



Installation Manual

cellSens [Ver.1.7.1]

IMAGING SOFTWARE

This installation manual is for the Olympus imaging software cellSens and microscope digital camera. To ensure safety, obtain optimum performance and familiarize yourself fully with the installation of this software, we recommend that you study this manual thoroughly before operating the software.

Retain this manual in an easily accessible place near a system for future reference.

For research and education

This system has been designed for research and educational purposes.

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The following symbols are found on this installation manual. Study the meaning of the symbols and always use the equipment in the safest possible manner.



: Indicates the information that this product may not be used if you do not follow this notice.



: Indicates the useful information when operating/maintaining this product.

1. IMPORTANT

This Installation Manual describes the installation procedures of cellSens. For installation procedures of the digital camera to be used in combination with this software, refer to Instruction Manual of the relevant digital camera and Hardware Manual within DVD-ROM of cellSens.

There are 3 types in cellSens.

- Dimension
- Standard
- Entry

* Options (paid) can be added to this software separately.

This installation manual is for installing [Dimension & Database Option]. When installing the other grades and options, a part of the dialog boxes described in this installation manual is not displayed while installing the software, but all other procedures are the same.



NOTE

When installing this product, the license key is required. Be sure to keep the certificate describing the license key.



NOTE

To operate a camera using cellSens, a device driver for each camera must be installed onto your PC.



NOTE

Quit all running applications before installing cellSens.



NOTE

The software cannot be installed unless the user account is registered as “Computer Administrator.”

If the user account is registered as a “Restricted Account,” change it to the “Computer Administrator” account.

(For user account registration, refer to the instruction manuals for your computer.)

Trademark information

Windows is a registered trademark of Microsoft Corporation, USA. All of the other brand names and product names mentioned in this manual are trademarks or registered trademarks of their respective owners.

Note on Disposal

Be sure to observe your local regulations and rules when disposing of this product.

Recommended operating environment

The fact that the recommended operating environment below is met does not necessarily guarantee the availability of all of the operations that are usually available with the PC connection system.

Please refer to the Instruction Manual of each camera for the operation environment unique to the camera to be used.

No.	Topic	Remark
1	CPU	Intel Core i5, Intel Core i7, Intel Xeon®, (or compatible)
2	Memory	8 GB recommended (4GB minimum)
3	HD Space	1 GB hard disk space for installation Recommended for high speed image acquisition: SSD hard disk
4	Graphic Card	1280x1024 (min. 1024 x768) monitor resolution with 32-bit-video card with separate graphics memory (no integrated graphics processor with shared memory)
5	Drive	DVD-ROM drive
6	PC Input Device	minimum 2 button mouse, (recommended: 3 button mouse with wheel), Keyboard
7	OS	Microsoft® Windows® 7 Ultimate / Professional (32bit / 64bit) SP1 Microsoft® Windows® Vista Ultimate / Business (32bit) SP2 Microsoft® Windows® XP Professional (32bit) SP3
8	OS Language	Japanese, German, English, Chinese, Russian and all others using the Roman alphabet.
9	Web Browser	Microsoft Internet Explorer 8.0

In order to realize the faster image acquisition, it is recommended to meet the following specifications in addition to the recommended operating environment described above.

- CPU : QuadCore is installed.

Getting Ready

- 1) When you are using Windows 7 or Vista, an error may occur if PC turns in the hibernation mode during cellSens startup. Please be sure to set PC not to be in hibernation mode.
- 2) The image data may be damaged unexpectedly. Please backup the data on regular base.
- 3) This software must not be used for medical purpose.
- 4) Please note that if the camera cable comes off while the live image is displayed, the live image will not be displayed though the camera cable is connected again. In this case, restart the application with the camera cable being connected.
- 5) The application cannot be started doubly.
- 6) cellSens (Dimension/Standard/Entry) cannot be installed on the same PC.
- 7) Set the PC to be used not to execute the virus scan during processing time lapse, etc. The PC performance may be deteriorated due to the virus scan workload and the accurate results may not be acquired.
- 8) Please refer to the instruction manual of each device for the setup procedures or the operation procedures of other devices (microscopes, etc.).
- 9) Never attempt to delete or rename the folders and files installed by the provided installer software. Otherwise, the software may get unable to be started up.
- 10) When the HDD free space reduces, the data processing speed may slow extremely or errors may occur frequently. To prevent this, delete unnecessary data files frequently.
- 11) Please understand that Olympus shall not be responsible for any loss (destruction) of the data recorded.
- 12) Be sure to create the backup of PC system before installing this software.
- 13) In order to use the report function of cellSens Dimension, either Microsoft Office Word 2003/2007 or Microsoft Word 2010 must be installed.

2. Installing cellSens

This section describes the installation procedures using Windows 7. If using Windows Vista or XP, the operating methods are more or less the same.

NOTE Cautions for Installation

When installing cellSens, if DP21, etc. is specified as the device to be used, the IEEE1394 device driver is changed to the OLYMPUS specific IEEE1394 device driver. Consequently, general IEEE1394 devices cannot be used.

Devices requiring OLYMPUS specific IEEE1394 device driver (I)	OLYMPUS	<ul style="list-style-type: none"> • DP26 • DP21 • BX3 CBH • IX3 CBH
Devices requiring general IEEE1394 device driver (II)	OLYMPUS	<ul style="list-style-type: none"> • DP25
	Olympus Soft Imaging Solutions (OSIS)	<ul style="list-style-type: none"> • CC12 • F-View II • ColorView I • ColorView II • ColorView III • ColorView IIIu • XM10 • XC10 • XC30 • XC50 • UC30 • UC50
	QImaging	<ul style="list-style-type: none"> • Micro Publisher 3.3 RTV • Micro Publisher 3.3 RTV cooled • Micro Publisher 5 RTV • MicroPublisher 5 RTV cooled • Retiga SRV • Monochrome Retiga Exi • Monochrome QI Click • Exi Blue • Rolera Thunder • Monochrome Exi Aqua • Monochrome Retiga 4000 R • Monochrome Retiga 4000 RV • Monochrome Retiga 2000 R • Monochrome Retiga 2000 RV
	Hamamatsu	<ul style="list-style-type: none"> • Orca-AG • Orca-05 • Orca-ER • Orca-R2 • Orca-03
	Roper	<ul style="list-style-type: none"> • CoolSnap HQ2
	Jenoptik	<ul style="list-style-type: none"> • ProgRes C3 • ProgRes C5

When you use devices requiring the driver (I) and devices requiring the driver (II) by connecting both to the same PC, in addition to the PCI board of the IEEE1394 connector for the driver (I) (hereinafter called as PCI board- I), one more PCI board of the IEEE1394 connector for the driver (II) (hereinafter called as PCI board- II) is necessary. And you need to set them up according to procedures as follows.

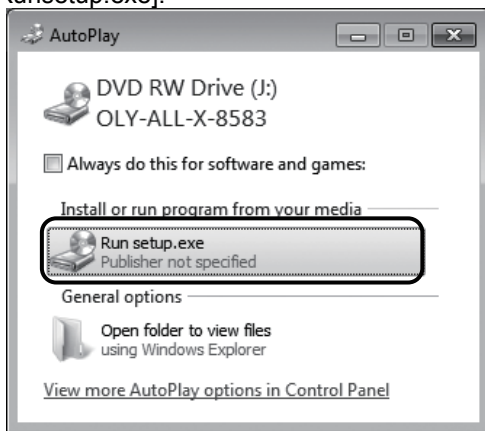
- 1) Mount PCI board- I to PC. Remove PCI board- II.
 - 2) Install cellSens.
 - 3) After installation is completed, shutdown PC and plug out the power cable. Then mount PCI board- II to PC.
 - 4) Connect the device requiring the driver (I) to the connector of PCI board- I and the device requiring the driver (II) to the connector of PCI board- II respectively.
- * If the IEEE1394 connector has already been mounted to PC and the PCI board cannot be removed, set up as above by using that PCI board as PCI board- I .
- * Please refer to P.24 for procedures to update the IEEE1394 device driver.

2.1. Start of the Installer

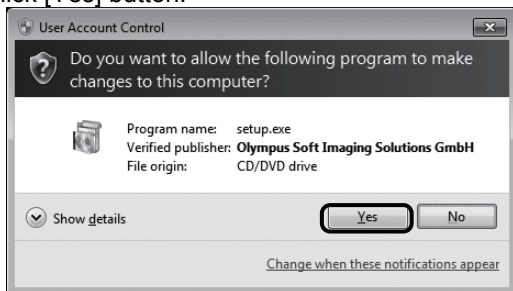
Prepare following items for installation.

- DVD-ROM
- Certificate describing the main license key
- Certificate describing the option license key (only when using the option)
- Storage media, e.g. USB memory, etc. (only if PC to install cellSens cannot be connected to Internet.)

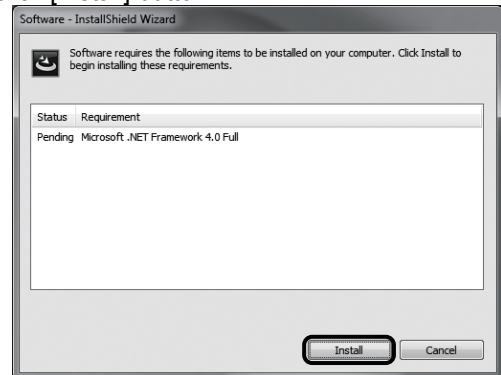
- 1) Start Windows 7. (Log on with the Computer Administrator account.)
- 2) Insert the DVD-ROM into the DVD-ROM drive.
- 3) When the [AutoPlay] window appears, click on [Runsetup.exe].



- 4) When the [User Account Control] window appears, click [Yes] button.



- 5) When the [InstallShield Wizard] window appears, click [Install] button.



* After installation of Microsoft .Net Framework 4.0 full, you may be required to restart Windows. In this case, please restart and double-click cellSens DVD-ROM icon in [Computer] in Start menu.

Go to 2.2. Software activation

2.2. Software activation

2.2.1. What is the purpose of software activation?

Software activation is the process to unlock the software you are about to install or have already installed for perpetual use. Activating the licenses by electronic means now replaces the hardware dongle that in former times was required to protect the software against unauthorized use.

Normally, the licenses are activated at the beginning of the software installation. However, you can also activate your software retroactively, within 30 days after the installation at the latest. When the software activation has been completed successfully, you possess an activated software license that is registered on Olympus' central activation server.

2.2.2. Activation procedure

How the activation is carried out depends on whether an Internet connection can be made or not, and from which PC. Regardless of the activation scenario used, basically always the same data is exchanged between the client PC and the activation server. These data do not contain any personal information.

There are three scenarios:

1. Internet-based activation (P.8)

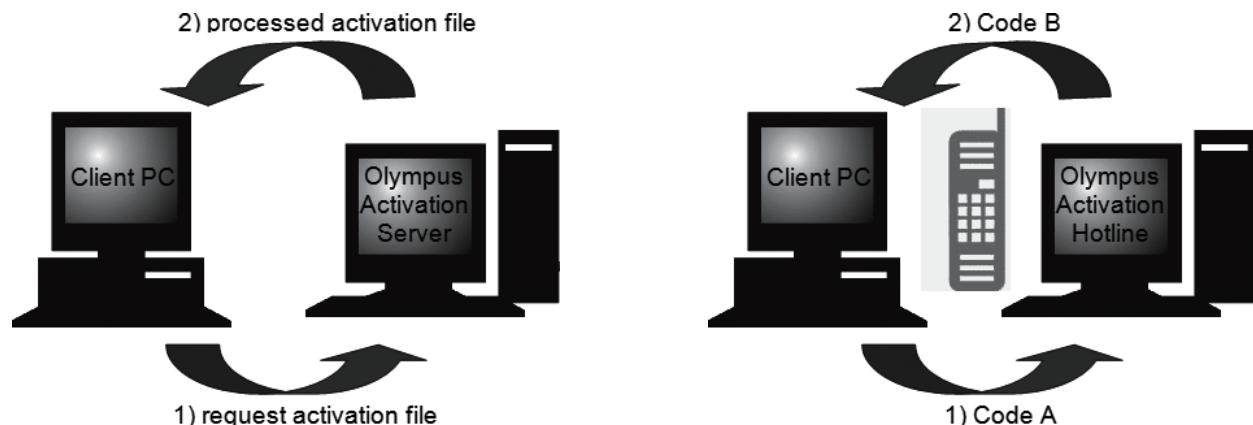
If the PC on which the software will run has an Internet connection, the activation automatically takes place via Internet.

2. File-based activation (P.9)

If the PC on which the software will run has no Internet connection, the activation takes place via another PC that has an Internet connection.

3. Code-based activation (P.11)

Alternatively the activation can be done via transferring and entering character codes. You can do this via your mobile device (for example, Smartphone) or by calling the Activation hotline. Because of the very long codes that must be entered, only choose this scenario when absolutely no PC with internet connection is available nearby.



Basic data exchange during software activation

With the internet-based activation scenario, a RAF file (request activation file) is automatically sent to the Olympus' central activation server via Internet. This server, provided that the license could be identified and activated, automatically sends back a PAF file (processed activation file).

With the file-based activation scenario, the RAF files are transferred too. However, sending the files is done manually in this scenario via upload and download from the activation server

With the code-based activation scenario, character codes are exchanged, for example by telephone with the Activation hotline.

The importance of the license key

Any cellSens software installation always requires entering license keys.

The license key can be found on the license certificate that was delivered with your software.

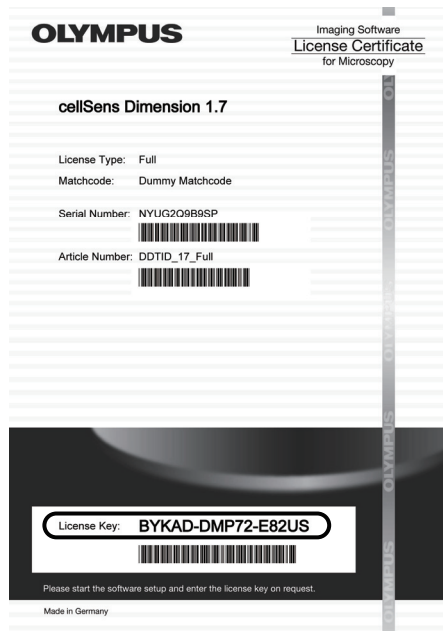


Illustration of a license certificate. The license key that is needed for software installation is surrounded in an oval.

During activation the activation server checks whether the license is valid. If the license is valid, the activation server sends back a PAF file. With PCs that have an Internet connection, this process runs automatically and is normally finished within seconds.

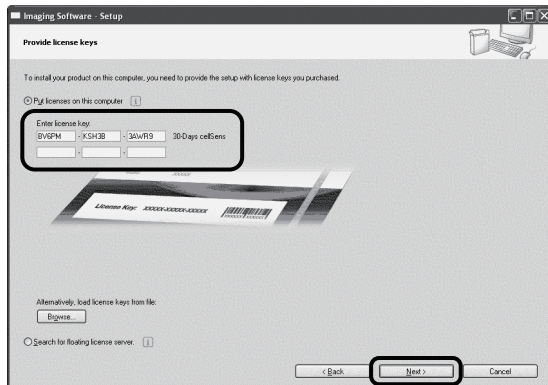
You are given exactly one license key for your software. If you also purchased specialized software extensions, called Solutions, you have been given a separate license certificate with another license key for each Solution. You must enter these license keys as well during installation.

2.2.3. When does software activation take place?

Having installed the software does not mean that it is automatically activated. If, during software installation, you chose to activate the software later, you must do this within 30 days of installation because you won't be able to use the software afterwards without activation. Until you complete the activation, you are prompted to do so every day during this term.

Select the Help > Activate licenses... command to activate your software licenses retroactively. This command is only available if your licenses have not been activated yet.

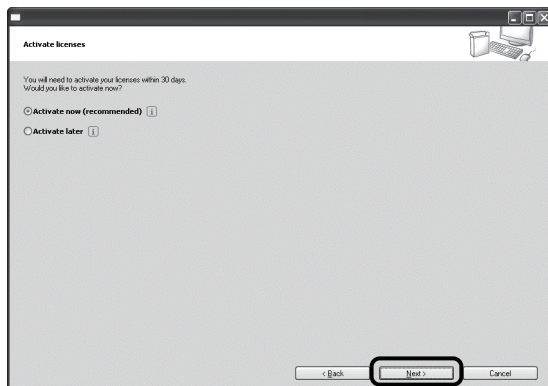
2.2.4. Internet-based software activation



- 1) In the Provide license keys dialog box that is displayed now, enter the license key that is given on the license certificate.

* If you have more license keys (for example, for Solutions), enter all of them.

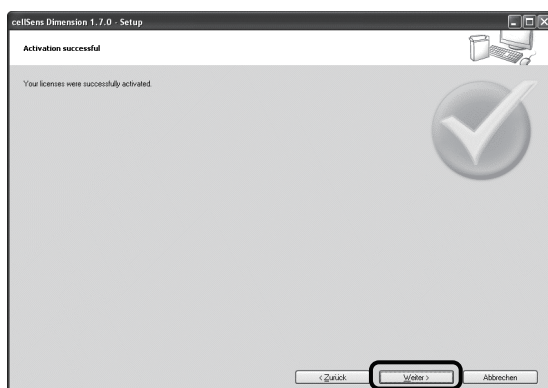
- 2) Click the Next > button.



- 3) In the Activate licenses dialog box that is displayed now, do not change the preset Activate now (recommended) option and click the Next button.

- 4) In the Contact activation server dialog box, click the Contact Server button.

* The PC will now contact the activation server and data will be exchanged. This occurs in the background. This can take several seconds. Do not interrupt this process if possible!



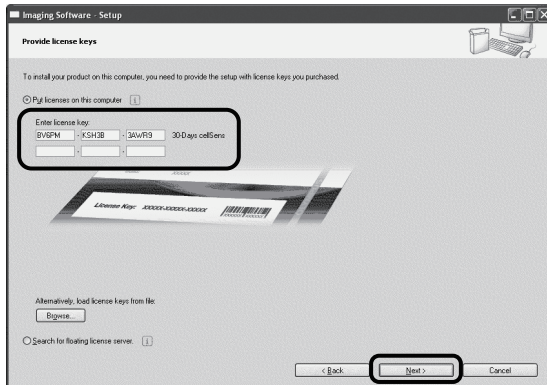
* When the dialog box displayed on the left-hand side is displayed, your software has been activated successfully.

- 5) Click the Next button to continue the software installation.

2.2.5. File-based software activation

If the PC where cellSens is to be used has no Internet connection, the activation can be done via another PC that has an Internet connection.

To do so, you start the software installation on the first PC and then use a second PC (with an Internet connection) for data exchange with the Olympus' central activation server. Have your license certificate at hand.

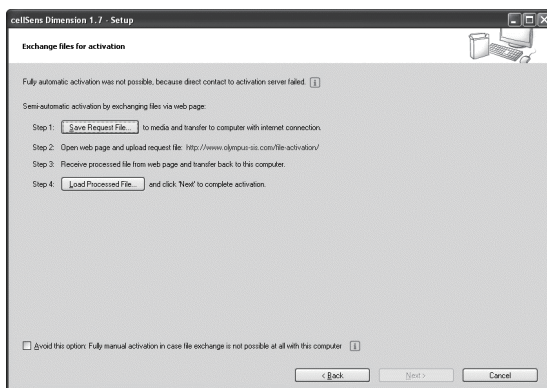


- 1) In the Provide license keys dialog box that is displayed now, enter the license key that is given on the license certificate.

* If you have more license keys (for example, for Solutions), enter all of them.

- 2) Click the Next > button.
- 3) In the Activate licenses dialog box that is displayed now, do not change the preset Activate now (recommended) option and click the Next button.
- 4) In the Contact activation server dialog box, click the Contact Server button.

* The PC now tries to contact the activation server. Due to the fact that no contact can be made, the dialog box shown on the left-hand side is displayed:



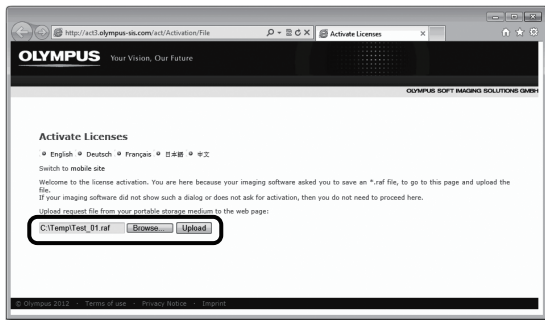
- 5) To do so, click the Save Request File... button. Save the request file in a way that allows you to access it from the second PC with the Internet connection (for example on a network drive or USB stick).

* The request file has the RAF file name extension, for "request activation file".

- 6) Change over to the PC with Internet connection, open an Internet browser and enter the following internet address.

<http://www.olympus-sis.com/file-activation/>.

* You will see the following website:



7) If necessary, you can change the website language.

8) Click the Browse... button and find the request file. Then click the Upload > button.

* The website will now be updated. This may take several seconds.

9) Click the Download Processed File... button. Save the processed file in a way that allows you to access it from the PC where cell Sens is being installed (for example on a network drive or USB stick).

* The processed file has the PAF file name extension, for "processed activation file".

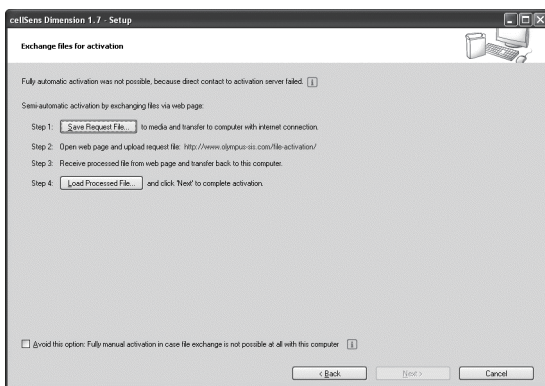
* After completing in downloading the processed file, you can perform User Registration. After User Registration is completed, you can receive the product information via your E-mail. Click [Register as User] button to move to the user registration page. Enter the required items in the form.

10) Close the Internet browser again.

11) Change back to the PC where cellSens is being installed.

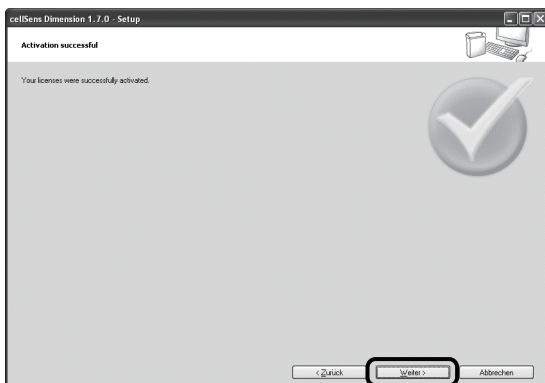
12) In the Exchange files for activation dialog box that should still be on display, click the Load Processed File... button. Browse to the directory in which the processed file has been saved.

* As soon as the processed file has been loaded, the Next button becomes active.



* When the dialog box displayed on the left-hand side is displayed, your software has been activated successfully.

13) Click the Next button to continue the software installation.



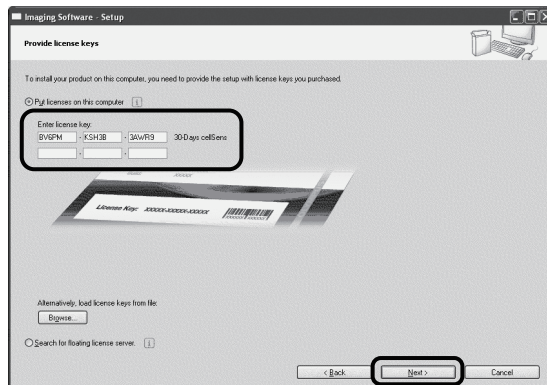
2.2.6. Code-based software activation

If the PC where your software is installed has no Internet connection and if no other PC with an Internet connection is available either, the activation can be done via transferring and entering character codes.

You can do this via your mobile device (for example, Smartphone) or by calling the Activation hotline.

Because of the very long codes that must be entered, only choose this scenario when absolutely no PC with internet connection is available nearby.

When activating the software via telephone, it is a good idea to have the telephone next to the PC on which you want to activate the software. Then you can read aloud Code A to the Customer Support Center employee and directly enter the newly created Code B that will be given to you.

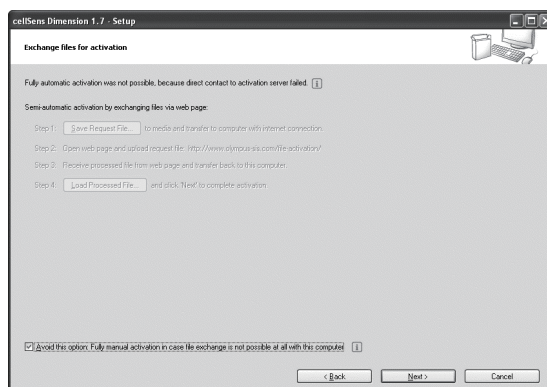


- 1) In the Provide license keys dialog box that is displayed now, enter the license key that is given on the license certificate.

* If you have more license keys (for example, for Solutions), enter all of them.

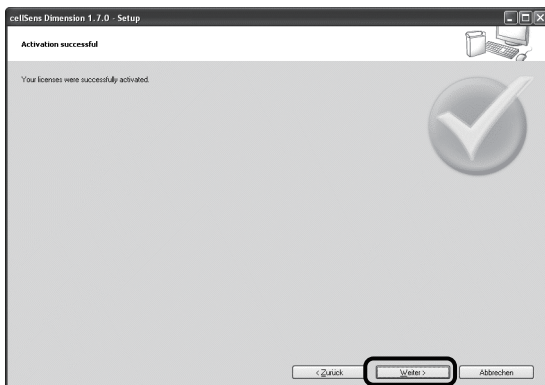
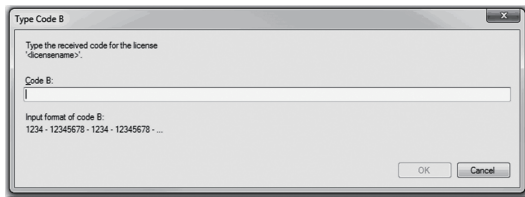
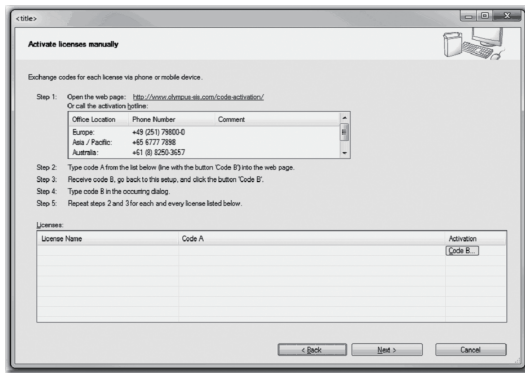
- 2) Click the Next > button.
- 3) In the Activate licenses dialog box that is displayed now, do not change the preset Activate now (recommended) option and click the Next button.
- 4) In the Contact activation server dialog box, click the Contact Server button.

* The PC now tries to contact the activation server. Due to the fact that no contact can be made, the dialog box shown on the left-hand side is displayed:



- 5) Select the Avoid this option: Fully manual activation in case file exchange is not possible at all with this computer check box.
- 6) Click the Next > button.

* The following dialog box opens.



7) Call the Activation hotline during local office hours. The dialog box displays the telephone number that is valid for your location.

* The customer will bear the costs of the telephone call.

8) Inform the Customer Support Center employee that you would like to activate a software license by telephone.

9) Read aloud Code A.

* Alternatively, you can use your mobile device (for example, Smartphone) and open this website <http://www.olympus-sis.com/code-activation/>. On this website, you can enter Code A yourself and then select Send.

10) When you received Code B, click the Code B... button in the Activate licenses manually dialog box.

* The Type Code B dialog box opens.

11) Enter Code B and click the OK button.

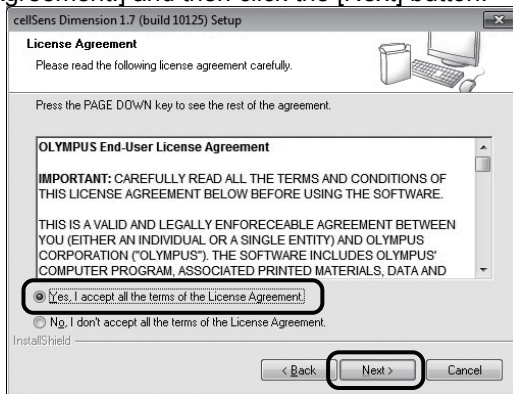
12) If you have more than one license, repeat the steps 10) to 12) until you finish to enter Code B for all your licenses.

13) In the Activate licenses manually dialog box, click the Next button.

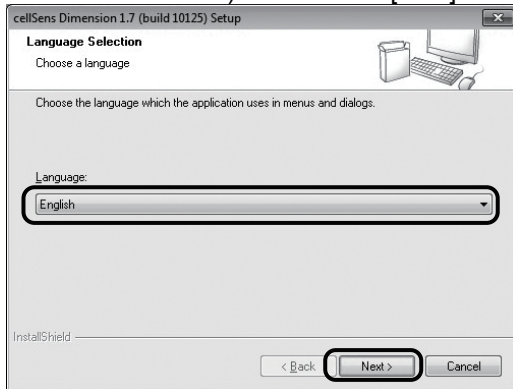
14) When the dialog box displayed on the left-hand side is displayed, your software has been activated successfully. Click the Next button to continue the software installation.

2.3. Installation

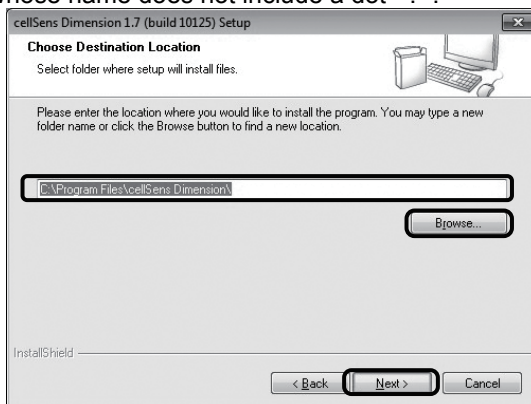
- 1) Read the displayed Licensing Agreement, check [Yes, I accept all the terms of the Licensing Agreement.] and then click the [Next] button.



- 2) Select the language (English, Japanese, Chinese, German and Russian) and click the [Next] button.

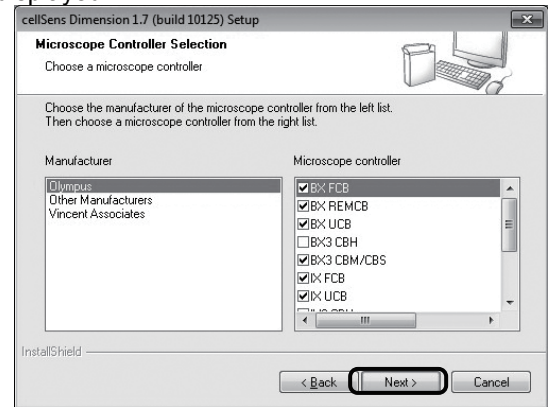


- 3) The [Choose Destination Location] window appears. If you want to change the destination location, click the [Browse] button to find a new location. Click the [Next] button.
If a dot "." is included in the name of the folder selected as the destination to install, the failure may occur in some functions. Be sure to select the folder whose name does not include a dot ".".



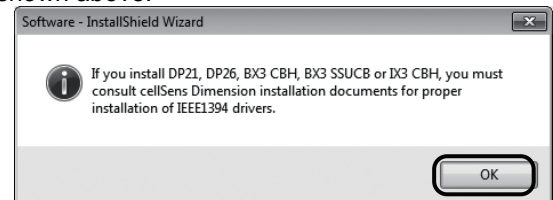
- 4) The [Microscope Controller Selection] window appears. Select the microscope, and click the [Next] button. If there are no microscopes in the list, click on the [Next] button.

In case of installing [Entry], this window won't be displayed.



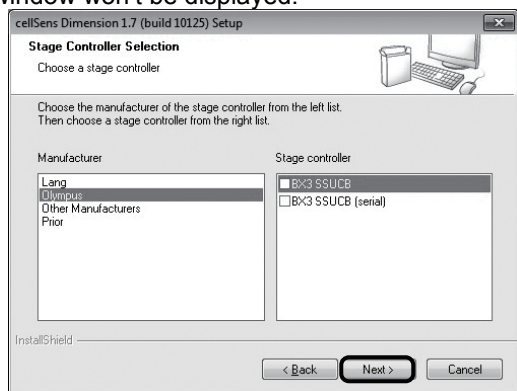
When you use BX3 CBH or IX3 CBH

When [BX3 CBH] or [IX3 CBH] has been checked, the dialog box shown below appears. Click the [OK] button to close the box and click the [Next] button shown above.



- * If you are using BX3 CBH / IX3 CBH, the IEEE1394 device driver must be changed to the IEEE1394 device driver specialized for Olympus after installation. Refer to 4.Setting the Microscope (p.20) for details.

- 5) The [Stage Selection] window appears. Select the stage, and click the [Next] button. If there are no stages in the list, click the [Next] button.
- * If the [Multi Position Option] is not purchased, this window won't be displayed.

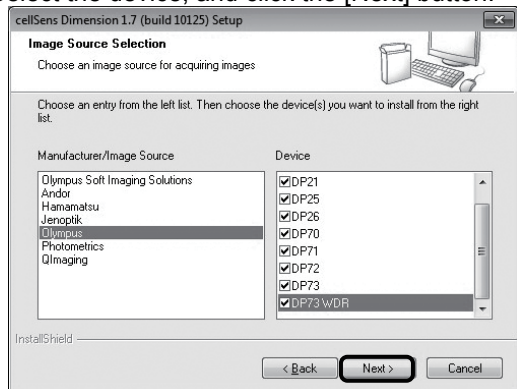


When you use BX3 SSUCB

If you connect BX3 SSUCB to BX3 CBH / IX3 CBH, select [BX3 SSUCB]. If you connect BX3 SSUCB to the PC, select [BX3 SSUCB (serial)].

When [BX3 SSUCB] has been checked, the window same as the one when [BX3 CBH] or [IX3 CBH] is checked in selecting the microscope controller in 4) is displayed. Click the [OK] button to close the box and click the [Next] button shown above.

- 6) The [Image Source Selection] window appears. Select the device, and click the [Next] button.



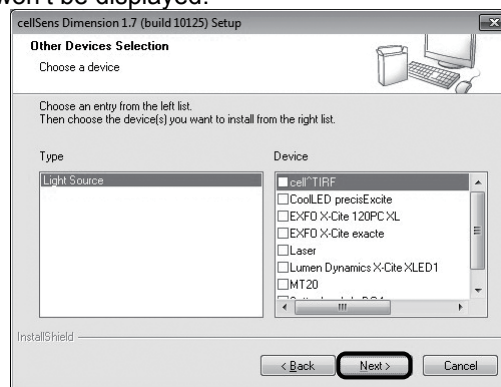
When you use DP26 or DP21

When [DP26] or [DP21] has been checked, the window same as the one when [BX3 CBH] or [IX3 CBH] is checked in selecting the microscope controller in 4) is displayed. Click the [OK] button to close the box and click the [Next] button shown above.

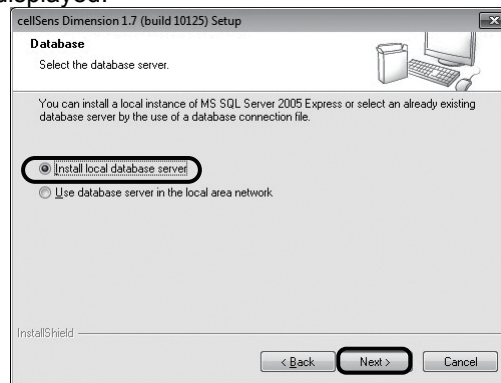
When you use DP73 or DP73WDR

When [DP73] or [DP73WDR] is used, it is recommended to use the PC on which 64bitOS is mounted. If you use the PC on which 32bitOS is mounted, consult with OLYMPUS.

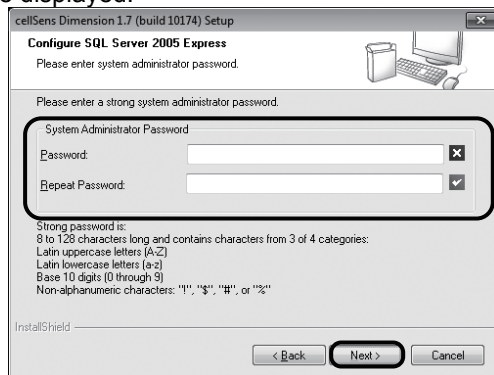
- 7) The [Other Devices Selection] window appears. Select the device, and click the [Next] button. If there are no devices in the list, click the [Next] button.
- * When installing [Standard] or [Entry], this window won't be displayed.



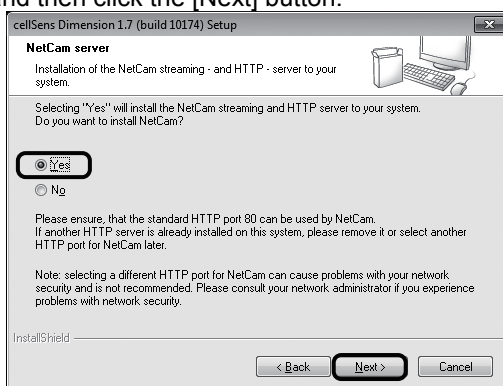
- 8) The [Database] window appears. Check [Install local database server] and then click the [Next] button.
- * If the [Database Option] is not purchased, it won't be displayed.



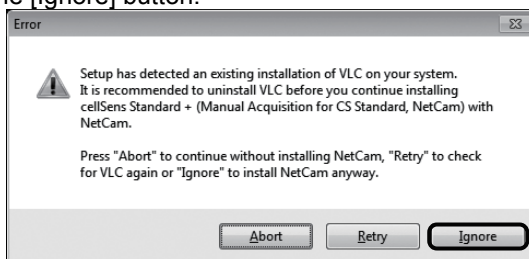
- 9) The [Configure SQLServer 2005 Express] window appears. Enter the system administrator password, and then click the [Next] button.
- * The password is consisted of 8 to 128 characters long and contains characters from 3 of 4 categories.
Latin uppercase letters (A-Z)
Latin lowercase letters (a-z)
Base 10 digits (0 through 9)
Non-alphanumeric characters: "!", "\$", "#", or "%".
 - * If the [Database Option] is not purchased, it won't be displayed.



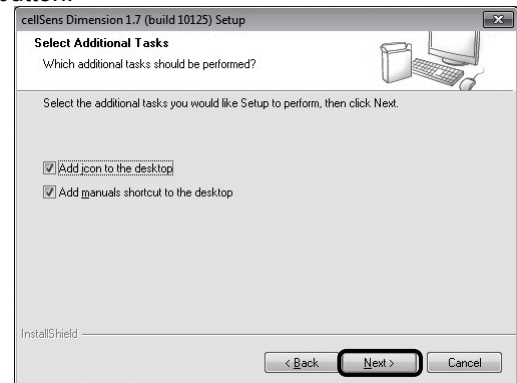
- 10)The [NetCam server] window appears. Check [Yes] and then click the [Next] button.



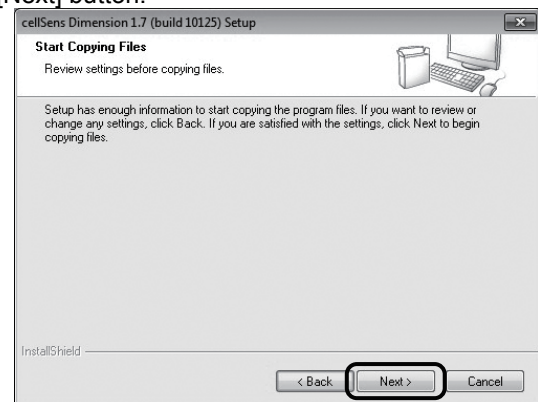
- 11)If the NetCam function has been installed in the PC, the window below may appear. In case of it, click the [Ignore] button.



- 12)The [Select Additional Tasks] window appears. Check the task to be used and click the [Next] button.

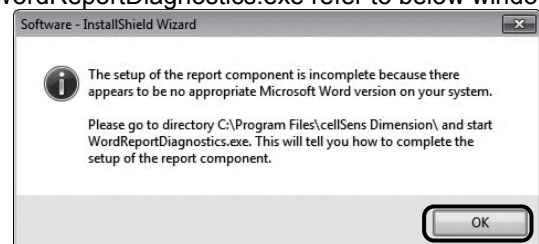


- 13)The [Start Copying Files] window appears. Click the [Next] button.

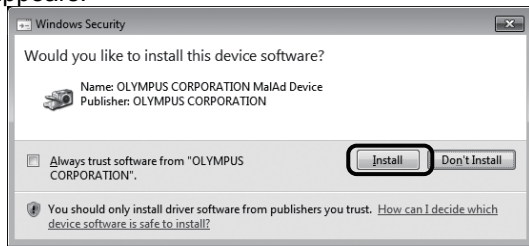


- 14)If the Microsoft Words has not been installed in the PC, the below window appears. To click the [OK] button commands the PC to restart to install cellSens. In this case, you cannot use the report function of cellSens.

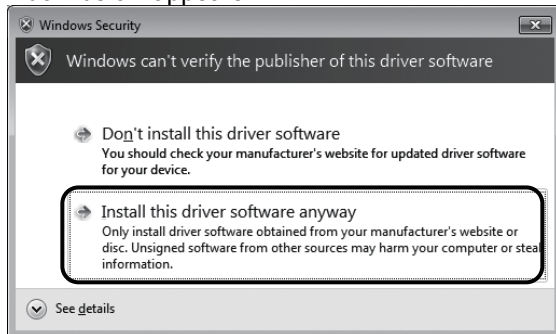
If you want to use this function, you need to install Microsoft Word (2003, 2007, or 2010). Be sure to install Microsoft Word (2003, 2007, or 2010) after completing in installing cellSens, and run the WordReportDiagnostics.exe refer to below window.



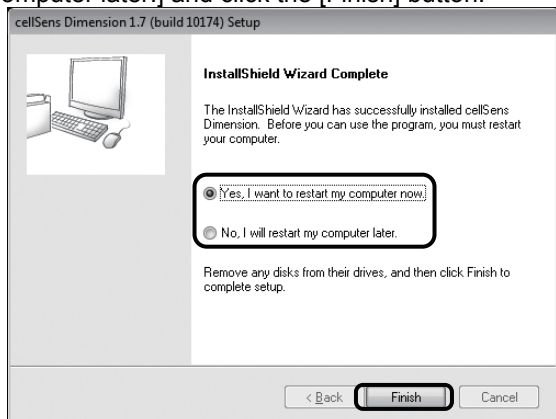
15) Click the [Install] button if the window below appears.



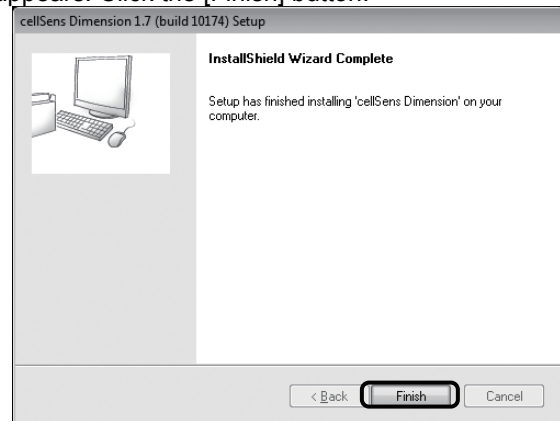
16) Click the [Install this driver software anyway] if the window below appears.



17) The window below appears. Tick [Yes, I want to restart my computer now.] or [No, I will restart my computer later.] and click the [Finish] button.



18) When the installation is complete, the window below appears. Click the [Finish] button.



2.4. Software deactivation

You must deactivate the software if you want to use the same cellSens software on a different PC (for example because the old PC will be disposed of) and you would like to continue using the software license. Deactivation of your software licenses is always done via the Olympus' central activation server, too. It is important that the software license receives the "deactivated" status on this server. Only then can this license be activated again on another PC.

Deactivate the software before you dispose of the PC, reformat the hard drive or remove it from service by any other means! Don't worry if the new PC is not yet available, because you can do the reactivation of the software at any later point in time.

Just like activation, also the way the deactivation is carried out depends on whether an Internet connection can be made or not, and from which PC. Regardless of the deactivation scenario used, basically always the same data is exchanged between the client PC and the activation server. These data do not contain any personal information. The same scenarios as with the activation apply:

1. Internet-based deactivation

If the PC on which the software will run has an Internet connection, the deactivation automatically takes place via Internet.

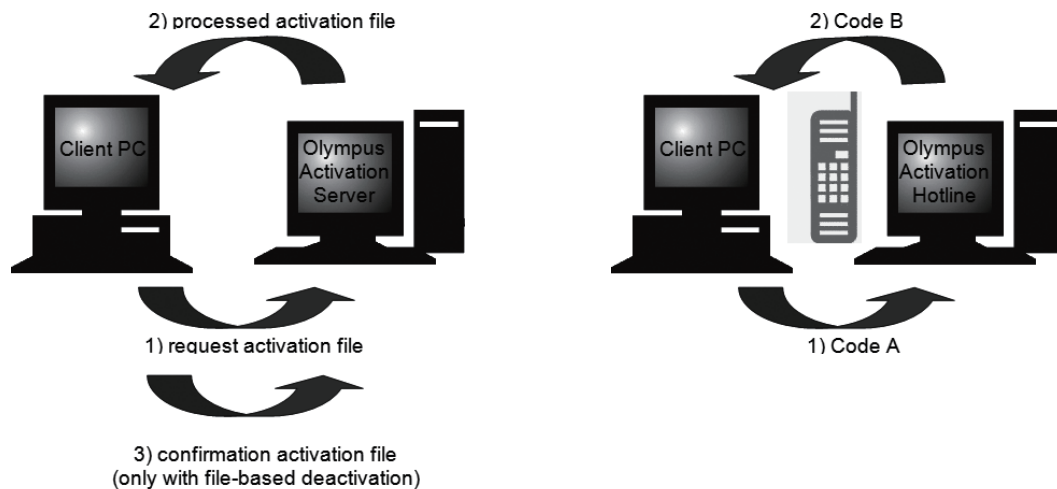
2. File-based deactivation

If the PC on which the software will run has no Internet connection, the deactivation takes place via another PC that has an Internet connection.

This deactivation scenario requires an additional step: One additional file must be uploaded onto the Olympus' central activation server: the confirmation file that contains the information that the deactivation was successful. This software license will only get the "deactivated" status on the activation server after you uploaded this additional file.

3. Code-based deactivation

If you activated the software via transferring and entering character codes (either by using your mobile device (for example, Smartphone) or by telephone via the Activation hotline), deactivation must be done code-based, too.



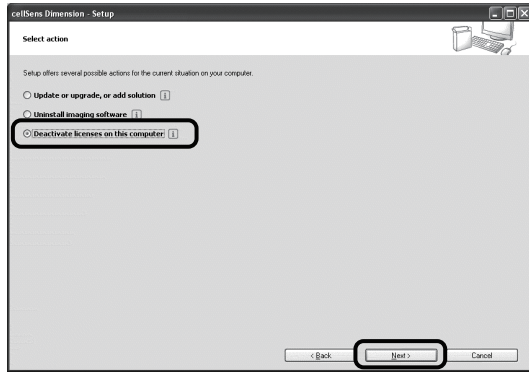
Basic data exchange during software deactivation

With the **first** deactivation scenario, the RAF file (request activation file) and the PAF file (processed activation file) are automatically exchanged between PC and the Olympus' central activation server via Internet.

With the **second** deactivation scenario, the same files are transferred. However, sending the files is done manually in this scenario via upload and download from the activation server. When the code-based deactivation is used, the client must save and upload another file at the end of the deactivation procedure, the CAF file (confirmation activation file).

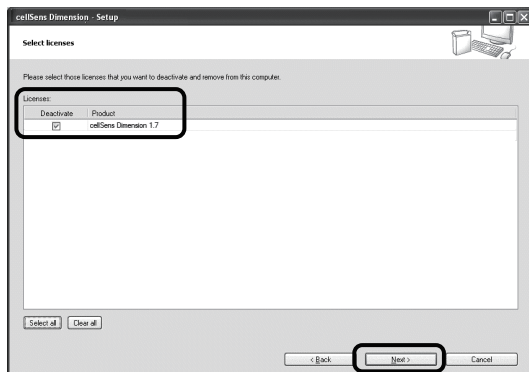
With the **third** deactivation scenario, character codes are exchanged, for example by telephone with the Activation hotline.

2.4.1. Internet-based deactivation

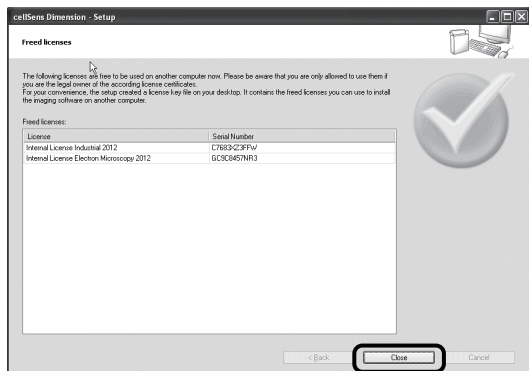


- 1) Insert the DVD-ROM with the software that you want to uninstall into the DVD-ROM drive.
- 2) In the Select action dialog box, select the Deactivate licenses on this computer option.
- 3) Click the Next > button.
- 4) In the Contact activation server dialog box, click the Contact Server button.

* The PC now contacts the activation server and tries to find the software license that you want to deactivate. This can take several seconds. Do not interrupt this process if possible!



- 5) The Select licenses dialog box is shown. Select the licenses that you want to deactivate.
- 6) Click the Next > button.



* When deactivation was successful, you will receive a message that your software license has been deactivated.

* Basically, the file-based and code-based deactivation is very similar to the procedure of the activation.

* If you perform the file-based deactivation, the confirmation file must be uploaded to the activation server after completing the deactivation. Please enter the following address and access the activation server.

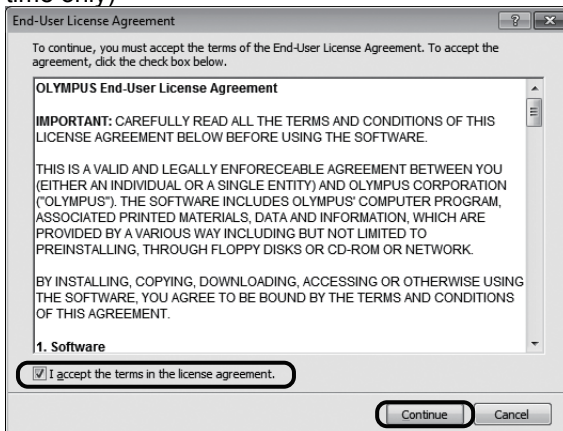
<http://www.olympus-sis.com/file-deactivation/>

* After completing deactivation, the License keys.lkf file will be created on the desktop. This file can be used when installing the software next time. You can load the license key by loading the License keys.lkf from [Browse (O)] in the Provide license keys dialog box

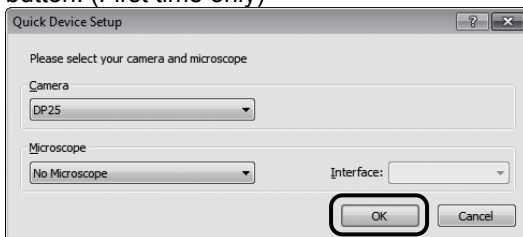
3. Starting the cellSens software

When cellSens starts up after installation and activation have been completed, you will only need to initialize the first time only. Please initialize according to the following procedures. The initialization will not be displayed after the initial startup. The contents defined during initialization can be changed after cellSens starts up.

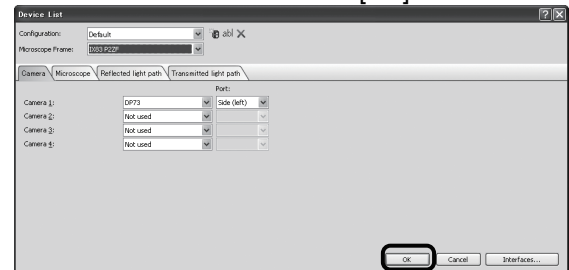
- 1) Connect the camera to be used with your PC.
- 2) Start cellSens.
- 3) If you agree with the [OLYMPUS End-User License Agreement], select [I accept the terms in the license agreement.] and click the [Continue] button. (First time only)



- 4) The [Quick Device Setup] dialog box will appear, select a camera to use from the [Camera] list. In a same manner, select the microscope or the control box in use from the [Microscope (M)] list, and select the serial port in use from [Interface]. Click [OK] button. (First time only)



- 5) When the [Device List] dialog box appears, select the devices used and click the [OK] button.




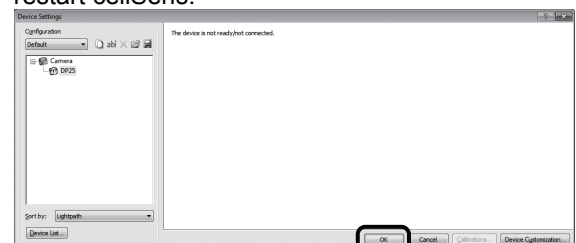
When you use DP73

There are 2 types.

- DP73
- DP73WDR (Correction for wide dynamic range)

Select the image device from the above alternatives. If the proper device is not selected, the correction process for the wide dynamic range of DP73WDR does not function.

* If devices are not correctly connected, the [Device Settings] dialog box will appear. If  is attached to the device icon, the device cannot be controlled. Click the [OK] button and close this dialog box. Check if the cables are correctly connected and verify if the driver is correctly working and then, restart cellSens.

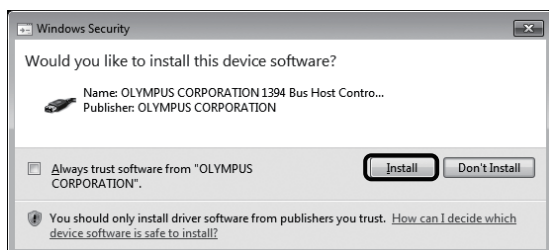
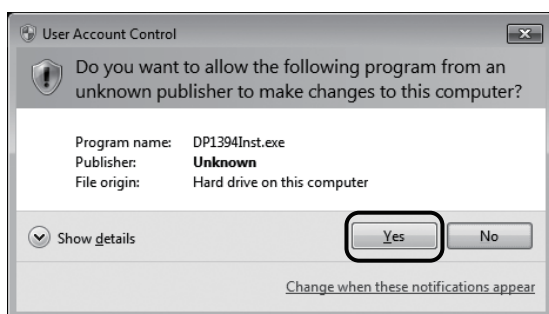


4. Setting the Microscope

Device driver

When the cellSens is used with the microscope (BX63 or IX83), it is necessary to change the IEEE1394 device driver to the OLYMPUS specific IEEE1394 device driver. Change the IEEE1394 device driver by the following procedure after the cellSens is installed.

The general IEEE1394 device driver can not be used after it is changed to the OLYMPUS specific IEEE1394 device driver. Refer to the P.24, if you use the general IEEE1394 device driver.



- 1) Insert the DVD-ROM into the DVD-ROM drive.
- 2) Run the file "DP2x_Installer.exe" in attached DVD.
 - Windows 32bit
DVD drive: \32bit\Support\Devices\Olympus\DP2x
 - Windows 64bit
DVD drive: \64bit\Support\Devices\Olympus\DP2x
- 3) When the [User Account Control] window appears, click [Yes].
- 4) When the [Windows Security] window appears, click [Install]. Now the change of device driver is completed.

Starting BX63

When operating the intelligent microscope (BX63) with cellSens, start BX63 according to the following procedures, and set the full operation mode to start cellSens. Please refer to Instruction Manuals of BX63 and BX3-CBH for connecting BX63 to PC.



Fig. 1

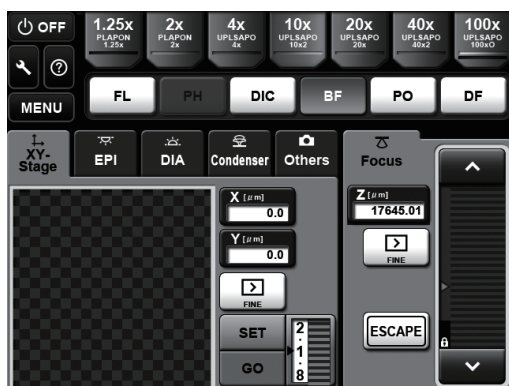


Fig. 2

- 1) Check whether each device .such as BX63, PC or digital camera for microscope is properly connected.
 - 2) Start Windows 7. (Log on with the Computer Administrator account.)
 - 3) If you are using the scanning stage with ultrasonic, set the main switch of its control box to “ I ” (ON).
 - 4) Set the main switch of the BX3-CBH control box to “ I ” (ON).
 - 5) Set the main switch on the rear panel of the touch panel controller to ON.
 - 6) When the [MENU] window (Fig.1) appears, tap the Full Operation button ①.
 - 7) When the full operation mode window (Fig.2) appears, start cellSens.
- * When starting BX63 for the first time or when changing units connected to the microscope, the system setting must be performed. For the system setting procedures, please refer to BX 63 Instruction Manual and Help in Touch Panel window.
- * If you have been using the BX63 microscope as a standalone microscope and you want to use it in combination with a PC, turn OFF all devices of the BX63 system and follow the procedure described above to restart the system.

Starting IX83

When operating the research inverted microscope (IX83) with cellSens, start IX83 according to the following procedures, and then start cellSens. Please refer to Instruction Manuals of IX83 and IX3-CBH for connecting IX83 to PC.

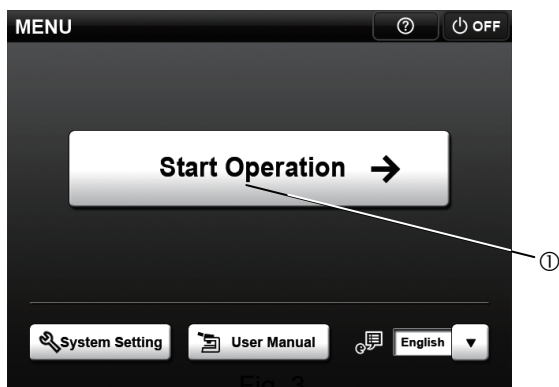


Fig. 3

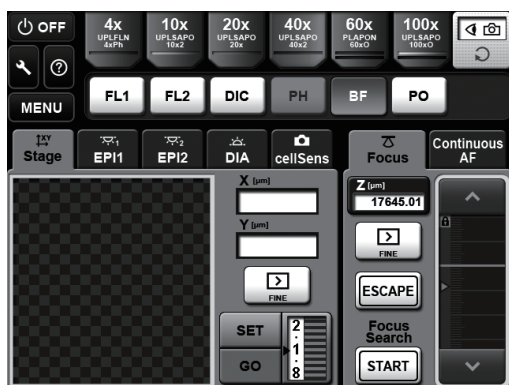


Fig. 4

- 1) Check whether each device .such as IX83, PC or digital camera for microscope is properly connected.
- 2) Start Windows 7. (Log on with the Computer Administrator account.)
- 3) If you are using the scanning stage with ultrasonic, set the main switch of its control box for scanning stage with ultrasonic to “ I ” (ON).
- 4) If you are using the control box for fast filter wheel and shutter, set the main switch of its control box for fast filter wheel and shutter to “ I ” (ON).
- 5) Set the main switch of the IX3-CBH control box to “ I ” (ON).
- 6) Set the main switch on the rear panel of the touch panel controller to ON.
- 7) Start cellSens.

* Be sure to start cellSens while the menu window (Fig.3) is displayed on Touch Panel Controller or while the operation window (Fig.4) is displayed by tapping the [Start Operation] button② on the menu window.

* If you start IX83 for the first time or if you change the unit connected to the microscope, you need to perform the system setting. The system setting can be performed either by Touch Panel Controller or cellSens. For setting procedures, refer to IX83 Instruction Manual, Help of Touch Panel Controller or Help of cellSens.

* If you have been using the IX83 microscope as a standalone microscope and you want to use it in combination with a PC, turn OFF all devices of the IX83 system and follow the procedure described above to restart the system.

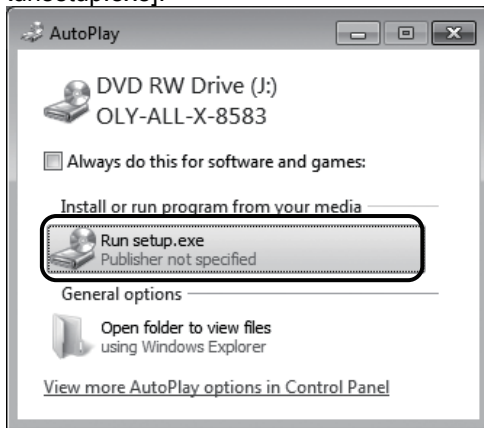
* If the continuous focus mode is in process on the operation window of touch panel controller, be sure to close the continuous focus mode before starting cellSens.

5. Uninstalling cellSens

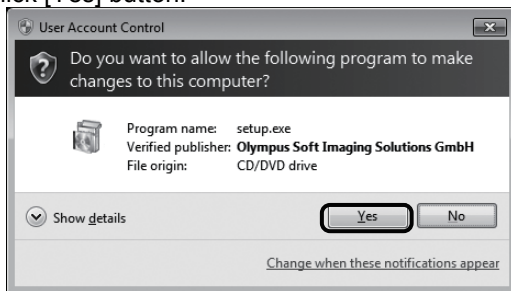
5.1. Uninstalling software

This section describes the uninstallation procedures.

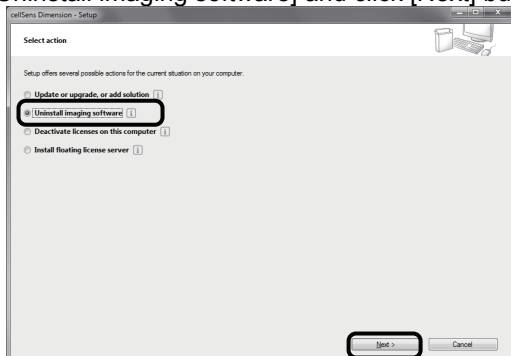
- 1) Start Windows 7. (Log on with the Computer Administrator account.)
- 2) Insert the DVD-ROM into the DVD-ROM drive.
- 3) When the [AutoPlay] window appears, click on [Runsetup.exe].



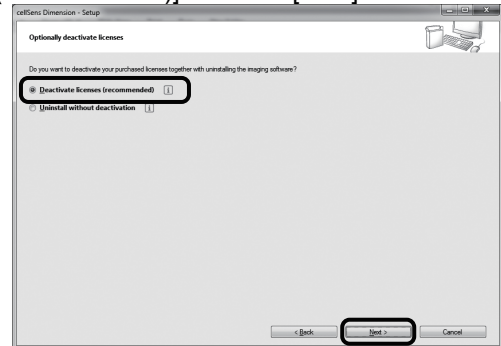
- 4) When the [User Account Control] window appears, click [Yes] button.



- 5) When the [Select action] window appears, check [Uninstall imaging software] and click [Next] button.

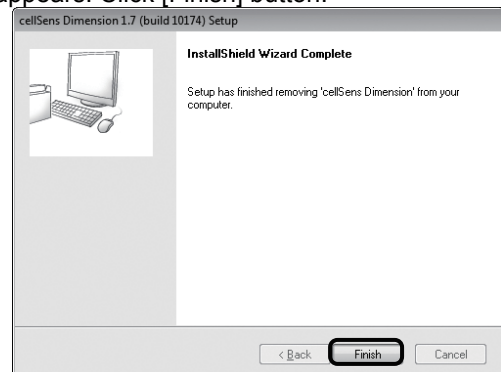


- 6) When the [Optionally deactivate licenses] window appears, check [Deactivate licenses (recommended)] and click [Next] button.



- * The uninstallation can be performed without deactivating the license, but please note that the activation cannot be performed if cellSens is installed on other PCs.

- 7) Perform the deactivation. Refer to 2.4 Software deactivation (P.17) for detail procedures.
- 8) The uninstallation starts after completing the deactivation.
- 9) When the activation is complete, the window below appears. Click [Finish] button.



5.2. Cautions for uninstallation

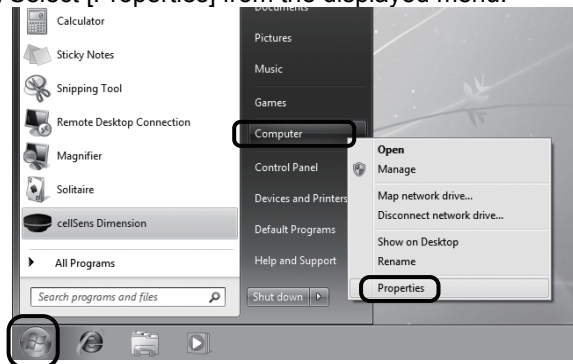
When installing cellSens, if DP26, etc. is specified as the device to use, the 1394 driver will be changed to the exclusive driver for OLYMPUS. However, when cellSens is uninstalled, the 1394 driver will not be uninstalled. Therefore, general IEEE1394 device cannot be used. If you want to use general IEEE1394 device than DP26, etc. update the driver software according to the following procedures.

The driver software can be updated even if cellSens has not been uninstalled. As general IEEE1394 device is used, it is also possible to change only 1394 driver temporarily and update to the exclusive driver for OLYMPUS again without uninstalling cellSens.

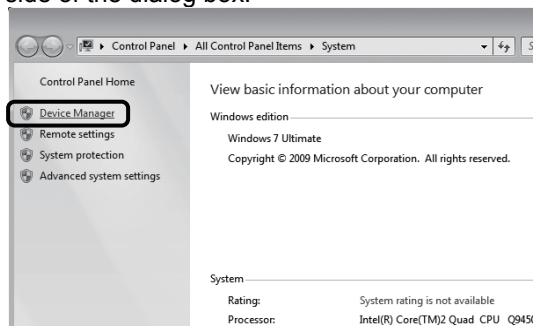
This section describes the installation procedures using Windows 7. If using Windows Vista or XP, the operating methods are more or less the same.

Installation of general 1394 driver

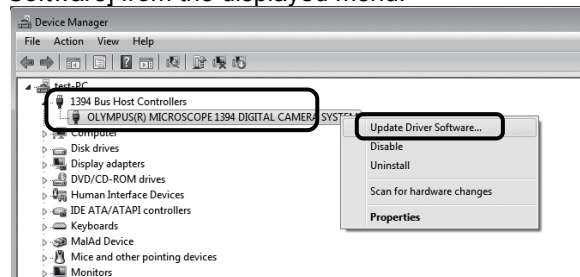
- 1) Open the [start] menu.
- 2) Right-click [Computer] in the start menu.
- 3) Select [Properties] from the displayed menu.



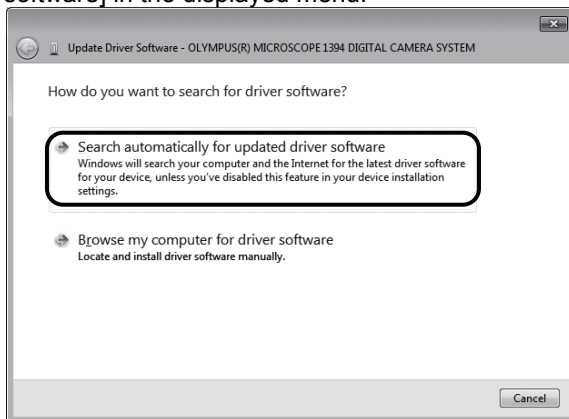
- 4) Click [Device Manager] located at the upper left side of the dialog box.



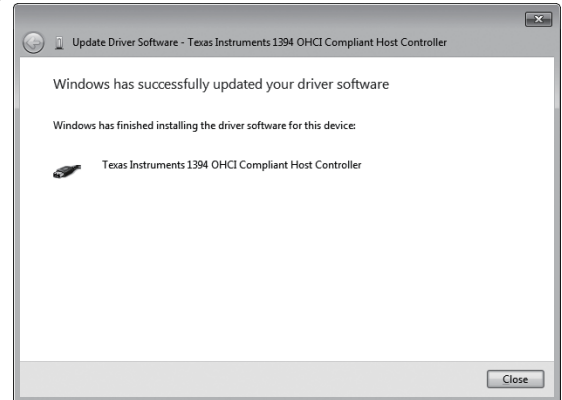
- 5) Right-click [OLYMPUS(R) MICROSCOPE 1394 DIGITAL CAMERA SYSTEM] under [1394 Bus Host Controllers], and click [Update Driver Software] from the displayed menu.



- 6) Click [Search automatically for updated driver software] in the displayed menu.

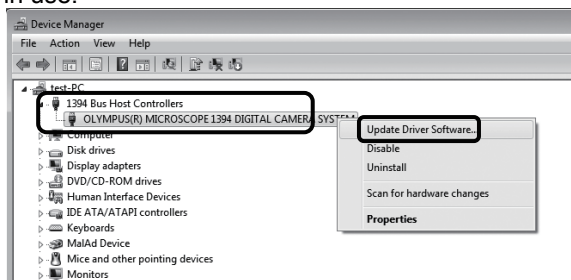


- 7) General driver is installed.

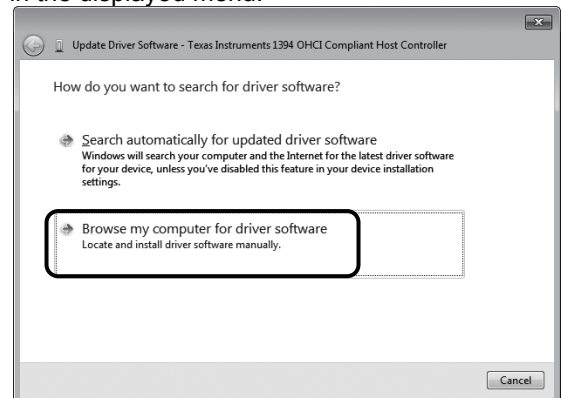


Installation of 1394 device driver for OLYMPUS

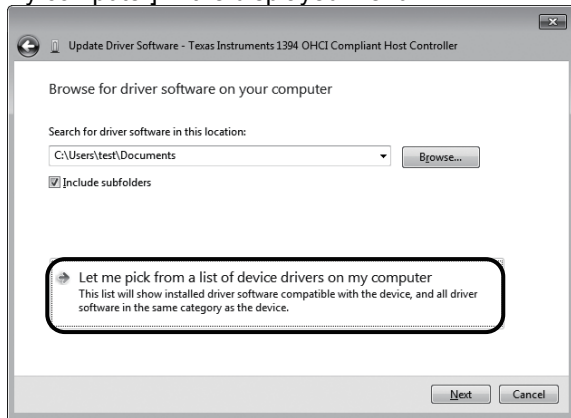
- 1) Open the device manger according to the same procedures described in 1)-4) above.
- 2) Right-click the device positioned under [1394 bus host controller], and click [Update the driver software]. The device name depends on the PC in use.



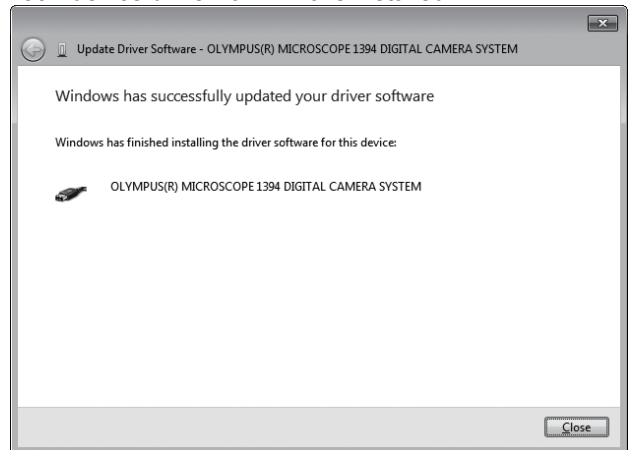
- 3) Click [Browse my computer for driver software] in the displayed menu.



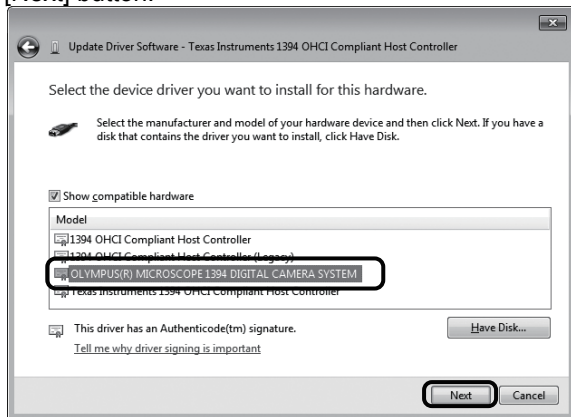
4) Click [Let me pick from a list of device drivers on my computer] in the displayed menu.



6) 1394 device driver for DP26 is installed.



5) Select [OLYMPUS(R) MICROSCOPE 1394 DIGITAL CAMERA SYSTEM], and click the [Next] button.



6. Others

Update of software (Only using DP2-BSW)

In order to install cellSens to a PC where DP2-BSW has been installed, an update installation process will be performed. The shortcut name will not be updated by performing the update, but it is possible to startup the software as the destination to be linked has been modified.

Documents

The maximum number of documents (acquired images, etc.) which can be opened by cellSens at a time is up to 150.



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