

# EPMon Setup Procedures

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## **1. 1. Overview**

The software can perform temperature monitoring, collection of log data, step-by-step operation, etc. for the "NCB-1210\*/NCB-2510\*/NCB-2610\*/NCB-2410" series of low temperature thermostatic tank connecting a PC with the device and be used also on a PC with Windows XP – 10 installed.

The software is set up following the 3 steps below:

- ① Installation of Virtual COM Driver
- ② Installation of .NetFramework 4.0
- ③ Installation of Application Program

There are cases where the setup procedures for the Virtual COM Driver differ a little depending on the OS on your PC.

In this document the procedures will be described for Windows 10 respectively.

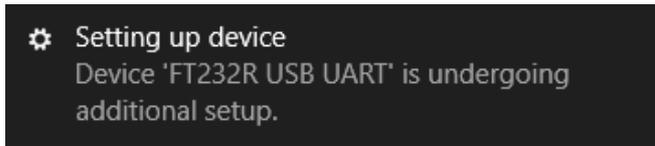
For Windows 7 – 10, it would be useful to connect your PC to the network to have Windows automatically install the optimum driver.

Also, some PCs have .NETFramework already pre-installed. Although you could skip this step if the software is already installed on your PC, we recommend that you perform the installation for the time being, as a message will be displayed in the process of installation when it is already installed on the PC.

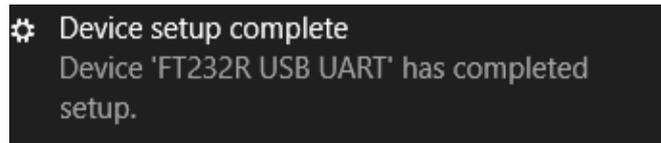
## 2. Installation of Virtual COM Driver(For Windows 10)

### (1) When Your PC Is Connected to Network

- ① Connect a connecting cable to a USB port on the PC.  
After connecting, the following message will be displayed.



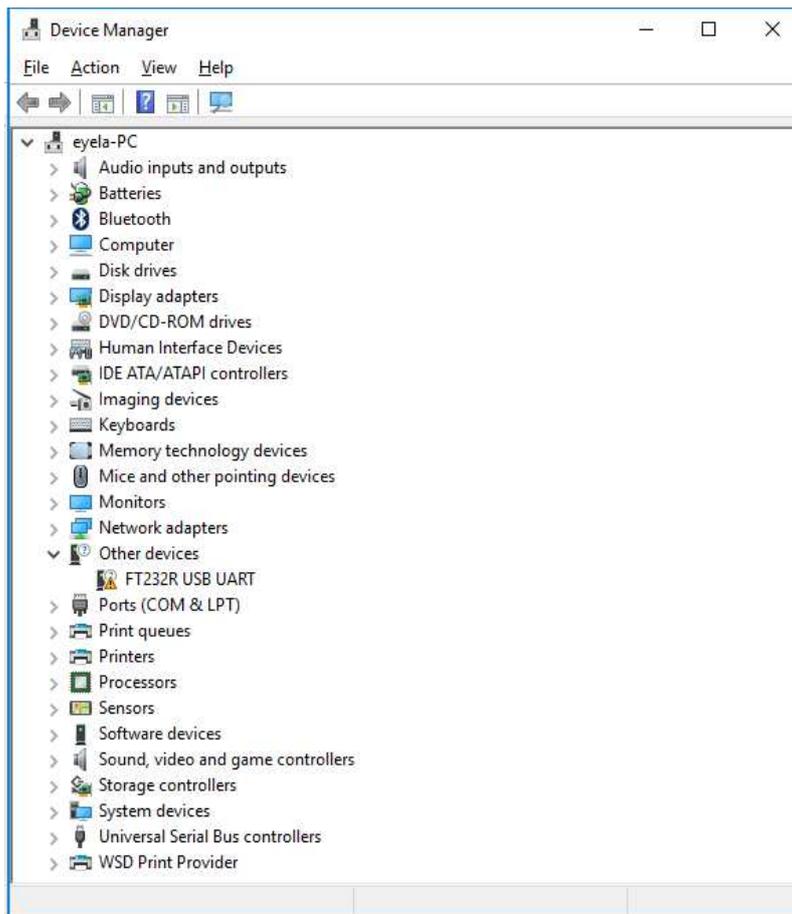
- ② When the installation is completed, the following message will be displayed.  
It takes several seconds – several minutes, although it depends on the network environment.



- ③ Device Manager opens to confirm if the installation has been successfully completed and the cable is recognized.
- ④ Right-click the Start button in the lower left corner of the PC screen.  
Select the Device Manager in the menu.

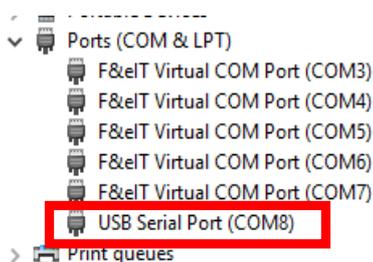


- ⑤ The Device Manager screen opens.



- ⑥ Extract “Port (COM and LPT)” in the lower portion of the screen.

If “USB Serial Port (COM\*)” is displayed in the list, the Virtual COM Driver is successfully installed. While the figure below shows COM8, a number following COM differs, although it depends on your PC. Make a note of the “COM\*” information, as it is used when confirming the software’s connection.

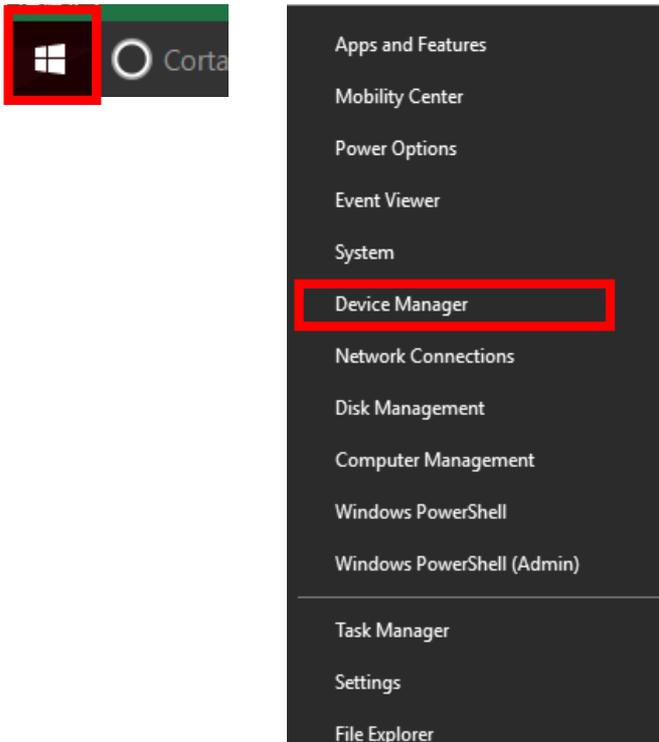


- ⑦ When an exclamation mark (!) appears as in the figure below, your PC has no connection with the network, or the installation of the Virtual COM Driver fails for some other reasons. Go on to the installation using downloaded file(s) as described later.

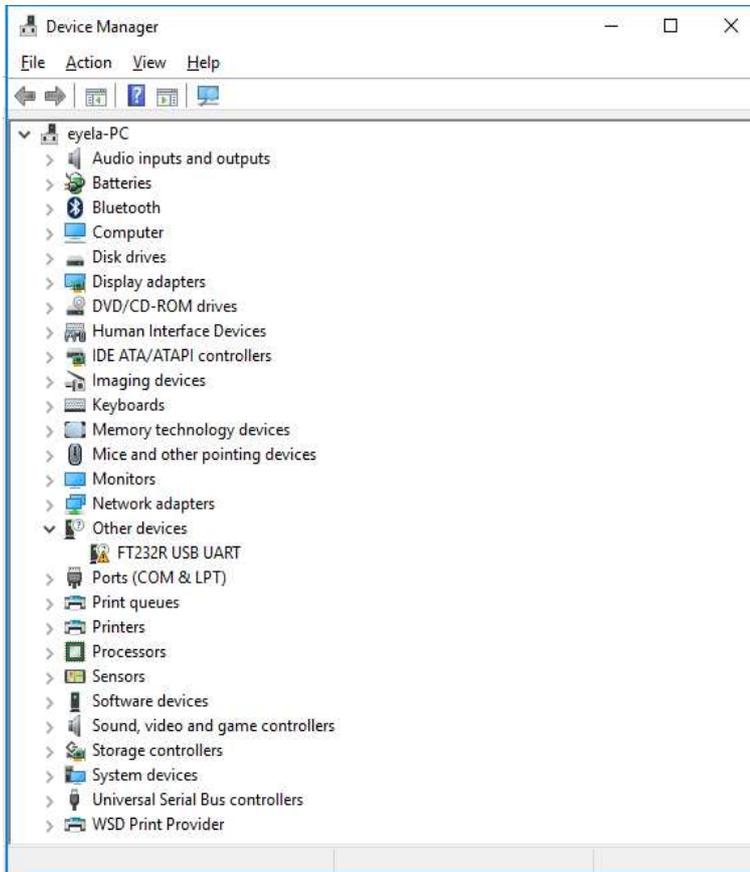


**(2) When Your PC Is Not Connected to Network**

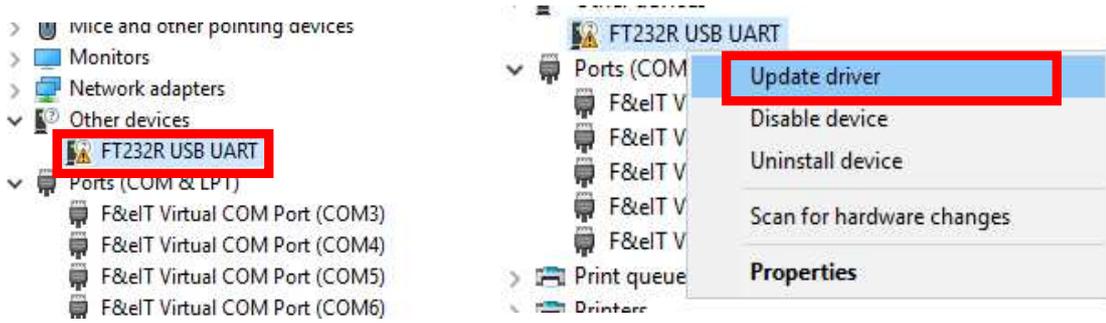
- ① Confirm the location of the “Setup Disk” folder where the program was extracted.
- ② Connect a connecting cable to a USB port on the PC.
- ③ Right-click the Start button in the lower left corner of the PC screen. Select the Device Manager in the menu.



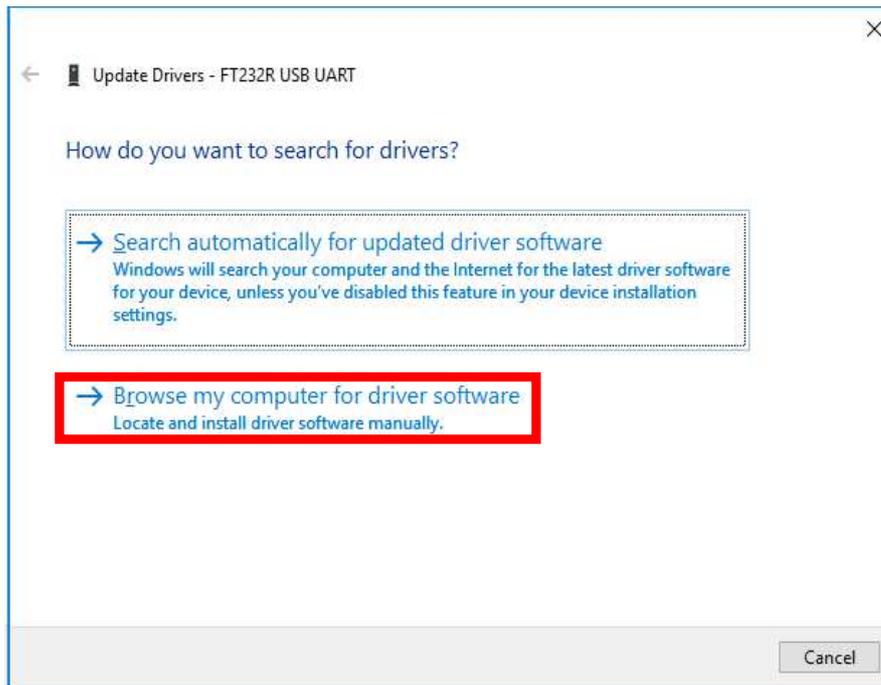
- ④ The Device Manager screen opens.



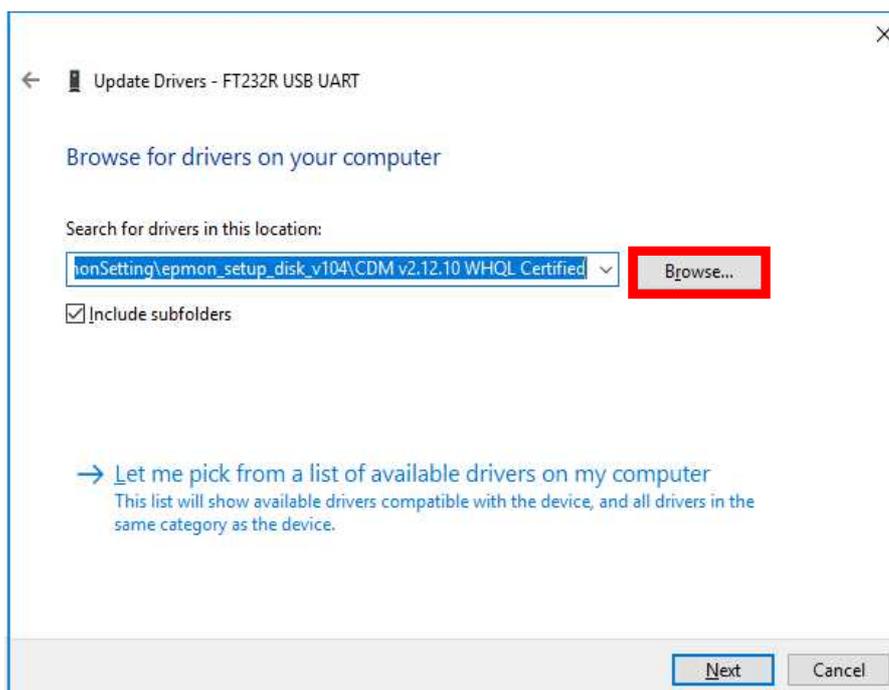
⑤ "FT232RL" appears as an unknown device in the lower portion of the screen. Right-click it and select Update Driver Software



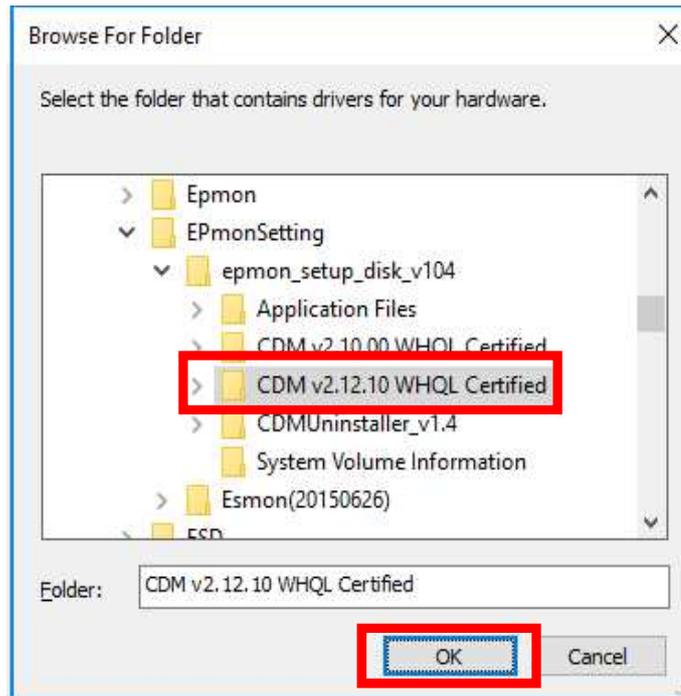
⑥ The screen below appears. Select "Browse Computer and Search Driver Software."



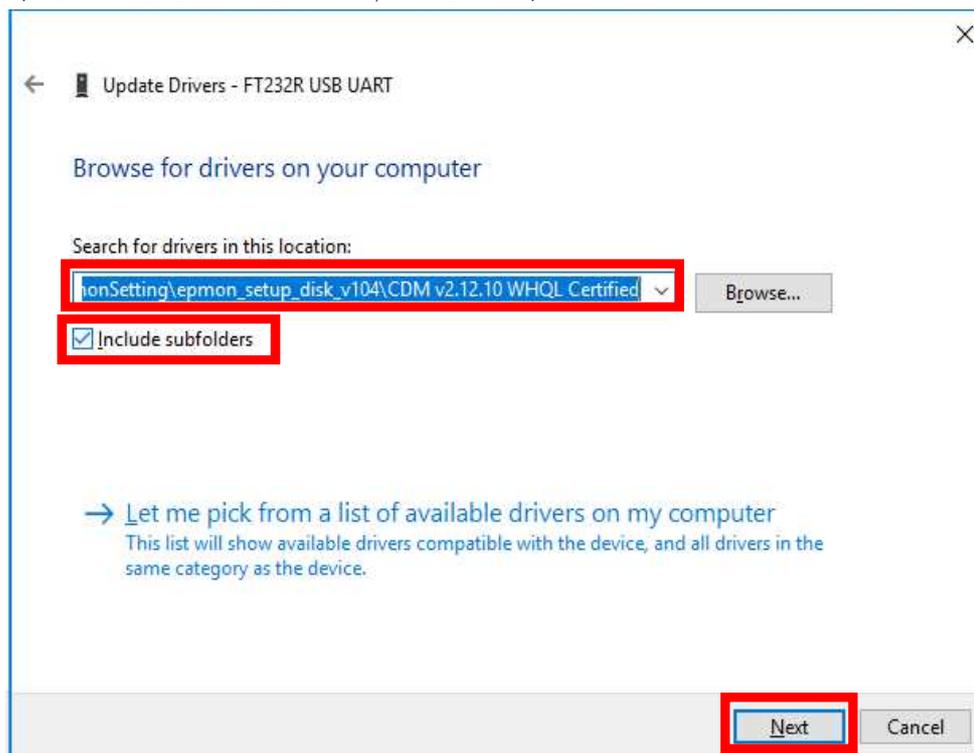
⑦ Click the Browse button.



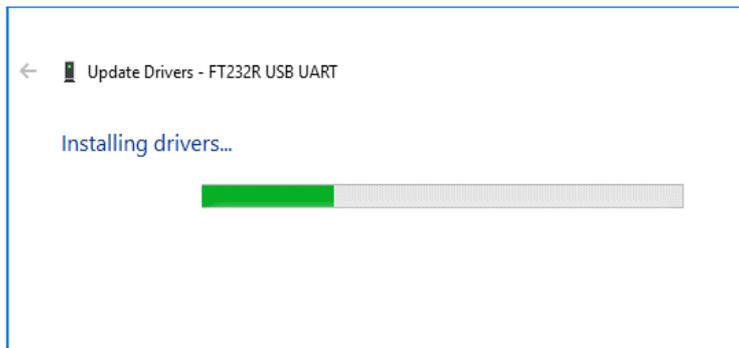
- ⑧ Select “CDM--v2.12.10 WHQL Certified” in the “Setup Disk” folder that was confirmed in ① and click the OK button.



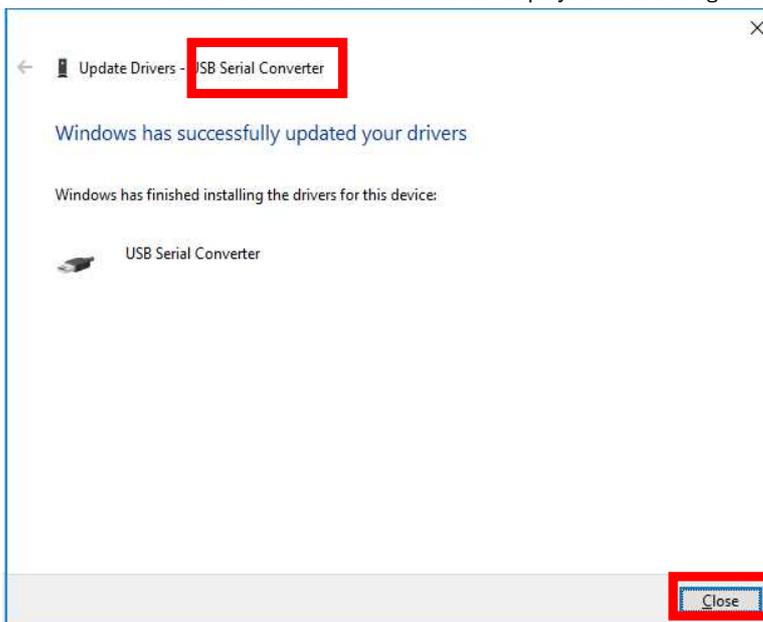
- ⑨ Confirm that the folder selected in ⑧ is displayed and click Next.  
(Check Search Down to Subfolders, if not checked)



⑩ Installation of the driver begins. The installation completes in about several seconds, although it depends on your PC.



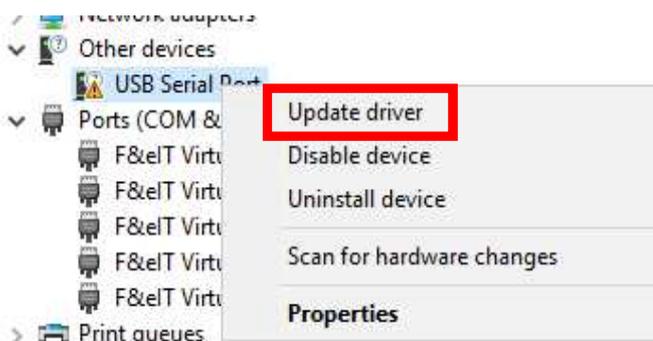
⑪ The screen below is displayed. Click Close. The installation of the Virtual COM Driver is required twice. Be careful that when “USB Serial Converter” is displayed as in the figure below, the installation is halfway through.



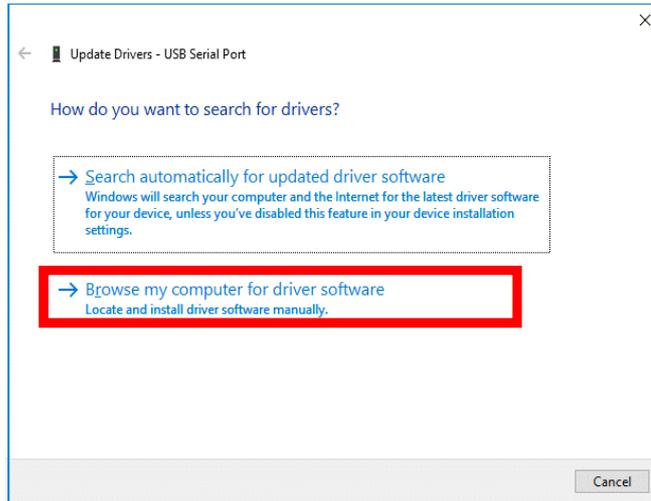
⑫ Returns to the Device Manager screen. If the name displayed changes from “TTL223R” → “USB Serial Port,” the procedures up to ⑪ has been successfully completed. When the name does not change, confirm the ① and subsequent procedures again.



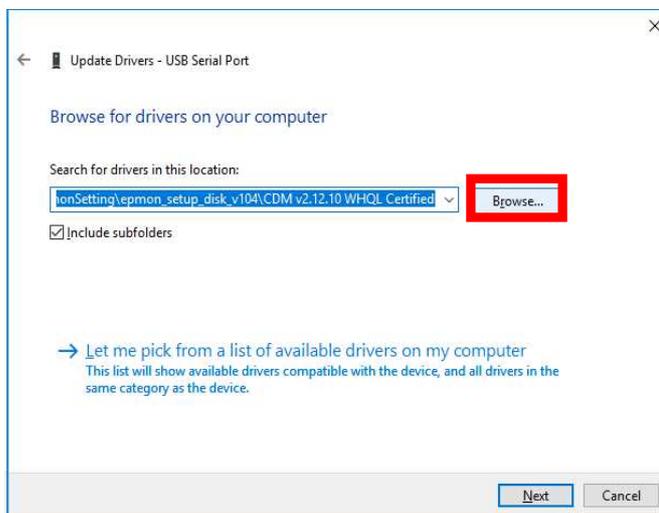
⑬ Right-click “USB Serial Port” that appears as an unknown device and select Update Driver Software.



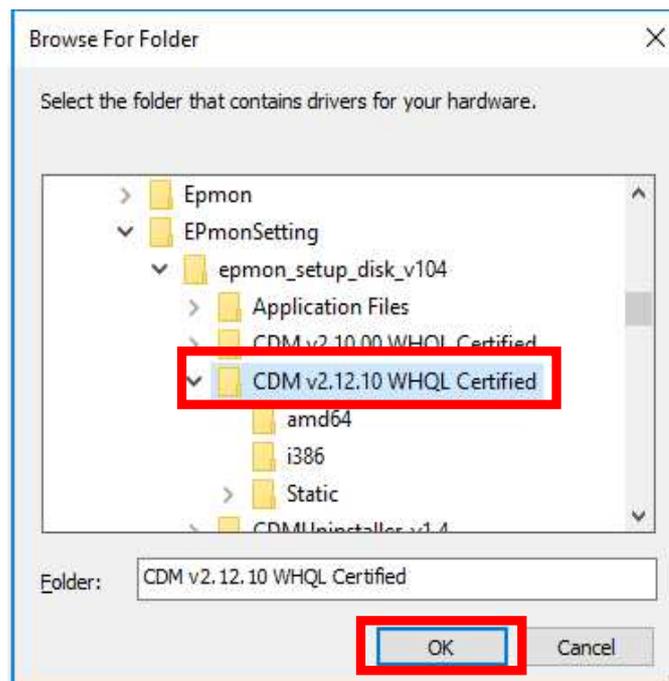
- 14 The screen below appears. Select “Browse Computer and Search Driver Software.”



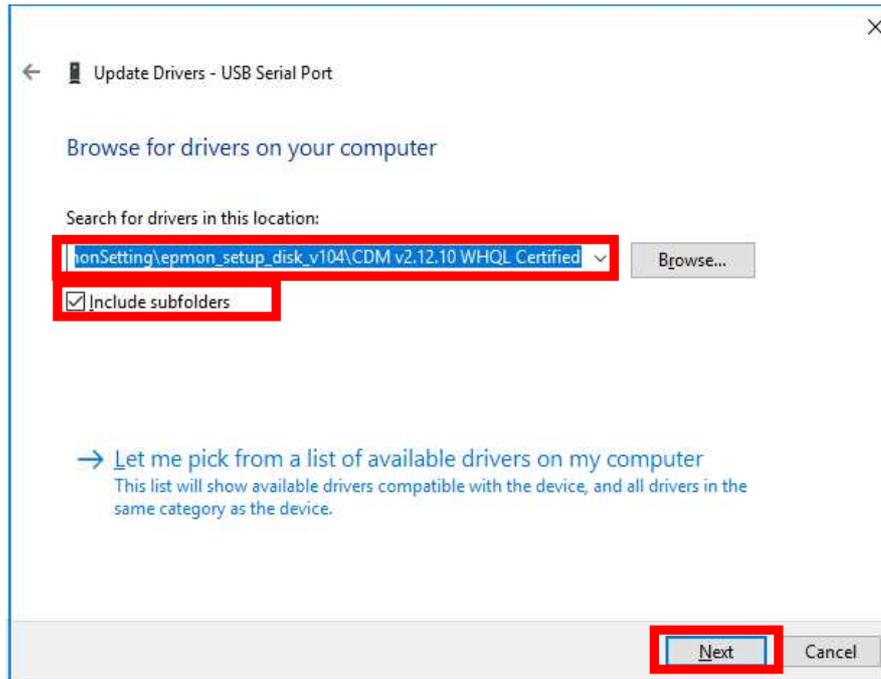
- 15 Click the Browse button.



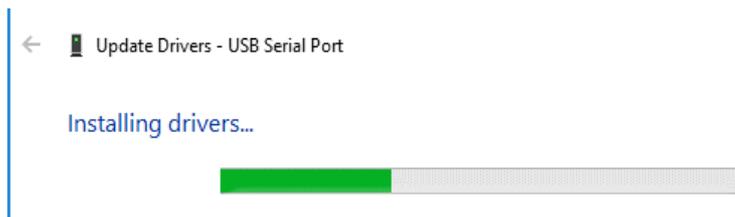
- 16 Select “CDM--v2.12.10 WHQL Certified” in the “Setup Disk” folder that was confirmed in 1 and click the OK button.



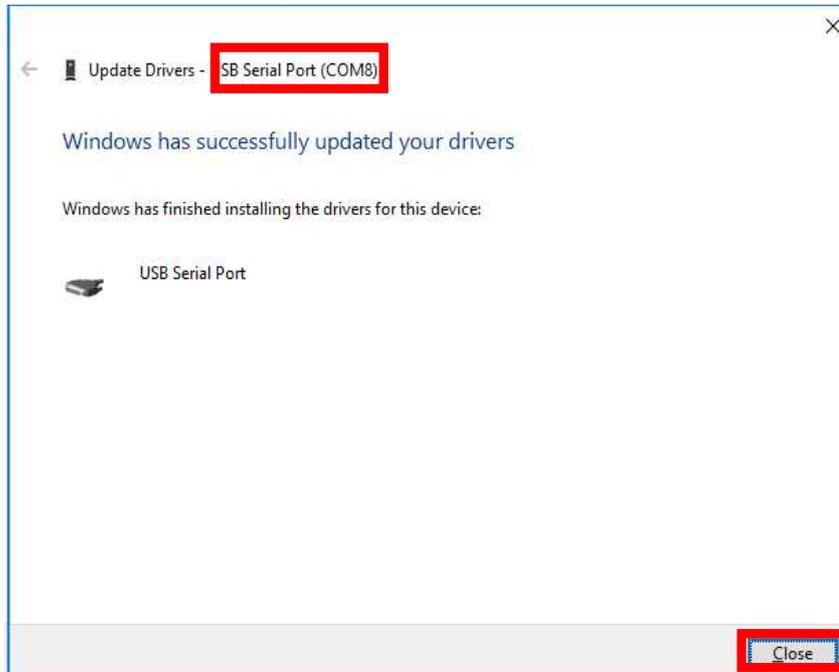
- ⑰ Confirm that the folder selected in ⑯ is displayed and click Next.  
(Check Search Down to Subfolders, if not checked)



- ⑱ Installation of the driver begins. The installation completes in about several seconds, although it depends on your PC.

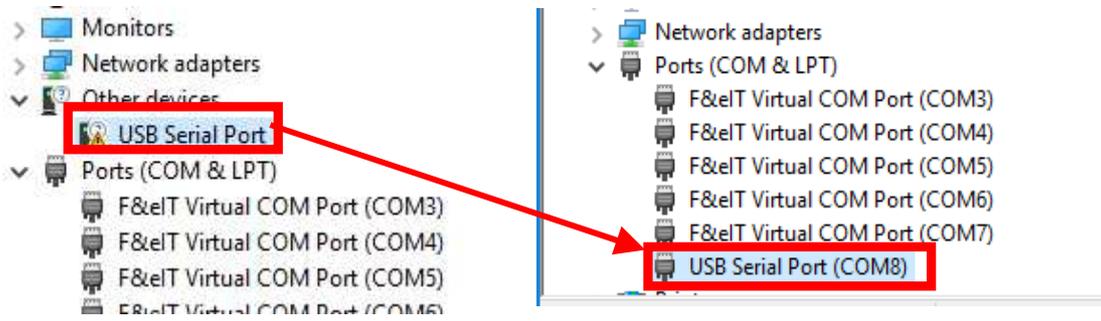


- ⑲ The screen below is displayed. Click Close.



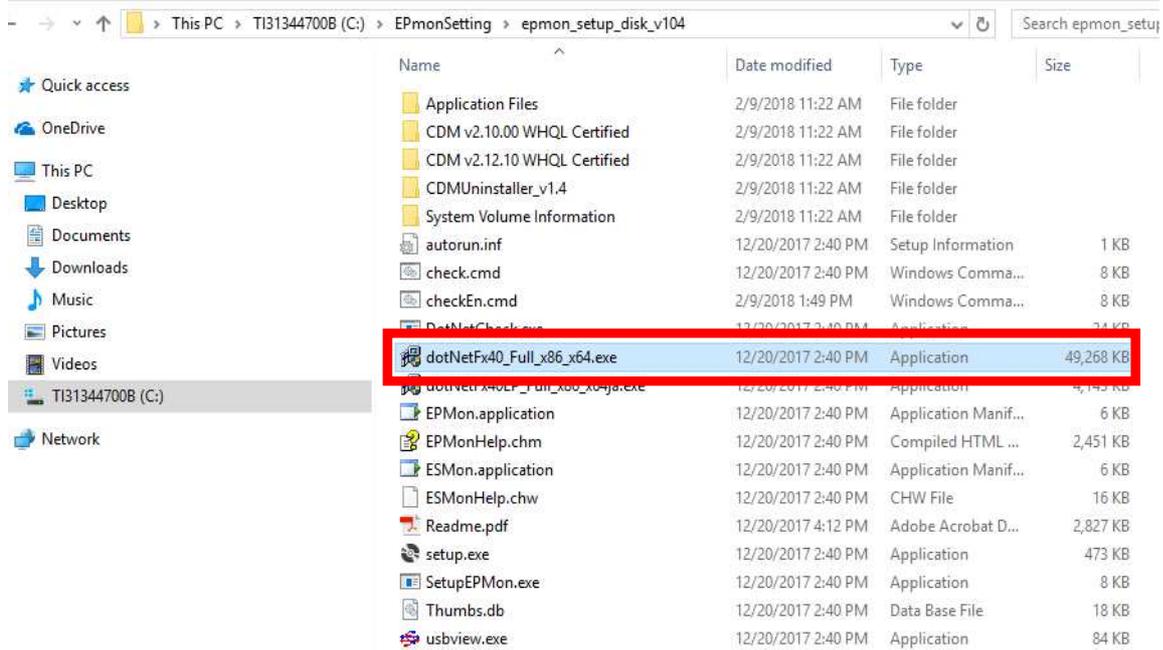
⑩ Returns to the Device Manager screen. Extract “Port (COM and LPT).” If the “USB Serial Port,” which was displayed on another device until a while ago, changes to “USB Serial Port (COM\*),” the installation of the Virtual COM Driver has been successfully completed.

While the figure below shows COM8, a number following COM differs, although it depends on your PC. Make a note of the “COM\*” information, as it is used when confirming the software’s connection.

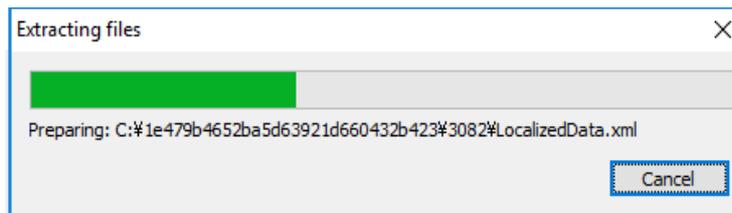


### 3. Installation of .NetFramework4.0

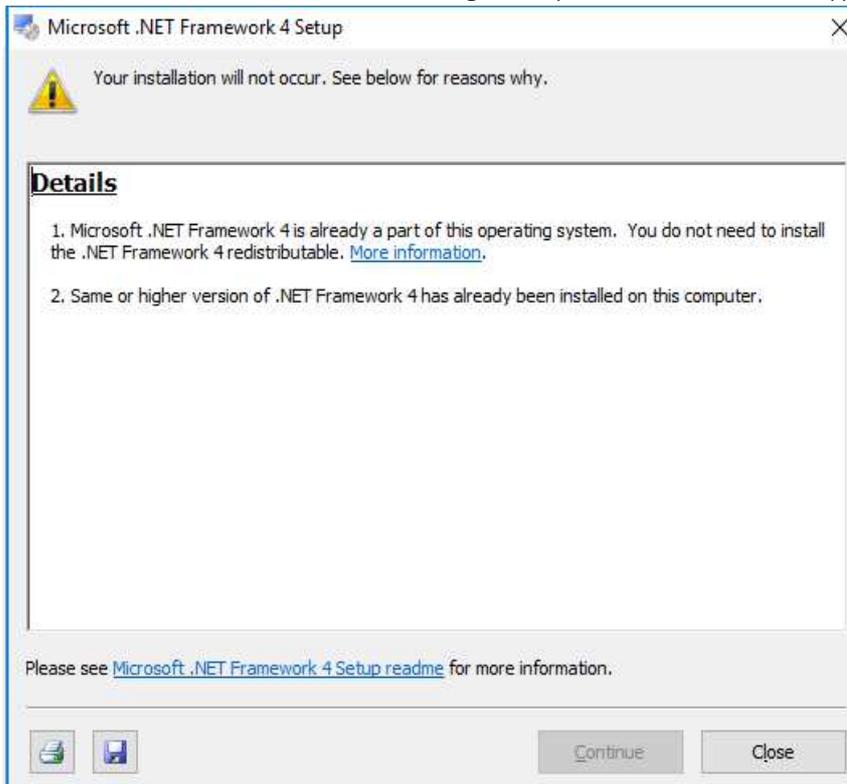
- ① Confirm the location where the “Setup Disk” folder will be downloaded.
- ② Double-click “dotNetFx40\_Full\_x86\_x64.exe” of the Setup Disk folder.



- ③ Extraction of the installation file begins.



- ④ When the message below appears, a “.NET Framework4” or later version of the software has already been installed. “Close the installation of “.NET Framework” and go on to perform “4.Installation of Application Program.”



- ⑤ A screen for confirming the license appears. Check “Agree” and click “Install.”  
(The following is a display on Japanese version PC.)



- ⑥ Installation begins.  
(The following is a display on Japanese version PC.)

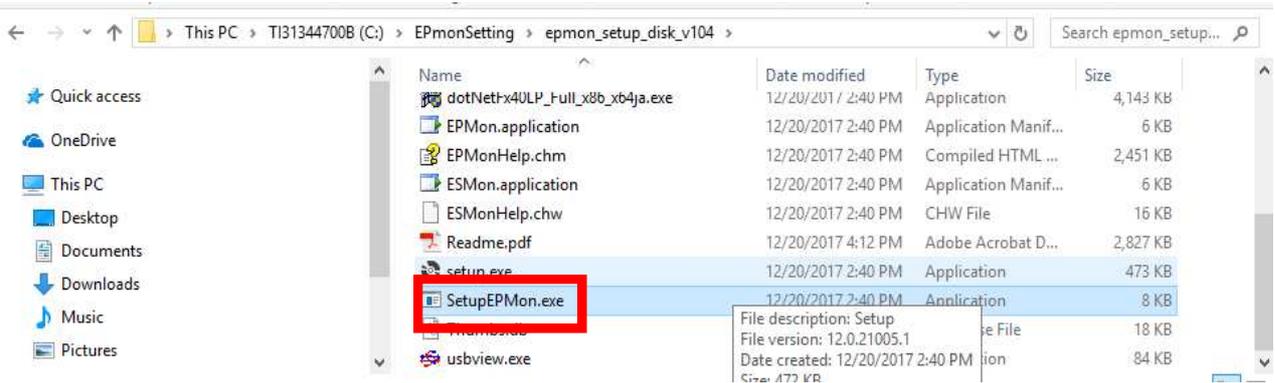


- ⑦ The installation is completed for about several minutes, 10 minutes at maximum.  
When the screen below appears, the installation has been complete. Click “Complete” to close the screen.  
(The following is a display on Japanese version PC.)

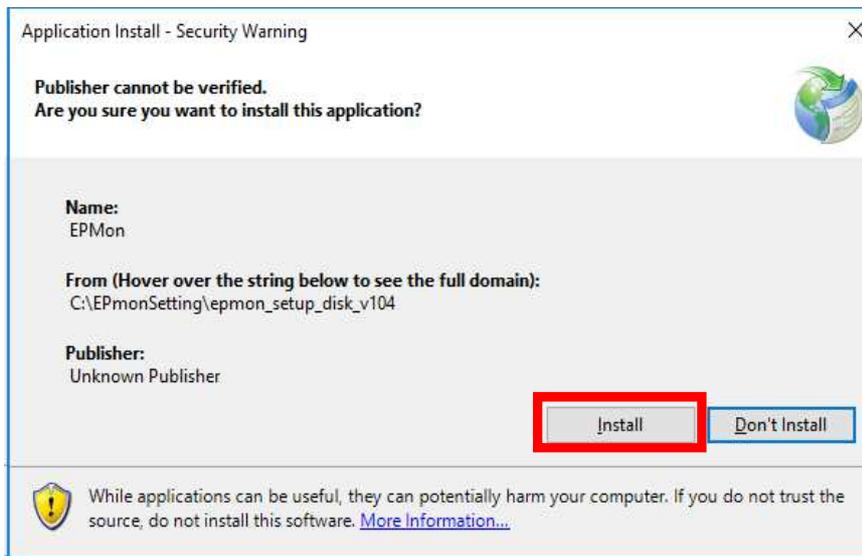


#### 4. Installation of Application Program

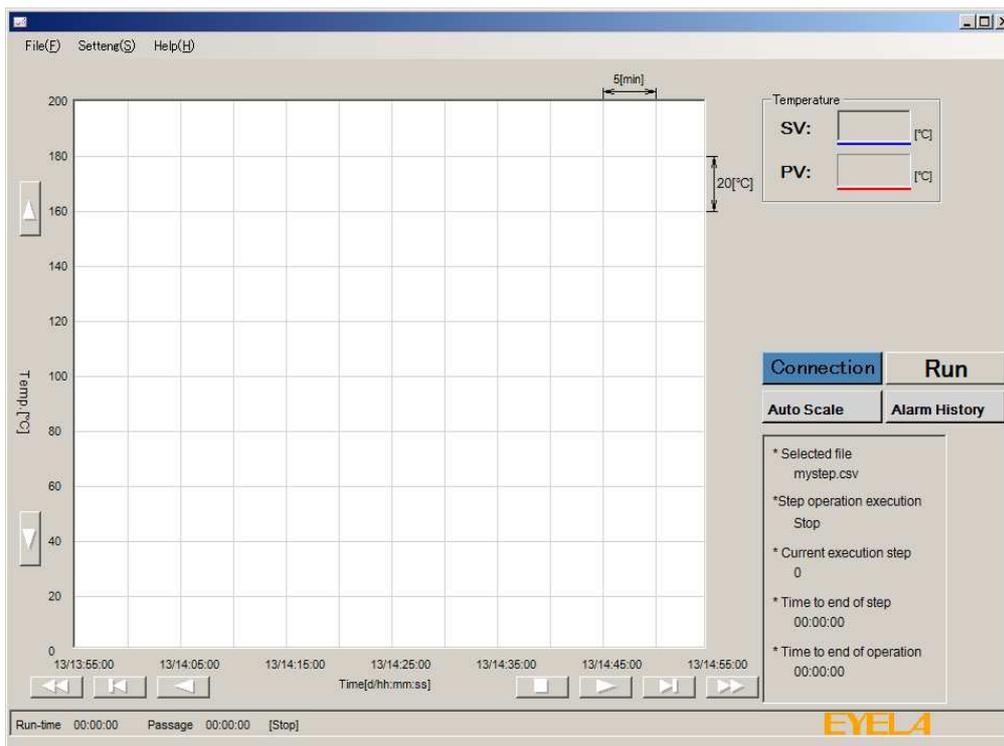
- ① Confirm the location of the “Setup Disk” folder where the program was extracted.
- ② Double-click “SetupEPMon.exe” of the Setup Disk folder.



- ③ Click Install when the screen below appears.



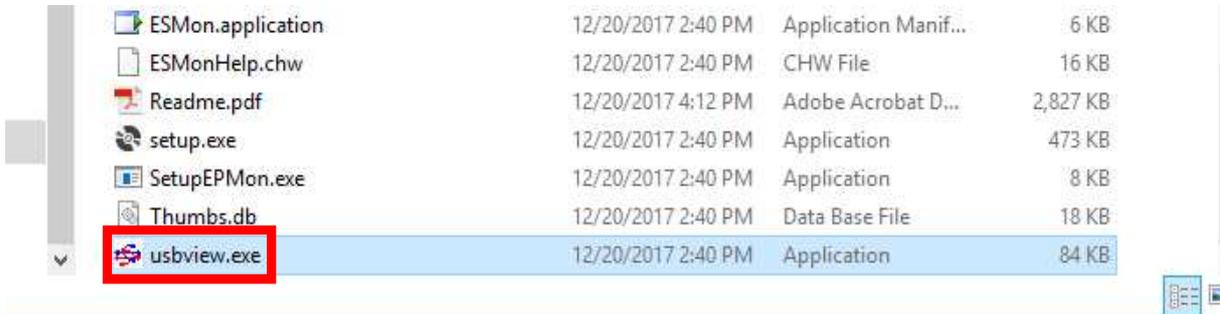
- ④ Installation has been completed and the application opens. Now you can start using it.



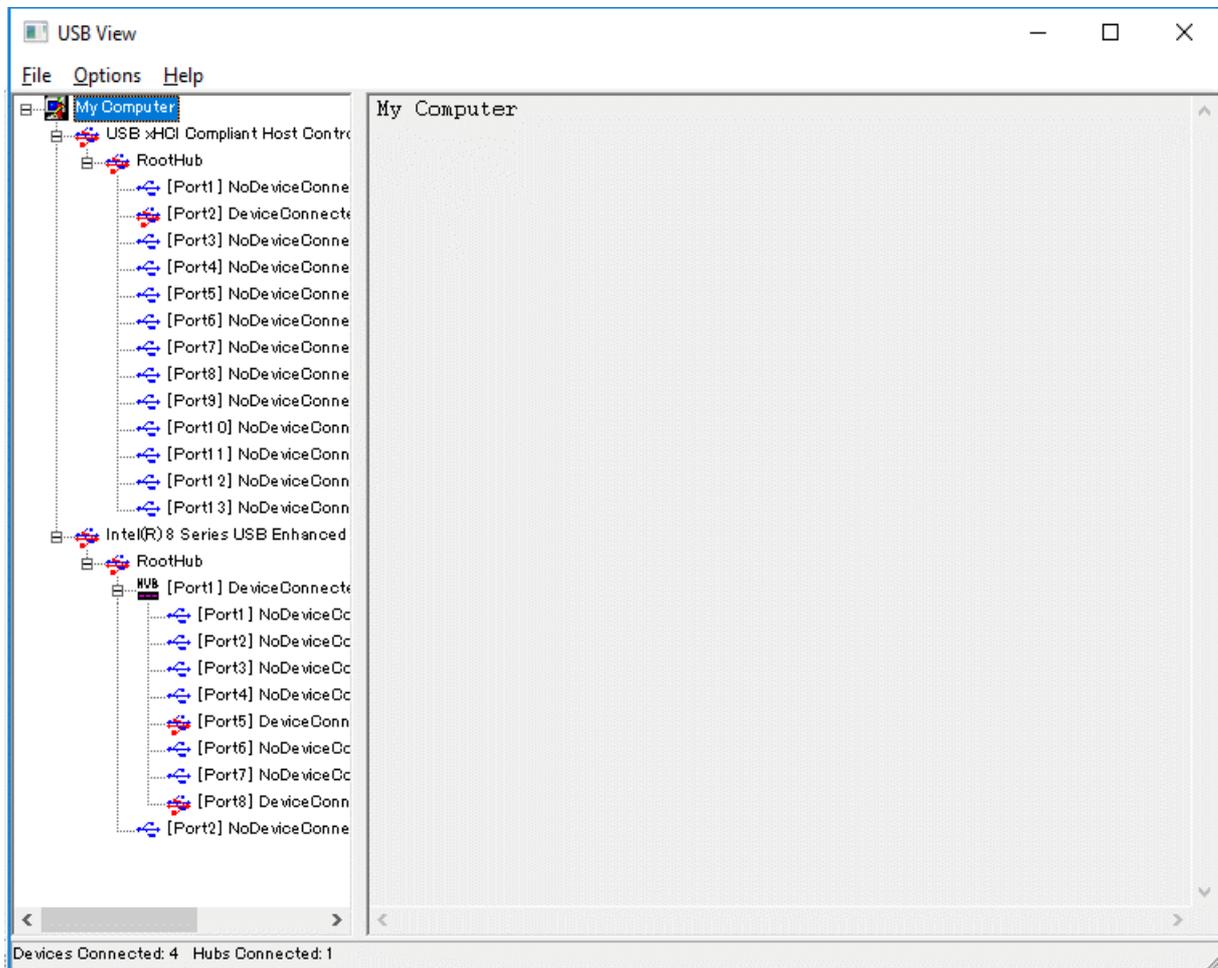
## 5. Other

### (1) Uninstallation of Virtual COM Driver

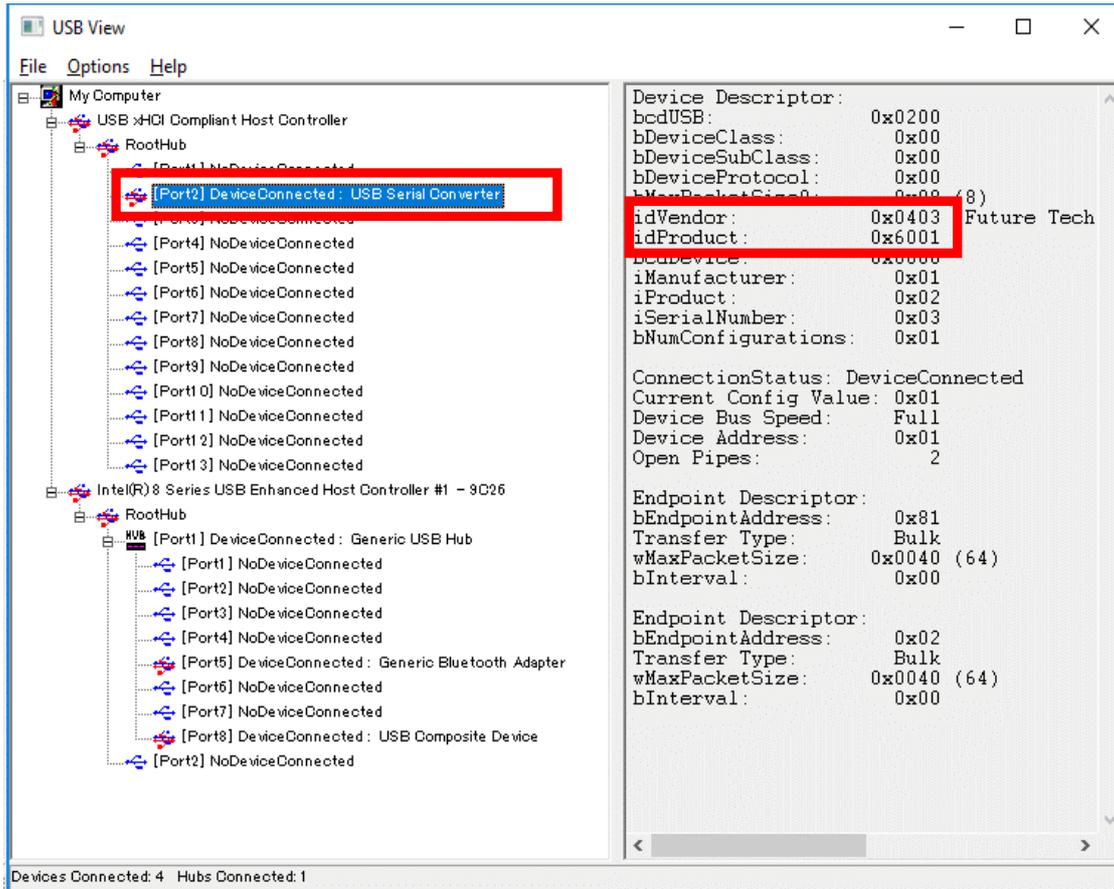
- ① Confirm the location of the “Setup Disk” folder where the program was extracted.
- ② Connect a connecting cable to a USB port on the PC.
- ③ Double-click and run “usbview.exe” of the Setup Disk folder.



- ④ “USB View,” a software used to confirm the state of the device inserted in the USB port, opens.



- ⑤ “Device Connected: USB Serial Converter” is listed under the port, if the installation of the Virtual COM Port has been successfully installed. Select as shown in the figure below.



- ⑥ When you select it, 6-character Vendor ID and Product ID beginning with “0x” are displayed in the right portion of the screen.

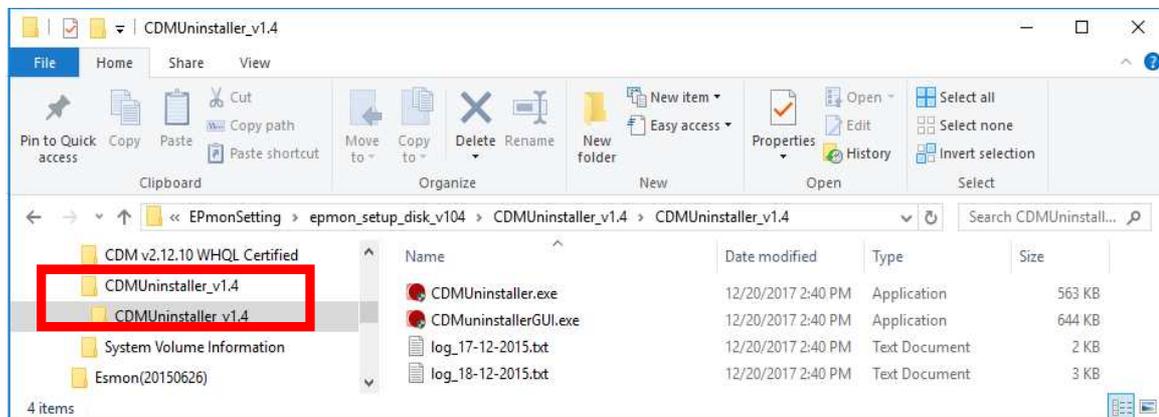
In the example above, the following IDs are displayed:

- \* idVender : 0x0403
- \* idProduct : 0x6001

These IDs are numbers individually assigned to a destination cable. Make a note of the numbers, as you will need those numbers later when you perform the uninstallation task.

- ⑦ Click “X” of “USB View” to close the program.

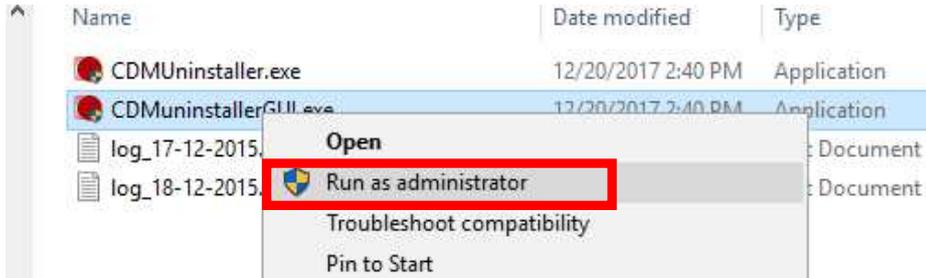
- ⑧ Extract “CDMUninstaller\_v14” in the Setup Disk folder.



⑨ Double-click “CDMuninstallerGUI.exe” in the folder extracted to open it.



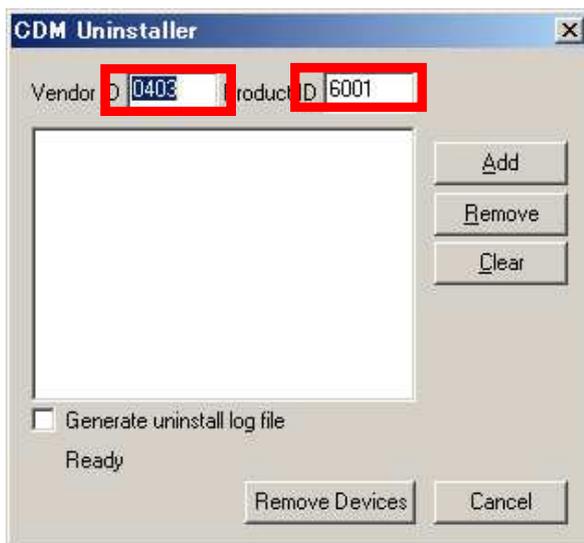
(Authoritative privileges are necessary to run the process in Windows 7 or later. Right-click and select “Run as Administrator”.



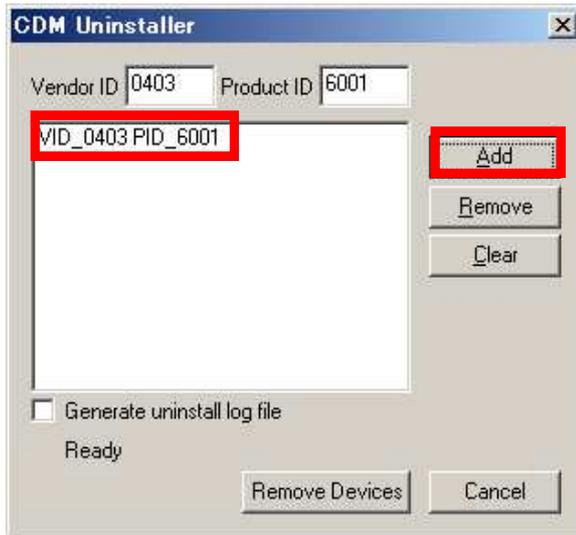
⑩ Double-click “CDMuninstallerGUI.exe” extracted in the folder to open it.

If the Virtual COM Driver is successfully installed, the numbers you made a note in ⑥ (“0403” and “6001” in the figure below) are displayed for “Vendor ID” and “Product ID.”

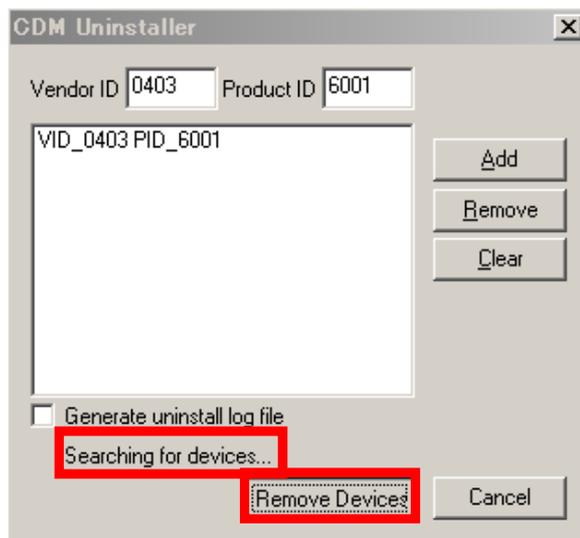
If those numbers are not displayed, the Virtual COM Driver is not installed, or the installation has failed. Suspend the uninstallation activities here.



- ⑪ When the numbers displayed coincide with those you noted down, click “Add” button to add the device (connecting cable).



- ⑫ Click “Remove Devices” button. (A message saying “Searching for devices...” appears)



- ⑬ After several seconds, a popup window saying “Remove Successful” appears. The uninstallation has been successful.

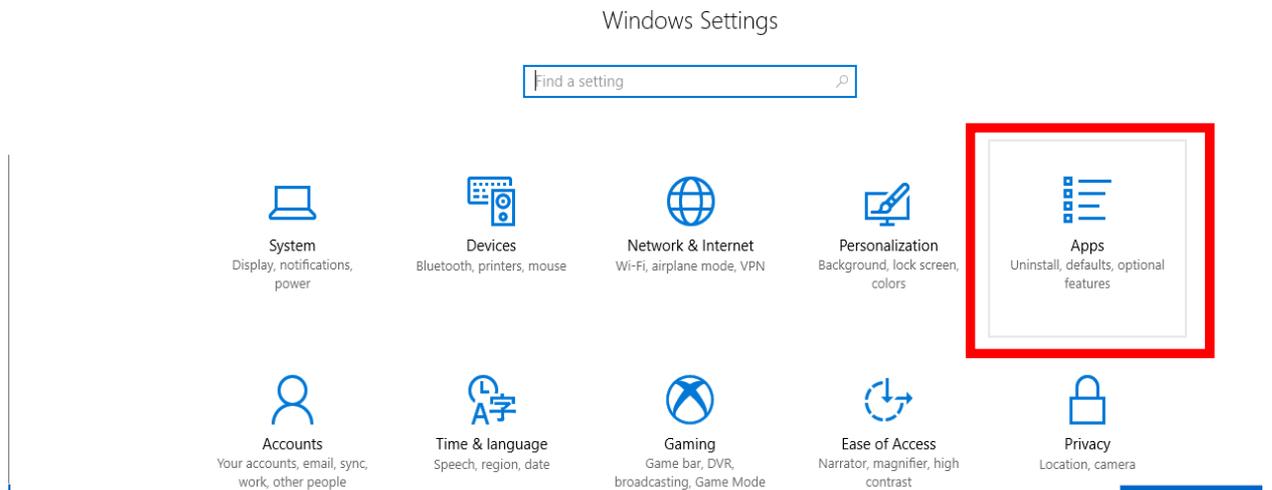


- ⑭ Click “Cancel” or “X” button to close the program.

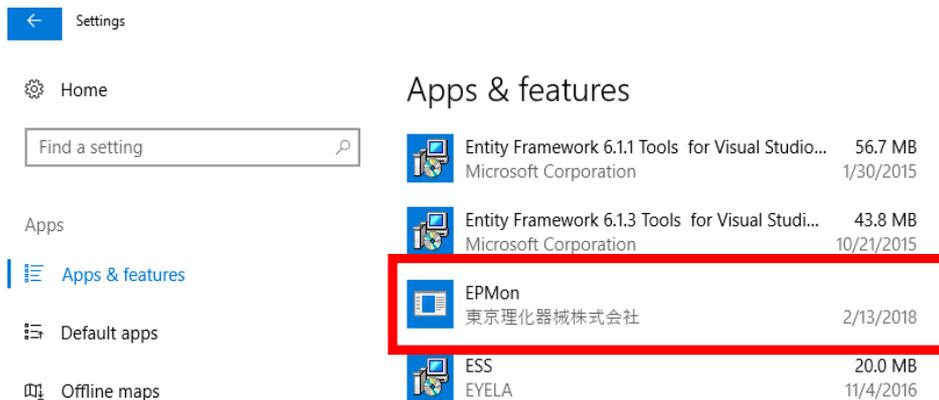
## (2) Uninstallation of Application Program

- ① Click in the order of “Start”→“Settings”
- ② Select “Apps” from the list of “Windows Settings”.

Settings



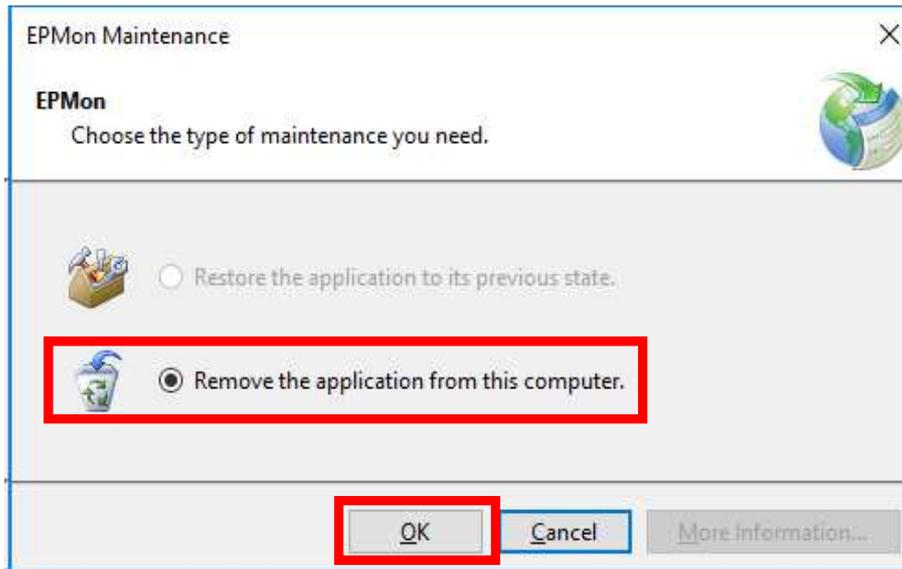
- ③ Click “EPMon” in the list of “Apps & features”.



- ④ Click “Uninstall”.



- ⑤ After confirming that “Remove the application from this computer.” is checked, click “OK”

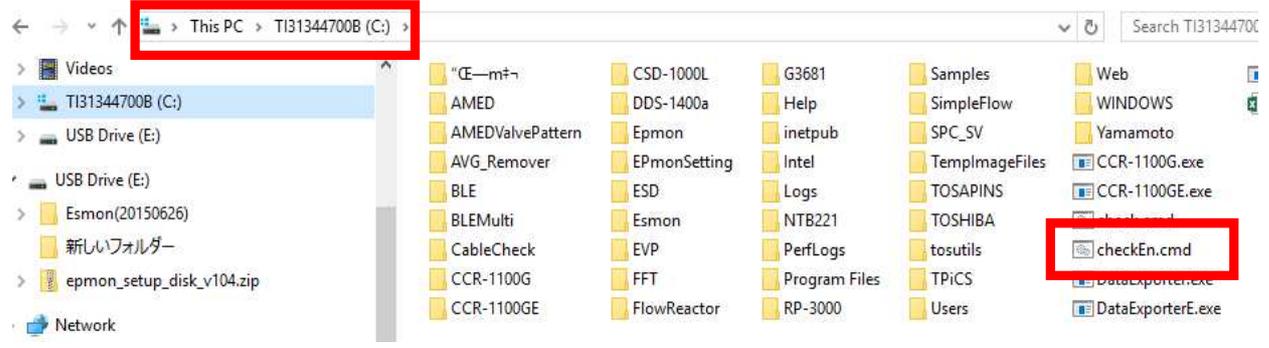


- ⑥ Return to “Apps & features” and you will see “EPMon” is removed.

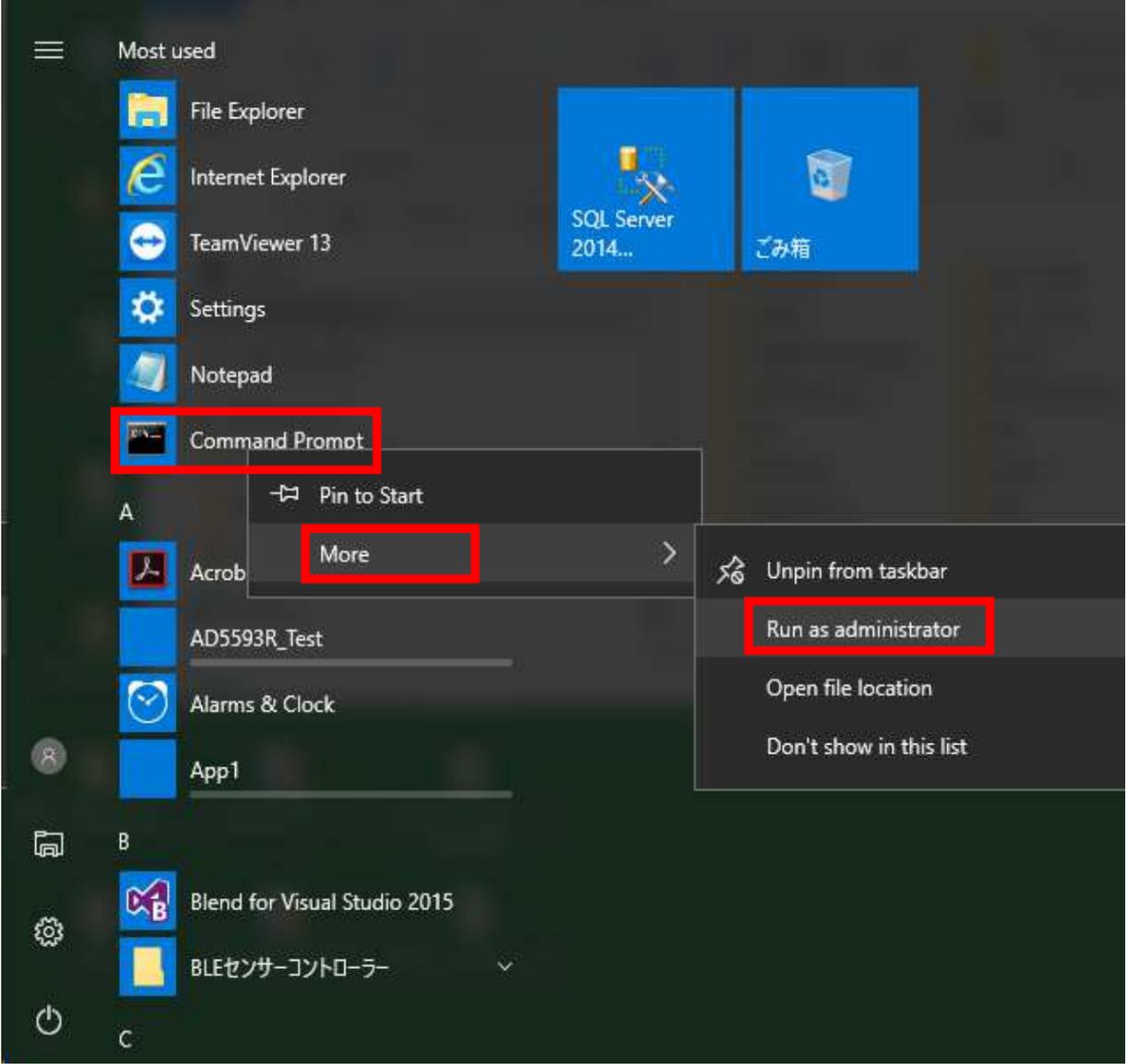
### (3) How to Determine the Version of “.NetFramework” Installed

The version of .NET Framework currently installed can be determined by running “check.cmd” in the “Setup Disk” folder from Command Prompt.

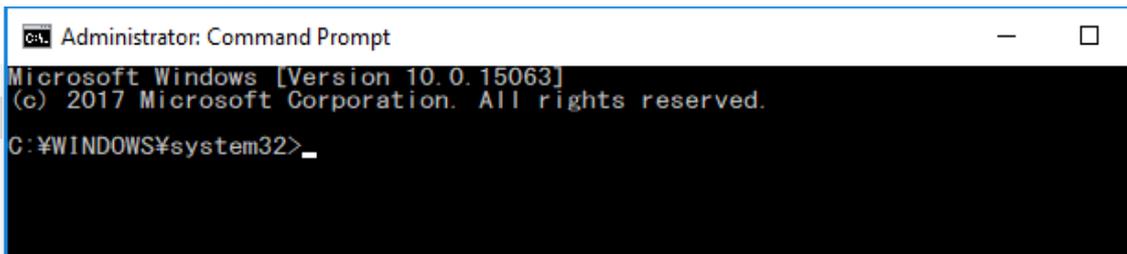
- ① Confirm the location where the “Setup Disk” folder will be downloaded.
- ② Copy “checkEn.cmd” in the “Setup Disk” folder right under the C drive to make it easier to run it from Command Prompt.



- ③ Click “Start,”  
Right-click “Command Prompt”,  
Click “More”→”Run as administrator”

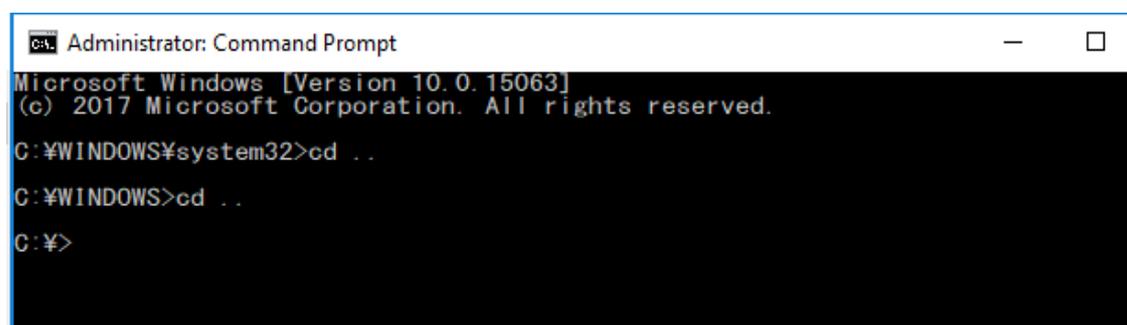


- ④ The Command Prompt opens.



```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>_
```

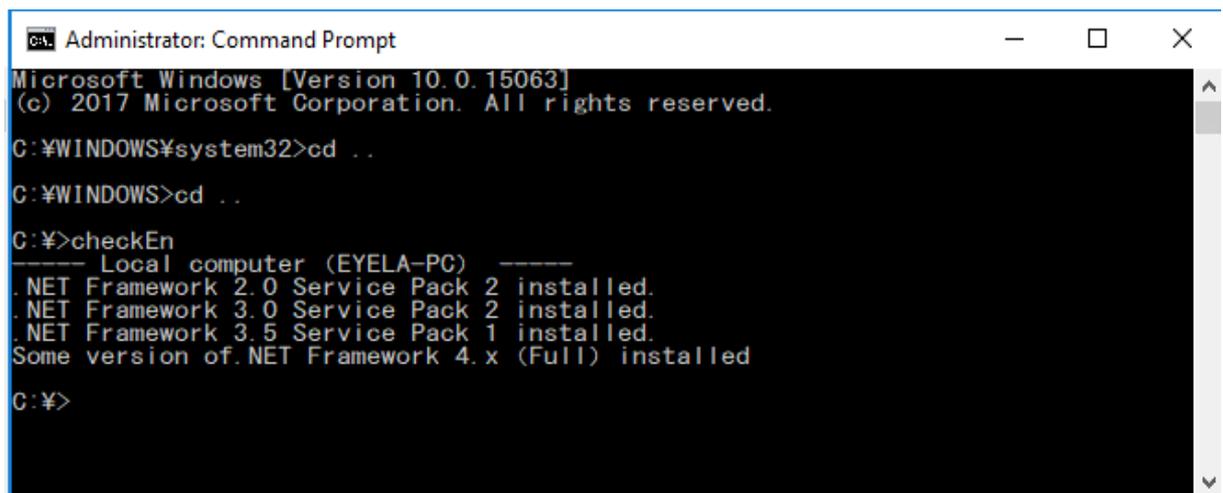
- ⑤ Enter "cd.." following ">," and move the current directory right under the C drive.



```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>cd ..
C:\WINDOWS>cd ..
C:\>
```

- ⑥ Enter "checkEn.cmd">" and press "Enter" key.

The version of .NET Framework installed appears as shown in the figure below. In the figure below, .NET2.0/.NET3.0/.NET3.5/.NET4.x are shown as installed.



```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>cd ..
C:\WINDOWS>cd ..
C:\>checkEn
----- Local computer (EYELA-PC) -----
.NET Framework 2.0 Service Pack 2 installed.
.NET Framework 3.0 Service Pack 2 installed.
.NET Framework 3.5 Service Pack 1 installed.
Some version of .NET Framework 4.x (Full) installed
C:\>
```

6. Revision History

Revision Status	Date	Content
1	March 1st, 2018	New edition