

# TeliCamSDK

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## Start-Up Guide

Version 2.0.2 (2017/08/07)

**TOSHIBA TELI CORPORATION**

Information contained in this document is subject to change without prior notice.

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# 1. Introduction

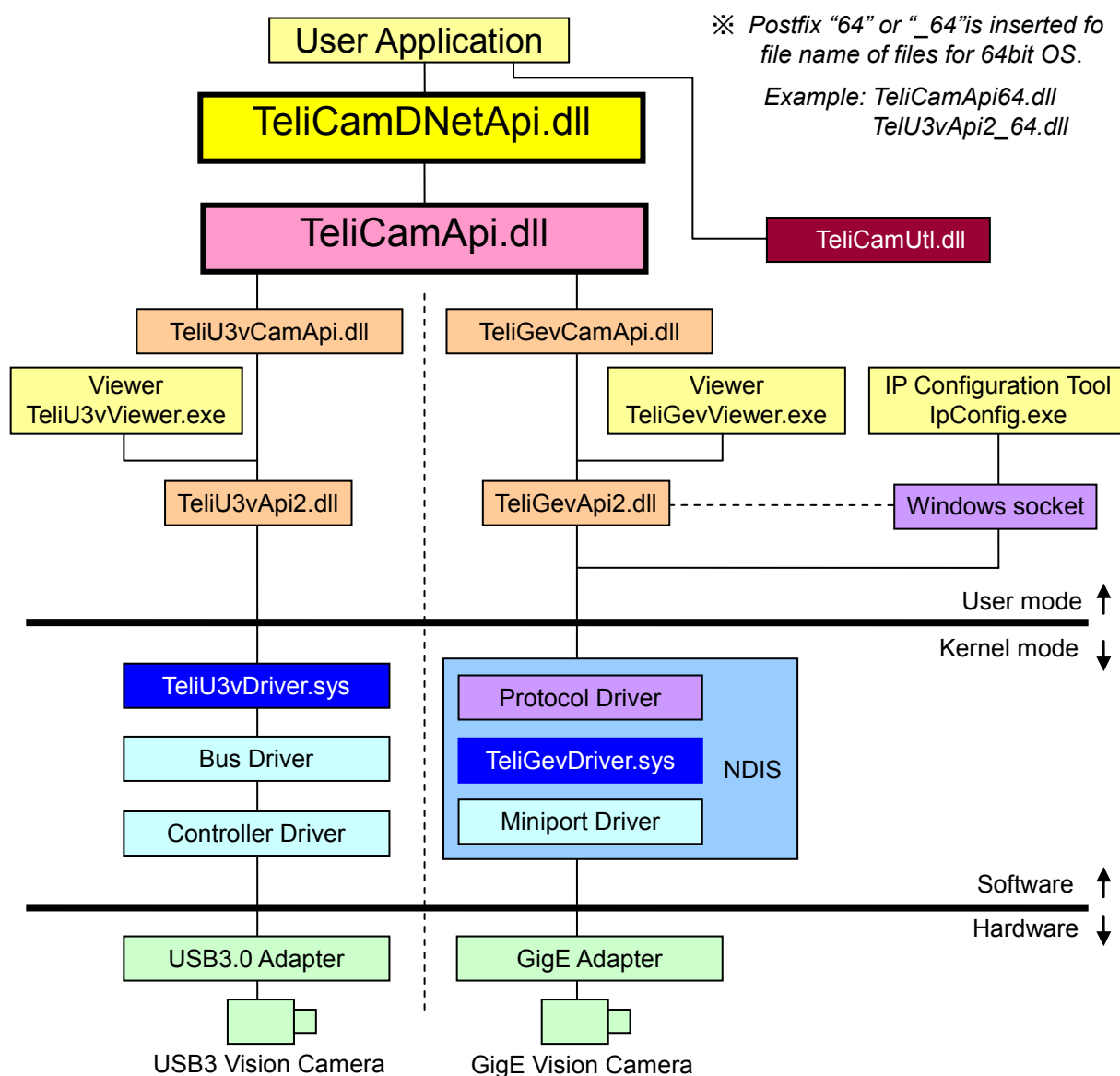
This document is a getting started guide for TeliCamSDK which is a software development kit used to control Toshiba Teli USB3 and GigE Vision I/F Digital Camera series.

This document describes the various settings required to use cameras.

Refer to “TeliCamAPI Library Manual Eng.pdf” for specifications of individual functions necessary for programming to use cameras.

## 2. Configuration

Software configuration of TeliCamSDK is as follows:



TeliU3vDriver is a dedicated driver for our USB3 Vision digital camera series, which is loaded to the Windows USB driver stack. The driver is loaded to a PC for each camera.

TeliU3vViewer is a sample viewer to check the features and the images of camera.

TeliGevDriver is installed in the Windows NDIS (Network Driver Interface Specification) stack.

IP Configuration Tool is an application to configure IP address of the camera.

TeliGevViewer is a sample viewer to check operations of the camera.

TeliCamApi is a high-level API. The application will be created by using TeliCamApi.

Use TeliCamDNetApi.dll, which is a class library based on high-level APIs of TeliCamApi.dll, for designing .NET Framework applications.

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## 3. Operating Environment

To use TeliCamSDK, it is necessary to meet the following conditions.

Also, higher performance may be required depending on the use conditions.

Supported OS	<ul style="list-style-type: none"><li>• Windows 7 32/64bit</li><li>• Windows 8.1 32/64bit</li><li>• Windows 10 32/64bit</li></ul>
Recommended PC spec.	<ul style="list-style-type: none"><li>• CPU : Intel Core2 2.40GHz or more</li><li>• Memory : 2Gbyte or more</li><li>• Graphics : 256Mbyte or more VRAM</li></ul>
USB3.0 adapter (recommended)	Adapters with a USB3.0 host controller manufactured by Renesas Electronics
Network adapter (recommended)	Jumbo Frame (Jumbo Packet) -compliant products (9014byte or more) . (Intel PRO/1000 series etc.)。
Runtime	<ul style="list-style-type: none"><li>• Microsoft Visual C++ 2010 SP1 Redistributable Package</li><li>• Microsoft Visual C++ 2005 SP1 Redistributable Package</li><li>• Microsoft Direct X End-User Runtime (DirectX 9.0c or later)</li></ul>
Supported camera	<ul style="list-style-type: none"><li>• USB3 Vision Camera manufactured by Toshiba Teli</li><li>• GigE Vision Camera manufactured by Toshiba Teli</li></ul>

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## 4. Installation

Disconnect cameras or power off the camera before starting installation.

Before installation of TeliCamSDK, please confirm the version in "TeliCamSDK Release Notes". (The default installation folder is "C:\Program Files\TOSHIBA TELI\TeliCamSDK\Documents".)

If an old version is already installed, make sure to uninstall it before starting installation of a new version.

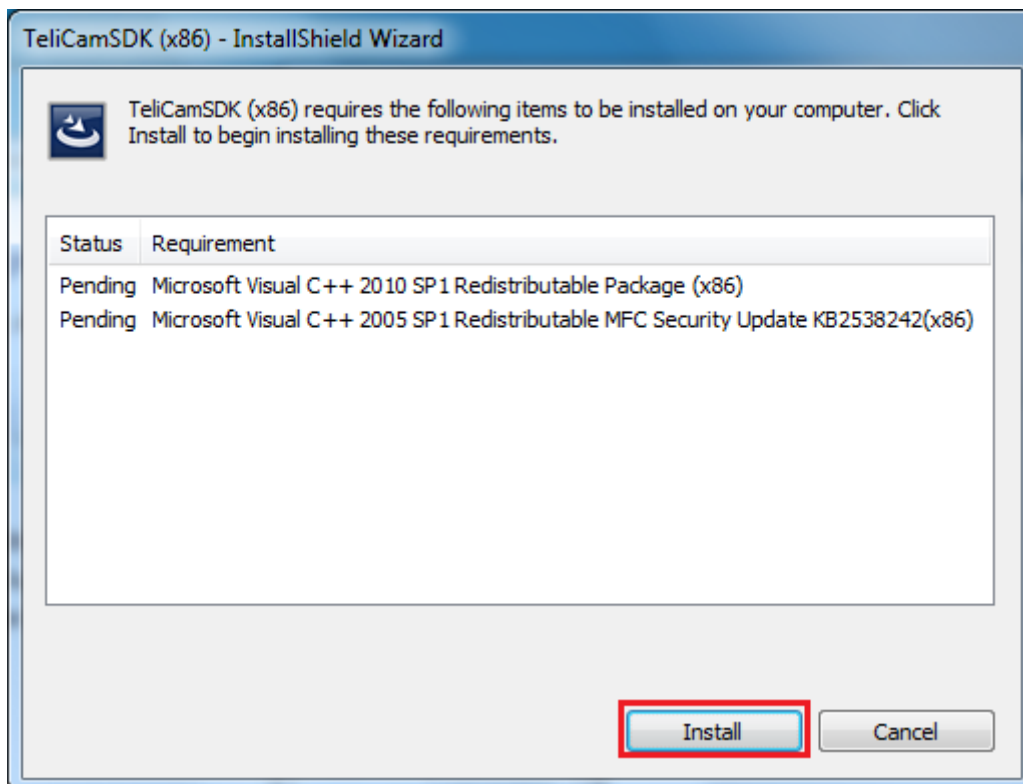
### 4.1. Package installation (TeliCamSDK)

TeliCamSDK provides installer for 32bit OS (SetupTeliCamSDK\_x86.exe) and installer for 64bit OS (SetupTeliCamSDK\_x64.exe). Select an installer corresponding to the OS type.

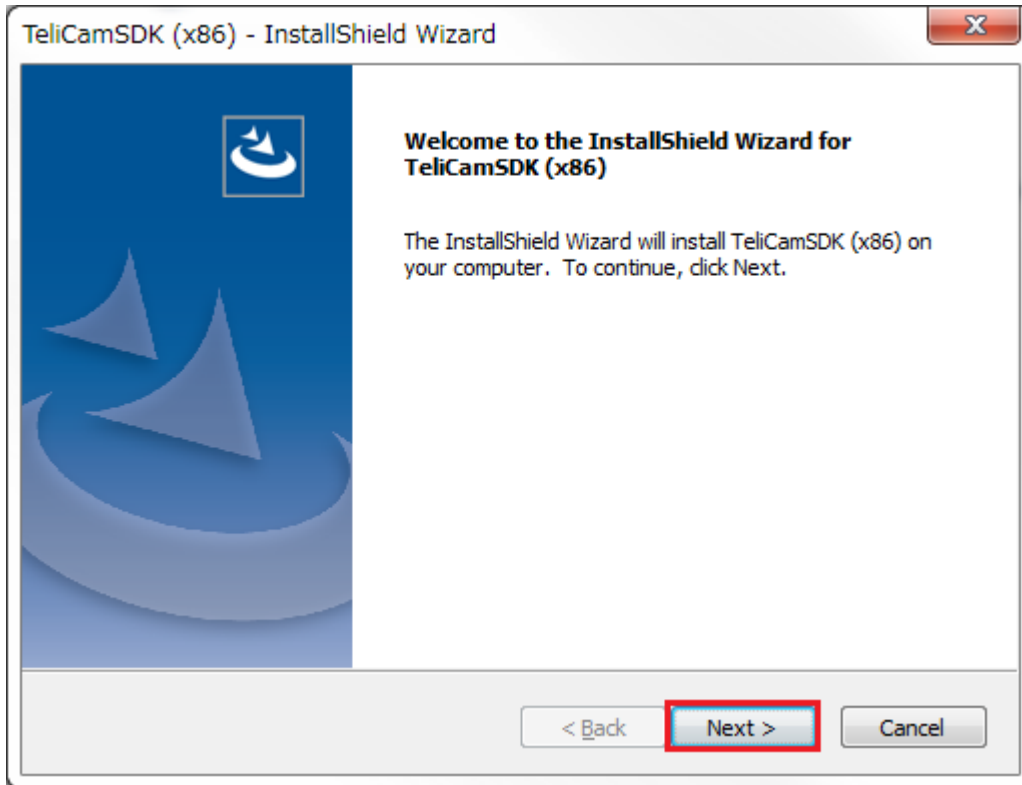
Installation wizard will appear when you run the .exe file.

If redistributable package is not installed on the PC, the following screen is displayed.

Click [Install] to install redistributable package.

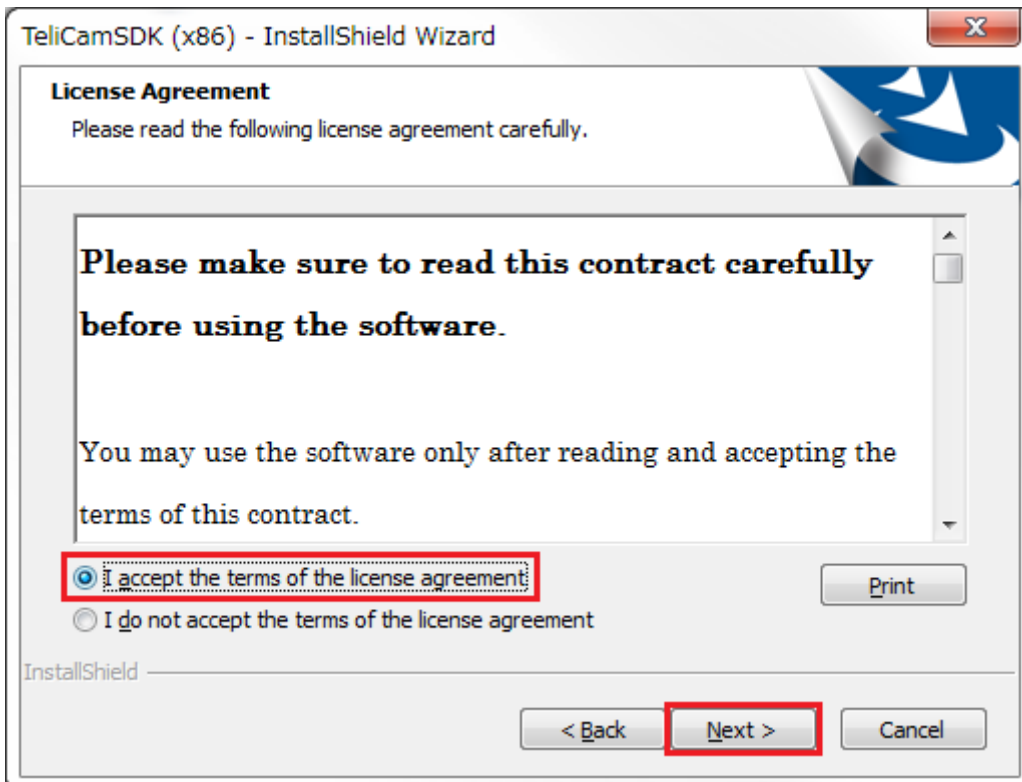


Click [Next].



Please read the following license agreement carefully.

Select the "I accept the terms of the license agreement", and click [Next].

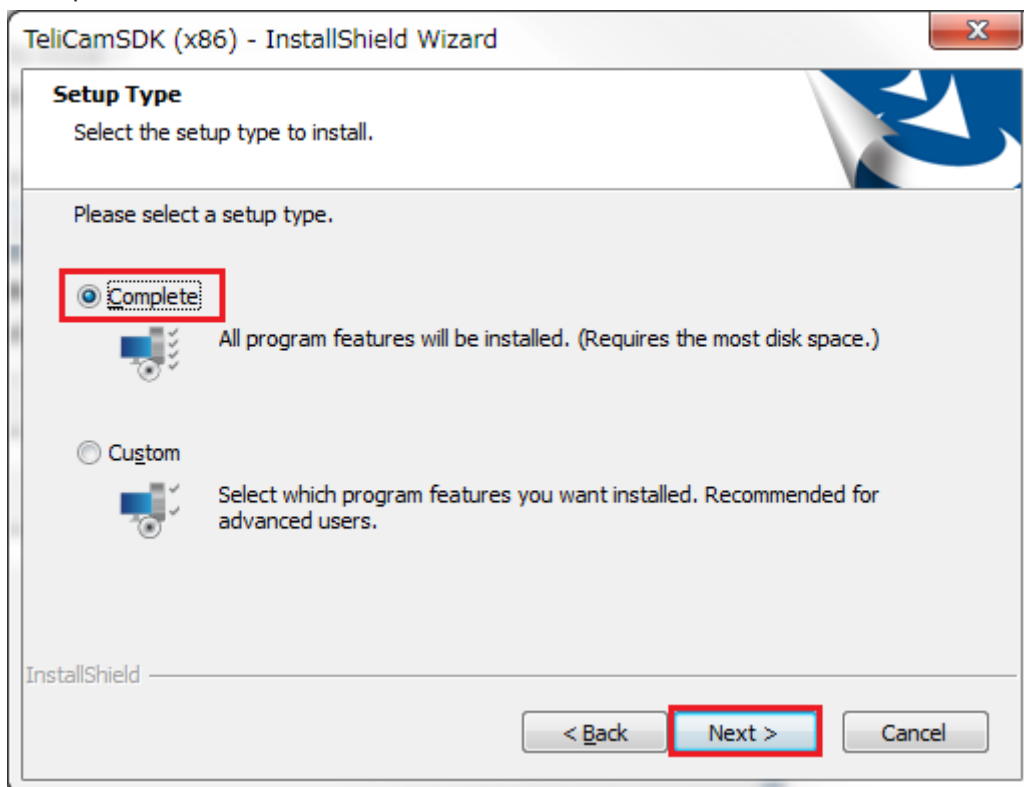


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Select the setup type to install, and press [Next] button.

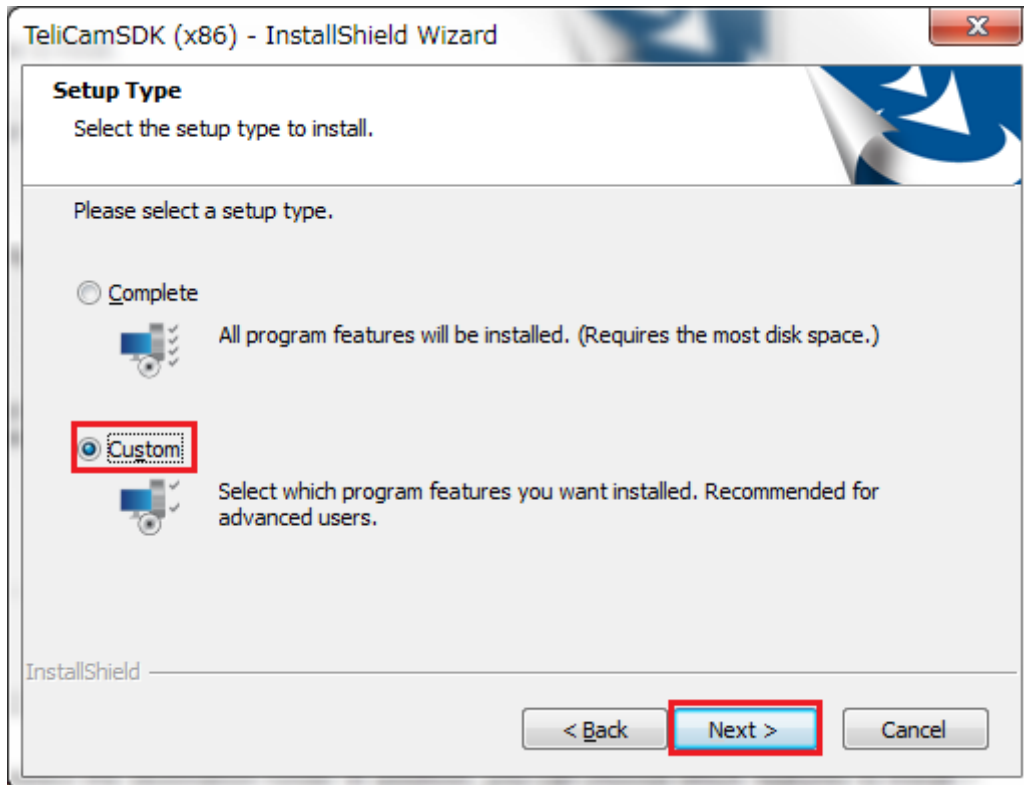
**[Complete]** ...All features are installed in the default folder. “[OS drive]\Program Files\TOSHIBA TELI\TeliCamSDK”

“Ready to install the program” screen (page 10) will appear on pressing [Next] button, if you select “Complete”.

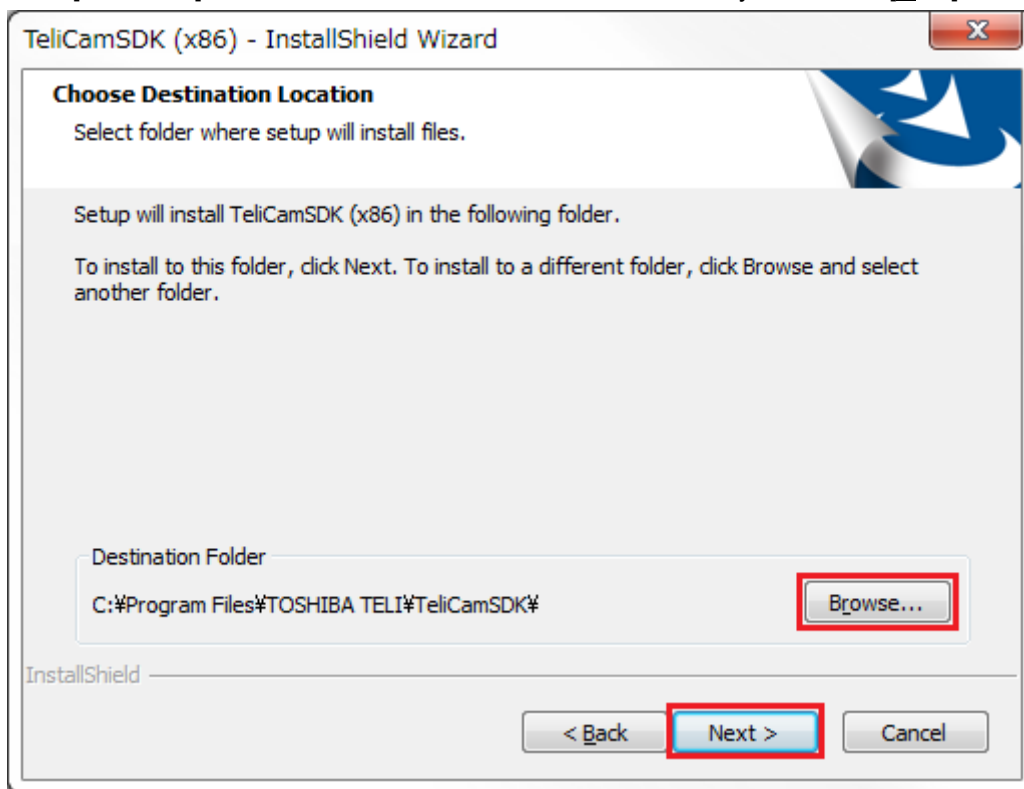




**[Custom]** ...You can select the destination folder and features install. "Choose Destination Location" screen (page 8) will appear on pressing [Next] button, if you select "Custom".



"Choose Destination Location" screen will appear when you selected "Custom" installation. The default destination folder is "[OS Drive]\Program Files\TOSHIBA TELI\TeliCamSDK\". Click [Browse...] button to select destination folder if necessary, then Click [Next].



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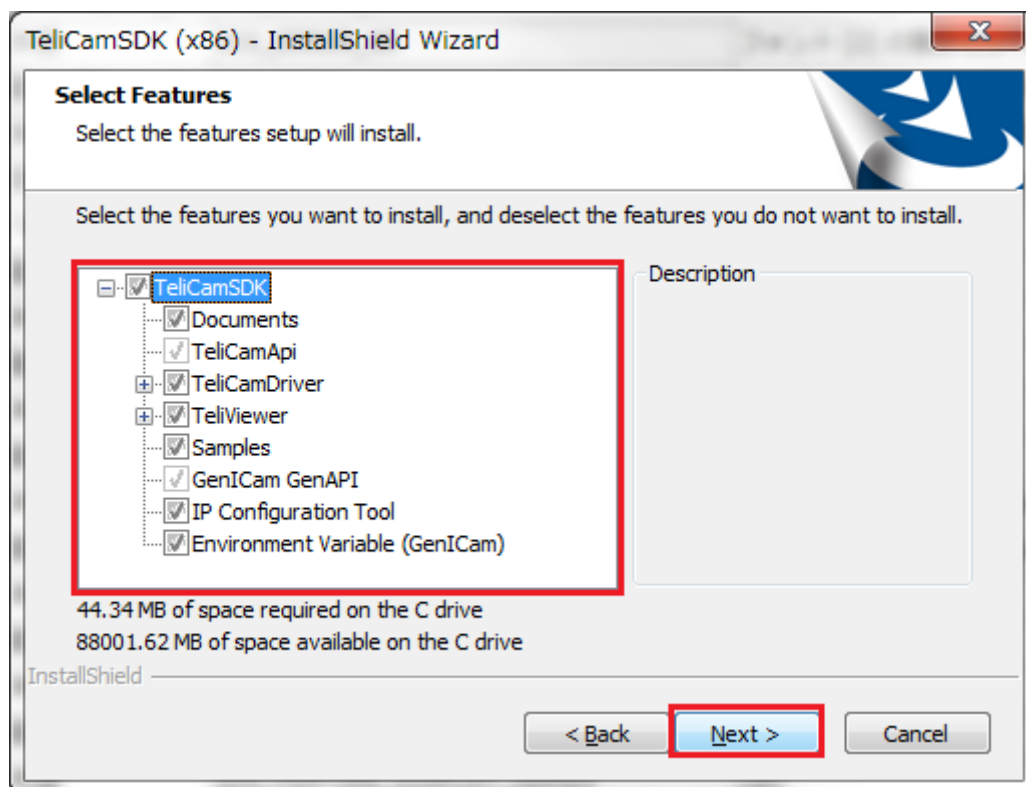
“Select features” screen will appear when you selected “Custom” installation.

Select the features you want to install, and deselect the features you do not want to install.

TeliCamSDK consists of the following features.

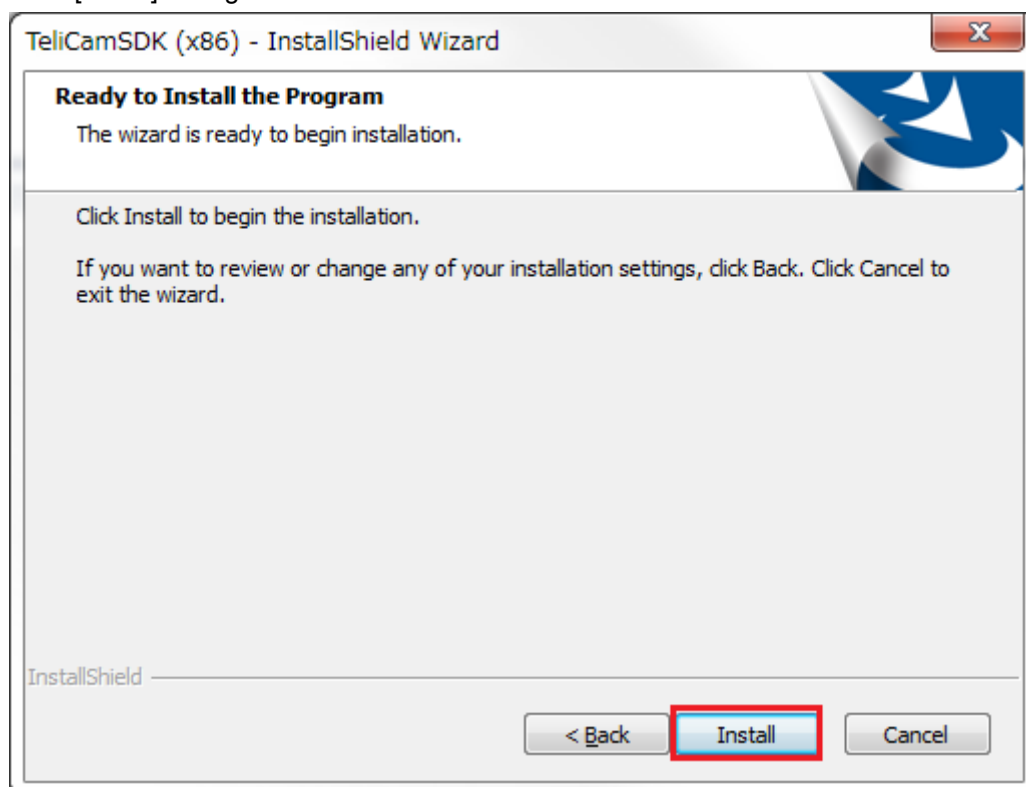
\* Please refer to [4.2 Folder configuration](#).

Document	Documents will be installed. (Manual, License, etc.)
TeliCamApi	Such as library files are installed.(bin, include, lib) “GenlCam” are selected automatically when “TeliCamApi” is selected.
TeliCamDriver	Driver related files will be installed. If the feature is enabled, dialogs for installing camera driver will appear during installation process..
TeliViewer	Viewer application will be installed. “TeliCamApi” are selected automatically when “TeliViewer” is selected.
Samples	Sample application will be installed. “TeliCamApi” are selected automatically when “Samples” is selected.
GenlCam GenAPI	GenlCam GenAPI Reference Implementation library will be installed. Functions in TeliCamApi library call functions in this library.
IP Configuration Tool	IP Configuration Tool will be installed. IP Configuration Tool is a tool for setting IP address parameter of GigE Vision camera. Please refer to <a href="#">5.5. GigE vision camera configuration</a> .
Environment Variable (GenlCam)	<p>Environment variables for GenlCam GenAPI library are registered to OS. The following variables will be registered.</p> <p>The case of 64 bits OS:</p> <ul style="list-style-type: none"><li>• <b>GENICAM_CACHE_V3_0</b> → [RoamingFolder]\TOSHIBA TELI\TeliCamSDK\GenlCam\xml\cache</li><li>• <b>GENICAM_GENTL64_PATH</b> → [InstallDir]\TeliCamApi\bin\x64</li><li>• <b>GENICAM_GENTL32_PATH</b> → [InstallDir]\TeliCamApi\bin\x86</li></ul> <p>The case of 32 bits OS:</p> <ul style="list-style-type: none"><li>• <b>GENICAM_CACHE_V3_0</b> → [RoamingFolder]\TOSHIBA TELI\TeliCamSDK\GenlCam\xml\cache</li><li>• <b>GENICAM_GENTL32_PATH</b> → [InstallDir]\TeliCamApi\bin\x86</li></ul> <p>*Variables "GENICAM_CACHE_V3_0" will be registered when they are not registered to OS, yet. As for variables "GENICAM_GENTL32_PATH" and "GENICAM_GENTL64_PATH", value that TeliCamSDK defines will be appended to the existing value with semicolon as a separator.</p>



Ready to install the program.

Click [Install] to begin the installation.

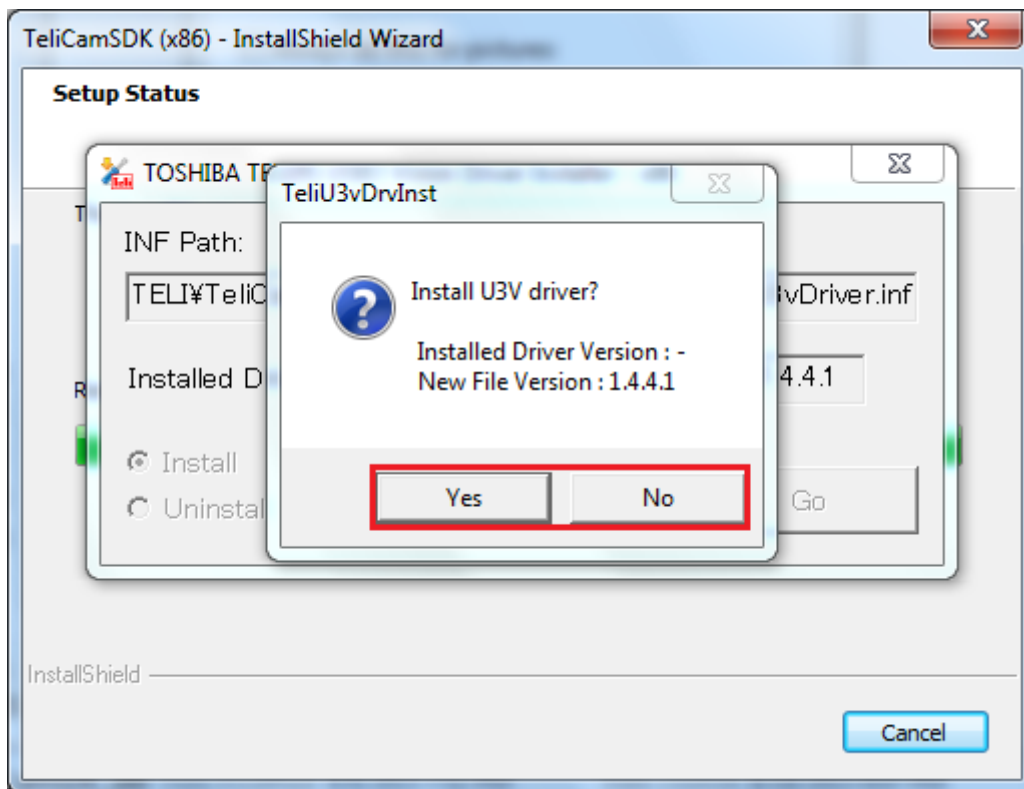


Installation progresses.

When finished copying SDK files, dialog for installing USB3 Vision will appear, Press [Yes] to install the driver, press [No] to do not install it.

\* If you unchecked the [TeliCamDriver → U3V] in the [Custom] Installation, this dialog will not appear because the driver file is not installed.

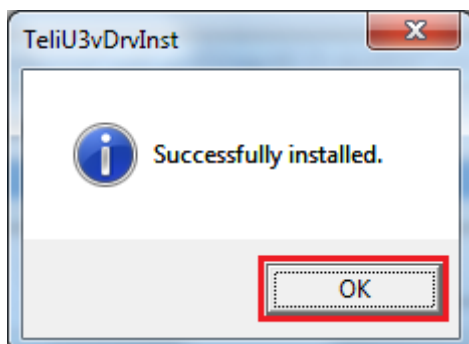
\* If you select [No] here, driver will not be installed. You can install the driver later using installation tool. Please refer to [6.1. Driver Installation \(Using Tool\)](#).



If you have selected [Yes], it will start the installation of the USB3 Vision driver.

The driver installation might take a little time to complete.

If the following dialog is displayed, the USB3 Vision driver installation is completed. Click [OK].

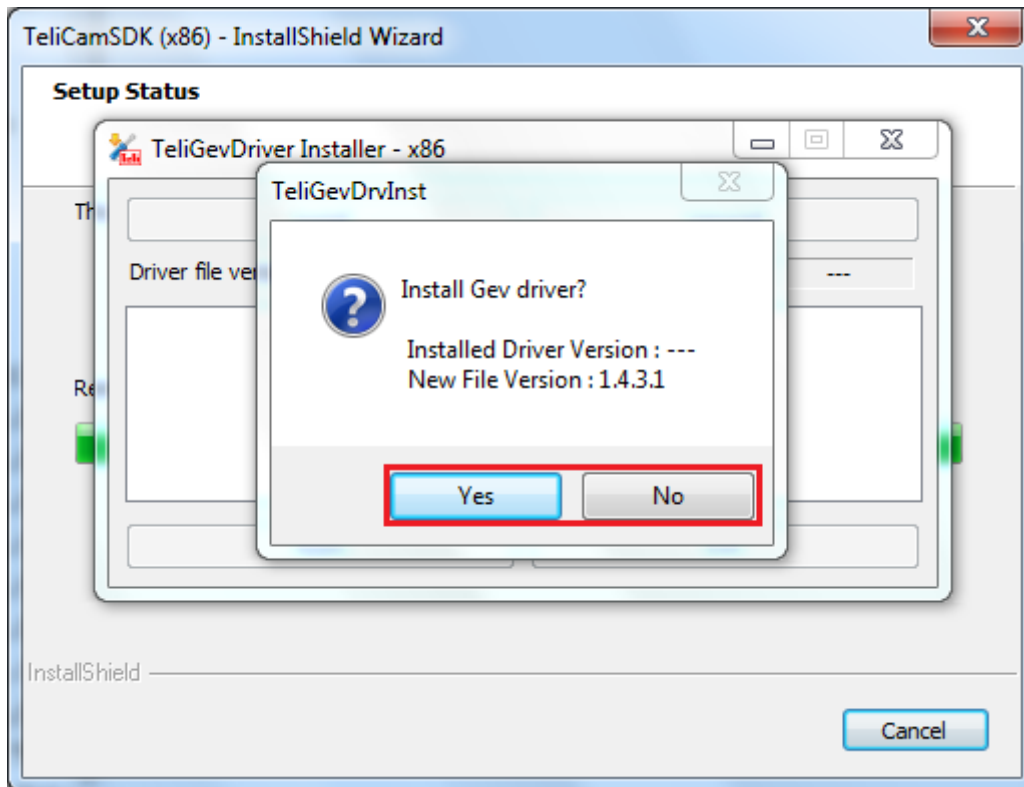


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Next, dialog for installing GigE Vision's driver installer will appear, Press [Yes] to install the driver, press [No] to do not install it.

\* If you unchecked the [TeliCamDriver → Gev] in the [Custom] Installation, this dialog will not appear because the driver file is not installed.

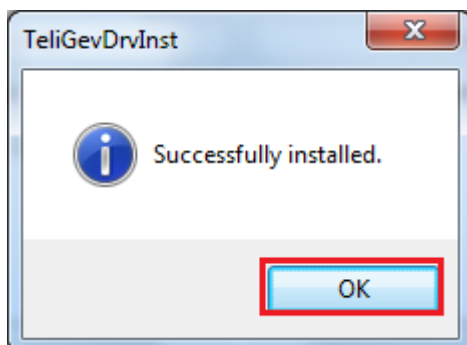
\* If you select [No] here, driver will not be installed. You can install the driver later using installation tool. Please refer to [5.1. Driver Installation \(Using Tool\)](#).



If you have selected [Yes], it will start the installation of the GigE Vision driver.

The driver installation might take a little time to complete.

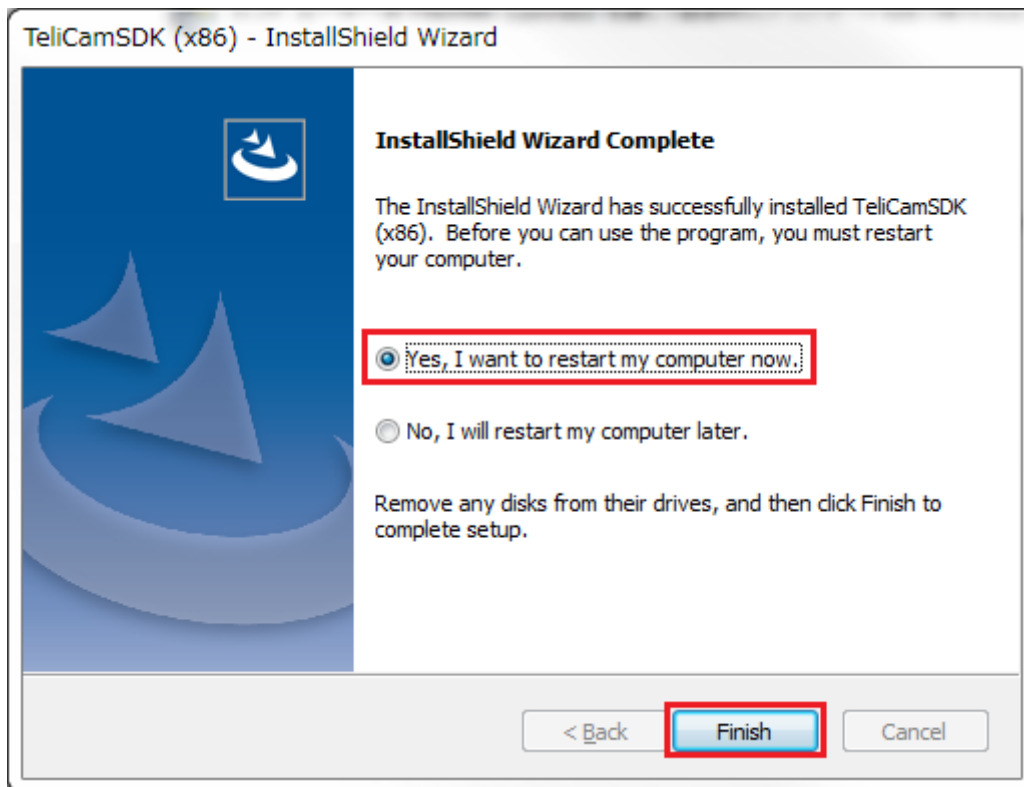
If the following dialog is displayed, the GigE Vision driver installation is completed. Click [OK].



Installation completed successfully.

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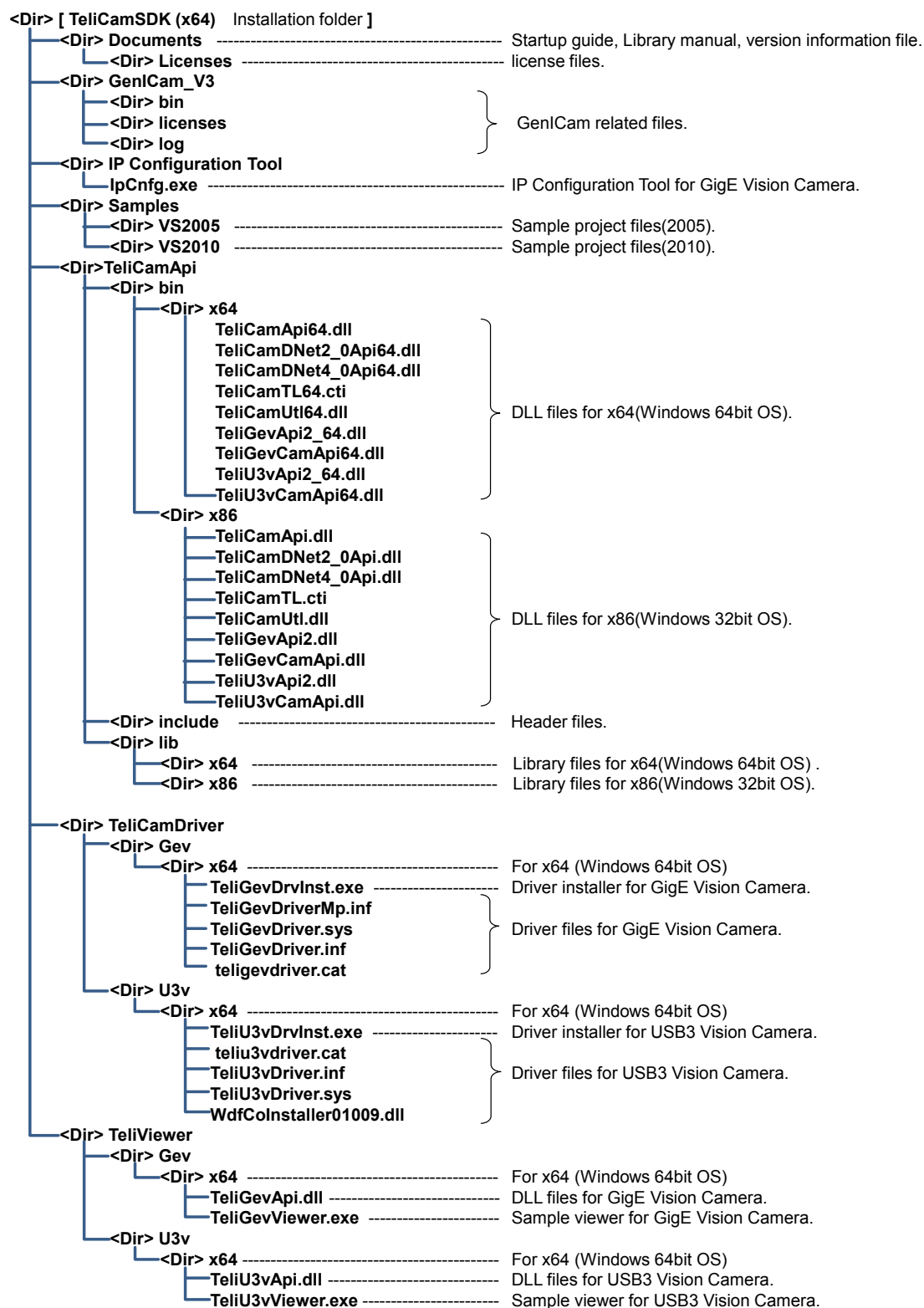
Restarting computer is necessary for making the installation effective.



## 4.2. Folder configuration

The following files will be created under the installation folder (\\Program Files\\TOSHIBA TELI\\TeliCamSDK unless otherwise specified) when the installation was done successfully.

(In the case of 32 bits OS, name of “x64” folders in “TeliCamDriver” and “TeliViewer” folders will be replaced by “x86”.)



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## 5. GigE Vision Digital Camera Guide

The installation of the GigE Vision driver is required not only installation of TeliCamSDK package if you use the GigE Vision digital camera,.

See section "[5.2. Driver installation \(Manual\)](#)" if you want to install manually.

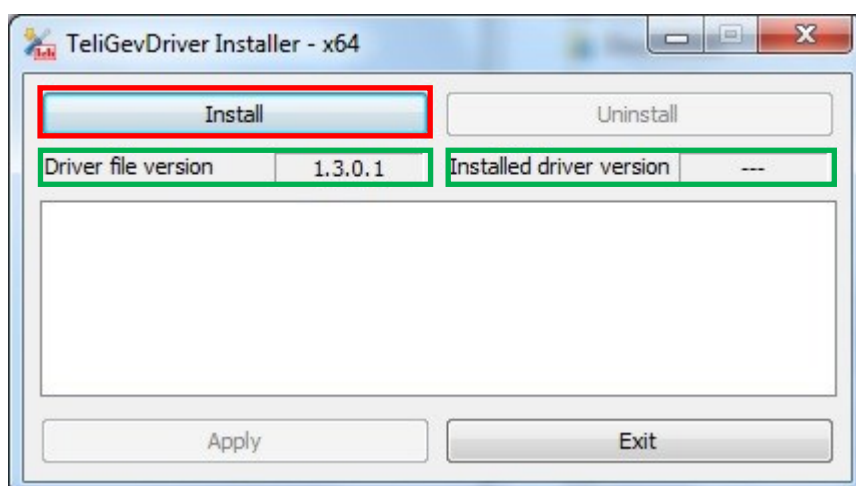
### 5.1. Driver Installation (Using Tool)

The GigE Vision driver installation / uninstallation file is stored in the following folder.

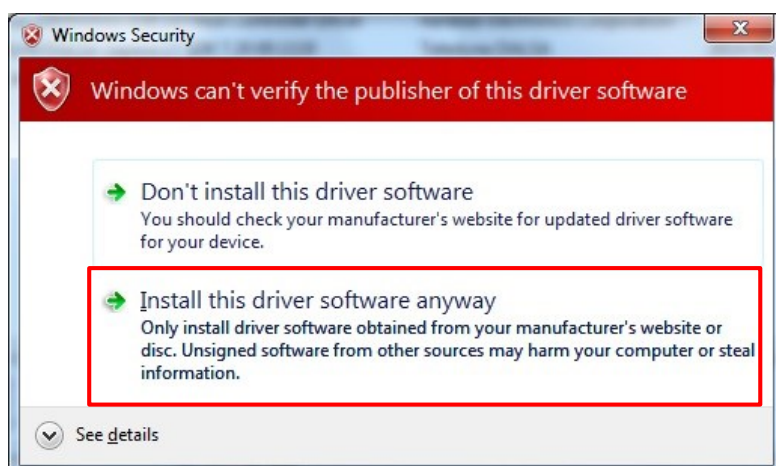
X86 : [installation folder]\TeliCamDriver\Gev\x86\TeliGevDrvInst.exe

x64 : [installation folder]\TeliCamDriver\Gev\x64\TeliGevDrvInst64.exe

Run the above file. The version of the driver to be installed will appear on "Driver file version". The version of the driver currently installed will appear on "Installed driver version". If the driver has not been installed yet, "---" will appear. Click [Install], and the installation will begin.

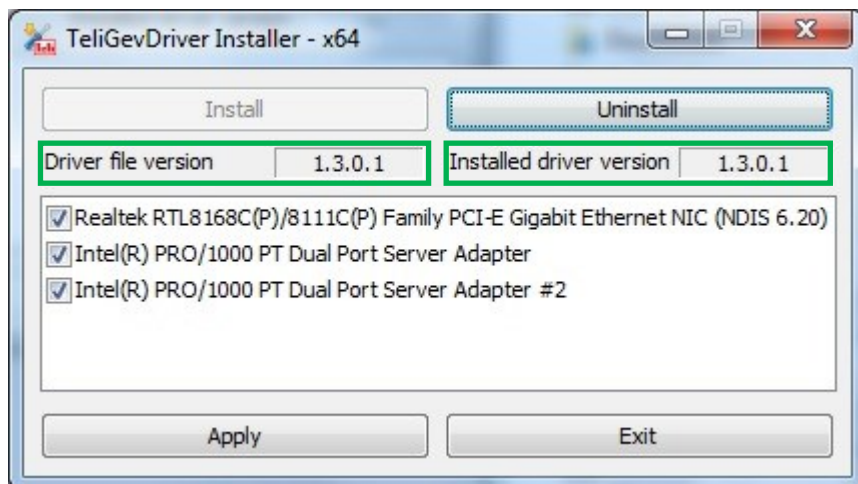


A warning dialog as below may appear during installation. Select [Install this driver software anyway], and the installation will continue. Please note that the network may be temporarily interrupted during installation.

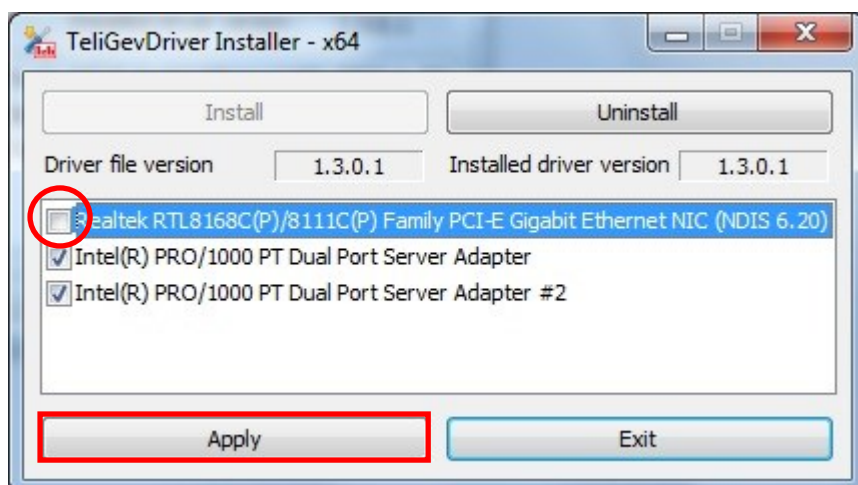




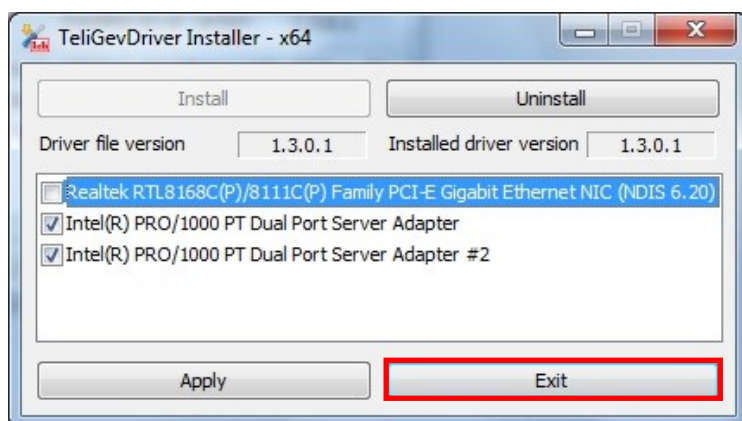
On completion of successful driver installation, the version of the installed driver will appear. A list of network adapters installed on PC will also appear.



Uncheck everything except an adapter connected to the camera, and click [Apply].



Now installation is completed. Click [Exit] to finish the installer. Reboot PC so that the installation of driver can take effect.

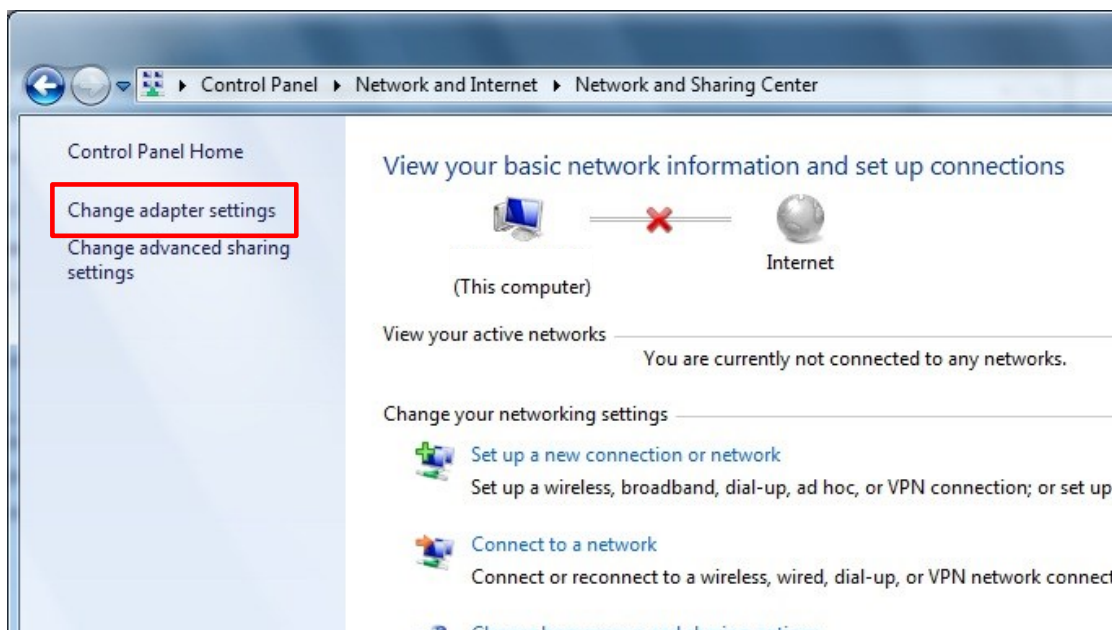


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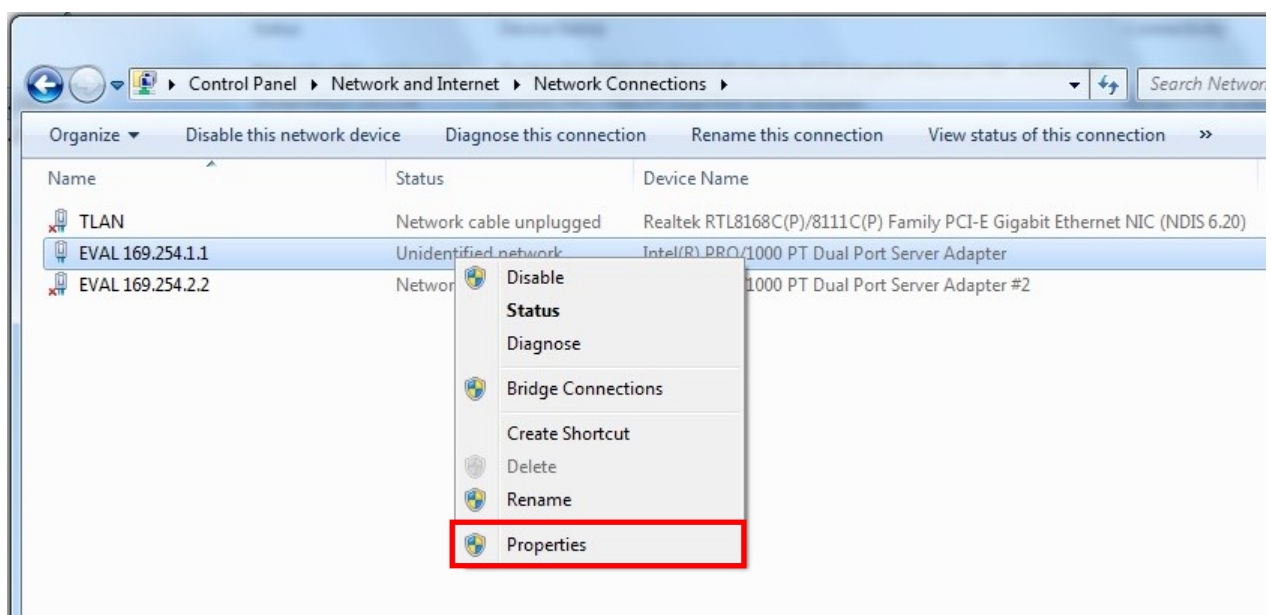
## 5.2. Driver Installation (Manual)

Even if it uses a driver installation tool, when a driver is not installed normally, a driver can also be installed manually.

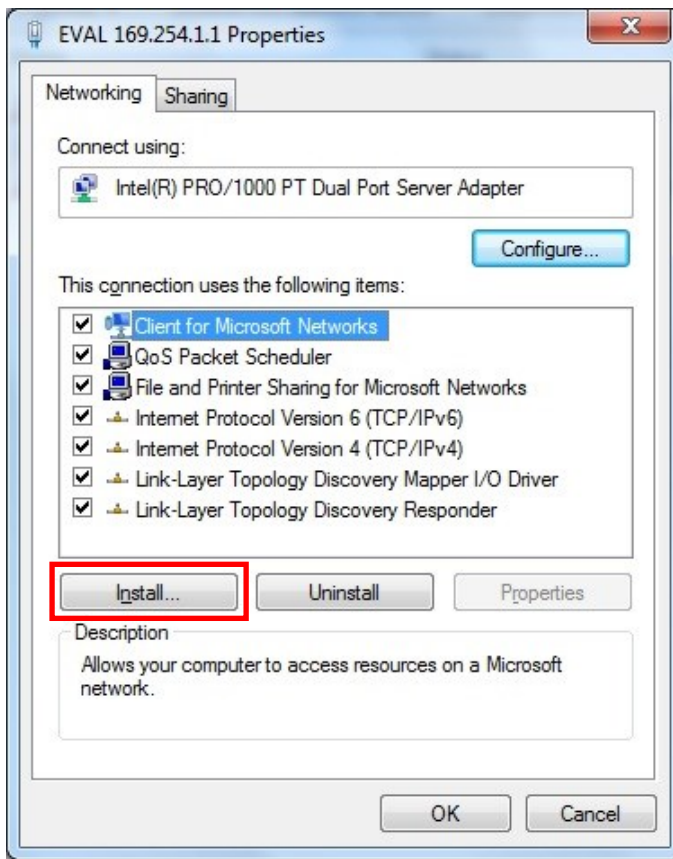
Go to [Control Panel] → [Network and Internet] → [Network and Sharing Center].  
Click [Change adapter settings] on the left navigation bar.



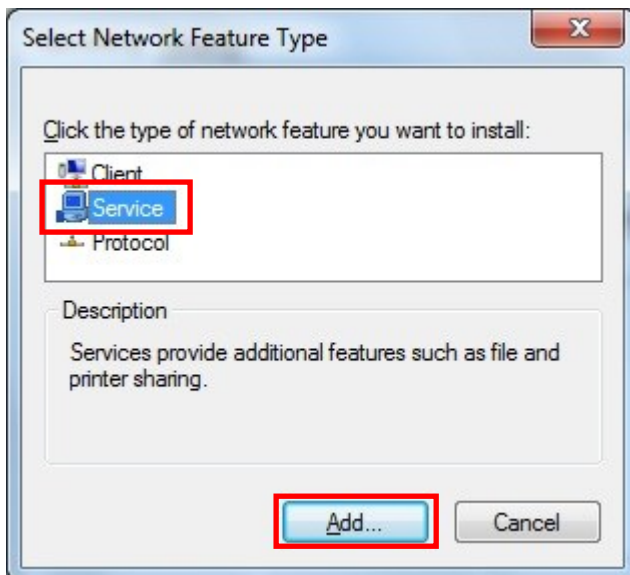
Select the adapter which a camera is connected to. Right-click, and Select [Properties].



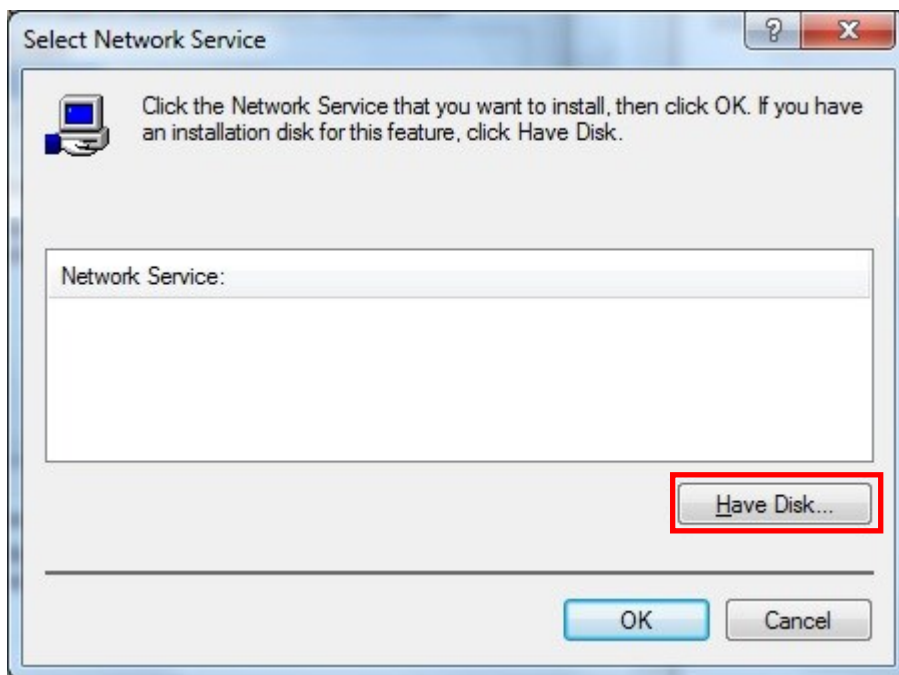
[Properties] dialog will appear. Click [Install].



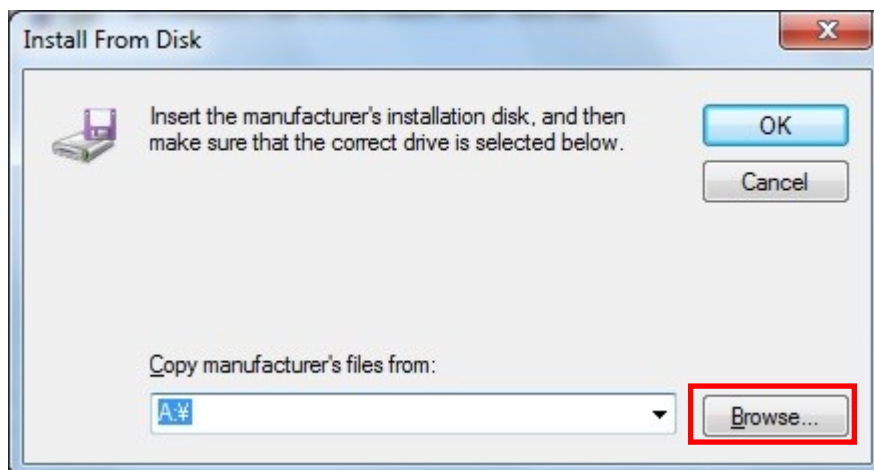
[A Select Network Feature Type] dialog will appear. Click the [Service], and click [Add...].



[Select Network Service] dialog will appear. Click [Have Disk...].



[Install From Disk] dialog will appear. Click [Browse...].



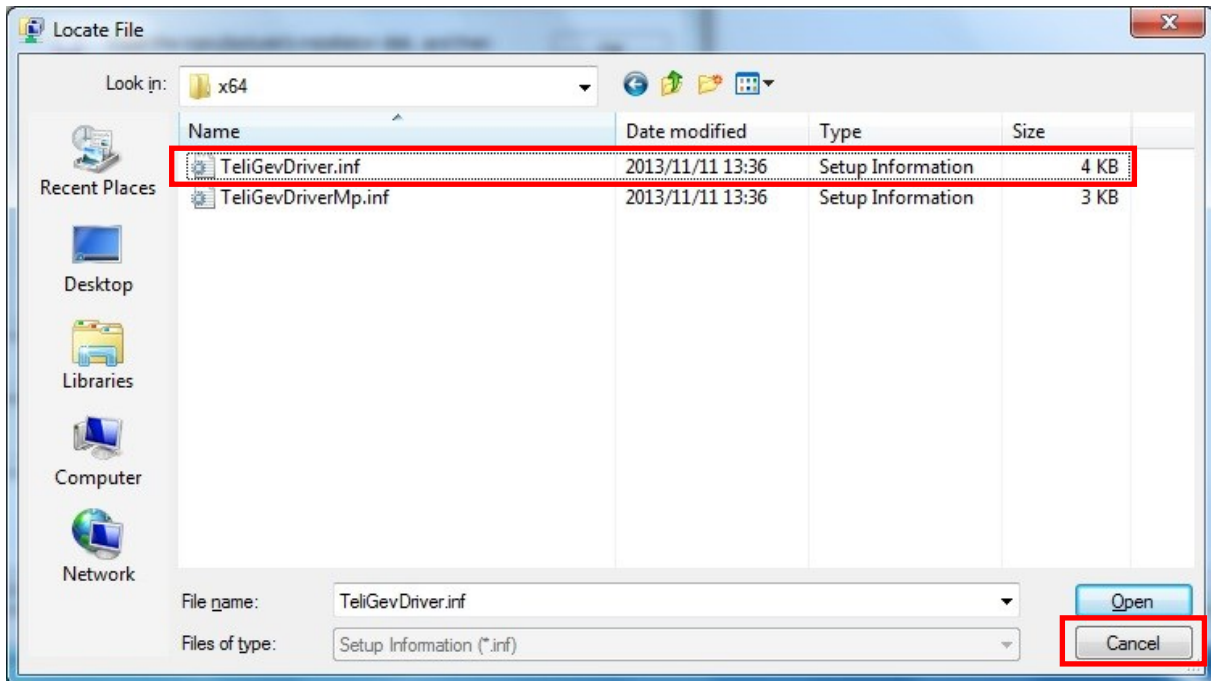
[Locate File] dialog will appear. Here, specify the "TeliGevDriver.inf" file.

"TeliGevDriver.inf" file is stored in the following folder.

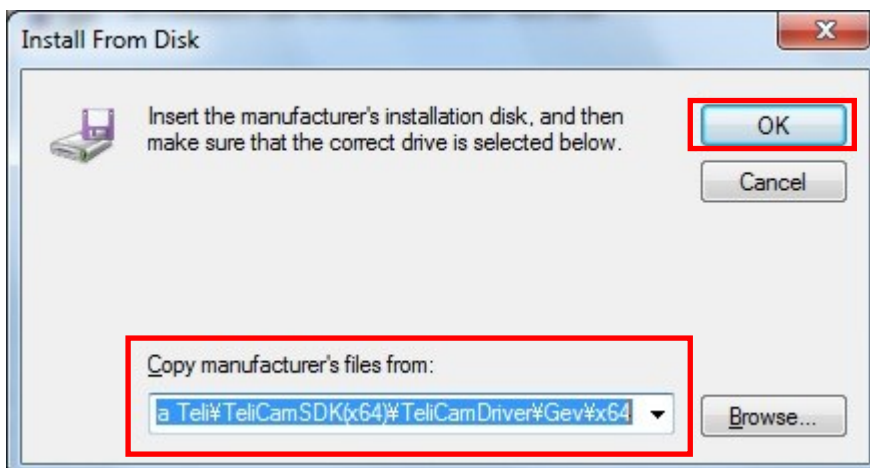
X86 : [installation folder]\TeliCamDriver\Gev\x86\

x64 : [installation folder]\TeliCamDriver\Gev\x64\

Select the "TeliGevDriver.inf" file and Click [Open].

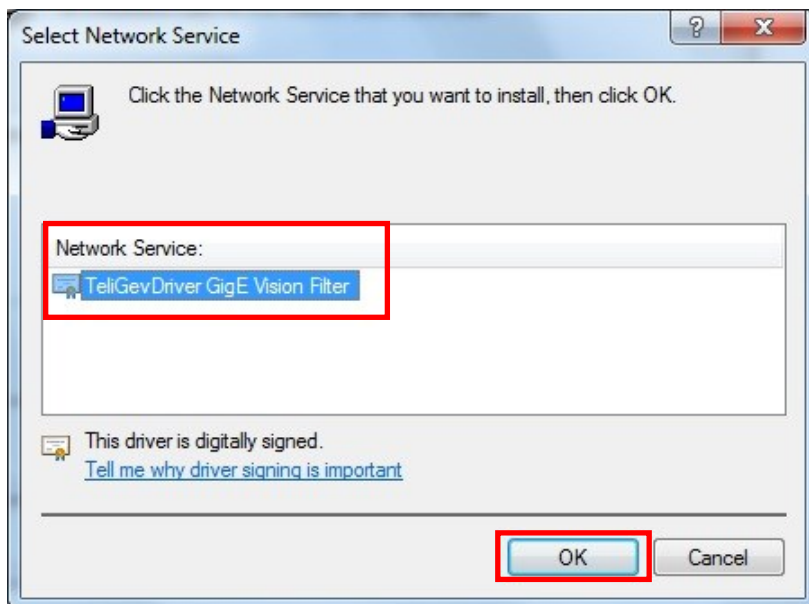


Go back to [Installation From Floppy Disk] dialog. The directory of "TeliGevDriver.inf" file will appear. Click [OK].



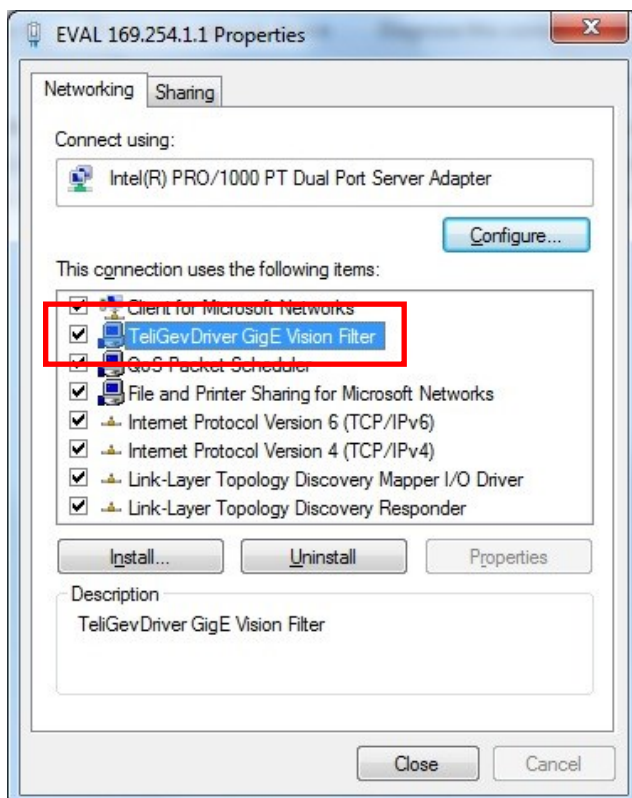


Go back to [Select Network Service] dialog. The [TeliGevDriver GigE Vision Filter] item will be displayed in the [Network Service] list box. Click [OK] to begin installation of the driver.



On completion of driver installation, the screen will go back to [Properties] dialog. The item [TeliGevDriver GigE Vision Filter] will appear in a list box in the middle of the screen, with its check box checked.

Click [OK]. Now the manual installation of the driver is completed.



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### 5.3. Firewall

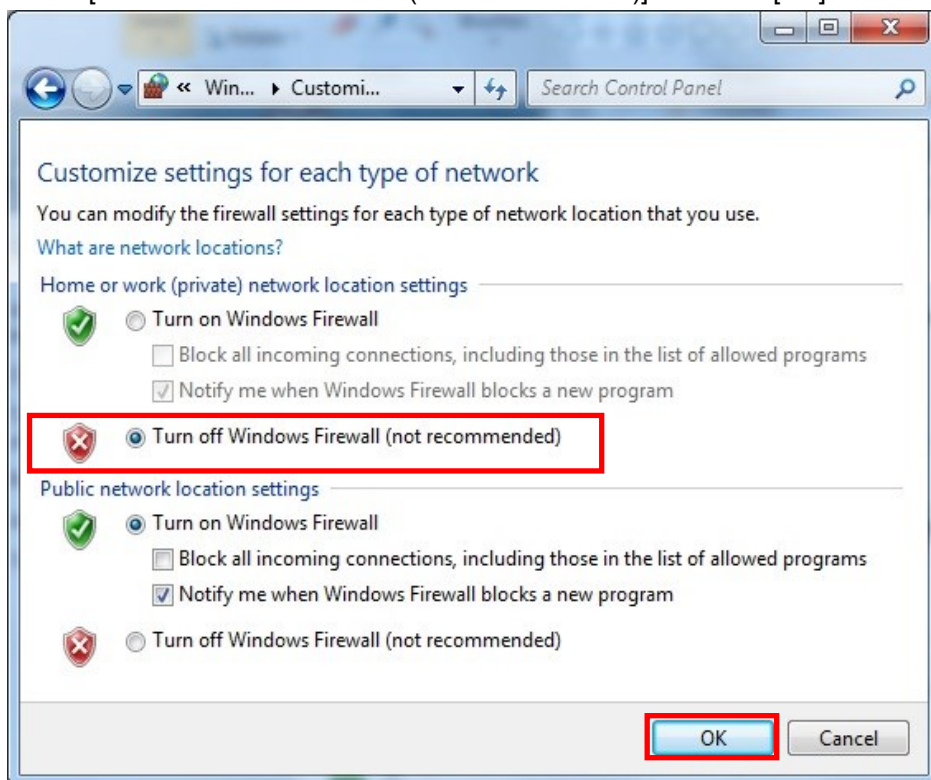
To ensure communication with a camera using an IP address configuration tool, viewer or user application, we recommend that you should disable Windows Firewall or installed firewall manufactured by a third party.

Go to [Control Panel] → [System and Security] → [Windows Firewall].

Click [Windows Firewall] in [Control Panel]. Then click [Turn Windows Firewall on or off].



Select [Turn off Windows Firewall (not recommended)] and Click [OK].



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## 5.4. Network adapter

Configure IP address of the network adapter. Also, configuration of the network adapter can improve its performance.

### 5.4.1. IP Address

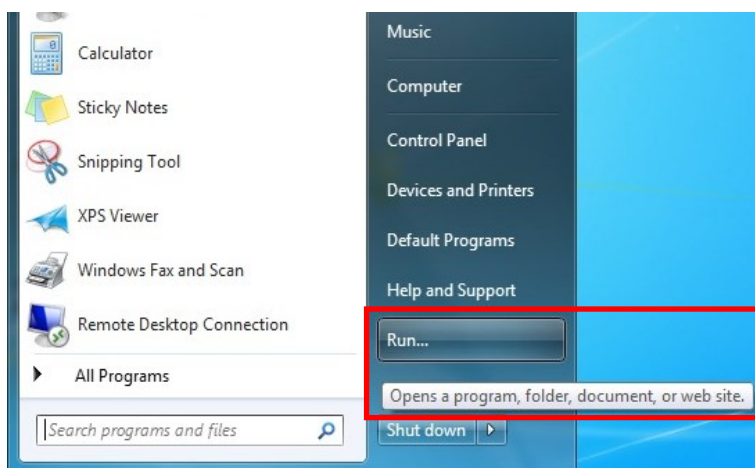
To perform communication with a camera, IP address is required for the network adapter.

[Obtain an IP address automatically] is selected by default in the IP configuration of the network adapter. In this case, IP address is assigned to the adapter by the DHCP server on the network.

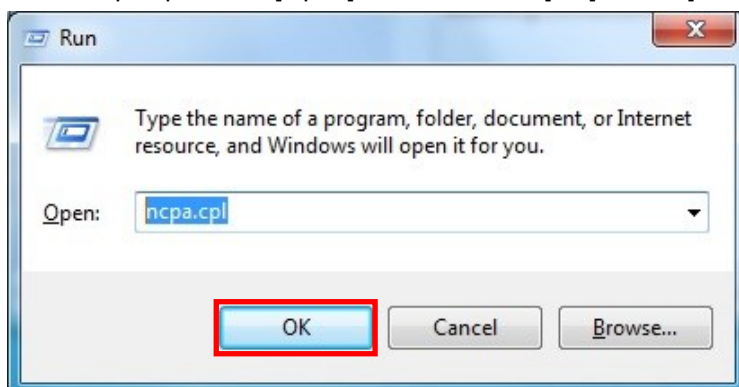
IP address in a range from 169.254.0.1 to 169.254.255.254 and the subnet mask 255.255.0.0 are automatically assigned by automatic private IP address configuration when DHCP server is not available, or alternative configuration is not specified. In this case, it will take a little time before IP address of network adapter is determined.

Setting IP address in advance can shorten the time. Also, IP address configuration is required to use network different from a default one. The configuration procedure is as follows:

Select [Run...] from Start Menu. The [Run...] dialog will start. It can also start with “Windows key” + “R”.

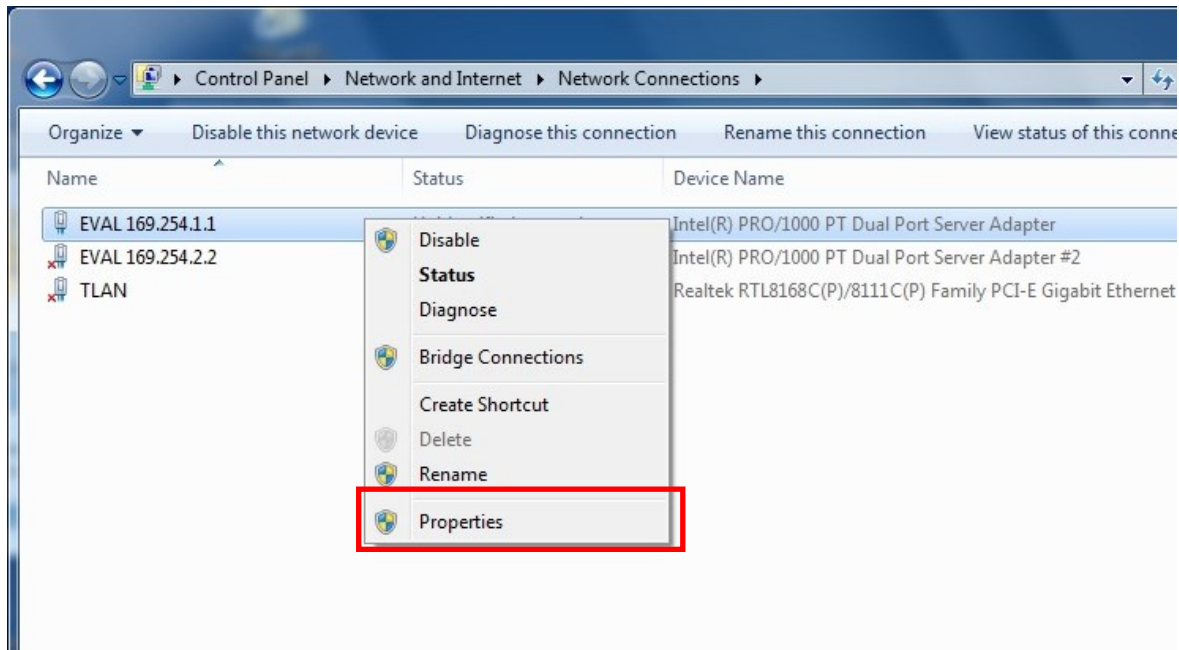


Enter “ncpa.cpl” in the [Open] field, and Click [OK]. Then, [Network Connections] dialog will start.

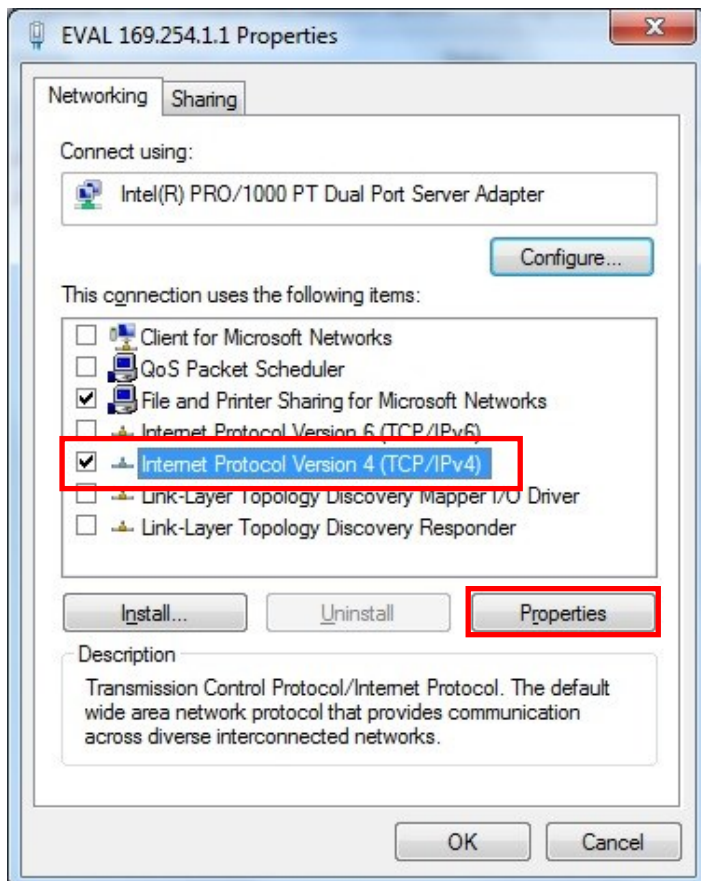




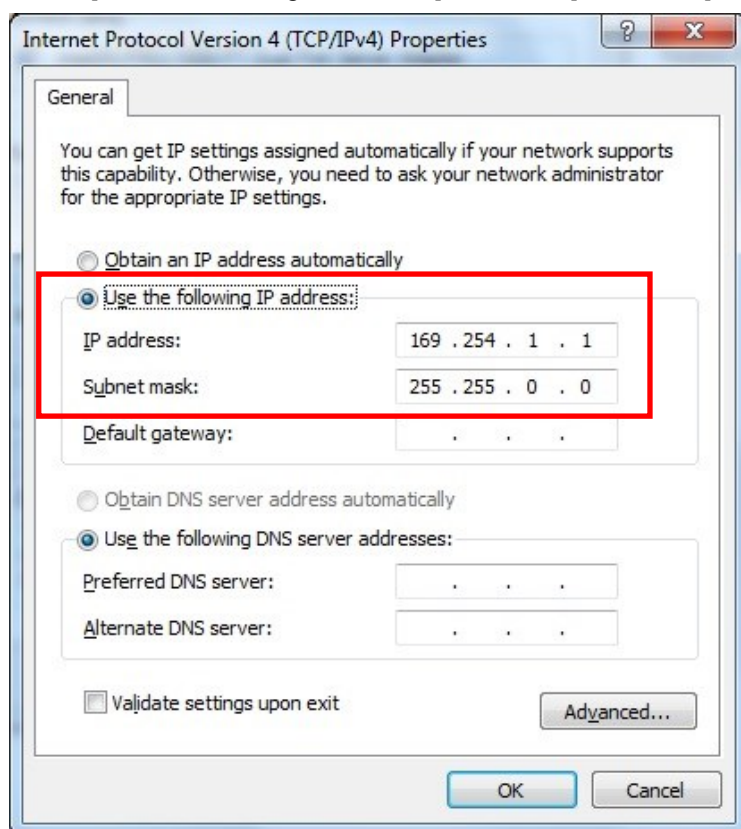
A list of network adapters connected to PC will appear. Select one of them and right-click. Select [Properties] from the context menu.



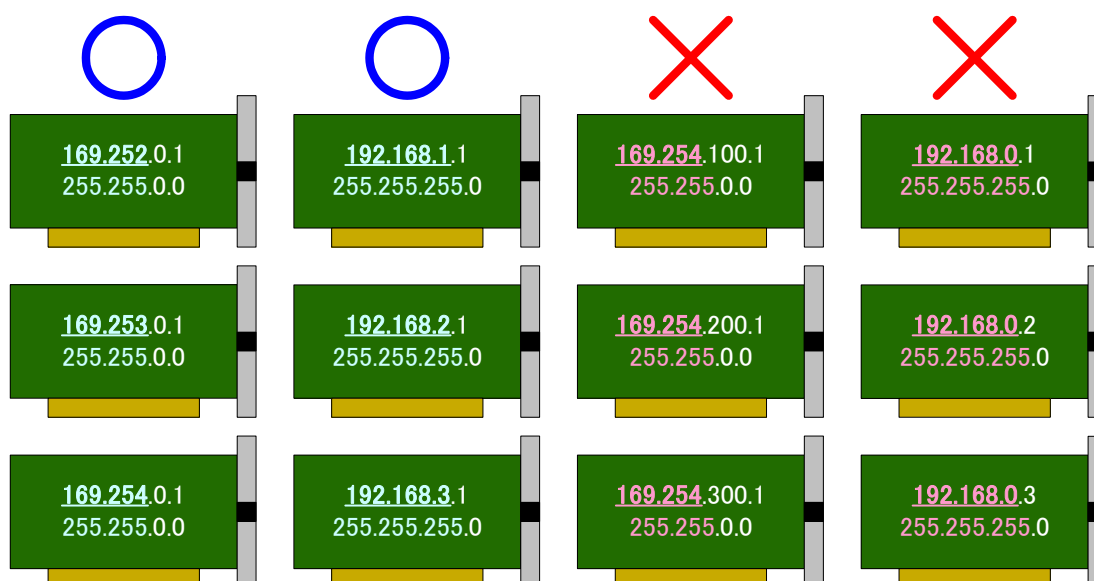
Select [Internet Protocol Version 4 (TCP/IPv4)] from a list in the center of [Networking] tab, and click [Properties].



Select [Use the following IP address] and enter [IP address] and [Subnet mask].



When two or more adapters are installed on PC, you may not use automatic private IP addressing. Therefore, a user needs to specify IP address for each adapter. To configure IP address of the network adapter, be careful not to duplicate the addresses by each network adapter.



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### 5.4.2. Jumbo frame (Jumbo packet)

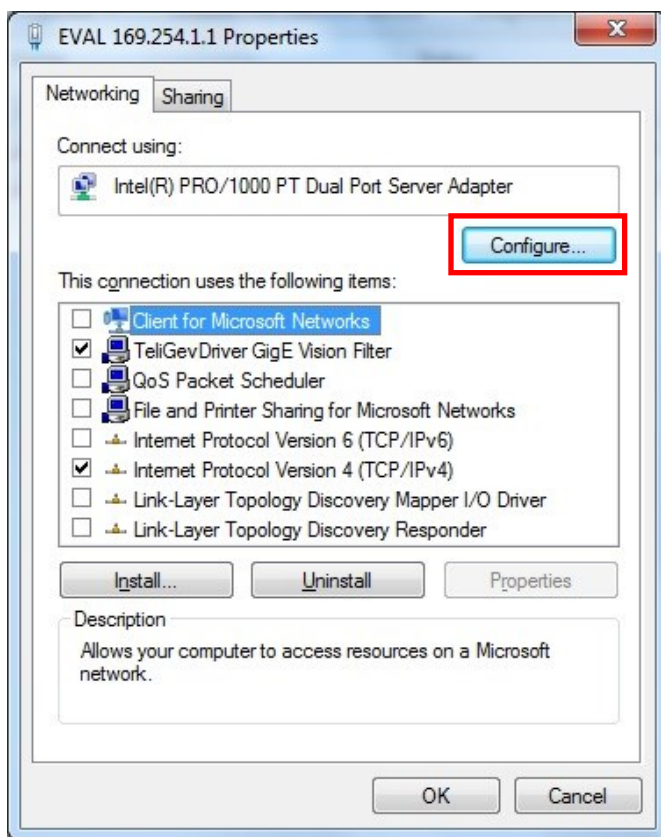
When the jumbo frame function is used, the overhead of streaming is decreased and the throughput is improved. To use this function, all devices such as a camera and a network adapter are required to be compatible with the function.

Select [Run...] from Start Menu. The [Run...] dialog will start. It can also start with “Windows key” + “R”.

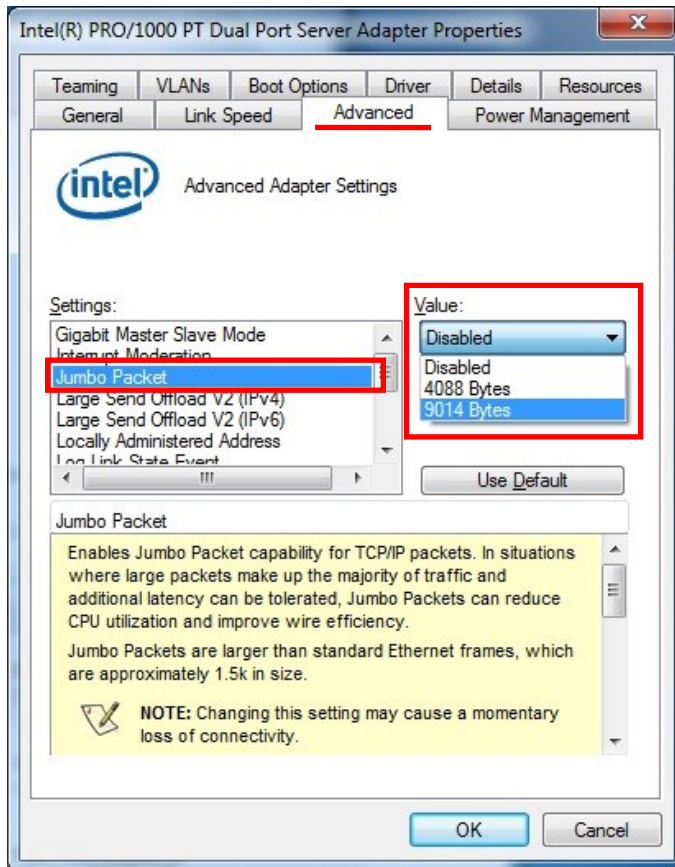
Enter “ncpa.cpl” in the [Open] field, and Click [OK]. Then, [Network Connections] dialog will start.

A list of network adapters connected to PC will appear. Select one of them and right-click. Select [Properties] from the context menu.

Click [Configuration] of [Network] tab.



Property of network adapter will appear. Select [Advanced Setting] tab and select the jumbo packet from [Setting] list. Select the maximum value from [Value] combo box on the right side.

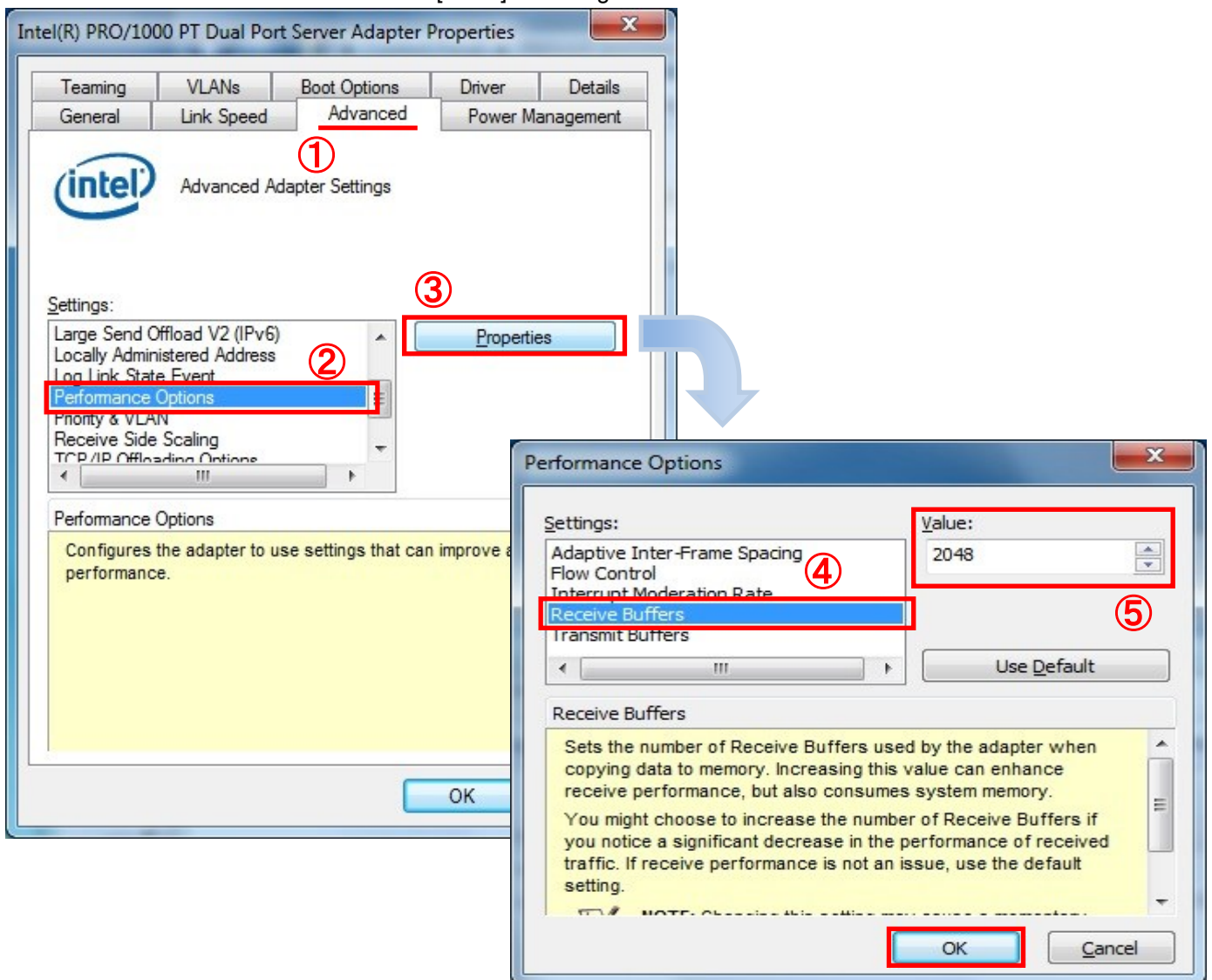


Property or configuration procedure may differ depending on the network adapter. Also, the size available for the Jumbo frame becomes the minimum of the value configured to the network adapter or the relaying network switch. For example, the packet size configurable to the camera will be 7000byte or less if the maximum value of network switch is 9000byte and the setting value of network adapter is 7000byte.

### 5.4.3 Option of performance

To configure the receive buffer and the interrupt throttle rate can reduce CPU utilization. For these configurations, its name or its configuration procedure may differ when the function is not implemented depending on the network adapter. Please use the latest network adapter driver.

1. Select [Advanced Setting] tab of property of network adapter
2. Select [Option of Performance] from [Setting] list.
3. Click [Properties].
4. Select [Receive Buffer] from [Setting] list.
5. Select the maximum value in [Value] on the right side.





## 5.5. GigE vision camera configuration

Configure IP address of the network adapter. Also, describe User-defined name register, a user space inside the camera.

### 5.5.1 IP address

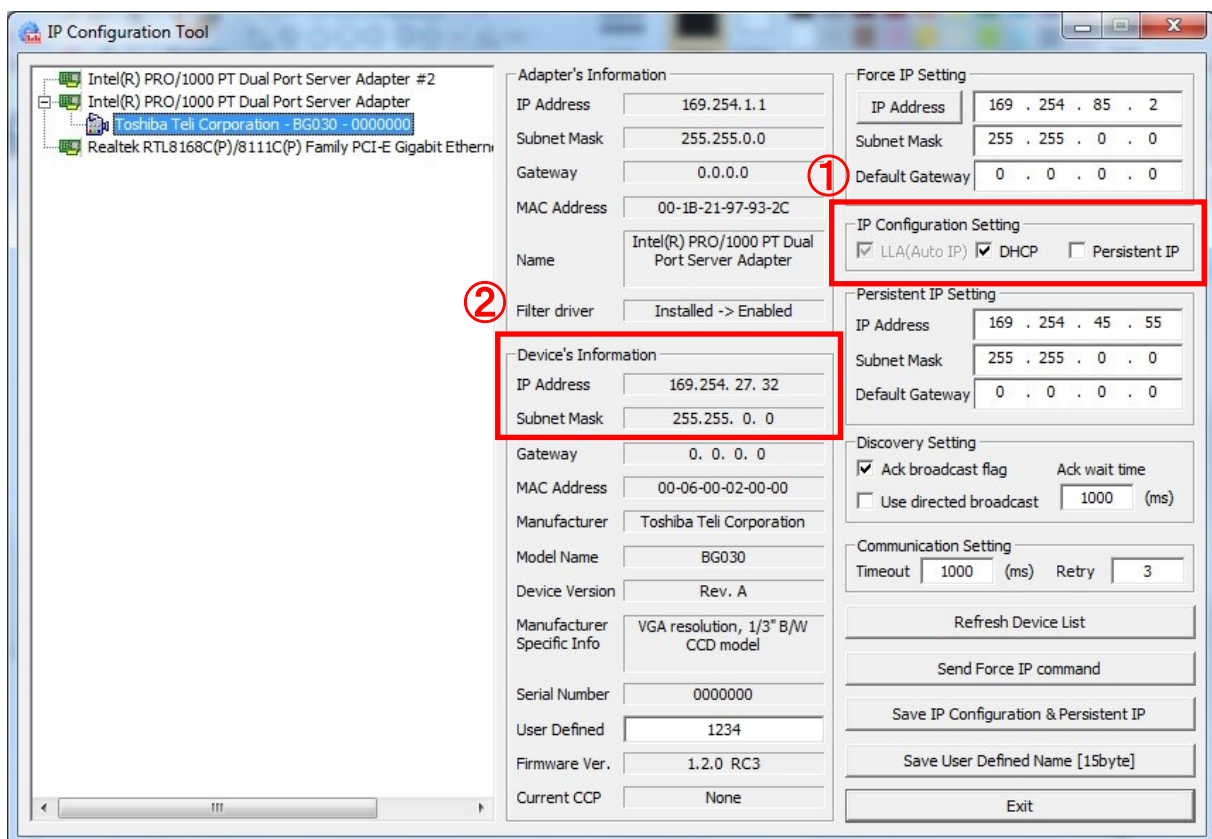
To perform communication with a PC, IP address is also required for the camera.



[Use DHCP] is selected by default in IP configuration of the camera. In this case, IP address is assigned to the camera by the DHCP server on the network.

IP address in a range from 169.254.0.1 to 169.254.255.254 and the subnet mask 255.255.0.0 are automatically assigned by automatic private IP address configuration when DHCP server is not available. In this case, it will take a little time before IP address of camera is determined.

To shorten the time, we recommend that the user fixes IP address. Also, IP address configuration is required to use network different from a default one. The configuration procedure is as follows:

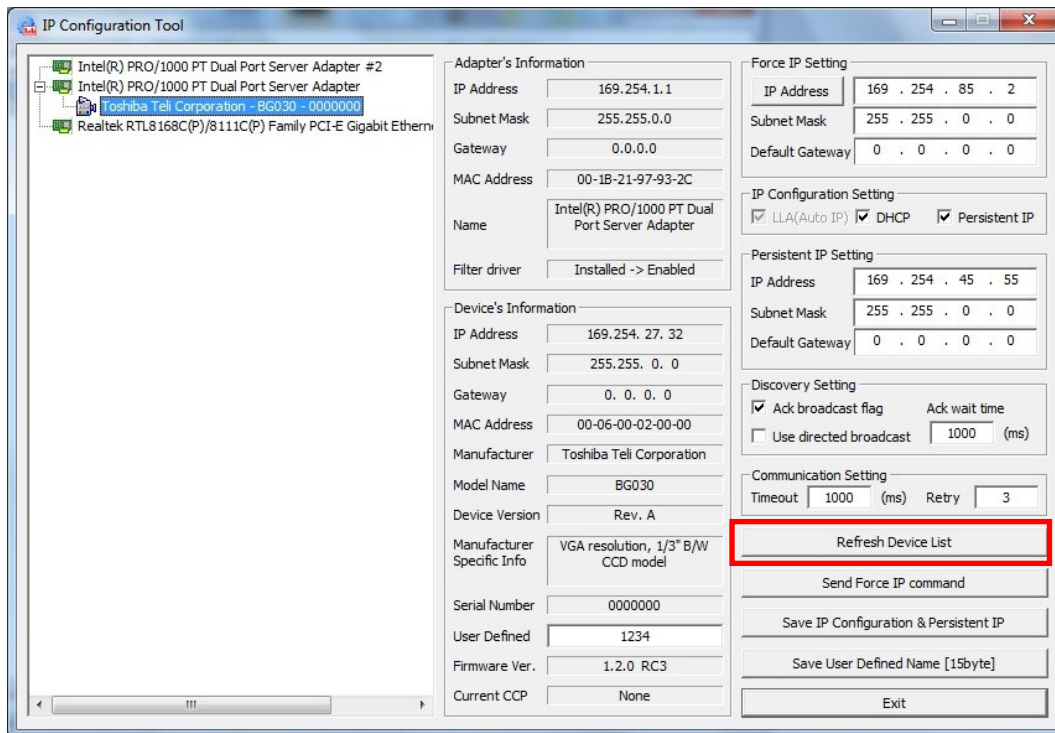
Run "IpCnfg.exe" in [IP Configuration Tool] in the TeliCamSDK installation folder. [IP Configuration Tool] will start.



Left hand of the screen is the bias list.  Icon indicates the network adapter.  Icon indicates the camera connected to it.

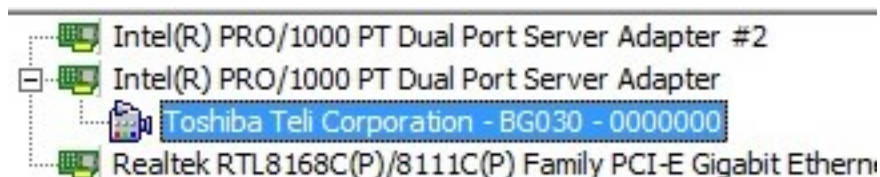
For IP configuration of camera, DHCP is selected at the time of factory shipment. IP address of 169.254.\*\*\*.\*\*\* is automatically configured because there is no DHCP server on the network. In this case, a communication with a camera can be performed since the network address of adapter is same as that of camera.

If you want to search the device on the network again after application is started, click [Refresh Device List].



The number of network × [AckWaitTime] second is required to finish this operation.

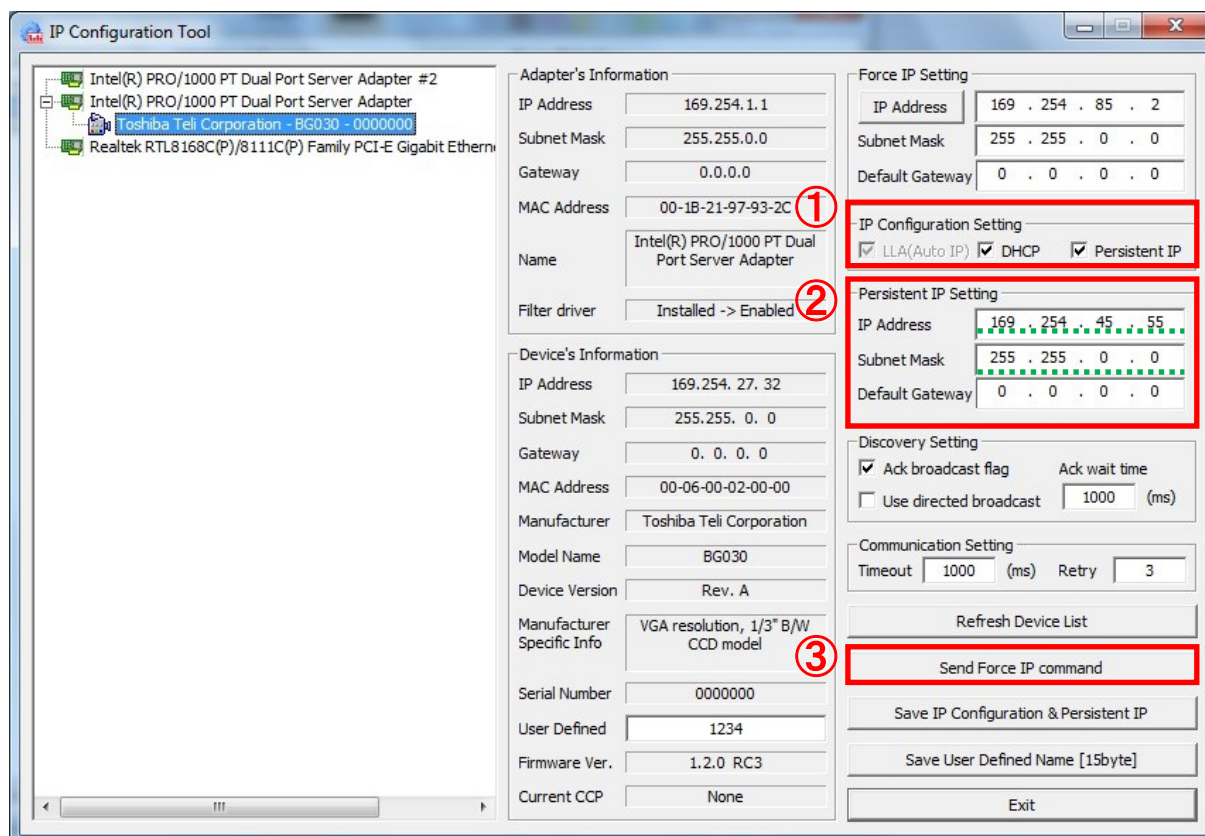
Select the camera performing the configuration from the device list on the left side. The information of selected camera will appear on the right side.



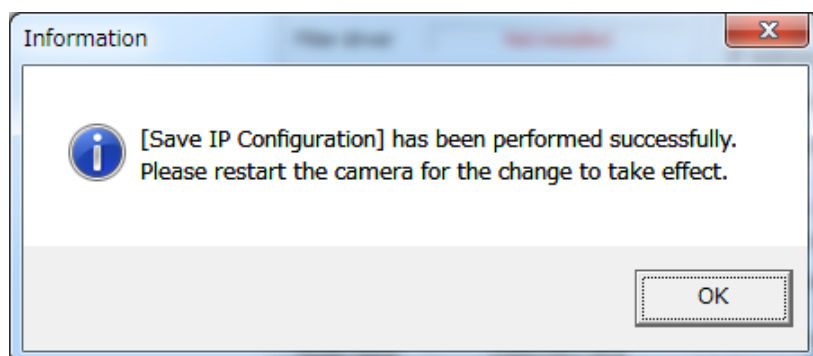
### 5.5.2. Persistent IP Setting

Setting IP address in advance can shorten the time.

1. Check [Persistent IP] inside [IP Configuration Setting].
2. Enter IP address fixed to [Persistent IP Setting] below.
3. Click [Save IP Configuration & Persistent IP].



The following dialog will appear when IP address to the camera is successfully written.



Camera restart is required so that the new IP address of camera can take effect.



Force IP address is displayed in [Device's Information] after camera restarted.

The screenshot shows the 'IP Configuration Tool' window. On the left is a tree view of network adapters. The main area is divided into several sections: 'Adapter's Information', 'Device's Information' (highlighted with a red box), 'Force IP Setting', 'IP Configuration Setting', 'Persistent IP Setting', 'Discovery Setting', and 'Communication Setting'. The 'Device's Information' section displays the IP Address as 169.254.45.55 and Subnet Mask as 255.255.0.0. The 'Force IP Setting' section shows a Force IP Address of 169.254.122.201. The 'IP Configuration Setting' section has checkboxes for LLN(Auto IP), DHCP, and Persistent IP, all of which are checked. The 'Persistent IP Setting' section shows a Persistent IP Address of 169.254.45.55. The 'Discovery Setting' section has checkboxes for Ack broadcast flag and Use directed broadcast, with Ack wait time set to 1000 ms. The 'Communication Setting' section has Timeout set to 1000 ms and Retry set to 3. At the bottom are buttons for 'Refresh Device List', 'Send Force IP command', 'Save IP Configuration & Persistent IP', 'Save User Defined Name [15byte]', and 'Exit'.

Adapter's Information	
IP Address	169.254.1.1
Subnet Mask	255.255.0.0
Gateway	0.0.0.0
MAC Address	00-1B-21-97-93-2C
Name	Intel(R) PRO/1000 PT Dual Port Server Adapter
Filter driver	Installed -> Enabled

Device's Information	
IP Address	169.254.45.55
Subnet Mask	255.255.0.0
Gateway	0.0.0.0
MAC Address	00-06-00-02-00-00
Manufacturer	Toshiba Teli Corporation
Model Name	BG030
Device Version	Rev. A
Manufacturer Specific Info	VGA resolution, 1/3" B/W CCD model
Serial Number	0000000
User Defined	1234
Firmware Ver.	1.2.0 RC3
Current CCP	None

Force IP Setting	
IP Address	169 . 254 . 122 . 201
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	0 . 0 . 0 . 0

IP Configuration Setting	
<input checked="" type="checkbox"/> LLN(Auto IP)	<input checked="" type="checkbox"/> DHCP
<input checked="" type="checkbox"/> Persistent IP	

Persistent IP Setting	
IP Address	169 . 254 . 45 . 55
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	0 . 0 . 0 . 0

Discovery Setting	
<input checked="" type="checkbox"/> Ack broadcast flag	Ack wait time
<input type="checkbox"/> Use directed broadcast	1000 (ms)

Communication Setting	
Timeout	1000 (ms)
Retry	3

Refresh Device List

Send Force IP command

Save IP Configuration & Persistent IP

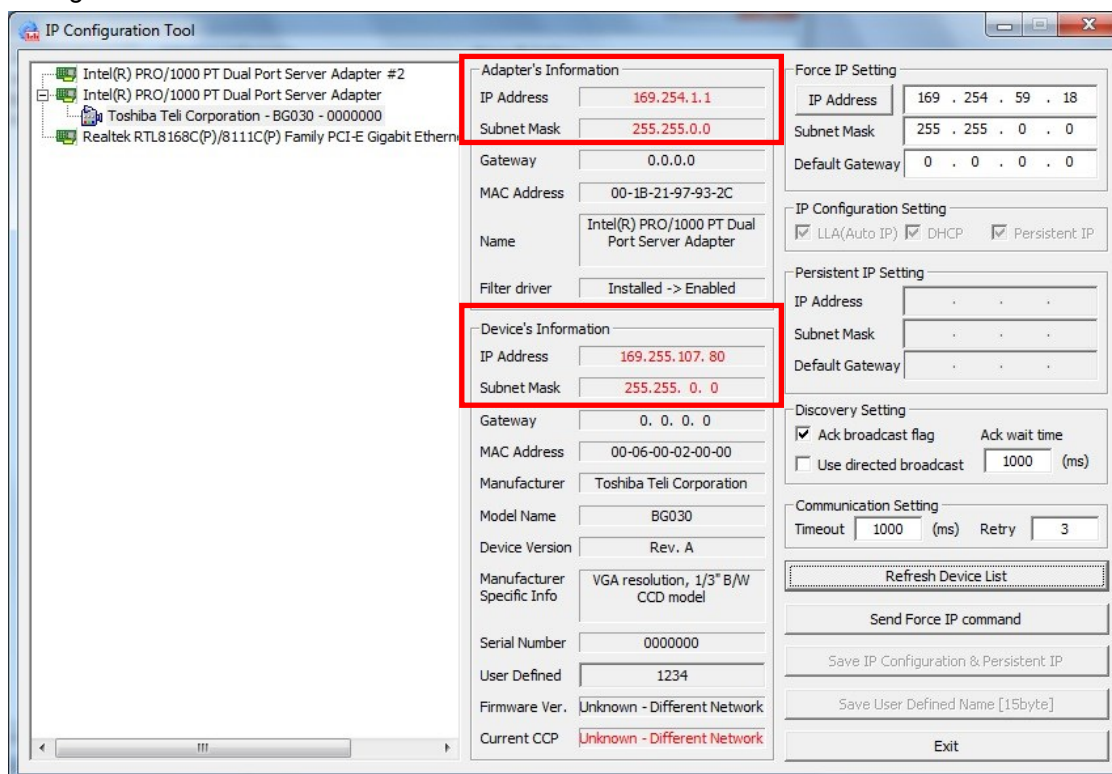
Save User Defined Name [15byte]

Exit

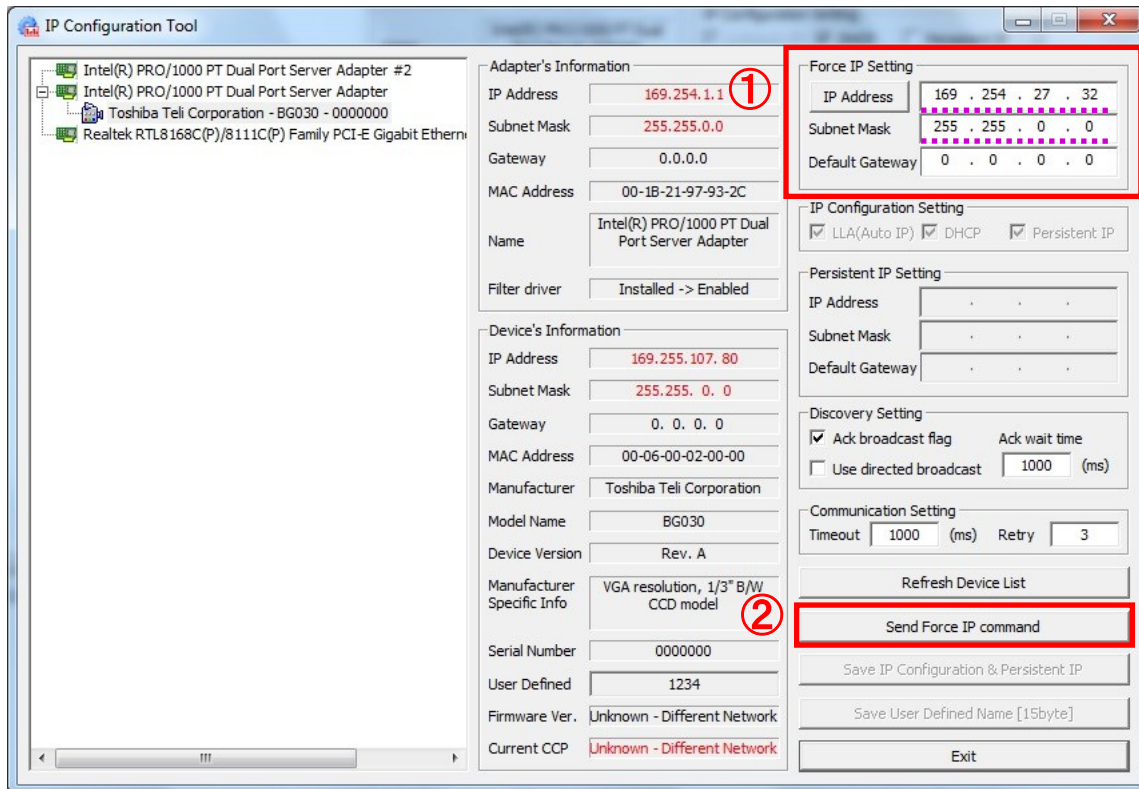
### 5.5.3 Different network

When starting a camera, the application cannot communicate with the camera if the network is different from that of network adapter. In this case, configure IP address after the network of camera is fit to that of adapter temporarily and set it to be in a state where the communication can be done.

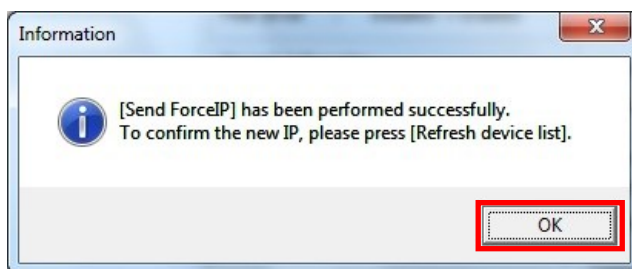
The values of [IP Address] and [Subnet mask] are displayed in red when the different networks in IP Configuration Tool.



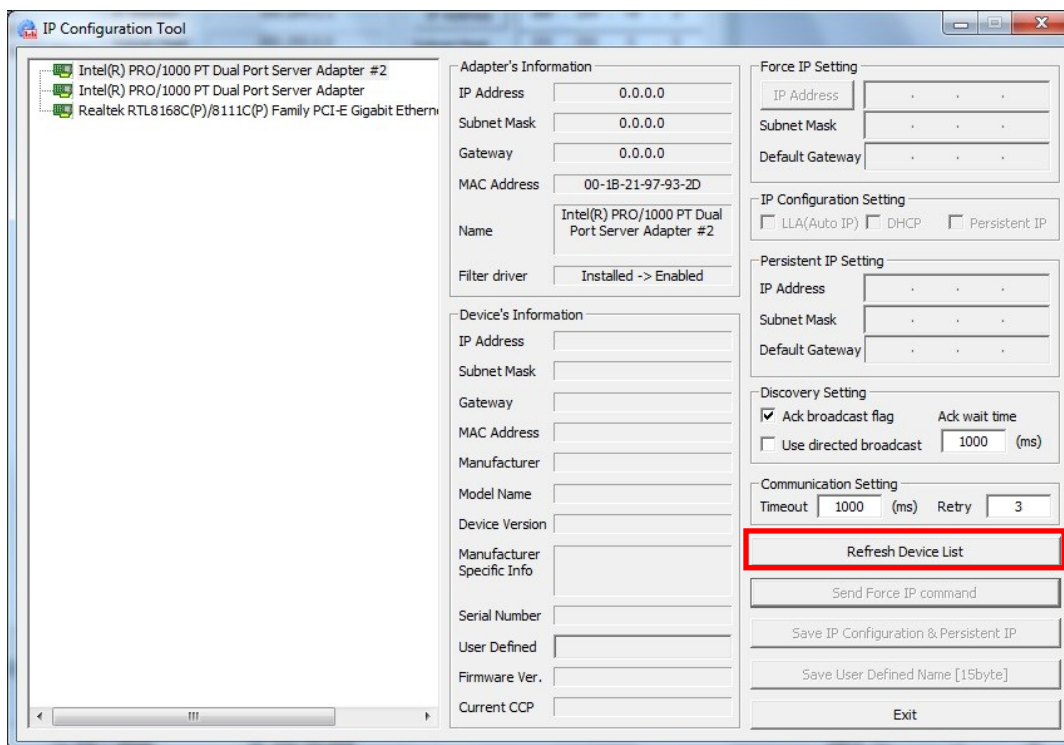
1. Fit [IP Address] and [Subnet Mask] of [Force IP Setting] to the network of adapter and configure it. (There is no any problem if you use them as it is because the recommended address in consideration of network has already been configured to this item in advance.)
2. Click [Send Force IP Command] to write IP configuration into camera.



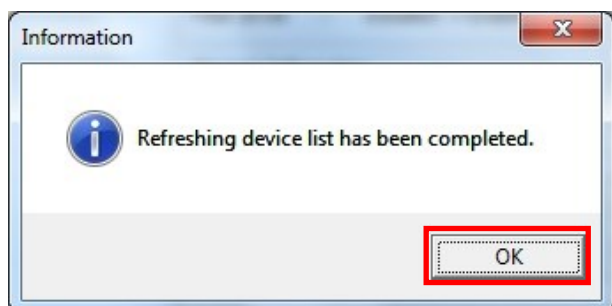
The following dialog box will appear after you click [Send Force IP Command].  
Click [OK].



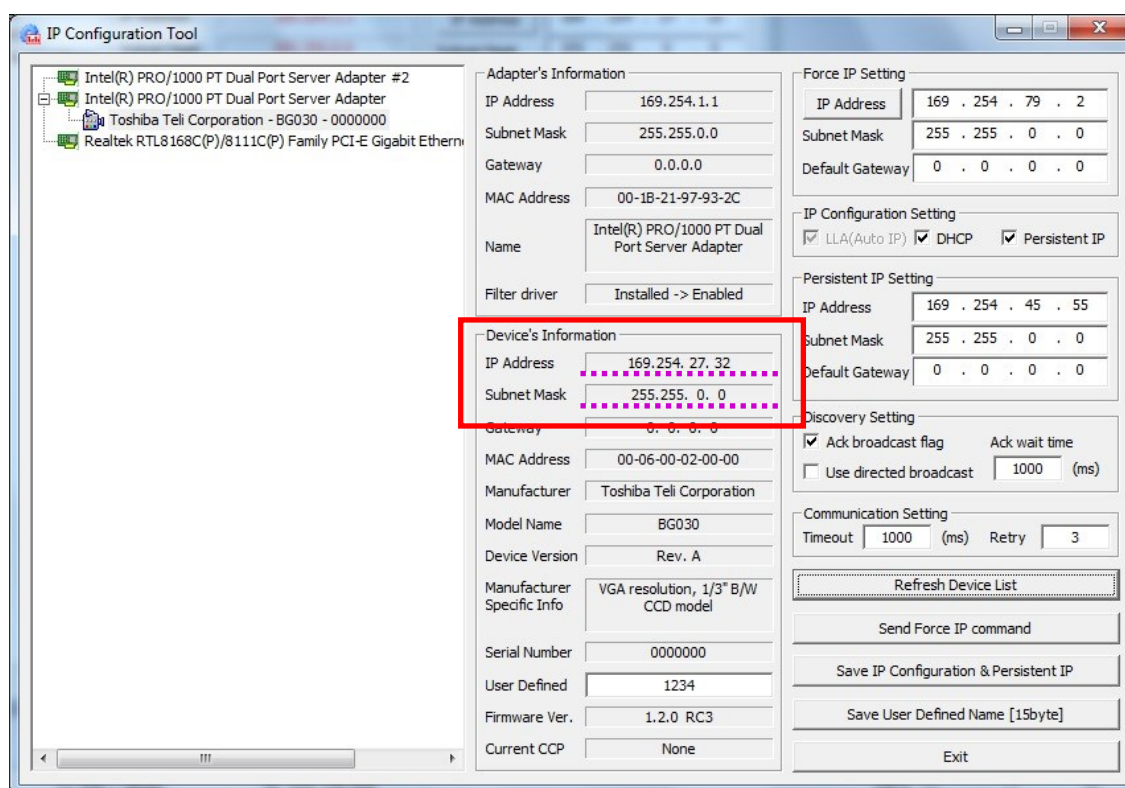
Click [Refresh Device List] to acquire the information of camera once again.



The following dialog box will be appear after you click [Refresh Device List].  
Click [OK].



Setting of [Force IP Setting] , [IP Address] and [Subnet Mask] will be reflected in [Device's Information] group box. You can check whether IP configuration of camera has been changed.



This setting value is a temporary one, and it will disappear as soon as the power of camera is turned off. Perform the procedure in "[Persistent IP Setting](#)" to fix IP address of camera.

In any of the following cases, the error message may appear.

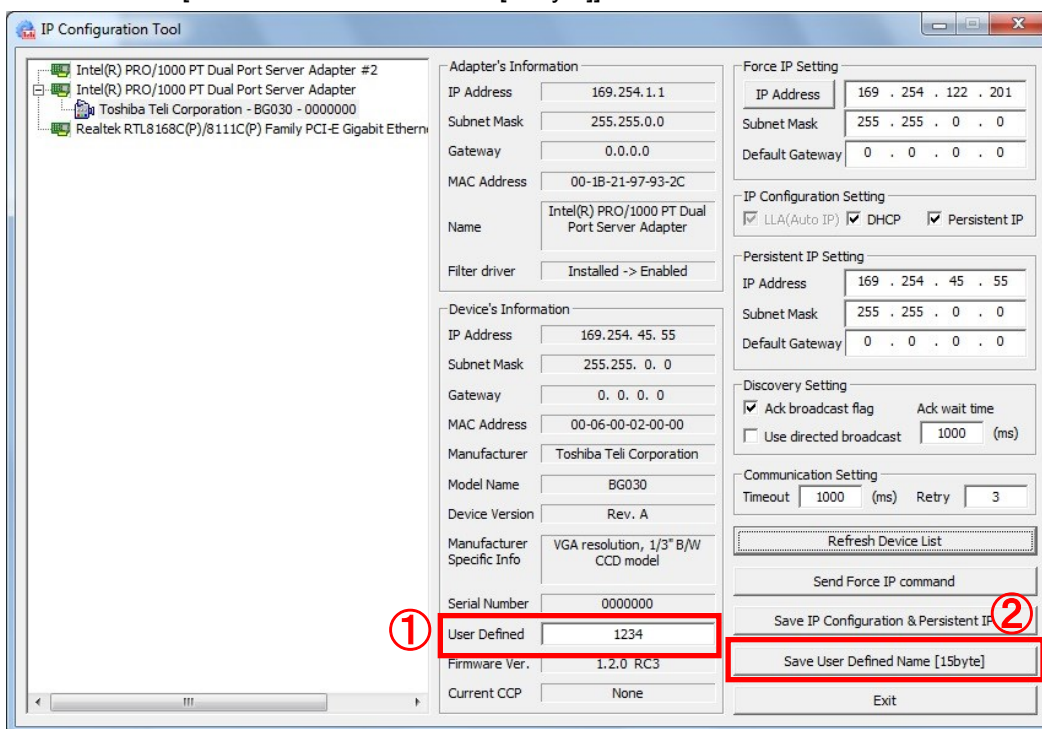
- When the cable is disconnected, or the power of camera is turned off after camera search is successful and it is displayed in the device list;
- When the camera refuses it because IP to save is wrong;
- When the other applications have already acquired the control of camera;
- When the communication condition is so bad that the packets sent and received are out of order.



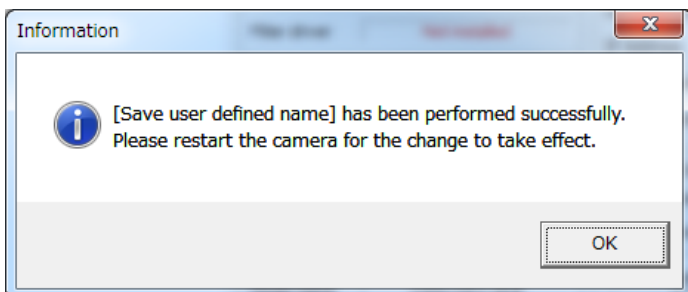
#### 5.5.4. User-defined name [User Defined]

The camera has the User-defined name register that is the user space. String of 16byte (15byte + NULL) specified by the user can be written to this register and it can be maintained even if the power is turned off. The configuration procedure is as follows.

1. Specify any character within 15 characters to [User Defined]. The 15 characters starting at the character will be valid, and NULL will be attached by application when the number of characters more than that is specified.
2. Press [Save User Defined Name [15byte]].



The following dialogue will appear when the specified string is successfully written. We recommend a restart of camera for confirmation.



---

The string saved can be read out by Cam\_ReadReg() function of TeliCamApi. In addition, Cam\_GetInformation() function can also be used.  
It can also be directly written by Cam\_WriteReg() function.

User-defined name register

Address : 0x00E8

Length : 16 byte

Access : Read/Write

---

## 6. USB3 Vision Digital Camera Guide

The installation of the USB3 Vision driver is required not only installation of TeliCamSDK package if you use the USB3E Vision digital camera,.

See section "[6.2. Driver installation \(Manual\)](#)" if you want to install manually.

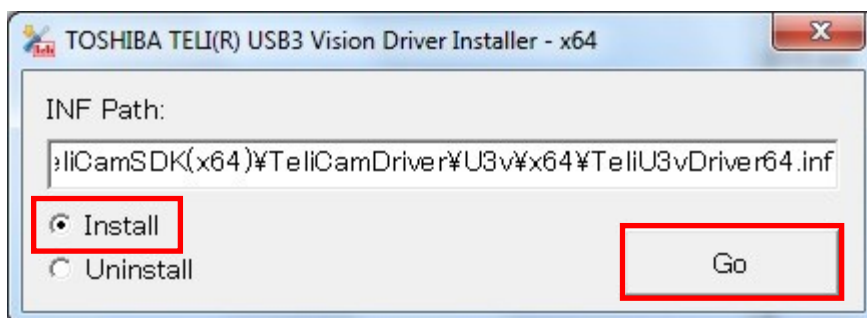
### 6.1. Driver Installation (Using Tool)

The USB3 Vision driver installation / uninstallation file is stored in the following folder.

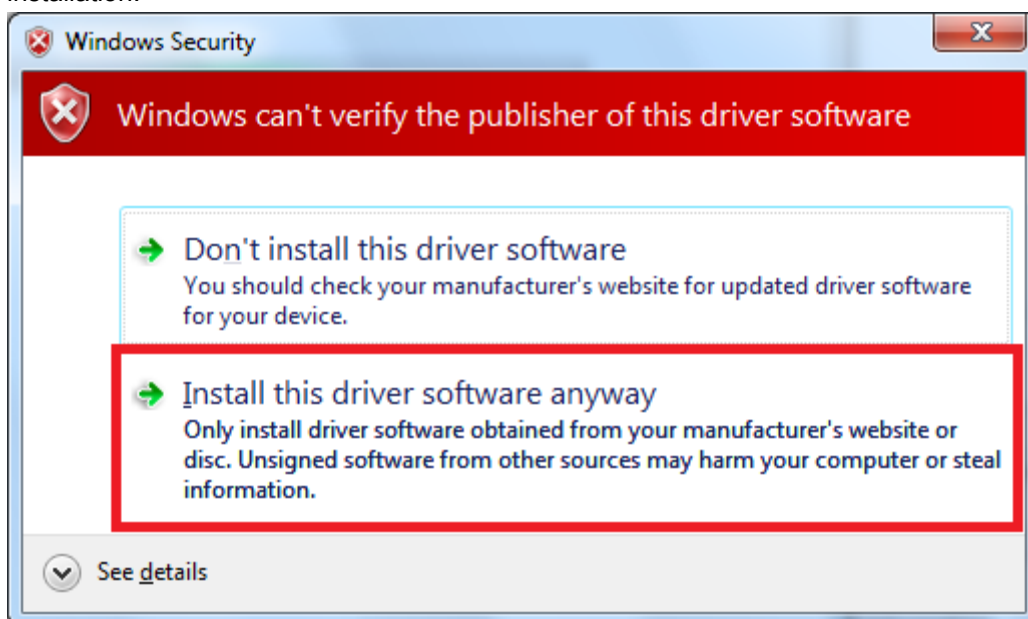
x86 : [installation folder]\TeliCamDriver\U3v\86\TeliU3vDrvInst.exe

x64 : [installation folder]\TeliCamDriver\U3v\64\TeliU3vDrvInst64.exe

Run the above file. Please check that the attached to the [Install], and Click [Go]. Installation will begin.



A warning dialog as below may appear during installation. Select [Install this driver software anyway], and the installation will continue. Please note that the network may be temporarily interrupted during installation.





---

The driver installation might take a little time to complete.

If the following dialog is displayed, the driver installation is completed.



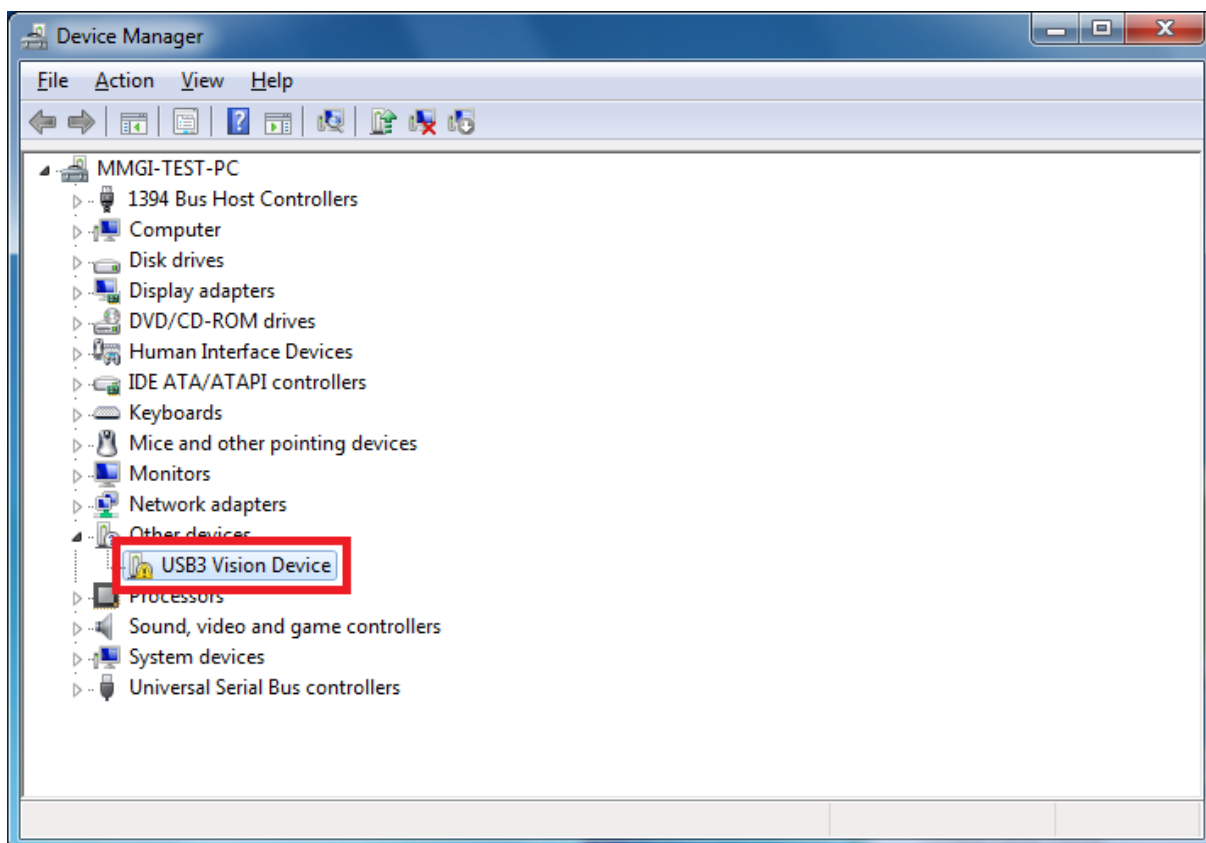
---

## 6.2. Driver Installation (Manual)

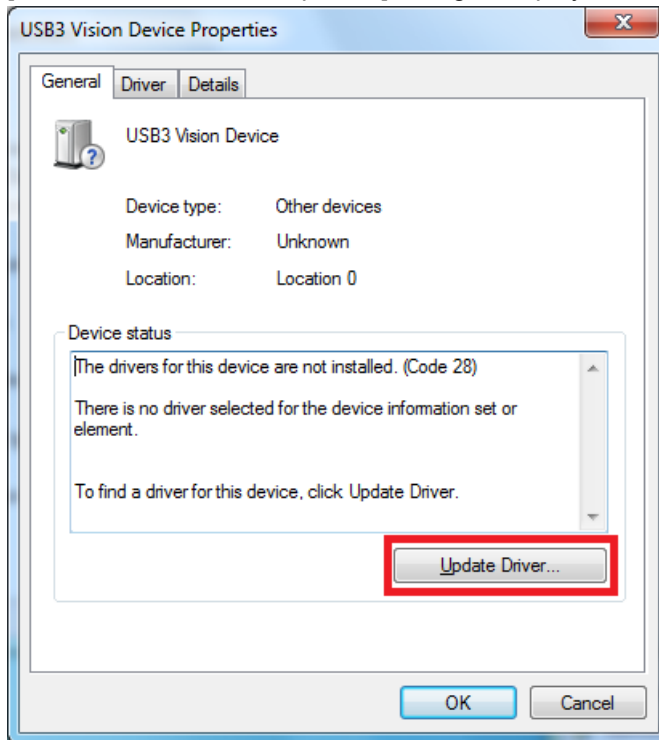
Even if it uses a driver installation tool, when a driver is not installed normally, a driver can also be installed manually.

Connect the camera to the PC of the USB3.0 port. The installation of the driver dialog may be displayed. If that is the case, close that dialog temporary.

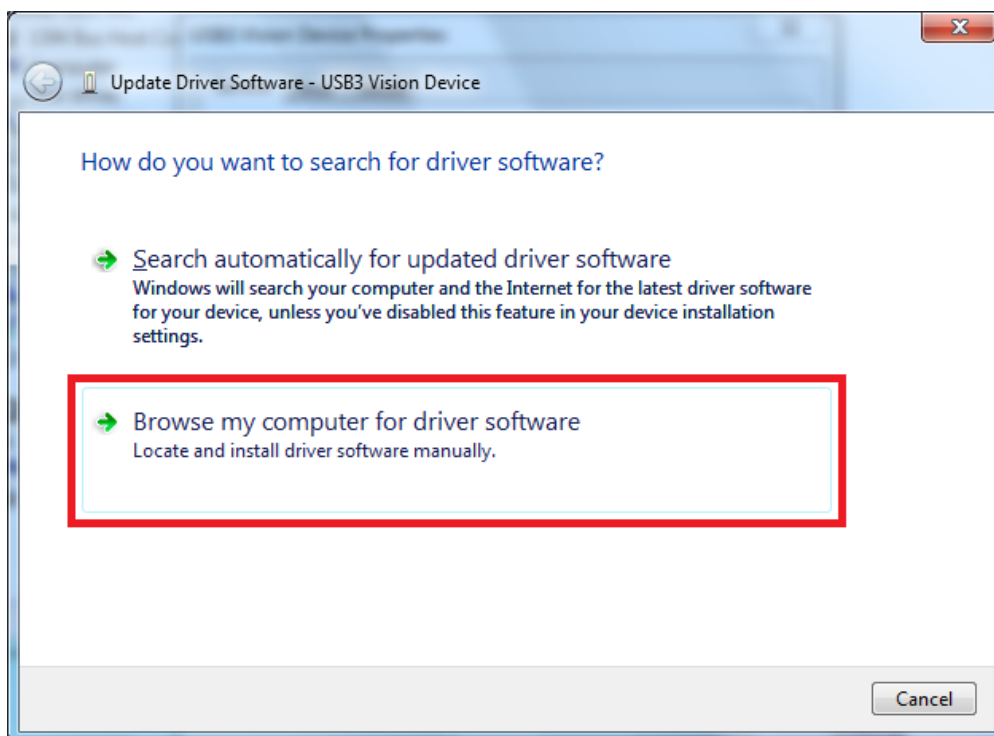
Open “Device Manager”, “USB3 Vision Device” item with an exclamation mark in the “Other devices” will be displayed. Then double-click it.



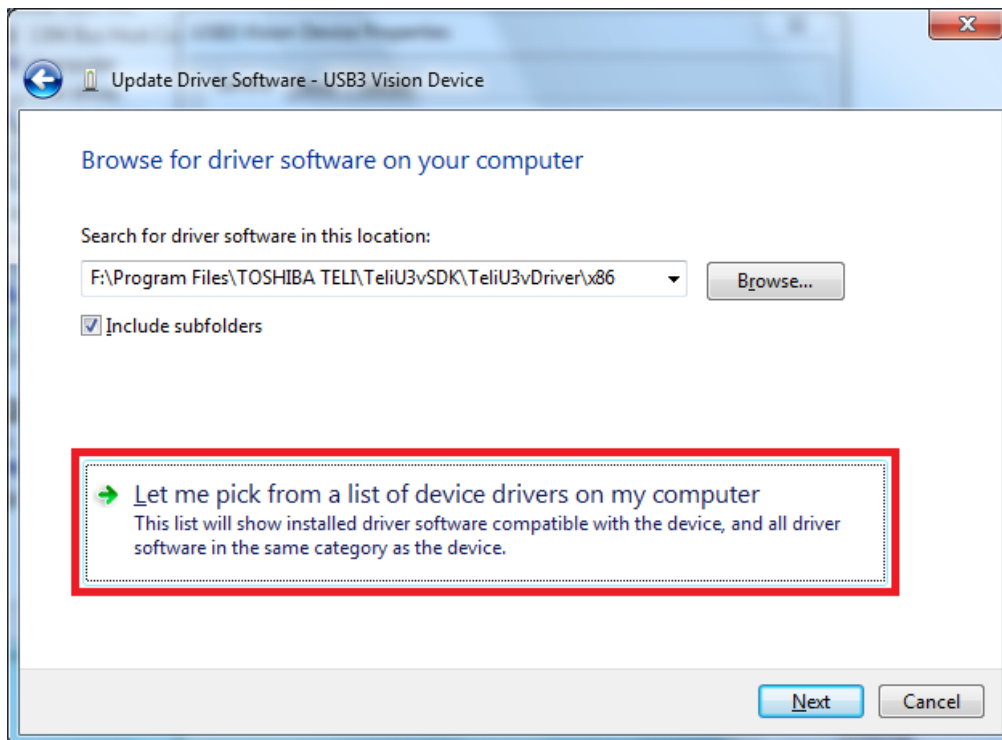
[USB3 Vision Device Properties] dialog is displayed. Click [Update Driver...].



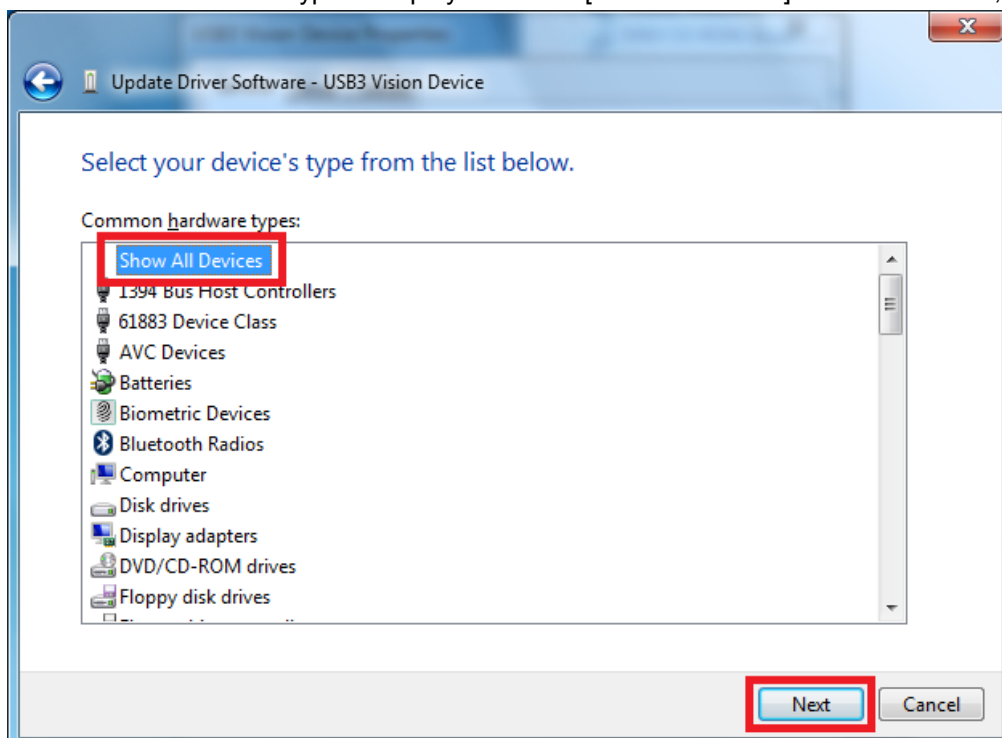
[Update Driver Software – USB3 Vision Device] is displayed.  
Select [Browse my computer for driver software].



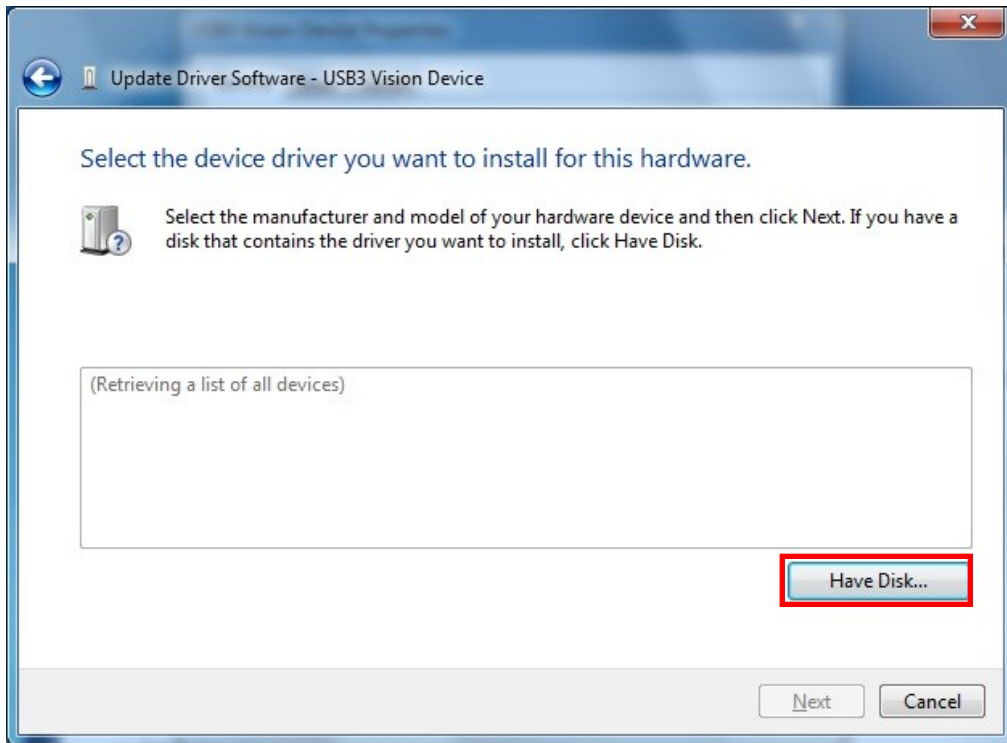
Select [Let me pick from a list of device drivers on my computer].



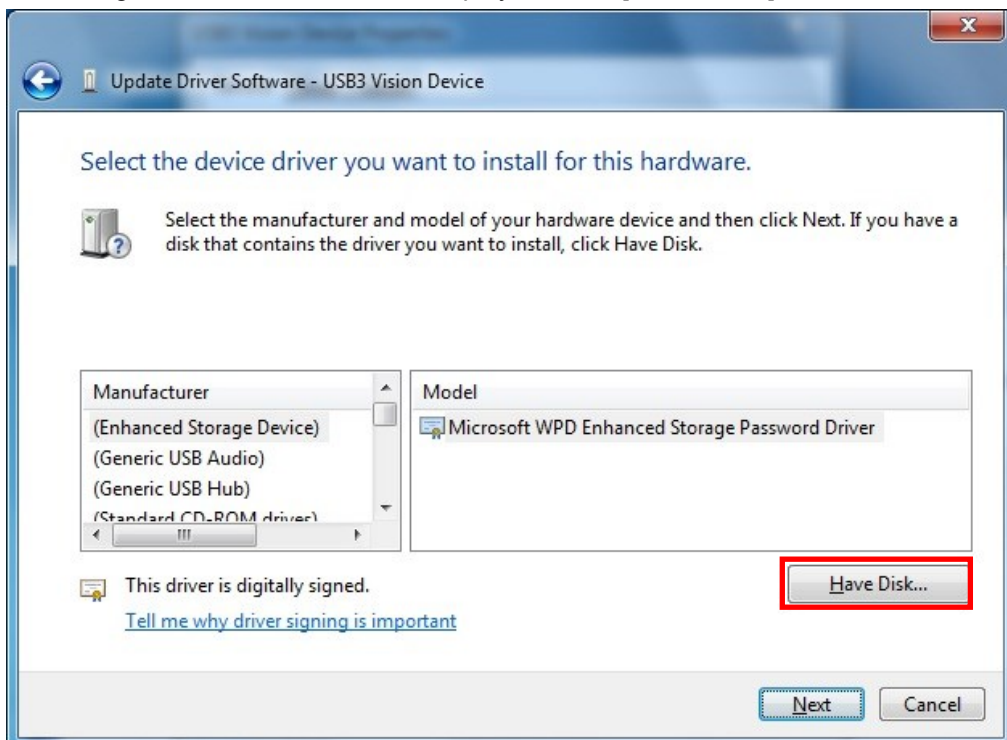
The list of select device type is displayed. Select [Show All Device] item from the list, then Click [Next].



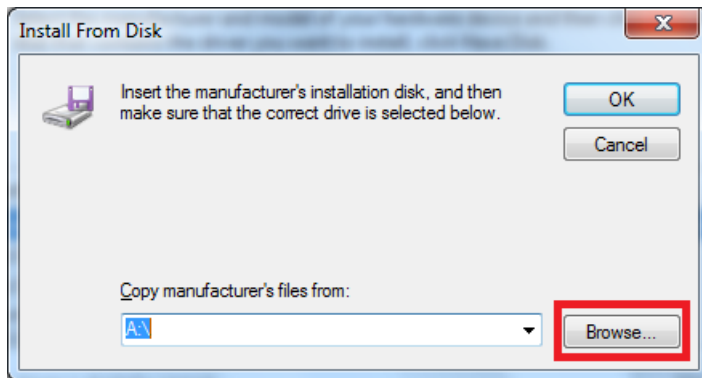
The dialog of select device driver is displayed. Click [Hard Disk...].



The dialog of select device driver is displayed. Click [Hard Disk...].



[Install From Disk] dialog is displayed. Click [Browse...]



[Locate File] dialog is displayed.

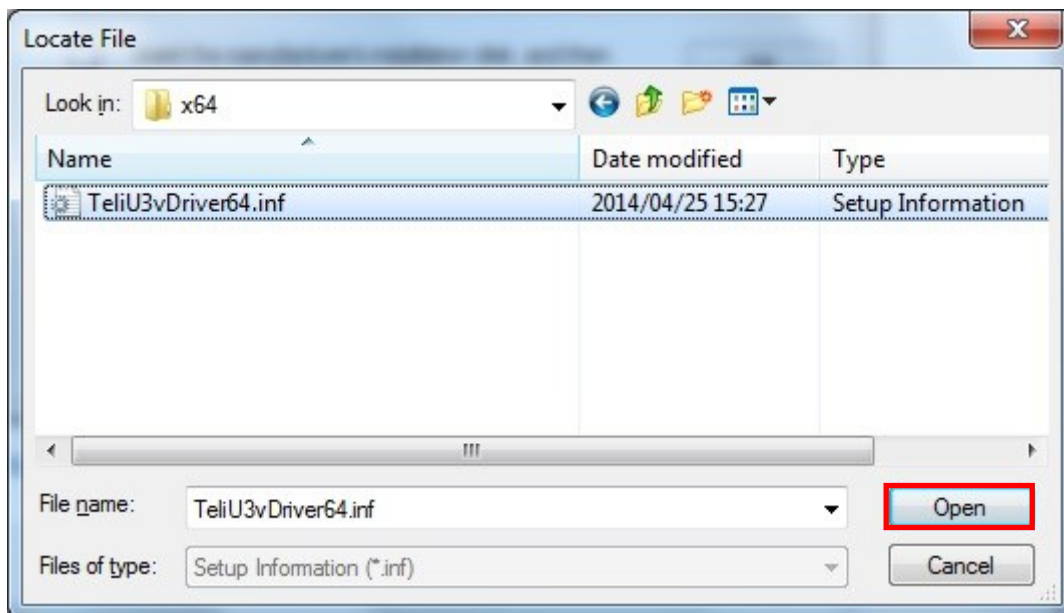
In this part, specify the "TeliU3vDriver.inf" file.

"TeliU3vDriver.inf" file is stored in the following folder.

x86 : [installation folder]\TeliCamDriver\TeliCamDriver\U3v\x86

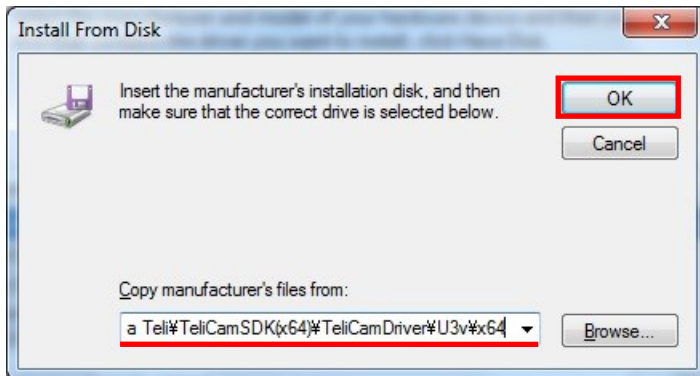
x64 : [installation folder] \TeliCamDriver\TeliCamDriver\U3v\x64

Select the "TeliU3vDriver.inf" file and click [Open].

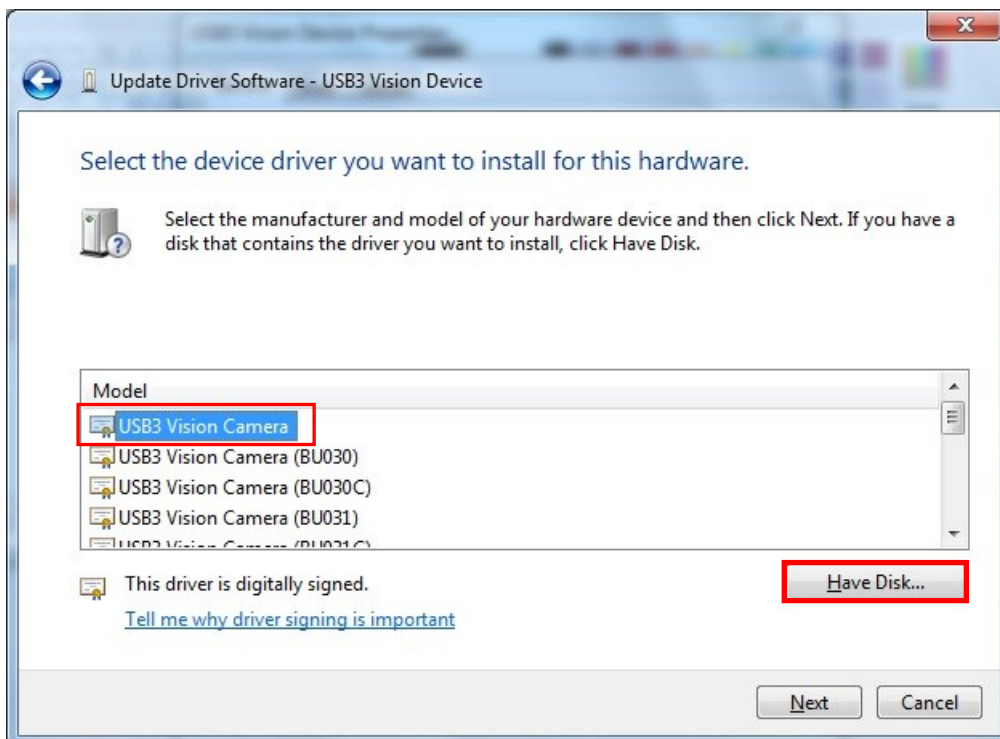


---

Go back to [Install From Disk] dialog. The directory of “TeliU3vDriver.inf” file is displayed. Click [OK].

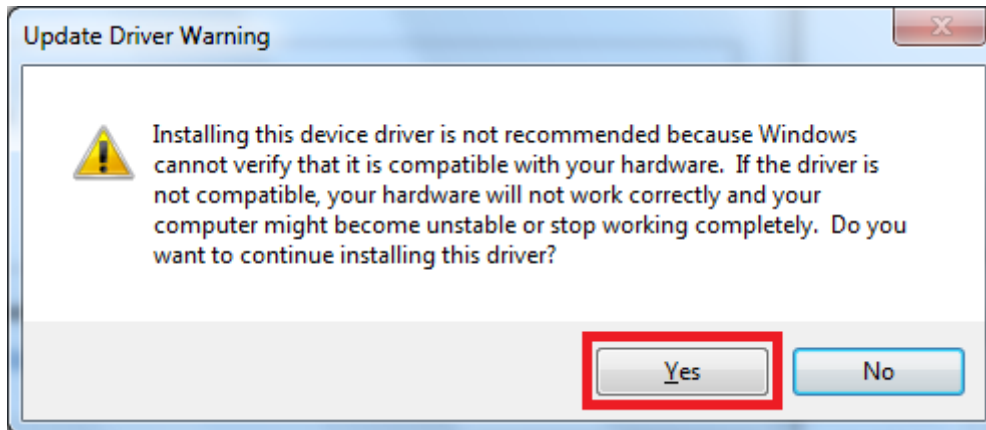


Go back to [Update Driver Software – USB3 Vision Device] dialog. [USB3 Vision Camera] will be displayed in the list. Select it, and Click [Next] to begin installation of the driver.

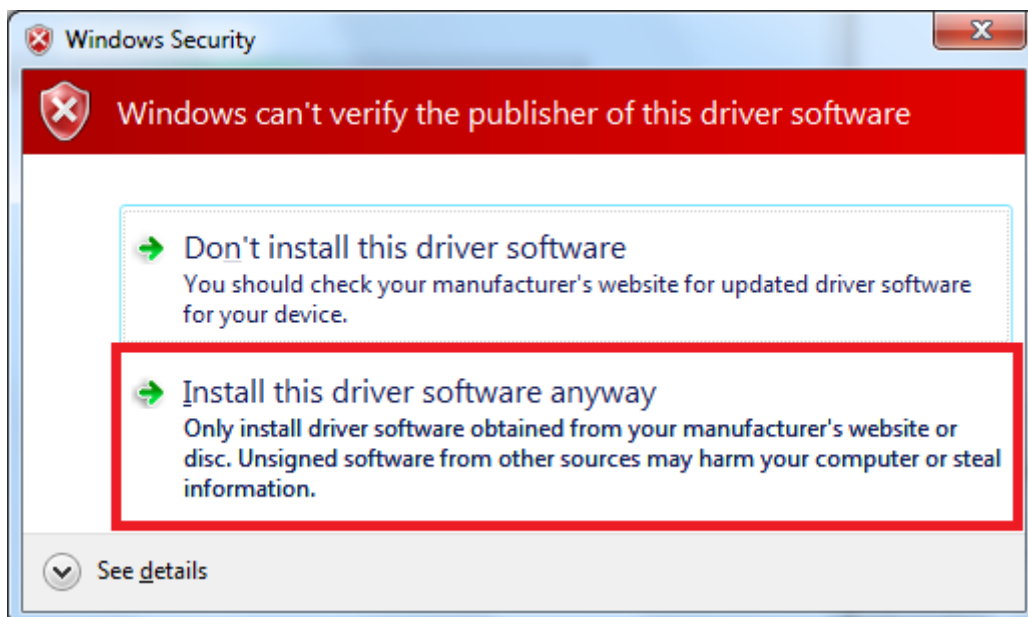


---

During installation, [Update Driver Warning] dialog might be displayed. Click [Yes] to continue installation.



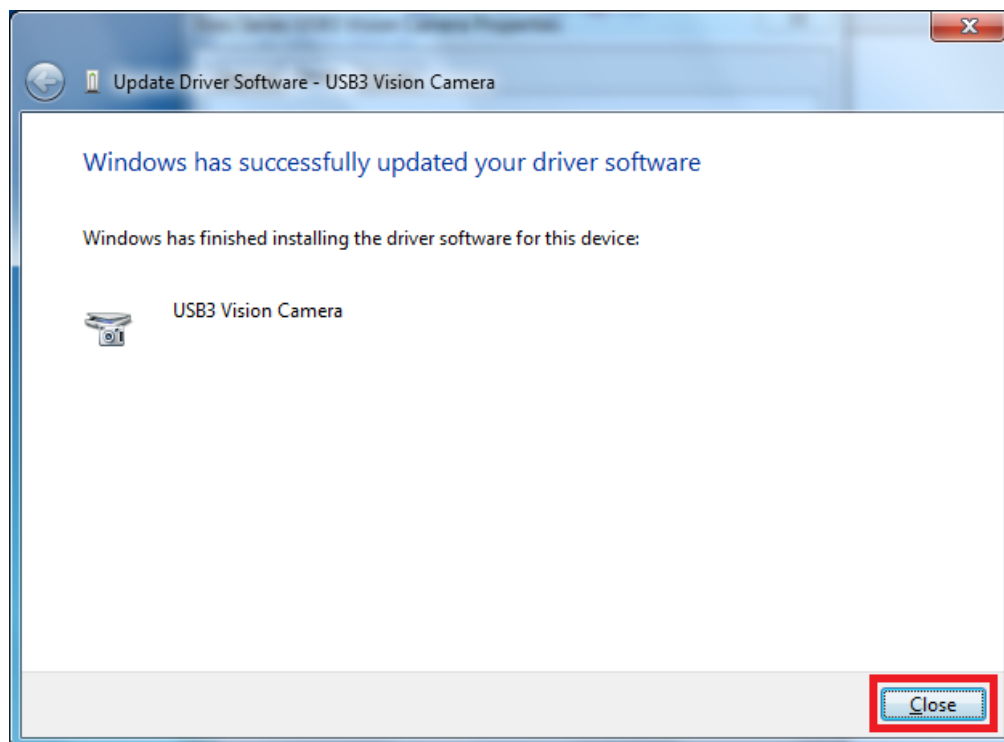
During installation, [Windows Security] dialog also might be displayed. Click [Install this driver software anyway] to continue installation.





---

The driver installation might take a little time to complete.  
If the following dialog is displayed, the driver installation is completed.



**\* If a driver has not been installed correctly, please install again after performing a full deletion of a driver that are installed.**

---

## 7. Uninstallation

TeliCamSDK uninstall methods are as follows.

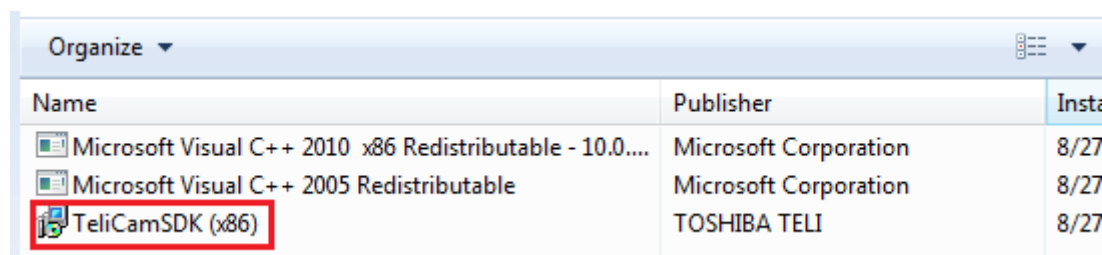
During uninstalling TeliCamSDK, there is confirmation of whether a driver uninstalls.

It's possible to uninstall only the driver.

### 7.1.TeliCamSDK Uninstallation

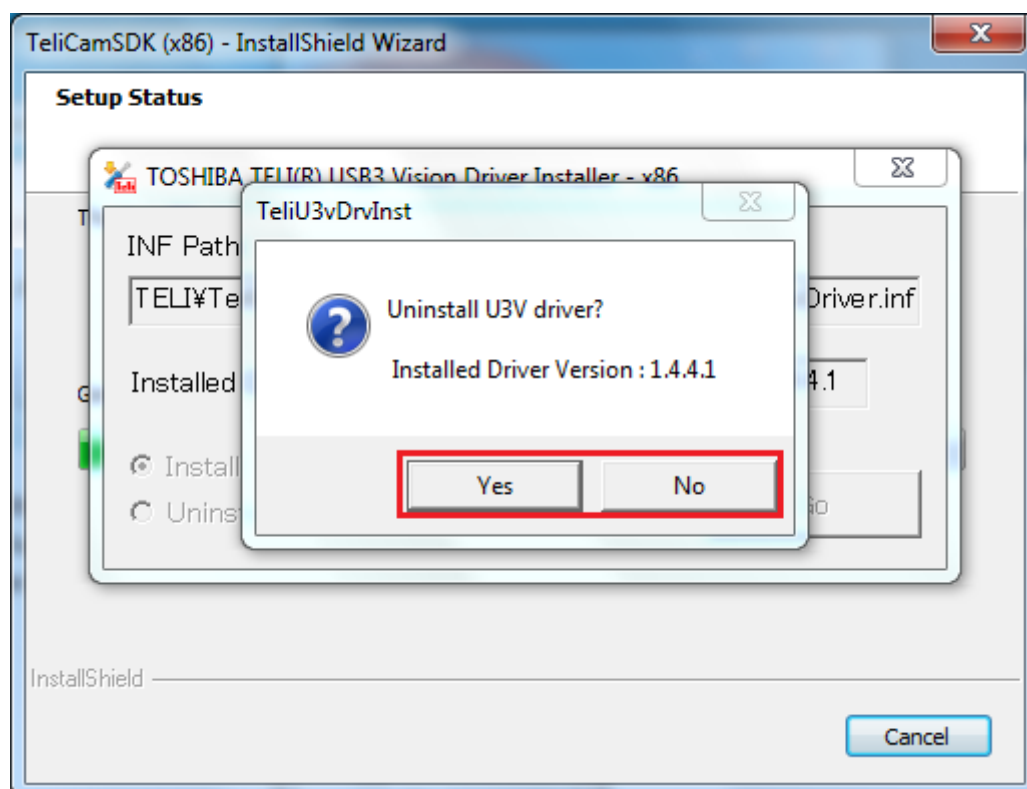
Uninstall method is using “Uninstall or change a program” in the control panel.

Select “TeliCamSDK”, and operate it according to the dialog that appears.

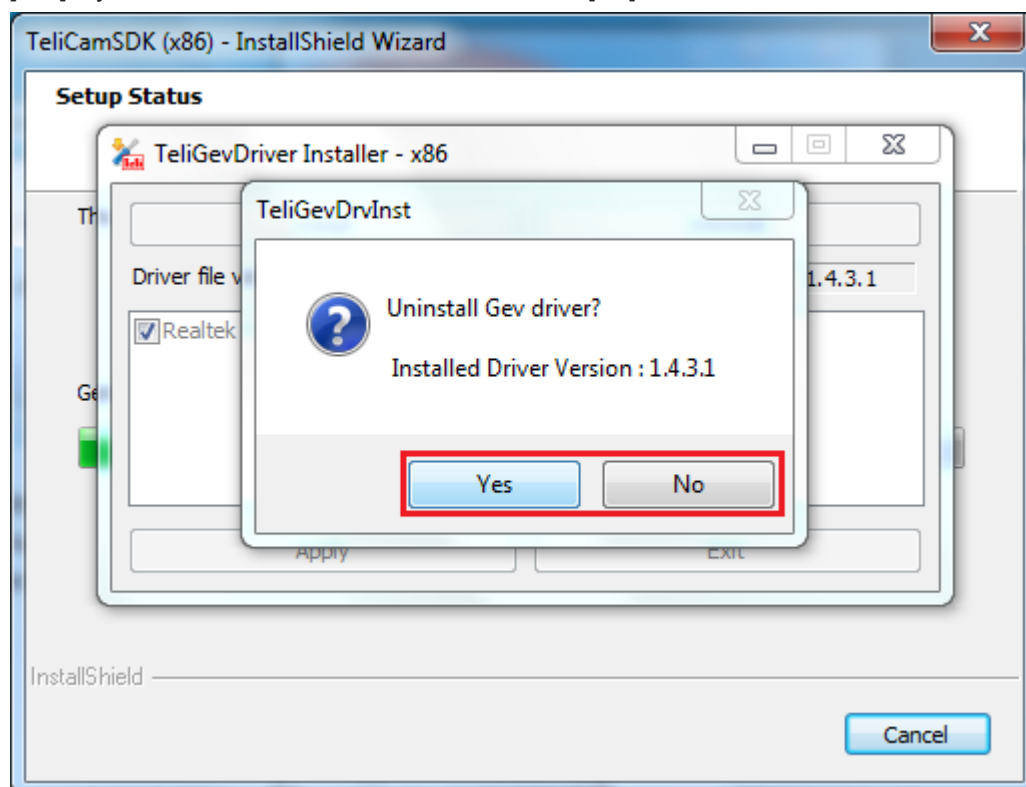


When the USB3 Vision's driver is installed, uninstaller is runs.

[Yes] if you want to uninstall, if it does not, select [No].



When the GigE Vision's driver is installed, uninstaller is runs.  
[Yes] if you want to uninstall, if it does not, select [No].



## 7.2. GigE Vision camera driver uninstallation

### 7.2.1. Driver Uninstallation (Using Tool)

The GigE Vision driver installation / uninstallation file is stored in the following folder.

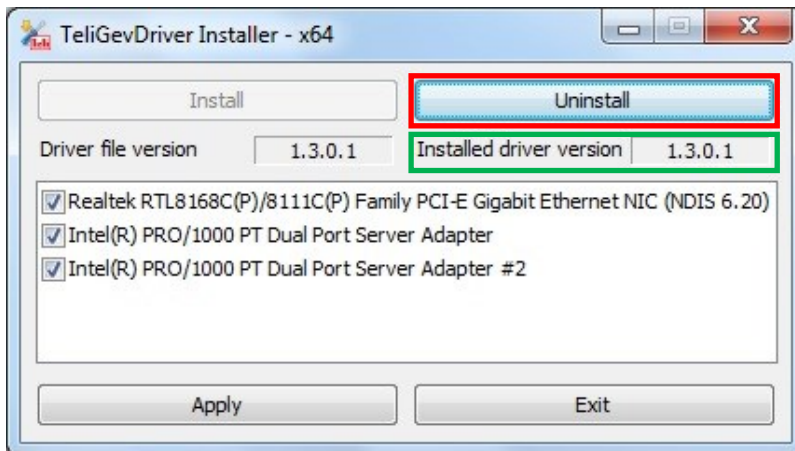
x86 : [installation folder]\TeliCamDriver\Gev\x86\TeliGevDrvInst.exe

x64 : [installation folder]\TeliCamDriver\Gev\x64\TeliGevDrvInst64.exe

---

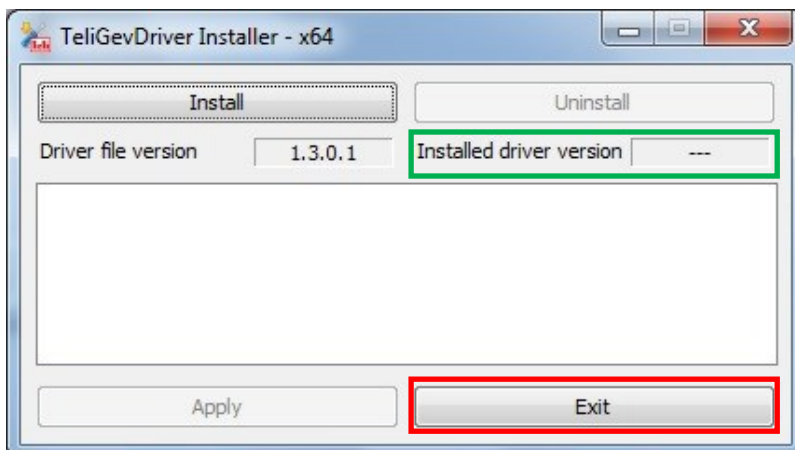
Run the above file.

Check the check box for the network adapter that you want to uninstall. Click [Uninstall].

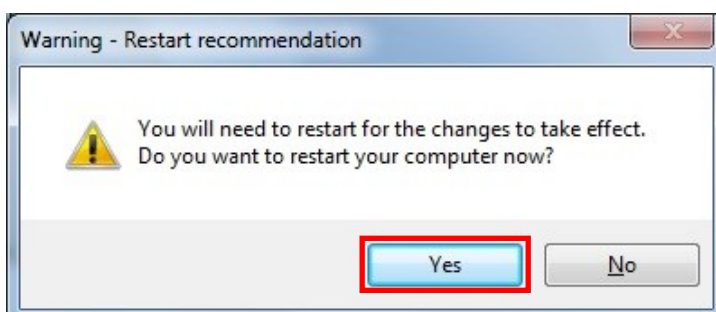


On completion of successful uninstallation, the following screen will appear.

If all network adapter's drivers are uninstalled, the following message appears on the "Installed driver version" : "---".



Now the driver uninstallation is completed. Click [Exit] to finish the installer. Reboot PC to ensure the uninstallation.



---

### 7.2.2. Driver Uninstallation (Manual)

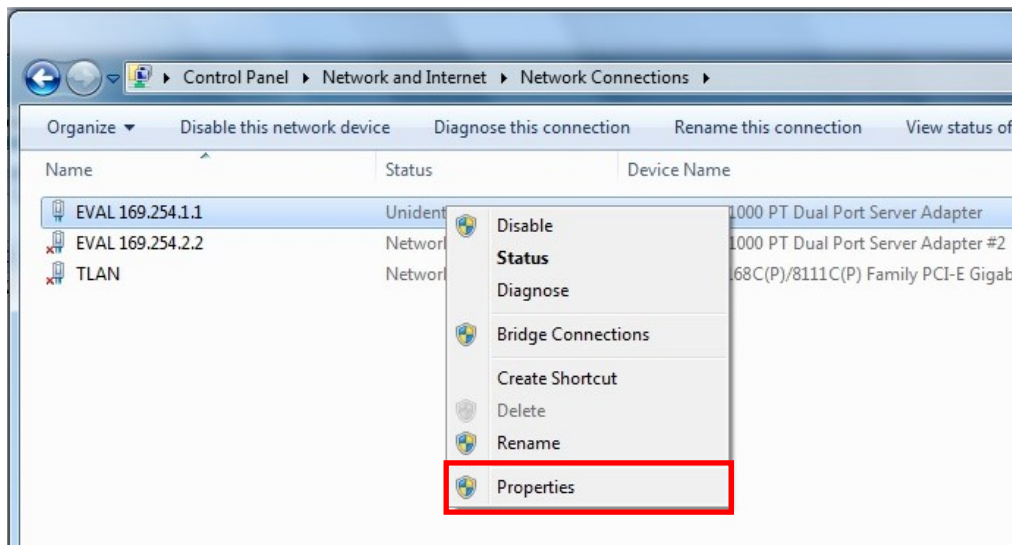
You can uninstall the driver by the following procedure instead of uninstalling a driver using the driver installation / uninstallation file.

Go to [Control Panel] → [Network and Internet] → [Network and Sharing Center].

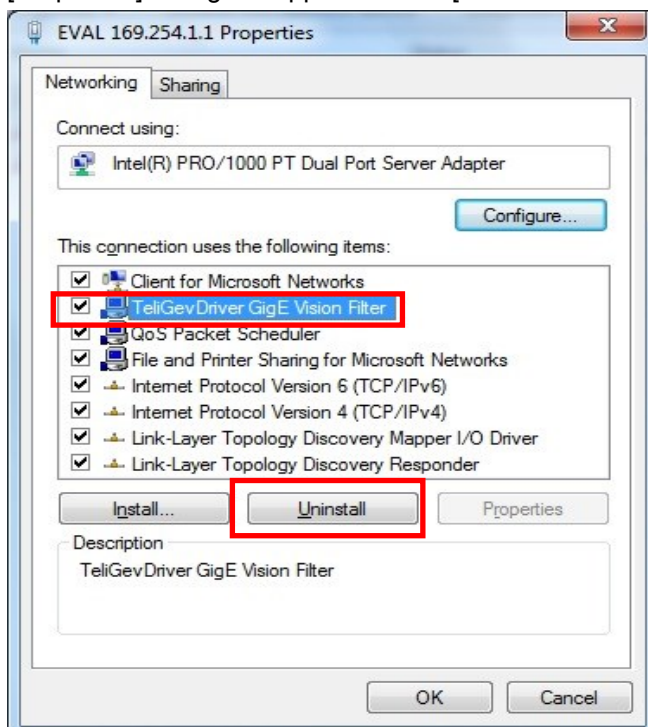
Click [Change adapter settings] on the left navigation bar.

Select the adapter which a camera is connected to. Right-click, and Select [Properties].

The screen appears as below, listing network adapters. Select one of them, right-click, and select [Properties] from context menu.

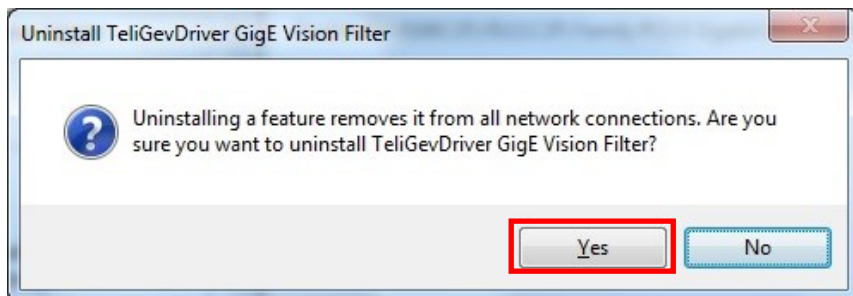


[Properties] dialog will appear. Select [TeliGevDriver GigE Vision Filter], and click [Uninstall].

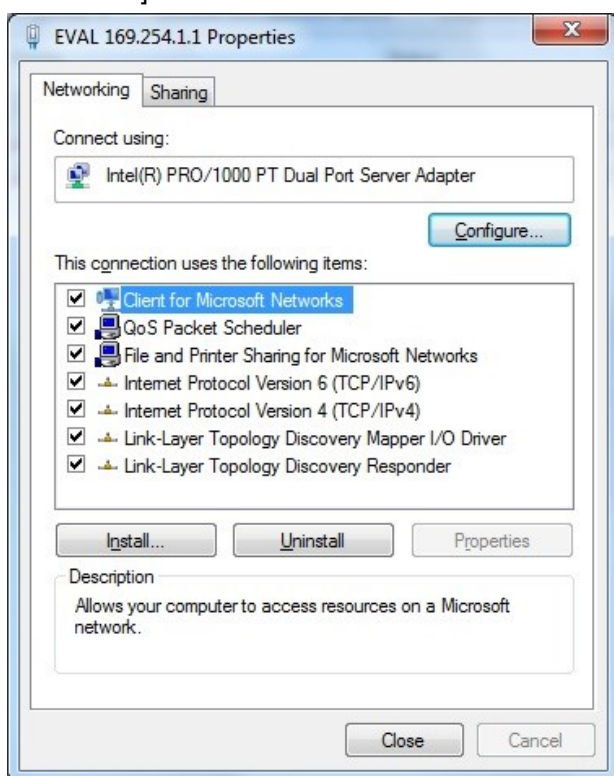


---

[Uninstall TeliGevDriver GigE Vision Filter] dialog will appear. Click [Yes] to continue uninstallation.



On completion of driver uninstallation, go back to the [Properties] dialog. The item [TeliGevDriver GigE Vision Filter] is deleted from a list box in the middle of the screen.



---

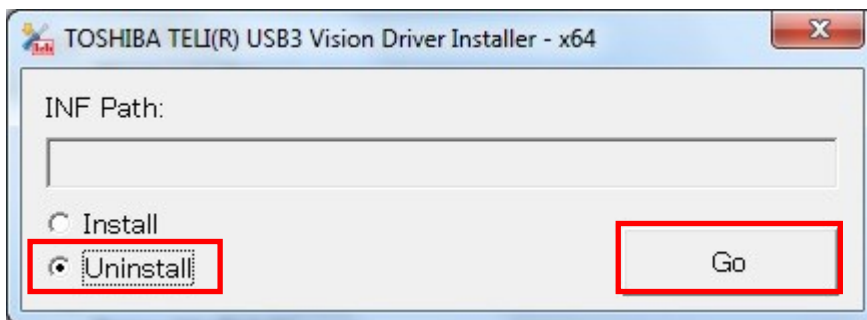
### 7.3. USB3 Vision Uninstallation

The USB3 Vision driver installation / uninstallation file is stored in the following folder.

x86 : [installation folder]\TeliCamDriver\U3v\x86\TeliU3vDrvInst.exe

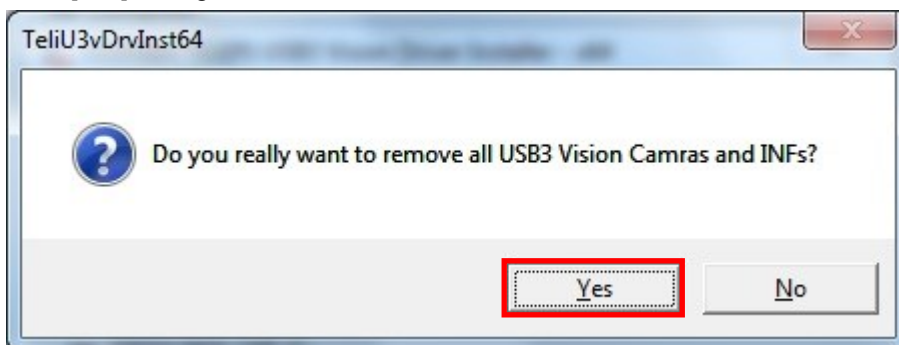
x64 : [installation folder]\TeliCamDriver\U3v\x64\TeliU3vDrvInst64.exe

Run the above file. Please check that the attached to the [Uninstall], and Click [Go].

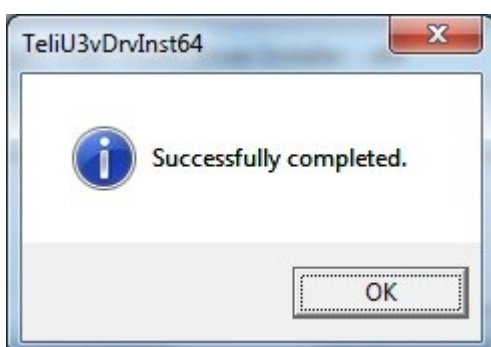


The following dialog will appear.

Click [Yes] to begin uninstallation of the driver.



If the following dialog is displayed, the driver uninstallation is completed.





---

## 8. Others

### 8.1. Revision History

Date	Version	Description
2014/09/09	1.0.0	Create the initial version.
2015/01/21	1.0.1	Added the TeliCamSDK ContainDNet description.
2015/06/12	1.0.2	Added the Windows 8.1 description
2015/08/25	1.0.3	4.Installation was changed. 7.Uninstallation was changed.
2016/07/12	2.0.0	Added the Windows 10 description Deleted the Windows XP & Windows Vista description
2016/12/16	2.0.1	Added the GenICam3.0 description Deleted the GenICam2.3 description
2017/05/31	2.0.2	8.4 Inquiry was changed.

### 8.2. Disclaimer

The disclaimer of this Software is described in another “TeliCamSDK License Agreement Eng.pdf”.  
Make sure to read this Agreement carefully before using it.

Refer to TeliCamSDK installation folder / Documents / License folder.

### 8.3. License

Microsoft, Windows, Windows XP, Windows Vista, Windows 7, Windows 8.1, Windows 10, .NET Framework and Visual C++ are the trademark or the registered trademark of Microsoft Corporation.  
GigE Vision™ and USB3 Vision™ are camera interface standard defined by AIA (Automated Imaging Association).

GenICam™ is a trademark of EMVA (European Machine Vision association).

Furthermore, the trade name used in this document is the trademark or the registered trademark of each company.

TeliCamSDK and Viewer use the library that the third party retains the copyright. Refer to TeliCamSDK installation folder/Documents/License folder for license.

---

## 8.4. Inquiry

If you need help with TeliCamSDK, GigE Vision camera, USB3 Vision camera, please visit the following website:

<https://secure.toshiba-teli.co.jp/ttfa/web/faq/top.html>

If you still can not solve the problem, please contact the our customer support below :

Imaging Solution Engineering section

Imaging & Communication Solution Engineering Division

4-7-1, Asahigaoka, Hino,

Tokyo 191-0065, Japan

Mail : TELI-EXT-technical-support@toshiba-teli.co.jp