

CVD Quick Installation Guide

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J&D Tech Co., Ltd.

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Revision History

Date	Update	Author
2012. 04	First Release	Julie, Kim
2012. 08	Add information about CVD v3.1	Julie, Kim
2013.07	Updated	Quan Long
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CVD Quick Installation Guide :

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Preface

This document provides guideline for users to start using CodeViser. It describes how to install CVD(S/W) and USB driver and update the firmware.

Recommended System Requirements:

- MS Windows98 or later version (32bit/64bit)
- Pentium 400MHz CPU (1GHz is recommended)
- More 128MB RAM(256MB is recommended)
- More 256MB HDD space(512MB is recommended)
- USB port

Please keep installing after checking this document carefully.

This document is based on CVD v3.1.

If you have any installation issue with CodeViser/CVD, please feel free to contact J&D Tech support team or visit homepage. The latest CVD package is supported through the homepage.

- Support Number : 031-217-7126, 7127
- Homepage : <http://www.jndtech.com>

Typographical conventions

The following is a list of typographical conventions used in this document :

Bold

Is used to show the emphasize some part of contents.

ex) Please make sure **update firmware** of CodeViser after installed new version of CVD.

Constant Width

Is used to show the contents of source code or script files.

ex) `void call2(void)`
`{`
 `printf("in call2 function\n");`
`}`

Typewriter

Is used to show user input, such as command line interface.

ex) **SElectBREAK %PROGRAM %HW**

Text Box

Is used to show matters that require attention or additional information about contents.

ex)

Don't switch on CodeViser before installing CVD. Otherwise, CodeViser USB driver might not be installed correctly.

1. CVD Installation - New

Following is how to install CVD (CodeViser Debugger) for CodeViser / CodeViser-RT on PC at first.

1.1. Prepare Install Package

CVD install package is a CodeViser JTAG emulator software-only debugger. It is supported with CodeViser. If CVD is not the latest version when purchasing, you can download the latest version CVD through JnDTech homepage (<http://www.jndtech.com>).

CVD is classified in several install packages according to types of processor core or the product as [Table 1-1]. It is needed to prepare the proper install package.

[Table 1-1] CVD Install Packages

Division		Form	File
ARM	CodeViser	CVD_Vx.x_yyyy_mmdd.exe	 CVD_V3.30_2014_0715.exe
	CodeViser_64bit	CVD64_Vx.x_yyyy_mmdd.exe	 CVD64_V1.00_2014_0619.exe
	CodeViser-RT	CodeViser_RT_Vx.x_yyyy_mmdd.exe	 CodeViser_RT_V3.0_2012_0813.exe
ANDES		CVD_ANDES Vx.x_yyyy_mmdd.exe	 CVD_ANDES_V2.01_2014_0730.exe
QDSP6		CodeViser_QDSP6_Vx.x_yyyy_mmdd.exe	 CodeViser_QDSP6_V1.10_2012_1214.exe

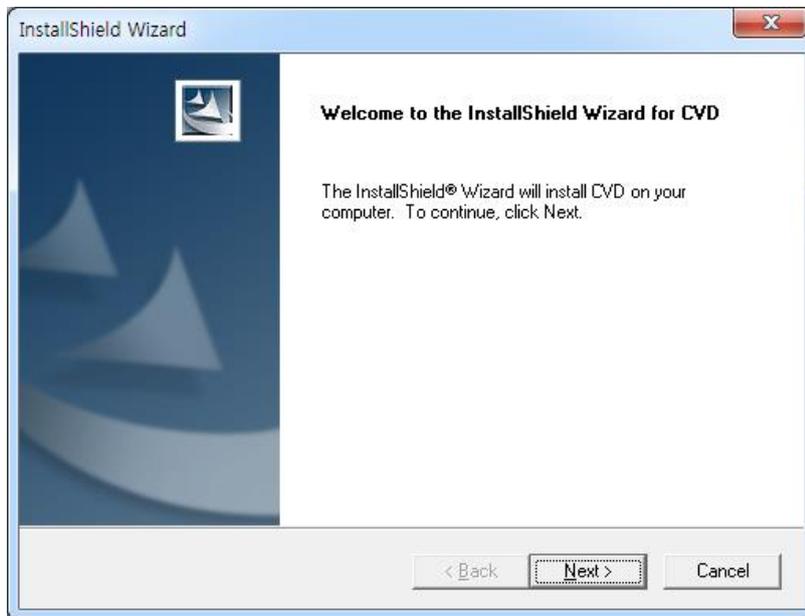
TriCore	CVD_TriCore_Vx.xx_yyyy_mmdd.exe	 CVD_TriCore_V1.01_2015_0811.exe
RisC-V	CVD_RiscV_Vx.xx_yyyy_mmdd.exe	 CVD_RiscV_V1.11_2021_1104.exe

Please install the proper install package according to your product. If you install the wrong install package, it might not be executed properly.

1.2. CVD Installation

Following guide is explained the procedure of CVD S/W installation. It is very simple, so you can follow the next steps easily.

- 1) Run the CVD Install Package. And then following installation wizard will appear.



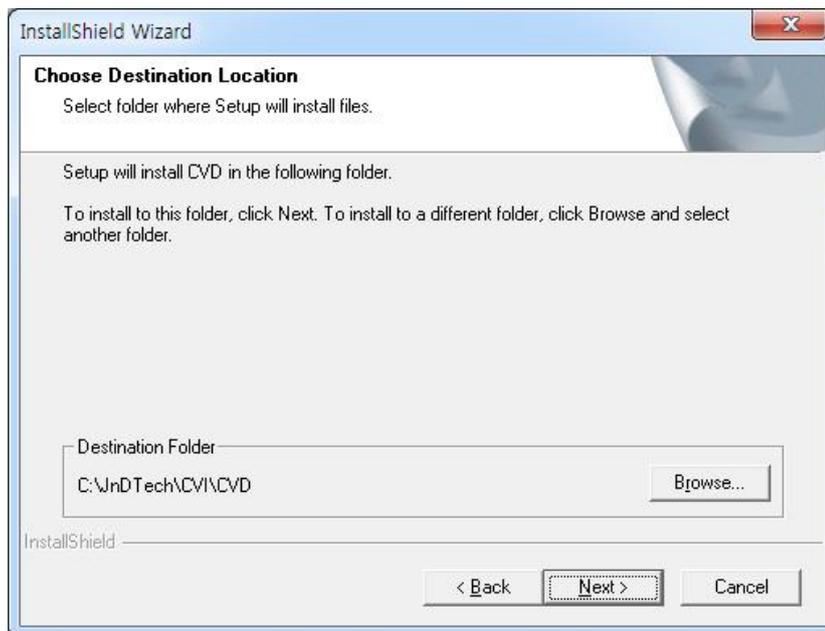
[Figure 1-1] CVD Installation Wizard

Do not connect CodeViser with PC before installing CVD. The path of CVD installation contains USB driver. Otherwise CVD USB driver might not be installed correctly.

- 2) Select folder where setup will install files. Default destination folder is as [Table 1-2]. To install CVD to another location, click Browse and select for a suitable folder. And then click 'Next>'.

[Table 1-2] CVD default installation path

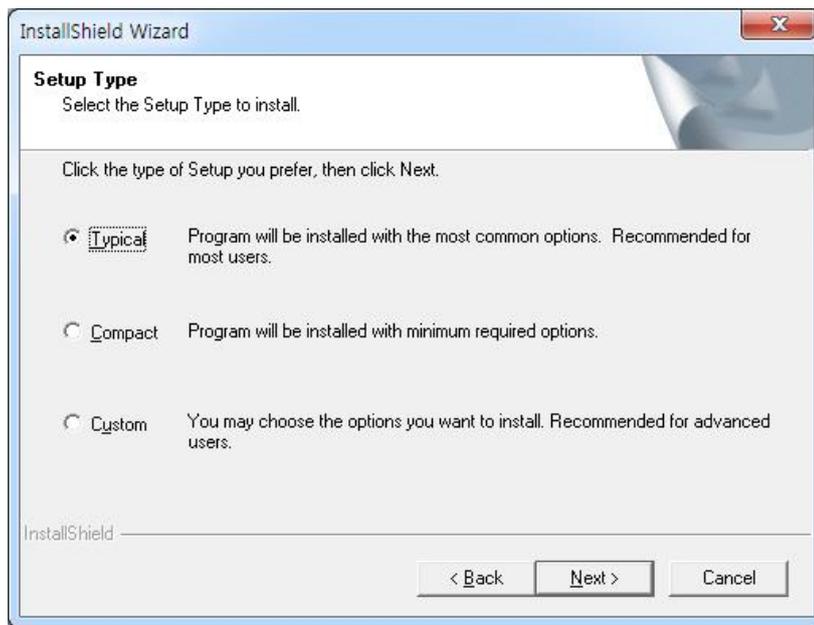
Division		Installation Path	Note
ARM	CodeViser	C:\JnDTech\CVI\CVD	
	CodeViser_64bit	C:\JnDTech\CVI\CVD64	
	CodeViser-RT	C:\JnDTech\CVRT\CVD	
ANDES		C:\JnDTech\CVI\CVD_ANDES	
QDSP6		C:\JnDTech\CVI\CVD_QDSP6	
TriCore		C:\JnDTech\CVI\CVD_TriCore	
Risc-V		C:\JnDTech\CVI\CVD_RiscV	



[Figure 1-2] Choose Destination

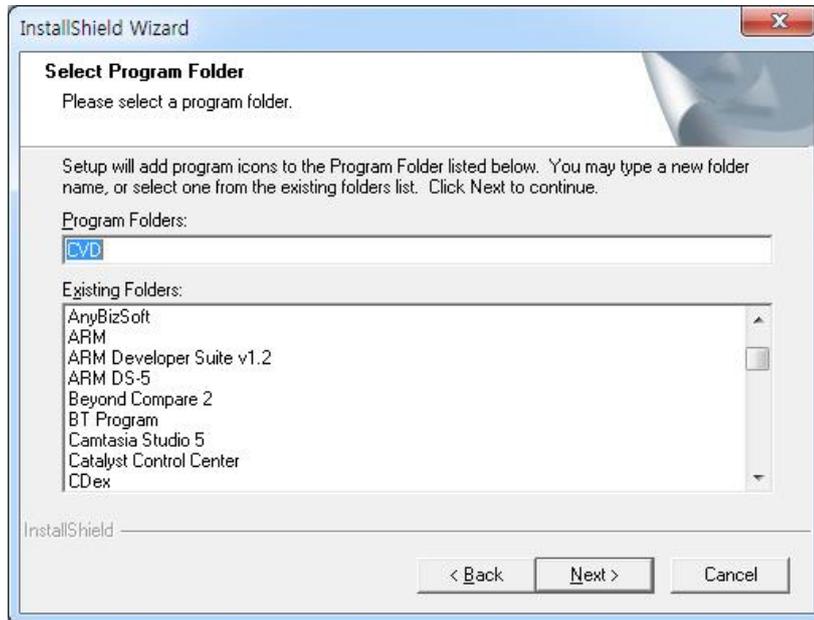
From CVD v3.1, the path of installation is changed to 'C:\JnDTech' from 'C:\Program Files\JnDTech'.

- 3) Select the setup type to install. Default is *Typical*. It is recommended to use *Typical*.



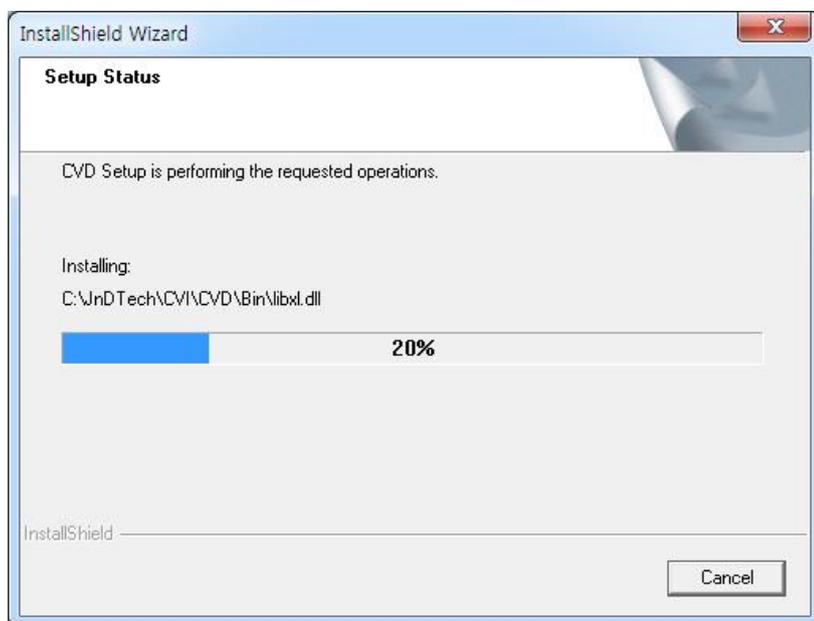
[Figure 1-3] Setup Type

- 4) Select a program folder. Default folder is *Jnd tech - CVD*.



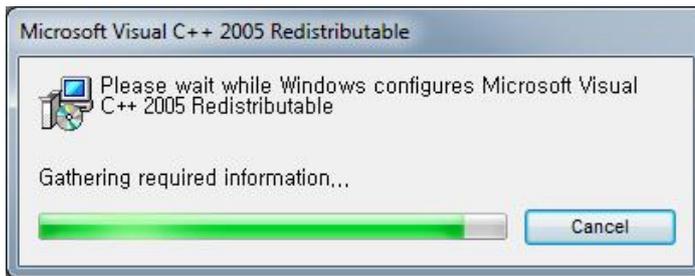
[Figure 1-4] Select Program Folder

- 5) CVD installation is performing after all of the setup is finished. And then click 'Next>'. Please wait until Setup is finished.



[Figure 1-5] CVD Installation

- 6) After the successful CVD installation, Visual C++ 2005 Redistributable for running CVD is automatically installed. Please wait a while until finishing the installation.



[Figure 1-6] Install Runtime library

CVD will not work until installing Visual C++ 2005 Redistributable, please install Visual C++ 2005 Redistributable.

7) If possible, please restart the computer after setup has finished installing CVD.



[Figure 1-7] Complete CVD Installation

1.3. To install USB driver(For windows XP/Vista)

When the CVD installation is completed, connect CodeViser to host PC through USB cable. About USB port, please refer to [Table 1-3].

[Table 1-3] USB Port according to CodeViser

Division		USB Port	Note
CodeViser	ARM	Upper USB Port	
	ANDES		
	QDSP6		
	TriCore		
CodeViser-RT		Upper USB Port	

The path of default of USB driver is following as [Table 1-4].

[Table 1-4] Path of USB driver

Division		Path of USB driver	Note
ARM	CodeViser	C:\JnDTech\CVI\CVD\Drv	
	CodeViser_64bit	C:\JnDTech\CVI\CVD64\Drv	
	CodeViser-RT	C:\JnDTech\CVRT\CVD\Drv	
ANDES		C:\JnDTech\CVI\CVD_ANDES\Drv	
QDSP6		C:\JnDTech\CVI\CVD_QDSP6\Drv	
TriCore		C:\JnDTech\CVI\CVD_TriCore\Drv	

- 1) Click when you find 'Found New Hardware' message.



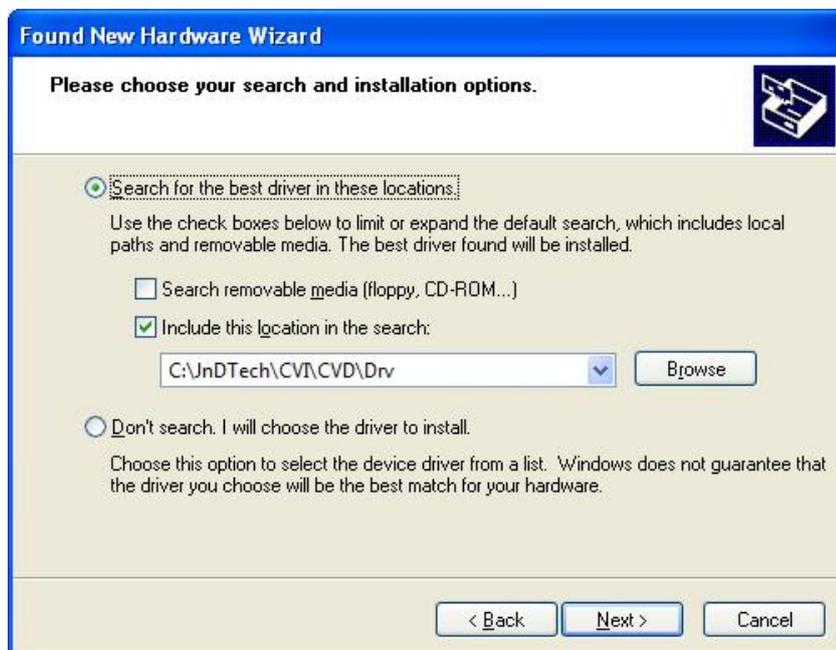
[Figure 1-8] Found CodeViser new hardware

- 2) Select 'Install from a list or specific location' in Hardware Update Wizard and then click 'Next>' button.



[Figure 1-9] Found New Hardware Wizard

- 3) Choose your location for USB driver . Check the 'Include this location' box like the picture and click on 'Browse'. And then navigate to location belonging CodeViser USB driver. Basically, it is installed in 'the CVD folder\Drv' as default.(Please refer to [Table 1-4] about the location of USB driver.)

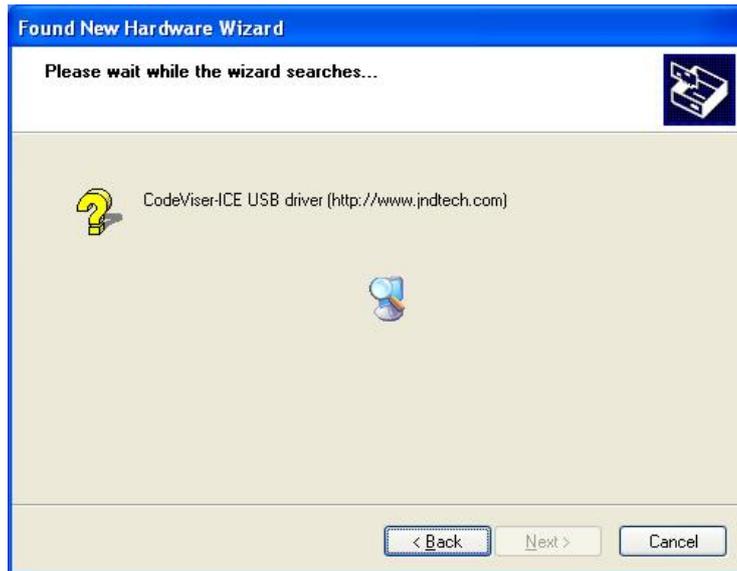


[Figure 1-10] Search for the best USB driver

It is executed to installation automatically in accordance with your operating system once you set the USB driver path to 'the CVD folder\Drv'.

Caution: it might happen to fail the installation of USB driver in case of assigning x86 or x64 which is subordinate to Drv folder.

- 4) Wait until while the driver is searched.



[Figure 1-11] Found USB driver

- 5) Install the USB driver. Please wait until the installation completes.



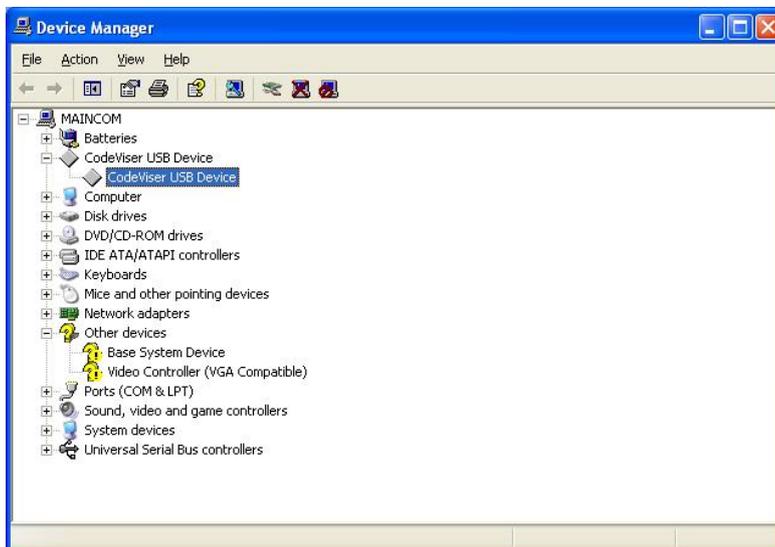
[Figure 1-12] Installation USB driver

- 6) It has finished installing the USB Driver for CodeViser and then click 'Finish' to complete the installation.



[Figure 1-13] Complete the USB driver installation

- 7) Open the Device Manager, which is in Control Panel and check whether there is 'CodeViser USB Device'.



[Figure 1-14] Device Manager

1.4. To install USB driver (For windows 7/8)

When CVD installation is completed, connect CodeViser to host PC through USB cable. About USB port, please refer to [Table 1-3].

[Table 1-5] USB Port according to CodeViser

Division		USB Port	Note
CodeViser	ARM	Upper USB Port	
	ANDES		
	QDSP6		
	TriCore		
CodeViser-RT		Upper USB Port	

The path of default of USB driver is following as [Table 1-4].

[Table 1-6] Path of USB driver

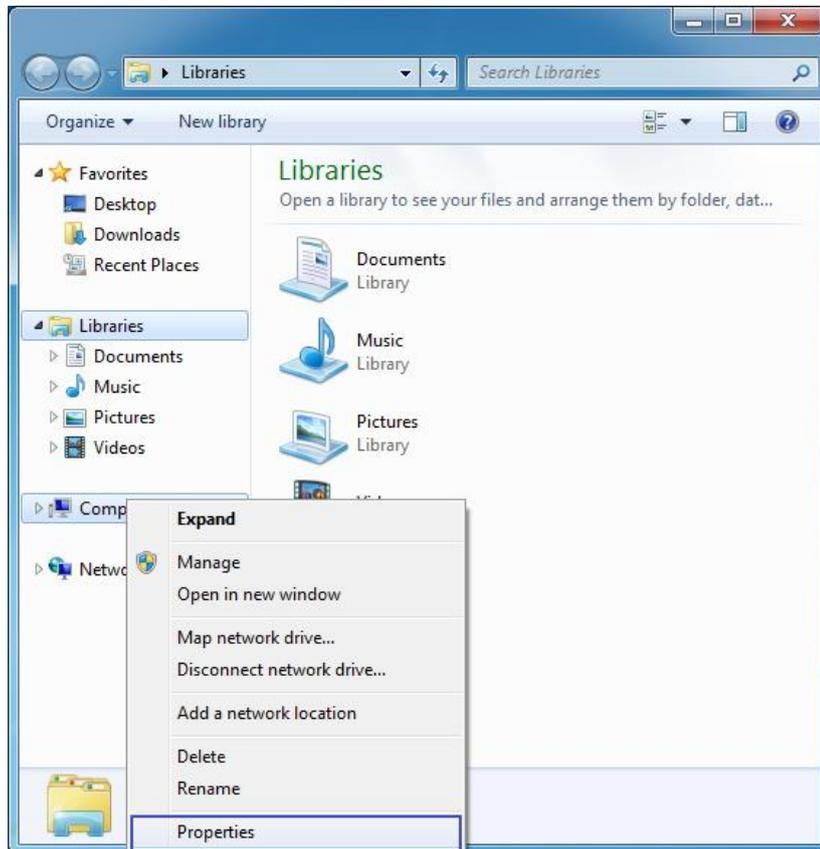
Division		Path of USB driver	Note
ARM	CodeViser	C:\JnDTech\CVI\CVD\Drv	
	CodeViser_64bit	C:\JnDTech\CVI\CVD64\Drv	
	CodeViser-RT	C:\JnDTech\CVRT\CVD\Drv	
ANDES		C:\JnDTech\CVI\CVD_ANDES\Drv	
QDSP6		C:\JnDTech\CVI\CVD_QDSP6\Drv	
TriCore		C:\JnDTech\CVI\CVD_TriCore\Drv	

- 1) Click [**Close**] button when windows trying to install usb driver automatically.

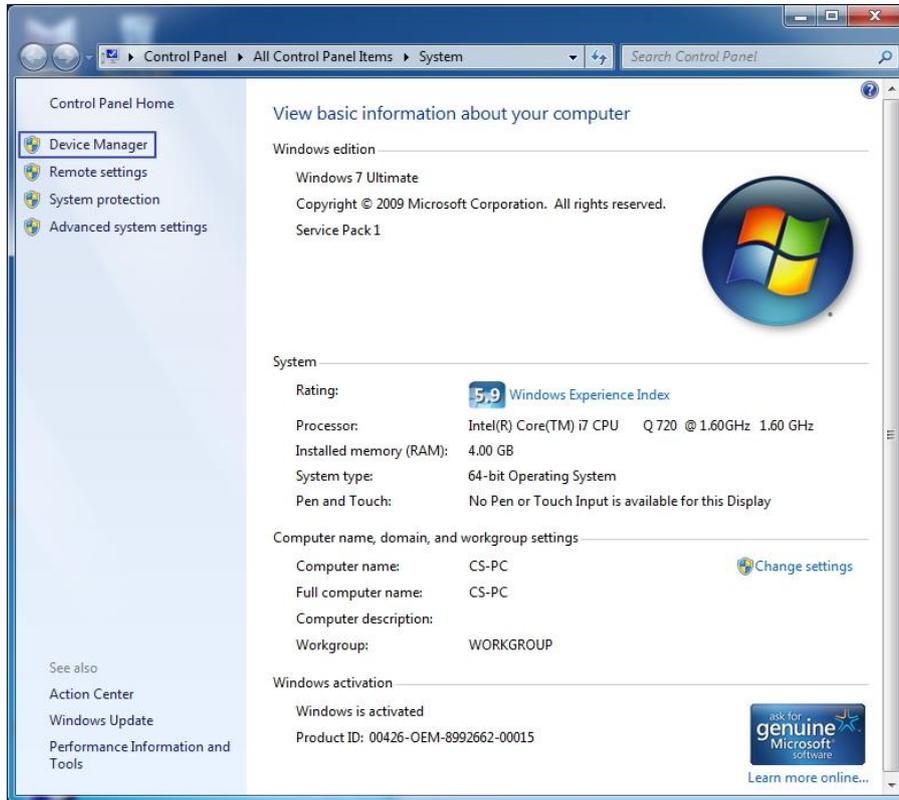


[Figure 1-15] Cancel Driver Software Installation

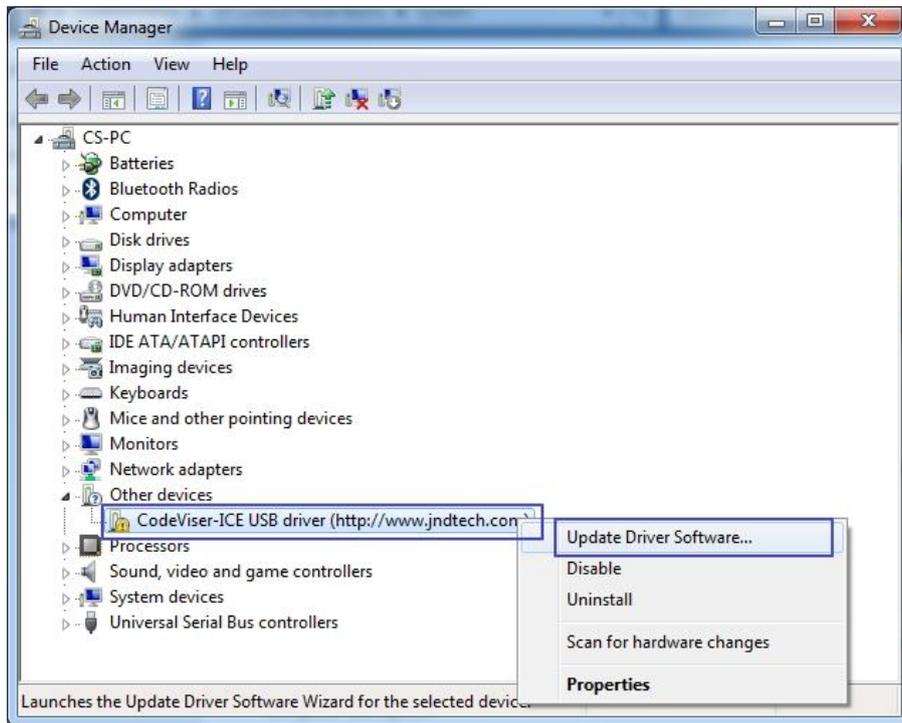
- 2) Right click on [Computer] and select [Properties].

**[Figure 1-16] Select [Properties]**

3) Select [Device Manager]

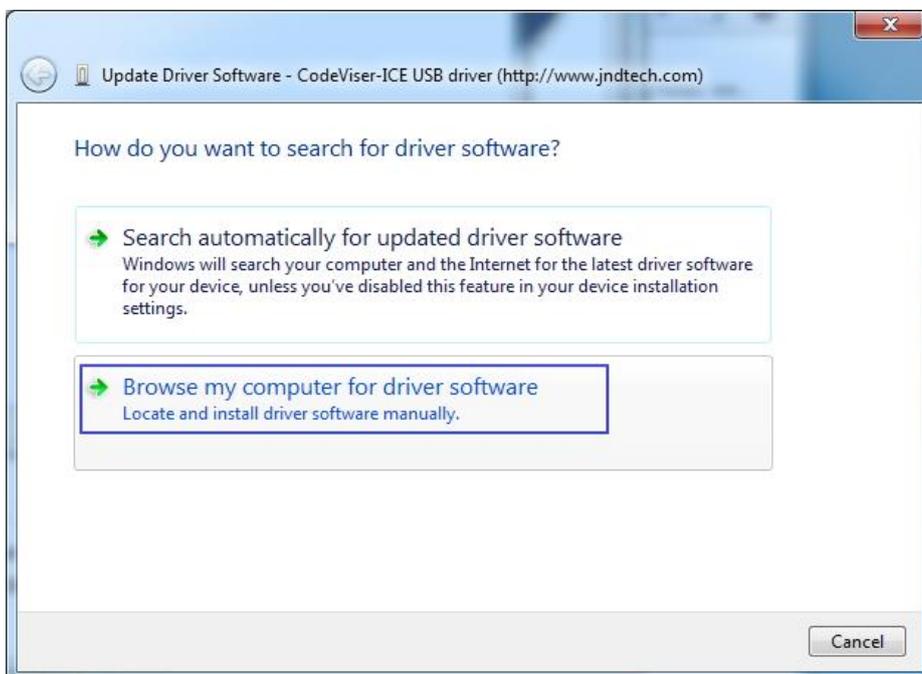
**[Figure 1-17] Device Manager**

4) Right click on [CodeViser-ICE USB driver], and select [Update Driver Software...]



[Figure 1-18] Update Driver Software

- 5) Select [Browse my computer for driver software].



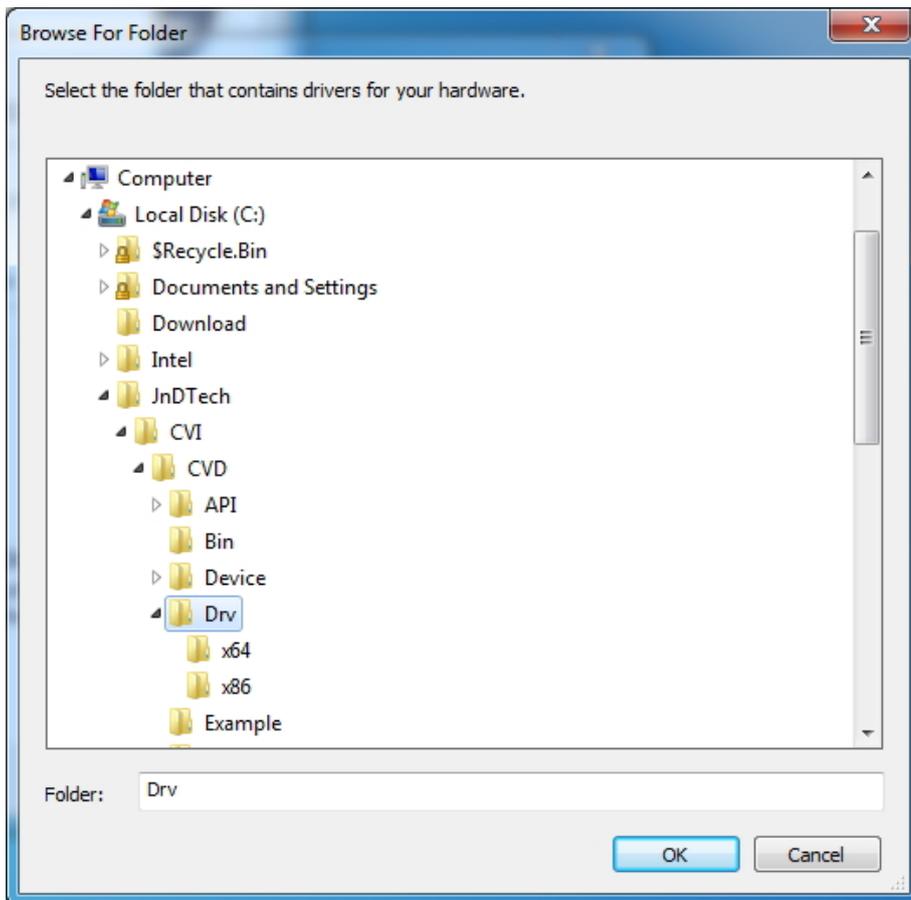
[Figure 1-19] Browse my computer for driver software

- 6) It has finished installing the USB Driver for CodeViser and then click 'Finish' to complete the installation.



[Figure 1-20] Complete the USB driver installation

Press [Browse] button, and browse to [[C:\JnDtech\CVI\CVD\Drv](#)].



[Figure 1-21] Browse to driver location

Press [Next] button to continue.



[Figure 1-22] Press [Next] to continue

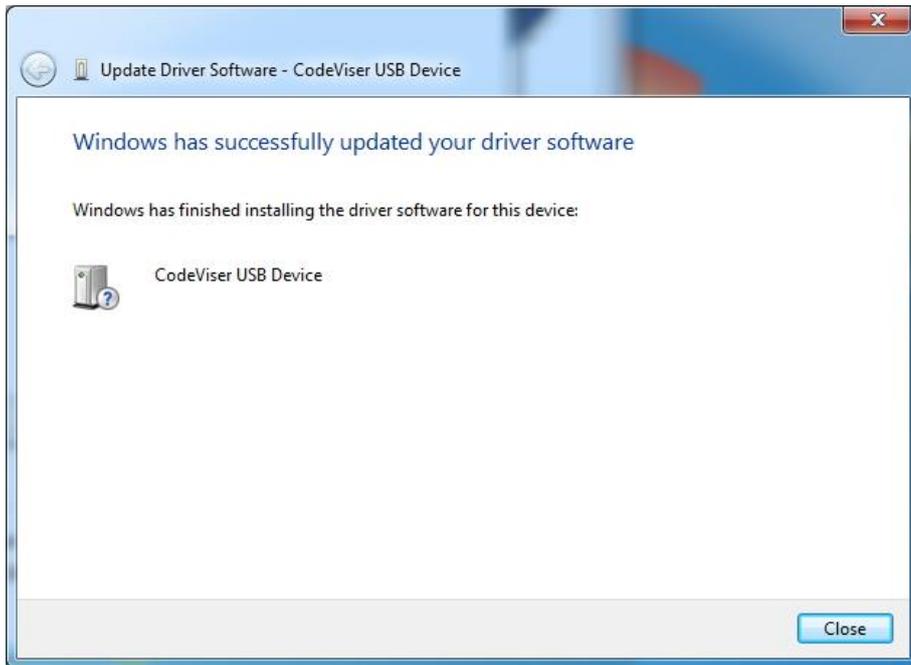
Caution: it might happen to fail the installation of USB driver in case of assigning x86 or x64 which is subordinate to Drv folder.

- 7) Press [Install] button if windows asks [Would you like to install this device software?]

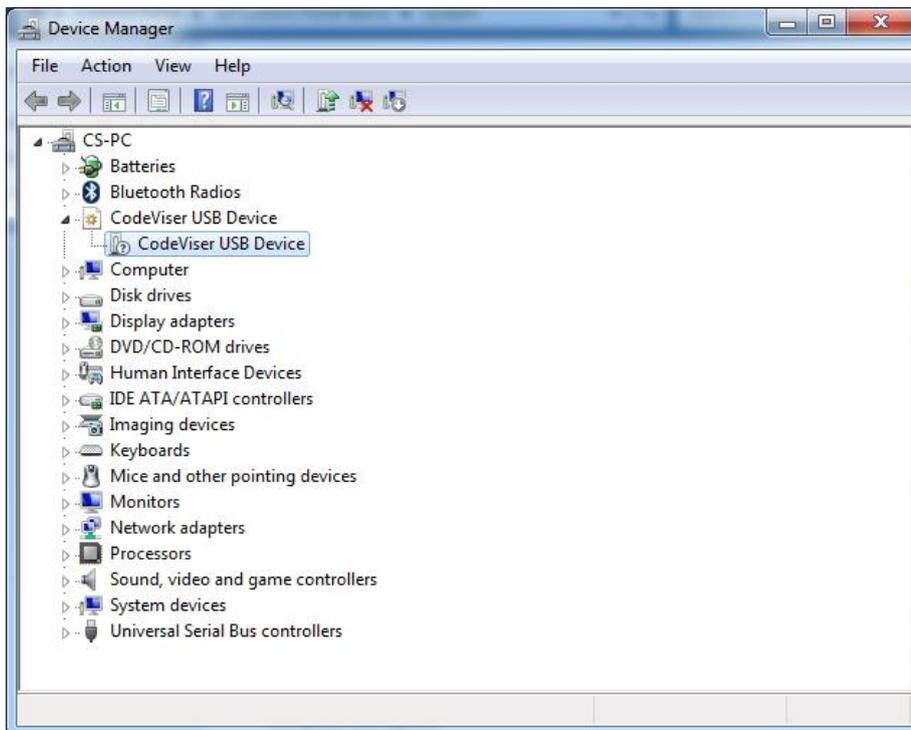


[Figure 1-23] Confirm

- 8) Press [Close] button to finish driver installation.



[Figure 1-24] Press [Close] button



[Figure 1-25] Check [Device Manage]

1.5. To install USB driver (For windows 10)

When CVD installation is completed, connect CodeViser to host PC through USB cable. About USB port, please refer to [Table 1-3].

[Table 1-7] USB Port according to CodeViser

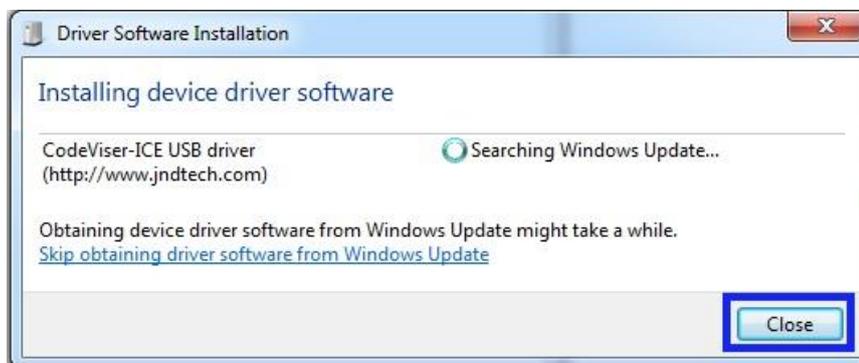
Division		USB Port	Note
CodeViser	ARM	Upper USB Port	
	ANDES		
	QDSP6		
	TriCore		
CodeViser-RT		Upper USB Port	

The path of default of USB driver is following as [Table 1-4].

[Table 1-8] Path of USB driver

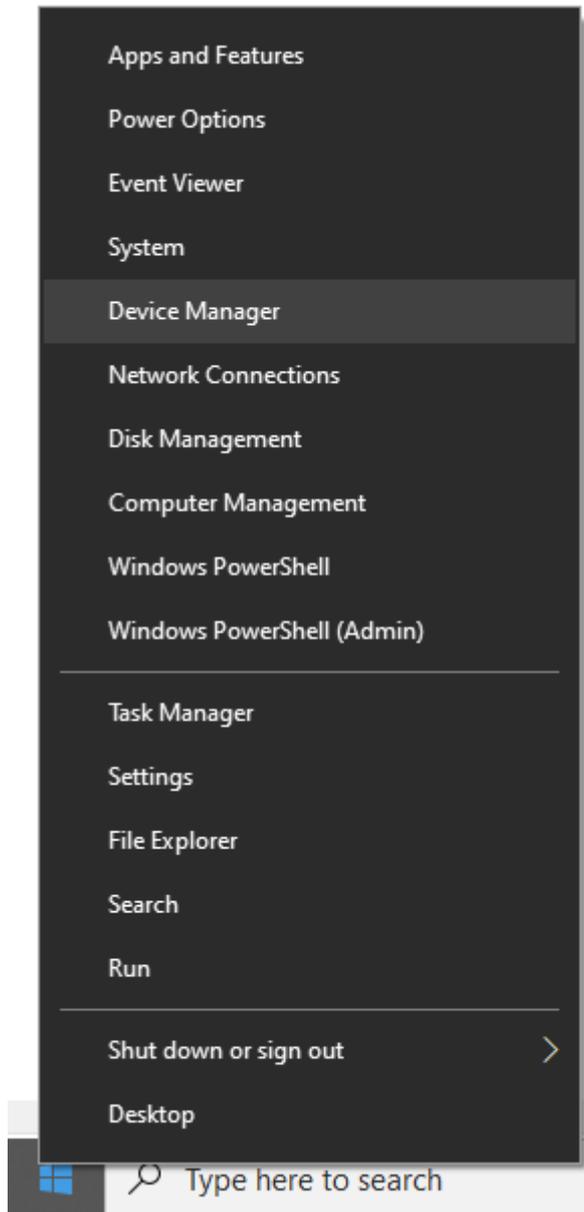
Division		Path of USB driver	Note
ARM	CodeViser	C:\JnDTech\CVI\CVD\DrvWin10	
	CodeViser_64bit	C:\JnDTech\CVI\CVD64\DrvWin10	
	CodeViser-RT	C:\JnDTech\CVRT\CVD\DrvWin10	
ANDES		C:\JnDTech\CVI\CVD_ANDES\DrvWin10	
QDSP6		C:\JnDTech\CVI\CVD_QDSP6\DrvWin10	
TriCore		C:\JnDTech\CVI\CVD_TriCore\DrvWin10	

- 9) Click [**Close**] button when windows trying to install usb driver automatically.

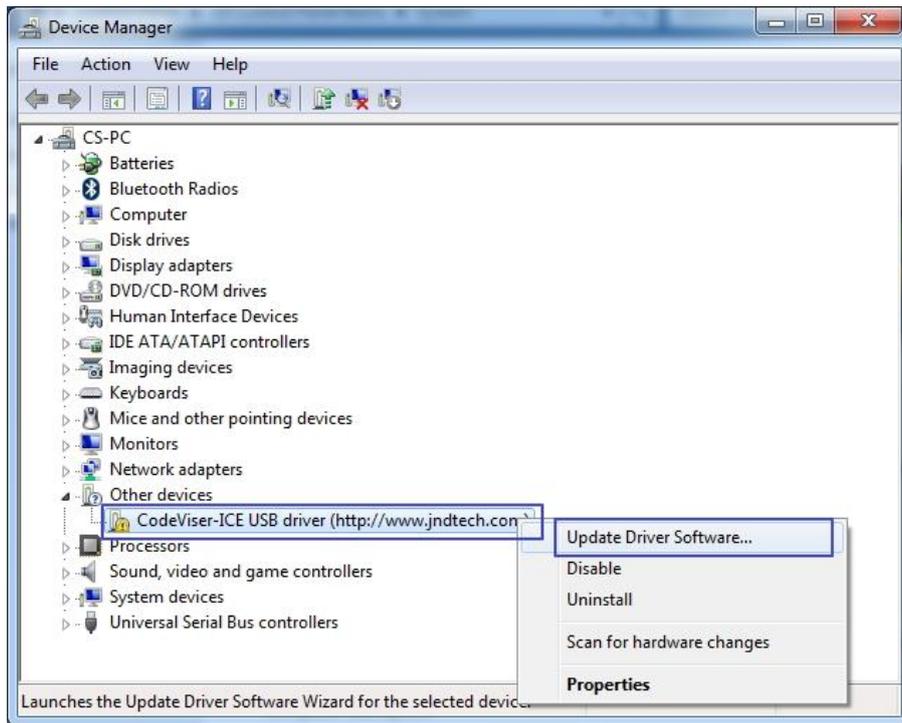


[Figure 1-26] Cancel Driver Software Installation

10) Right click on [Start button] and select [Device Manager].

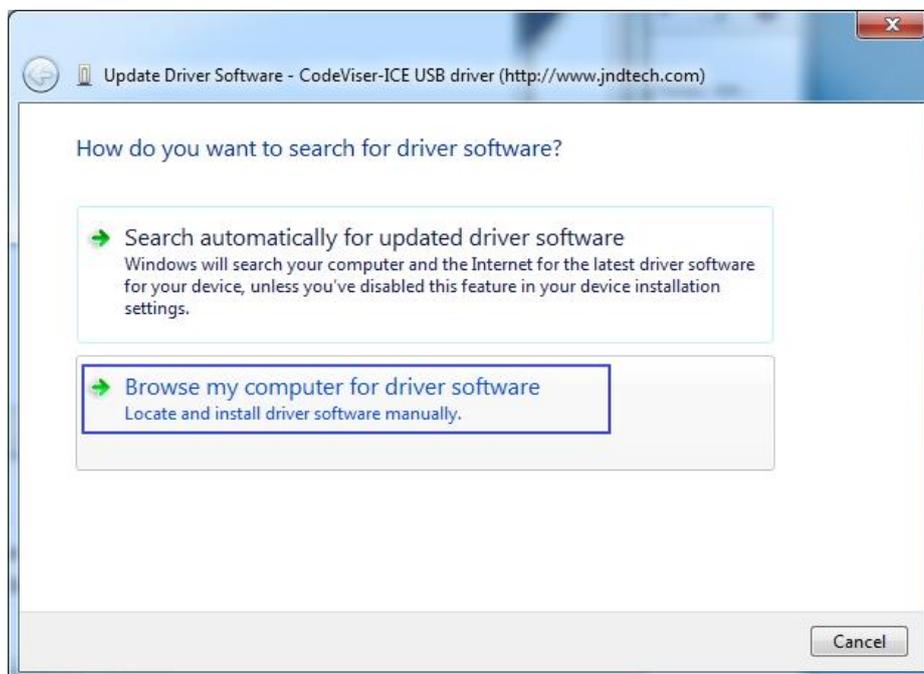
**[Figure 1-27] Select [Properties]**

11) Right click on [CodeViser-ICE USB driver], and select [Update Driver Software...]



[Figure 1-28] Update Driver Software

12) Select [Browse my computer for driver software].



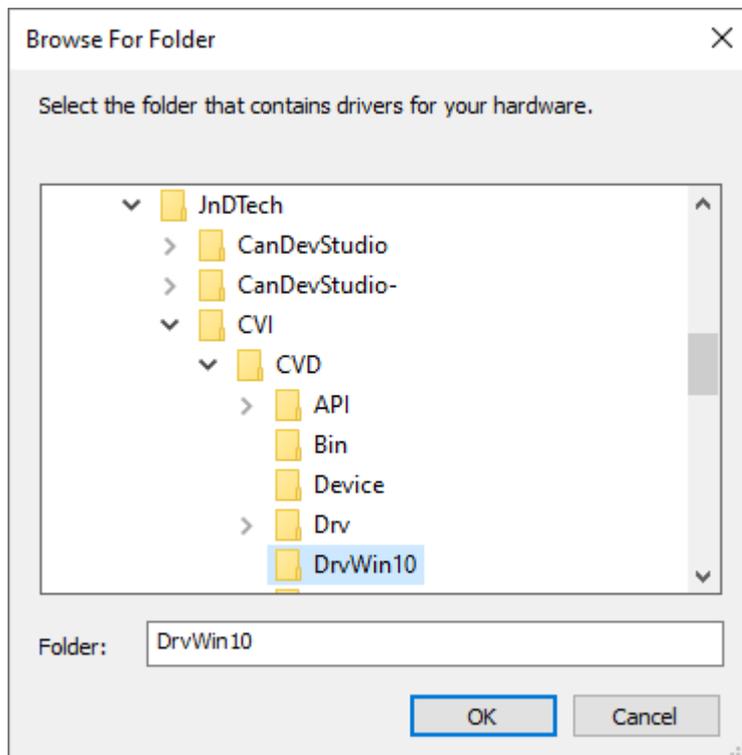
[Figure 1-29] Browse my computer for driver software

- 13) It has finished installing the USB Driver for CodeViser and then click 'Finish' to complete the installation.



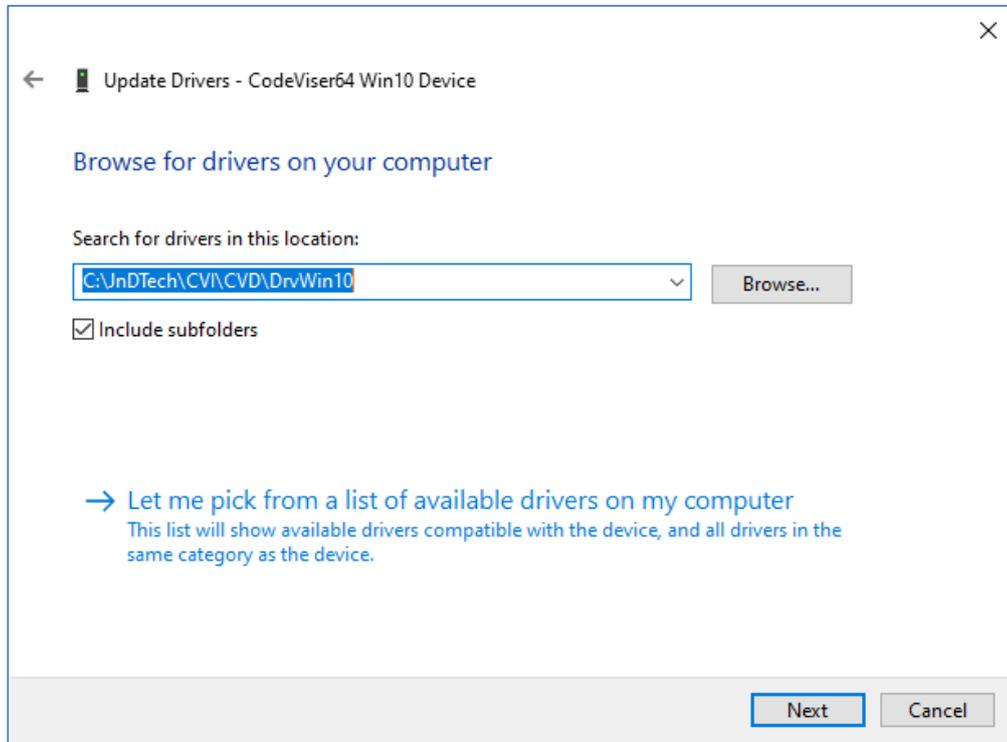
[Figure 1-30] Complete the USB driver installation

Press [Browse] button, and browse to [[C:\JnDtech\CVI\CVD\DrvWin10](#)].



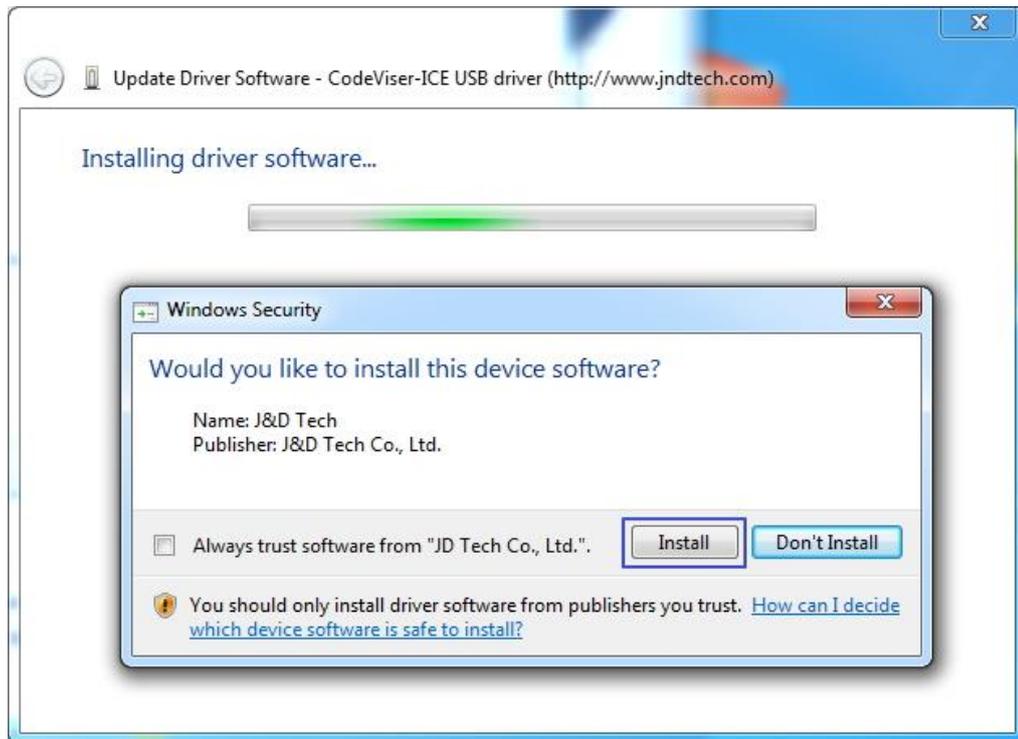
[Figure 1-31] Browse to driver location

Press [Next] button to continue.

**[Figure 1-32] Press [Next] to continue**

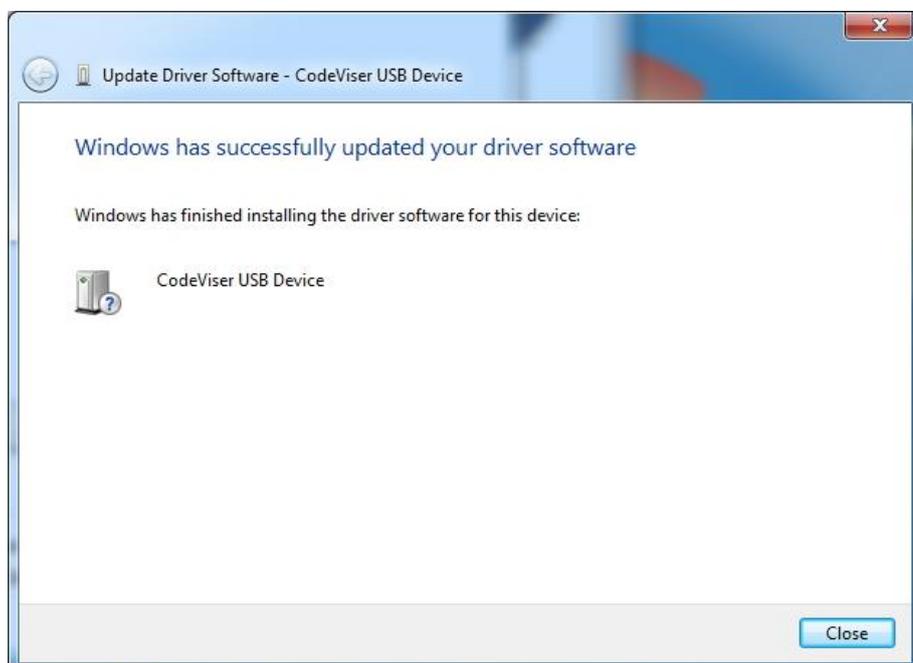
Caution: it might happen to fail the installation of USB driver in case of assigning x86 or x64 which is subordinate to Drv folder.

14) Press [Install] button if windows asks [Would you like to install this device software?]

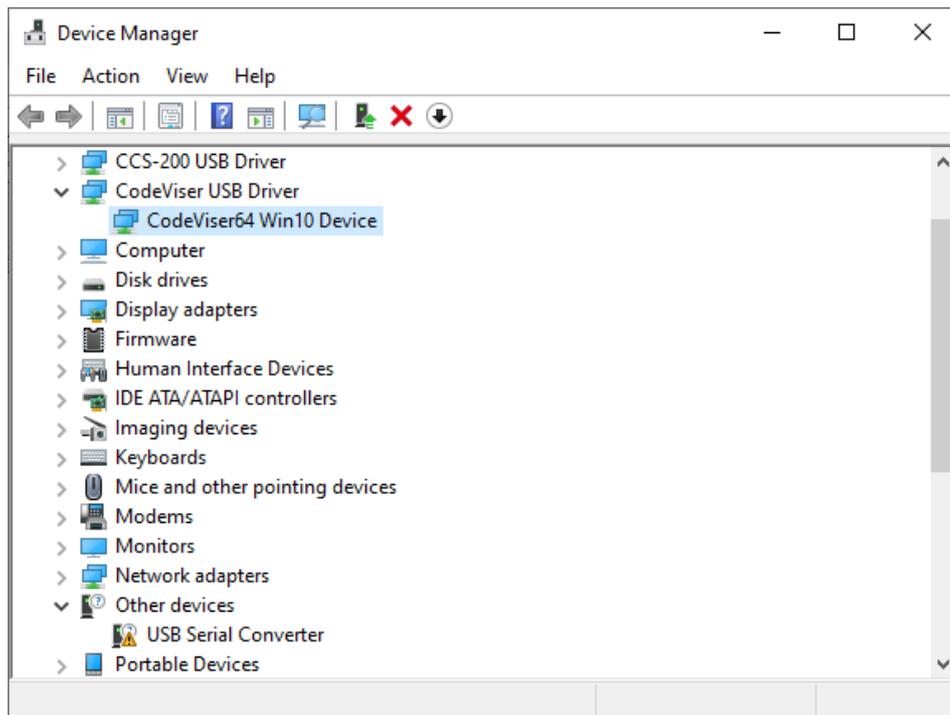


[Figure 1-33] Confirm

15) Press [Close] button to finish driver installation.



[Figure 1-34] Press [Close] button



[Figure 1-35] Check [Device Manage]

2. CVD Installation – Upgrade

The following procedure shows how to upgrade the CVD system with a new version, if CVD S/W installation is done on your computer already.

2.1. CVD S/W Upgrade

You do not need to erase the old one before upgrading a new version of CVD in this manner.

The latest CVD install package is supported by JnDTech homepage.

CVD is classified in several install packages according to types of processor core or the product as [Table 1-1]. It is needed to prepare the proper install package.

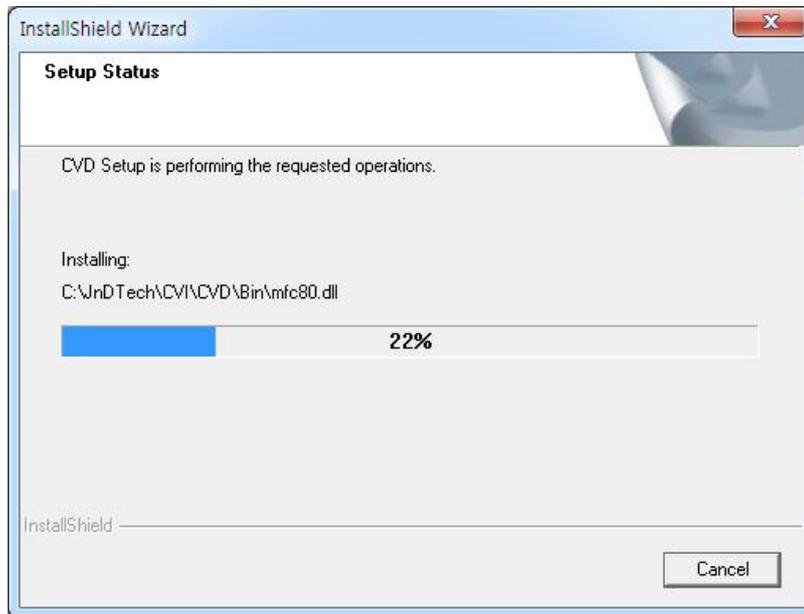
Please install the proper install package according to your product. If you install the wrong install package, it might not be executed properly.

- 1) Run the CVD setup package, and select the 'Repair' option and then click on 'Next>' button.



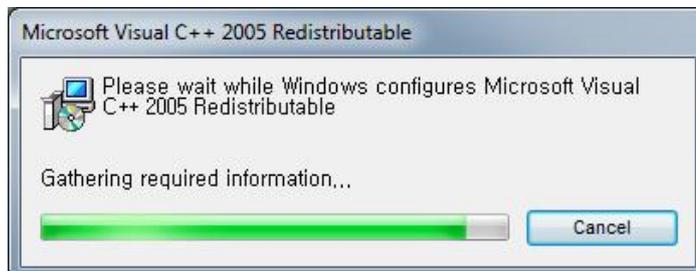
[Figure 2-1] Select setup option

- 2) Please wait until S/W is installed.



[Figure 2-2] CVD installation

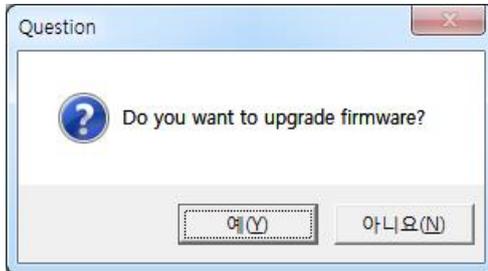
- 3) Install Visual C++ 2005 Redistributable library



[Figure 2-3] Install Runtime Library

If the Visual C++ 2005 Redistributable library already been installed on the OS, the installation may be canceled.

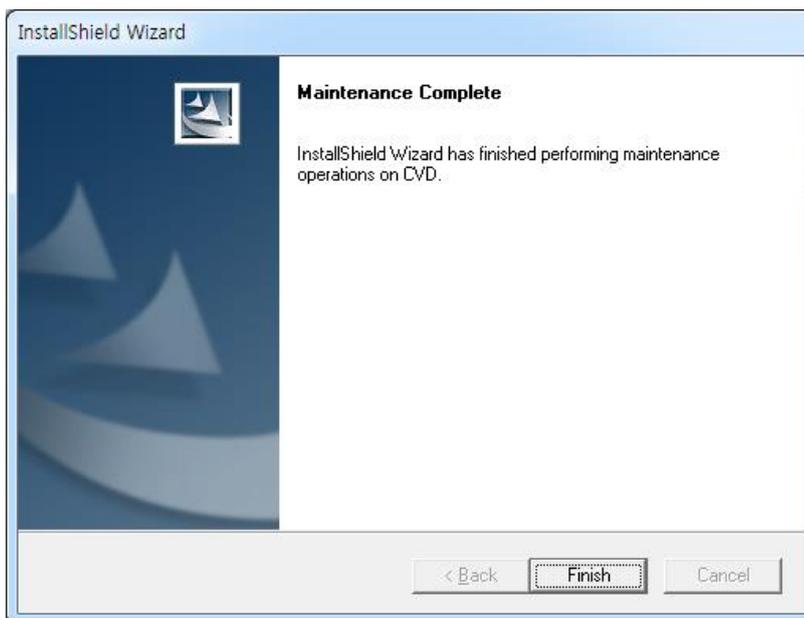
- 4) You will be asked to update the latest version firmware. If you click 'yes', firmware update will be processed.



[Figure 2-4] Check to upgrade firmware

If you don't update firmware automatically, please refer to 2.2. Firmware Update and execute firmware update manually.

- 5) Complete the installation. Click on 'Finish' button.

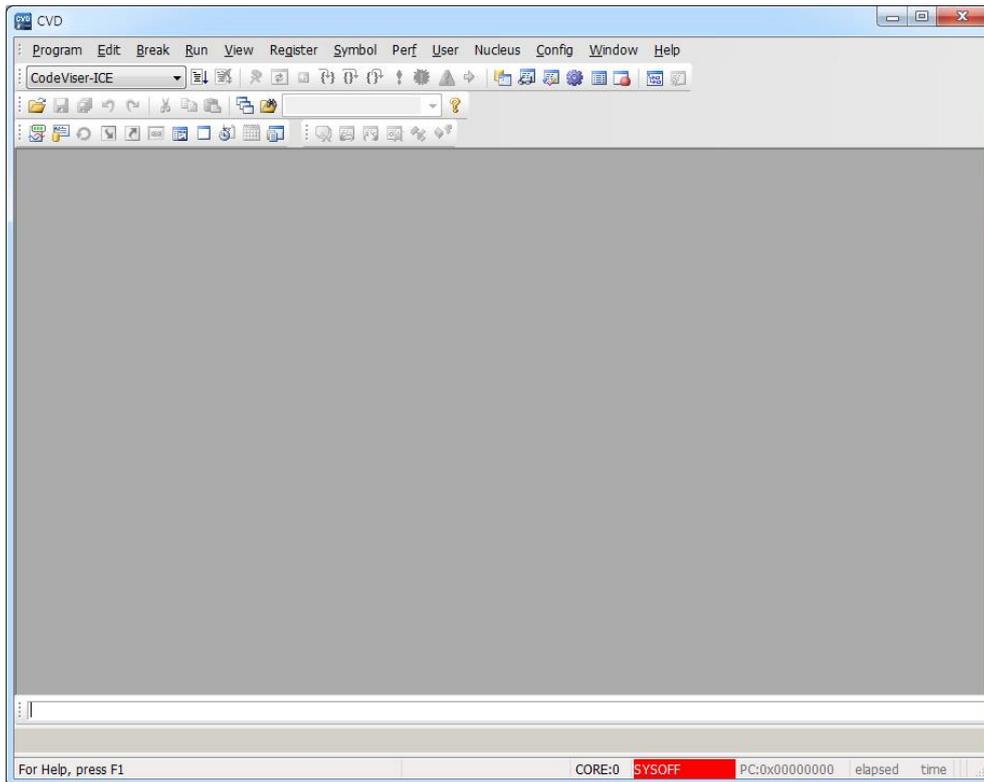


[Figure 2-5] Complete CVD installation

2.2. Firmware Update

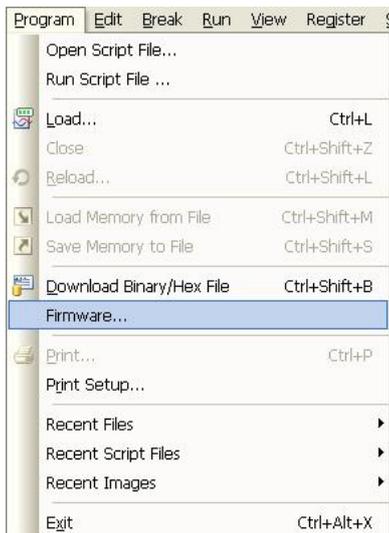
If you need to update the firmware of the CVD, for example if the hardware causes problems or release new version, you should update to the latest CodeViser firmware.

- 1) Run the CVD S/W.



[Figure 2-6] Run the CVD S/W

- 2) Select [Program]-[Firmware] in the menu.



[Figure 2-7] Run Firmware on menu

- 3) Browse your way to the firmware binary file. Basically, it is located in ‘the CVD folder\MDSFirmware’.

About the default path, please refer to following as [Table 2-1].

[Table 2-1] The path of firmware files

Division		Path of Firmware files	Note
ARM	CodeViser	C:\JnDTech\CVI\CVD\MDSFirmware	
	CodeViser_64bit	C:\JnDTech\CVI\CVD64\MDSFirmware	
	CodeViser-RT	C:\JnDTech\CVRT\CVD\ MDSFirmware	
ANDES		C:\JnDTech\CVI\CVD_ANDES\ MDSFirmware	
QDSP6		C:\JnDTech\CVI\CVD_QDSP6\ MDSFirmware	
TriCore		C:\JnDTech\CVI\CVD_TriCore\ MDSFirmware	



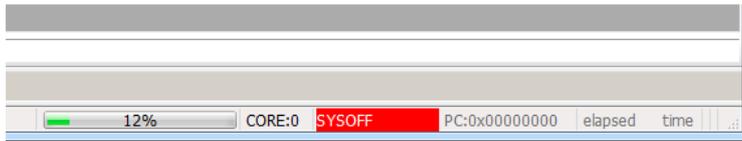
[Figure 2-8] Choose CodeViser Firmware

CodeViser board version 1.xx uses .bin as firmware extension.

CodeViser board version 2.xx uses .cvf as firmware extension.

When installing a new version of CVD, there might be more than two firmware binary files. And then select the binary file that is the latest date.

- 4) Firmware update is performing.



[Figure 2-9] Firmware Update Status

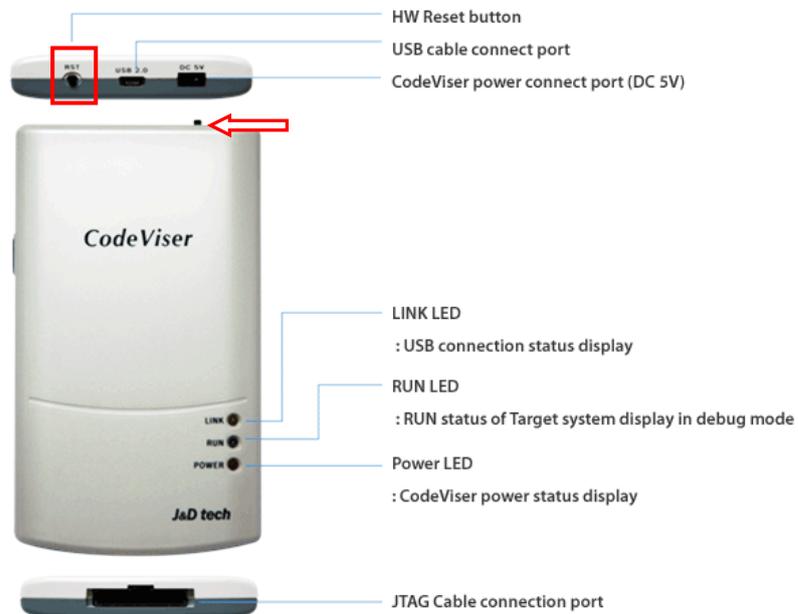
Do not disconnect the USB cable, otherwise it could cause not errors. If the firmware update failed, Hold on [Firm up] button on the side panel of codeviser and press Reset button on the top panel of CodeViser at the same time. After that it enters the firmware update mode and then be able to run firmware update again.

- 5) Complete the update. Click on 'OK' button.



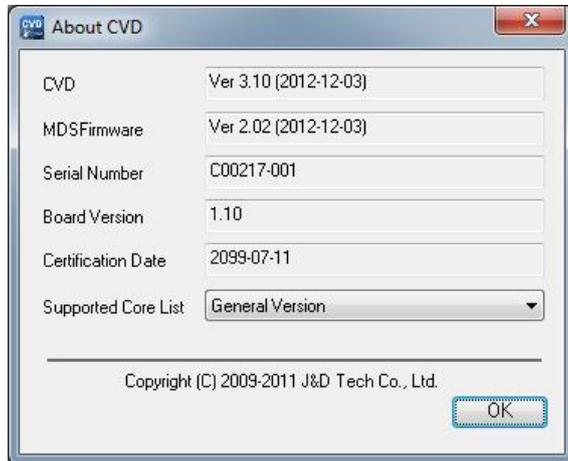
[Figure 2-10] Complete Firmware Update

Press [RST] button on upside of Codeviser



[Figure 2-11] Press [RST] button

- 6) Select [Help]-[About CVD] in the menu and check version information of CVD and CodeViser Firmware.



[Figure 2-12] Check CVD and CodeViser Firmware version

2.3. Guideline for CVD v3.x

The protocol structure is changed for data transfer/receive between CVD and CodeViser. It should be updated firmware when installing CVD v3.x. If you do not it, CVD cannot recognize CodeViser because of protocol.

In case of CodeViser that updated firmware after installation of CVD v3.x, it will not connect with the v2.x version of CVD. At this moment, please change to the lower version firmware from CVD v3.x.

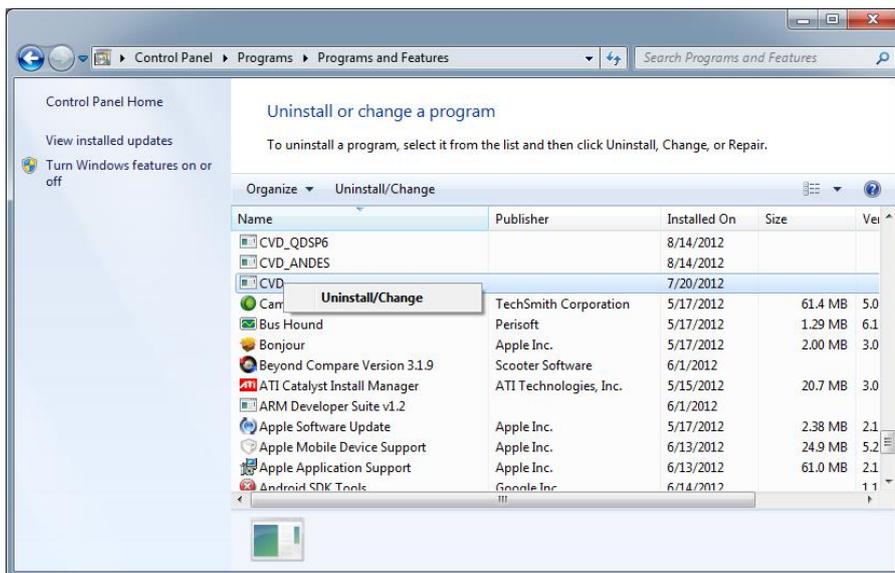
3. To Uninstall CVD

Following is how to uninstall CVD.

- 1) Click [Uninstall/Change] after finding “CVD” from [Start] - [Control Panel] - [Uninstall a program]. Each title of CVD is following as [Table 3-1].

[Table 3-1] The Title of each CVD

Division		CVD Title	Note
ARM	CodeViser	CVD	
	CodeViser_64bit	CVD64	
	CodeViser-RT	CVDRT	
ANDES		CVD_ANDES	
QDSP6		CVD_QDSP6	
TriCore		CVD_TriCore	



[Figure 3-1] Uninstall CVD

JnD Tech directory will not be removed after uninstalling CVD. If you need to remove the directory, please remove it manually.