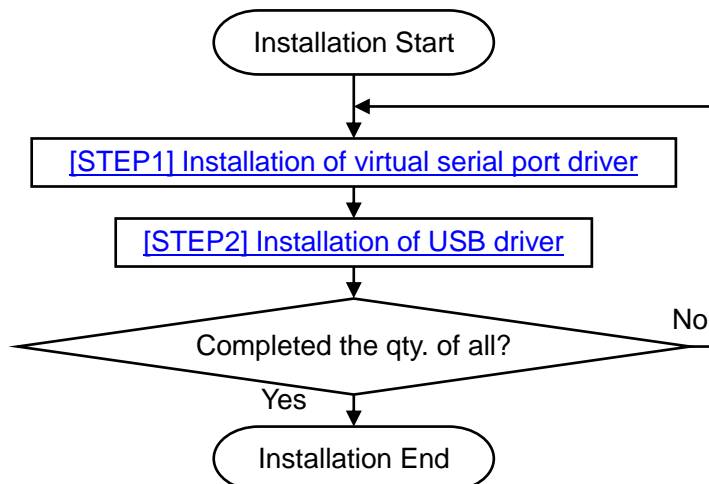
This driver consists of the virtual serial port driver and the USB driver.

The steps of the driver's installation are following. Please comply with the below steps.

■ The case that the number of the connected USB device is determined



■ The case that one USB device is added repeatedly

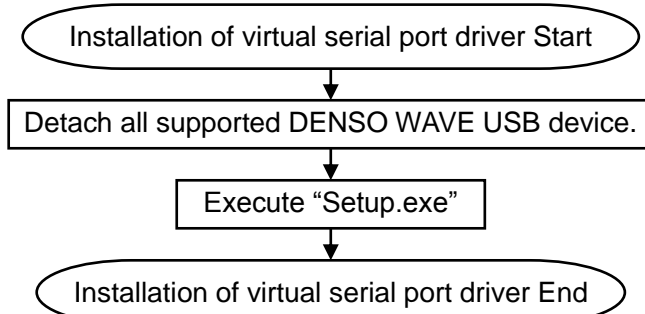


**Note:**

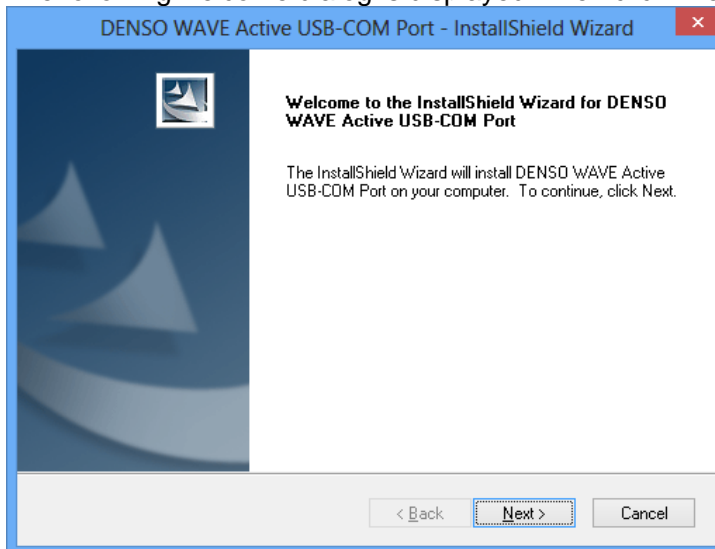
- If you use multiple USB ports, please execute "Setup.exe" in each USB port. The more you execute "Setup.exe", the more you can add COM ports.
- Multiple USB ports cannot be assigned to 1 COM port.
- If you use multiple USB ports even if you use 1 USB device, you should add the COM port as same number as USB ports you use by executing the "Setup.exe".
- When many COM ports are made, the load may depend on the PC. Please confirm that you do not have any problem by test use.
- In case of the PC that supported USB2.0 Specification, the two USB controllers (EHCI and UHCI (or OHCI)) are assigned to 1 USB port. In this case, the USB port is assigned the different COM port number in via EHCI and via UHCI (or OHCI). If you use separate the COM port numbers, please execute "Setup.exe" twice.

## 2.2 [STEP1] Installation of virtual serial port driver

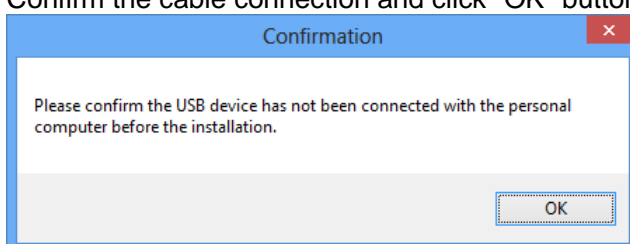
To install the virtual serial port driver, please execute "Setup.exe". The step is as below.



- 1) Execute "Setup.exe". The user account control message window is displayed. Then click "Yes" button.
- 2) The following welcome dialog is displayed. Then click "Next>" button.



- 3) Confirm a target USB device not connecting with PC. Confirm the cable connection and click "OK" button.

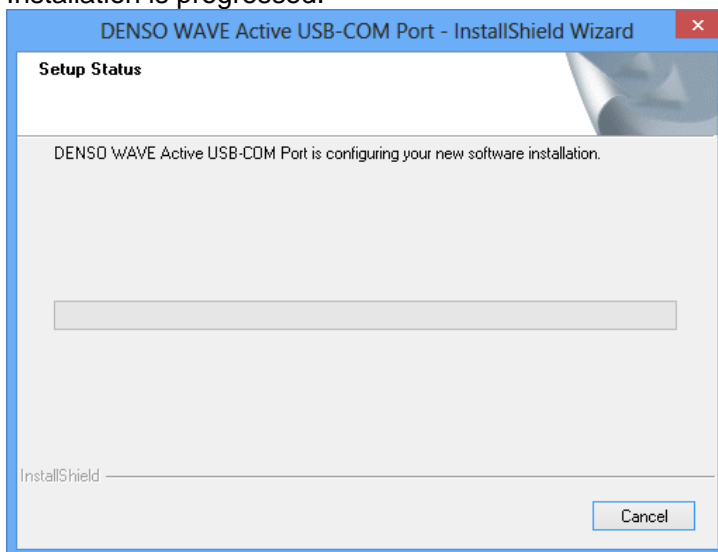




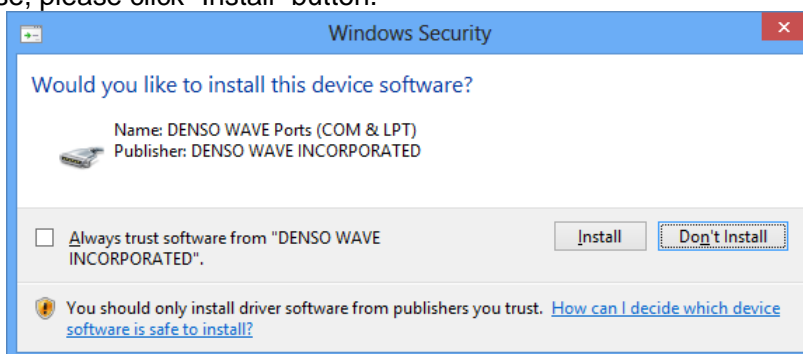
**Note:**

Even if it is the installation for the second device, please confirm detachments of all devices that use this driver.

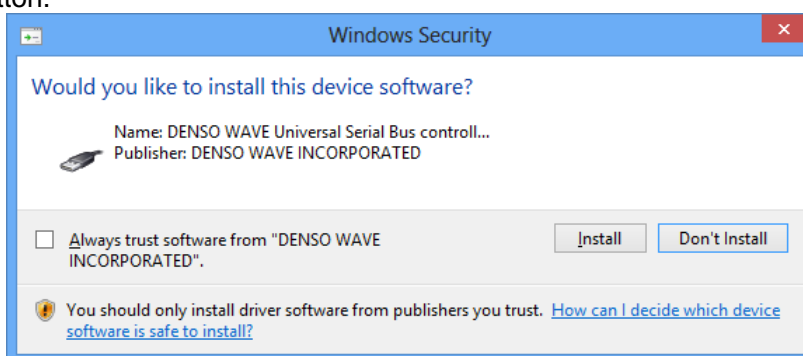
4) Installation is progressed.



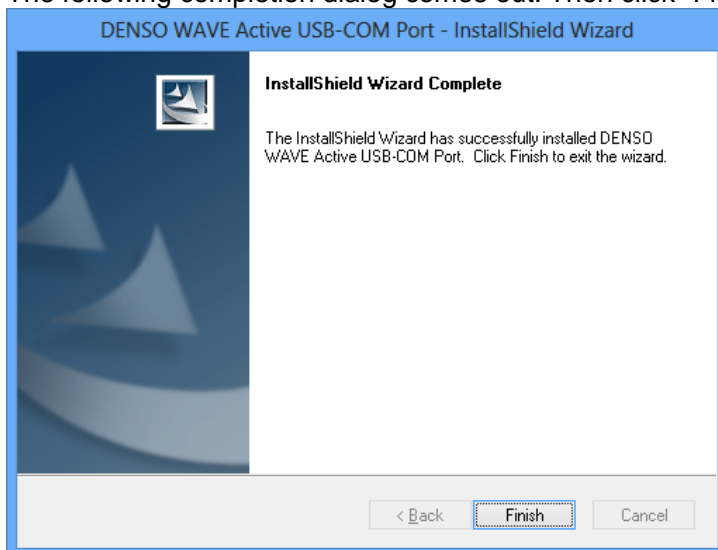
When the installation is started, the following message window might be displayed. In this case, please click "Install" button.



And then, the following message window might be displayed. In this case, please click "Install" button.

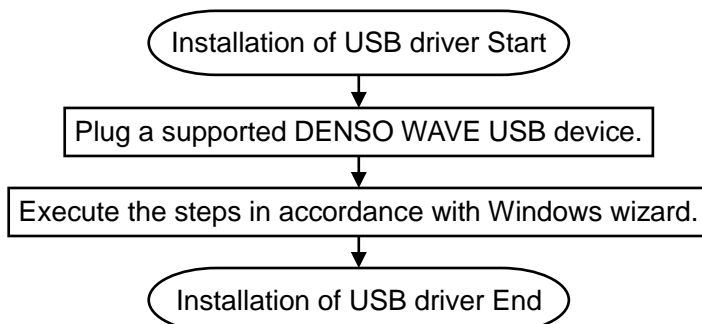


- 5) The following completion dialog comes out. Then click “Finish” button.

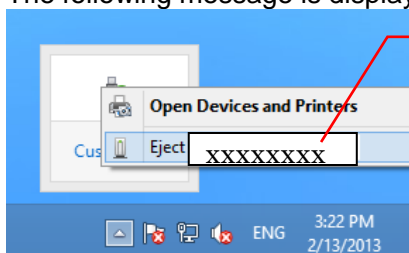


## 2.3 [STEP2] Installation of USB driver

To install the USB driver, please plug a USB device in the USB port. The step is as below.

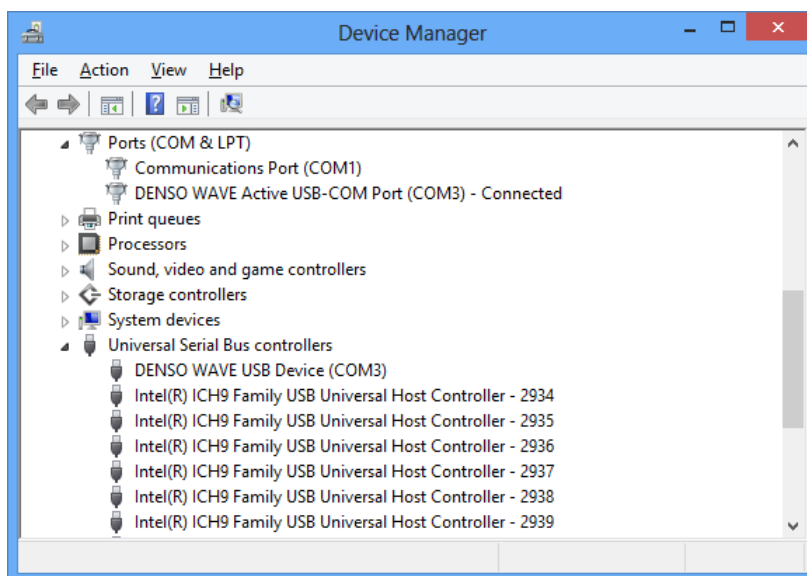


- 1) Connect a target USB device to your PC.
- 2) The following message is displayed on Task Bar and the installation is finished.



CU-621 and CU-821 are displayed as “USB Device CU-521”.  
BHT-1300 on CU-1321 is displayed as “USB Barcode Handy Terminal”.  
1D/2D Scanners are displayed as “USB Device ”.

- 3) Open the status. The following window is displayed.



## 2.4 Important points of installation on Windows Vista

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When this driver is installed on Windows Vista, you often might see the message window to check the permission of installation. In this case, please permit all installation.

In case of Windows Vista, the installation check of the USB driver occurs on STEP2. (Please note since the step is different from Windows 8.1/8/7).

## 2.5 How to unplug the hardware in safety

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If you need to confirm the status of the USB device or unplug the device under USB device connection, the message "Unplugging DENSO WAVE USB Device (COMx) in safety" is displayed on the task tray.

## 2.6 Changing the COM port number

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You can change the COM port number on the device manager.

**Note:**

In installation, the unused smallest COM port number is assigned. In case of changing a COM port number manually, the unused COM port number that is equal to COM1 or more than can be assigned.

You should change the COM port number after removing the device.

In case though you change the COM port number, the display of device manager or task tray icon is not be updated, please make the imaginary serial port enable after making the port disable temporally in order to update the display of COM port number.

## 3. Uninstallation

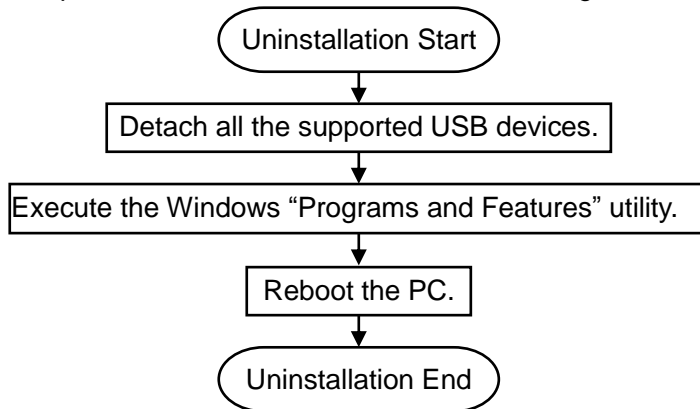
This section describes how to uninstall Active USB-COM Port Driver.

**TIP:**

Here, the uninstallation step of Windows 8.1 is described. The other Windows OS are same this step, too..

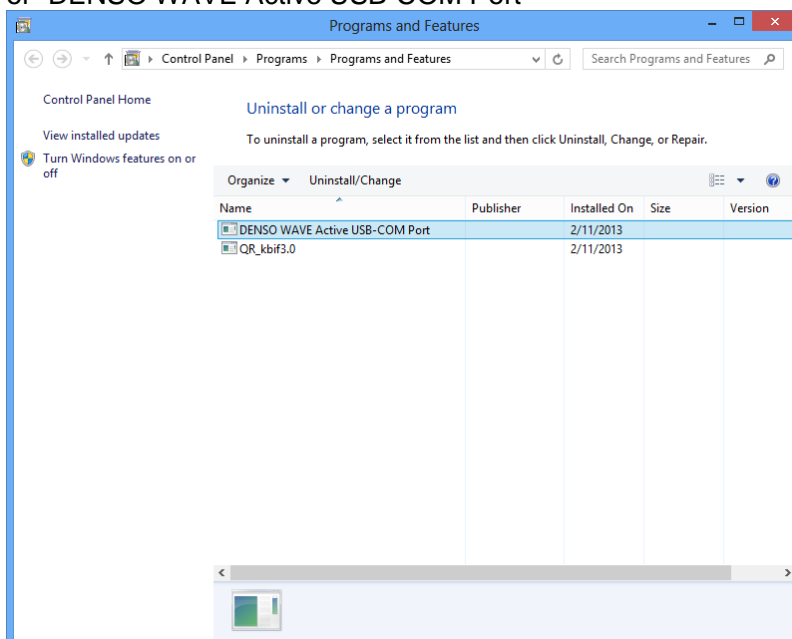
### 3.1 Uninstallation of Active USB-COM Port Driver

The steps of the driver's uninstillation are following. Please comply with the below steps.

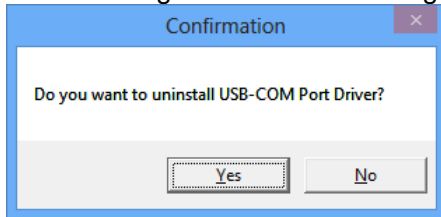


**Note:**

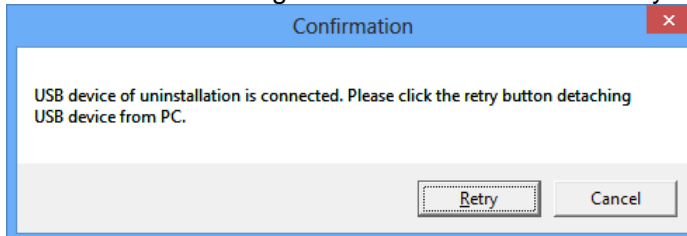
- When two or more devices that use this driver for the same PC are installed, the driver uninstallation means uninstalling all USB devices that use the Active USB-COM Port Driver. So, you cannot remove a device selectively.
- 1) Close all software that use Active USB-COM Port Driver, and detach all the supported USB devices.
  - 2) Open "Add or Remove Programs" form control panel and click "Change/Remove" button of "DENSO WAVE Active USB-COM Port"



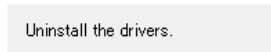
- 3) The following confirmation message comes out. Then click "Yes" to start uninstallation.



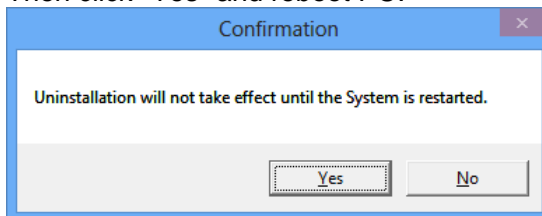
- 4) If the following message is displayed, the target USB device is still connecting. Please detach the target USB device and click "Retry" button.



- 5) While uninstallation is progressed, the following message is displayed.



- 6) After uninstallation is finished, the following confirmation dialog come out. Then click "Yes" and reboot PC.



Active USB-COM Port Driver  
Installations Guide

11th Edition, May 2015

DENSO WAVE INCORPORATED

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The purpose of this manual is to provide accurate information in the installation and uninstallation of Active USB-COM Port Driver. Please feel free to send your comments regarding any errors or omissions you may have found, or any suggestions you may have for generally improving the manual.

In no event will DENSO WAVE be liable for any direct or indirect damages resulting from the application of the information in this manual.