

CliniView 5.1

Installation Manual



Copyright

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1 Introduction

1.1 General

CliniView is software for dental digital X-ray image processing and acquisition. CliniView image acquisition supports Instrumentarium Imaging's Orthopantomograph® and Orthoceph® digital units and Sigma intraoral system. CliniView stores images and patient information in a database and provides tools for database archiving.

This manual covers the installation and managing of CliniView software. The user manual covers how to use the CliniView software. Refer to your equipment manuals before installing or using the equipment. See your additional Windows manuals for further information about the Windows environment.

When the software is properly installed, you can perform the following operations, assuming that all the other equipment is ready for use:

- Create new patient and store patient information in a database.
- Capture and store digital X-ray images with exposure values from the device.
- Export and import digital images. You can also import images from digital sources not developed by Instrumentarium Imaging.
- Process images to enhance their diagnostic value with dental specific tools.
- Analyse the image with application specific measurement tools.
- Build an environment with multiple workstations using a database shared over a network.

CliniView works with, Windows® 2000, and Windows® XP, Windows® 98 SE operating systems. However, not all program features will function with certain operating systems. Refer to the table of suitable combinations in section 1.6 for more information. In order to take full advantage of the diagnostic software, you have to be familiar with the functionality of the operating system. CliniView allows you to import and export image files. Supported file formats are D32, JPG, TIF, BMP and PNG. D32 is Instrumentarium Imaging's own file format. Images can be saved in the database in PNG formats. Images can be exported either as you see them on the window or as the entire original image.

CliniView can be used in a network environment. If CliniView is installed in several computers, the patient and image databases can be shared and used from different workstations.

Instrumentarium Imaging strongly recommends that you read this manual before installing and using this software.

1.2 Manufacturer's liability

As a manufacturer, we can only assume liability for safe and reliable operation of this software when the CliniView PC software is installed and used according to the CliniView Installation and User Manuals.



NOTE

For PC systems: Instrumentarium Imaging can guarantee OP100 D PCI board and CliniView compatibility with other PC hardware and software only if that configuration has been tested by Instrumentarium Imaging. Any later changes to hardware and software may void this test.

1.3 Symbols and abbreviations

The following symbols may be used in this manual:



NOTE

Contains useful information for the reader about the unit and its use.



CAUTION

Contains important instructions. If these instructions are not observed, the unit may malfunction or the unit or other property may be damaged.



WARNING

Contains warnings and instructions about the safety of the unit. If these warnings are not observed, the patient and operator may be exposed to serious risks and/or injury.

The following abbreviations may be used in this manual.

PC	Personal computer
HD	Hard disk
Hz	Hertz; cycles per second
MHz	Megahertz, millions of cycles per second
CPU	Central processing unit (computer)
RAM	Random access memory
MB	Megabytes
GB	Gigabytes
CD-R	Compact disc (recordable)

CCD	Charge-coupled device
CD-RW	Compact disc (re-writable)
DVD-RW	Digital Versatile Disc (re-writable)
PCI	Peripheral Component Interconnect
DAT	Digital audio tape
MOD	Magneto optical drive
USB	Universal Serial Bus
HDD	High density drive

1.4 System requirements

OP100 D/OC100 D image acquisition	
Minimum system requirements	
Processor	Pentium ® 500 MHz
Hard disk	10 GB
CD-ROM	Yes
Keyboard	Yes
Mouse	Yes
Operating system	Windows® 2000, XP See Microsoft Windows® 2000 System Requirements for further information.
Memory (RAM)	256 MB
Color monitor	minimum 15" 1024x768 high color 16 bit, recommended 17" 1280x1024 True color 32 bit.
OP100 D board connection	PCI slot
Backup	Tape drive, DLT or DAT
Archive	CD-R, DVD-RW, MOD
Other software	We recommend anti-virus software be used for continuous file protection.

SIGMA IMAGE ACQUISITION	
Minimum system requirements	
Processor	Pentium® 300 MHz
Hard disk	10 GB
CD-ROM	Yes
Keyboard	Yes
Mouse	Yes
USB port	Yes
Accessories	Audiocard and speakers optional
Operating system	Windows® 98 SE (Windows® Me is not recommended) Windows® 2000 Windows® XP See Microsoft Windows System Requirements for further information.
Memory (RAM)	(Windows® 98 SE: 256 MB) Windows® 2000 and XP: 256 MB (Windows® Me: 256 MB)
Color monitor	minimum 15" 1024x768 16 bit, recommended 17" 1028x1024 True color 32 bit.
Archive	CD-R, DVD-RW, MOD
Backup	Tape drive, DLT, DAT
Other software	We recommend anti-virus software be used for continuous file protection.

**NOTE**

If the audio card is installed, speakers are needed to hear the signal.

IMAGE VIEWING	
Minimum system requirements	
Processor:	Pentium® 300 MHz
Hard disk	6.4GB HDD
CD-ROM	Yes

Keyboard	Yes
Mouse	Yes
Operating system	Windows® (95/98 SE/(NT)) (Me is not recommended) Windows® 2000 and XP
Memory (RAM)	(Windows® 98 SE: 256 MB) Windows® 2000 and XP: 256 MB (Windows® Me: 256 MB)
Color monitor	minimum 15" 1024x768 16 bit, recommended 17" 1028x1024 True color 32 bit.
Other software	We recommend anti-virus software be used for continuous file protection.

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For safe and reliable system performance, you need to arrange an appropriate back up procedure; meaning that you regularly back up the system and store the marked back up media in a safe place.

1.5 CliniView specifications

APPLICATION SOFTWARE:	
PRODUCT NAME	CliniView
Applications	OP100 D/OC100 D/Sigma digital image acquisition Image enhancement Image import and export
Patient database	MSDE (Can be used in a network environment)
Image storage	Local or network
Password security	Yes
Image appearance	Instantly on monitor

Imaging procedures: (Panoramic)	P0 = Quality Assurance: Test system for digital image acquisition check. P1 = Standard panoramic exposure P2 = Pediatric panoramic exposure P3 = Ortho Zone panoramic exposure or Wide layer panoramic exposure (optional) P4 = Orthogonal panoramic exposure P5 = Maxillary sinus P8 = TMJ, lateral projection or Ortho TMJ axial corrected lateral projection (optional) P9 = TMJ, PA projection
Imaging procedures: (Cephalometric)	P6 = Lateral view P7 = PA/AP view
Imaging procedures (intraoral):	Series Mount exposure Single exposure
Image processing	Brightness & Contrast Zoom Move Noise Reduction Edge enhancement Embossment Optimize contrast (low, medium, high) Gamma correction adjustments Invert Mirror Rotate Equalized histogram, logarithmic histogram, linear histogram
Overlay graphics	Text, Line, Free hand, Angle, Rectangle, Circle, Arrow, Drag or Erase graphics, Save graphics
Measurements	Length Length & Calibration Angle Free Angle
Image dynamics/grayscale	12-bit/4096 (capture) 16-bit/64k (process & handling) 8-bit/256 (display)
Image storage mode	16-bit enhanced
File formats	PNG, (see the File Formats section)
File compression	PNG (lossless)

Typical file size	Panoramic About 2-4 MB (PNG 16 bits)
	Intraoral 0.4 – 1.6 MB (PNG 16 bits)
	Cephalometric 3-5 MB (PNG 16 bits)
Import/Export file formats	BMP, D32, PNG, JPG, TIF, DICOM, TWAIN import, JPG2000

1.6 Difference between CliniView versions

The different CliniView releases have different requirements. The first CliniView releases (1.x) supported only OP100 D, releases from 2.10 also supported Sigma. The latest releases from 3.0 support cephalostat image capturing and viewing as well as the other modes.

The table below indicates if image capturing or image viewing only is possible when using either OP/OC100 D or Sigma units.

X = Available

(X) = Not recommended

	WIN NT		WIN 98		WIN 2000		WIN Me		WIN XP	
	View	Capture	View	Capture	View	Capture	View	Capture	View	Capture
OP100 D										
R1.0	X	X	X		X					
R1.10	X	X	X		X					
R1.11	X	X	X		X					
R1.12	X	X	X		X					
R2.0	(X)		X		X					
R2.10	(X)		X		X	X				
R2.11	(X)		X		X	X				
R2.12	(X)		X		X	X				
R3.0	(X)		X		X	X				
R3.10	(X)		X		X	X				
R3.20	(X)		X		X	X	X		X	X
R 4.0	(X)		X		X	X	X		X	X
R 4.1	(X)		X		X	X	X		X	X
R 5.0	(X)				X	X			X	X
R 5.1	(X)		X		X	X			X	X
OC100 D										
R3.0	(X)		X		X	X				
R3.10	(X)		X		X	X				
R3.20	(X)		X		X	X	X		X	X
R 4.0	(X)		X		X	X	X		X	X
R 4.1	(X)		X		X	X	X		X	X
R 5.0	(X)				X	X			X	X
R 5.1	(X)		X		X	X			X	X
Sigma										
R2.0	(X)		X	X	X	X				
R2.10	(X)		X	X	X	X				
R2.11	(X)		X	X	X	X				
R2.12	(X)		X	X	X	X				
R3.0	(X)		X	X	X	X				
R3.10	(X)		X	X	X	X	X	X		
R3.20	(X)		X	X	X	X	X	X	X	X
R4.0	(X)		X	X	X	X	X	X	X	X

	WIN NT		WIN 98		WIN 2000		WIN Me		WIN XP	
	View	Capture	View	Capture	View	Capture	View	Capture	View	Capture
R 4.1	(X)		X	X	X	X	X	X	X	X
R 5.0	(X)				X	X			X	X
R 5.1	(X)		X*	X*	X	X			X	X

* Windows[®] 98 SE.

2 Driver installation

Before installing CliniView, the following conditions must be met:

- The required operating system must be installed. Refer to section 1.6
- Network settings specified
- Workstation is compliant with all hardware specifications
- PCI board is installed, if needed
- The user has administration rights to install CliniView
- Required installation media accessible: CliniView Installation CD, Gainfile CDs (only with image capturing option)



WARNING

You are responsible for patient data security and privacy. Configure your network with sufficient access rights and privileges.

It is recommended that drivers will be installed in the following order:

Install the PCI board driver according to the section 2.1.1. After completing the PCI board installation, connect the Sigma USB cable and install the Sigma USB driver.

2.1 OP100 D/OC100 D Units



NOTE

Before installing CliniView for panoramic image acquisition, the OP100 D PCI board must be installed. Refer to the instructions in the OP100 D Installation and Adjustments Manual.

When the PC is switched on for the first time after PCI board installation, Windows 2000 and Windows XP recognize the hardware changes and launch a wizard. Follow the instructions on the screen to install the PCI driver



NOTE

The screenshots are from Windows 2000

Windows recognizes the hardware changes.



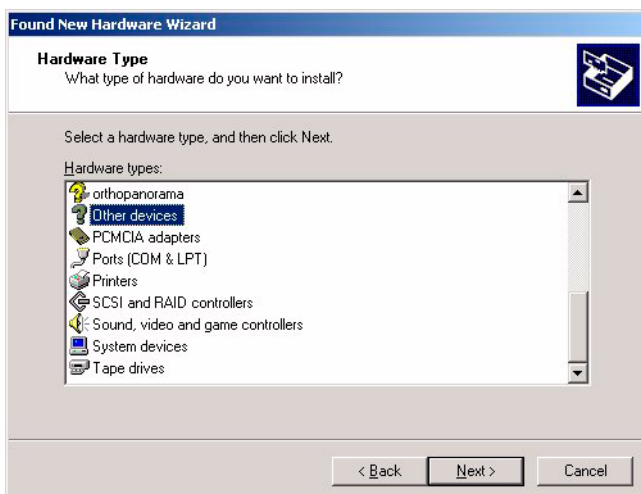
The wizard is launched. Click **Next**.



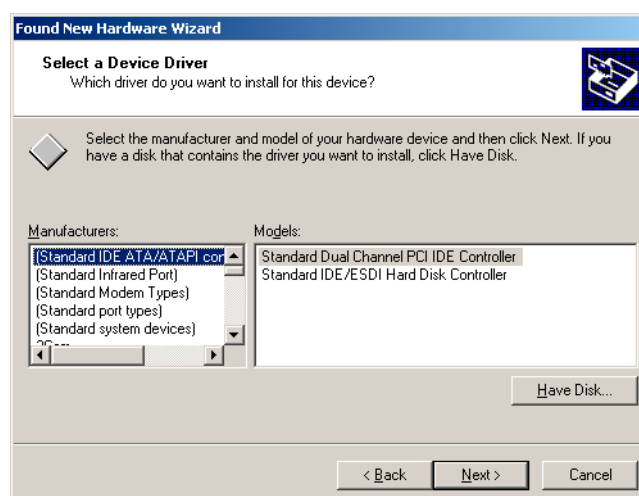
Select *Display a list...* Click **Next**.



Select *Other devices* and click **Next**.



Click **Have Disk...**



Click **Browse**.



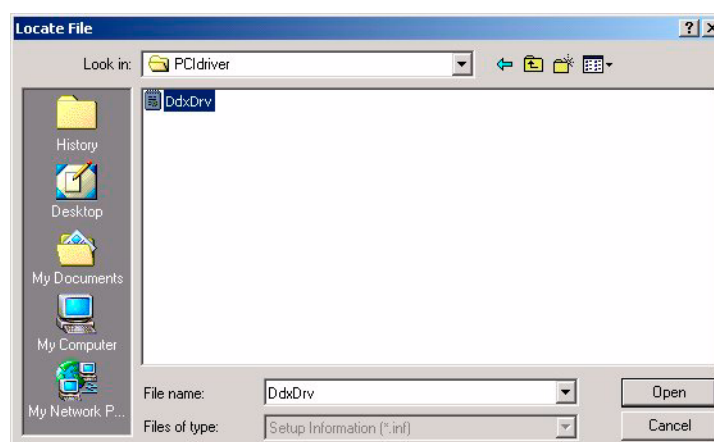
Insert the CliniView installation CD in the CD drive and browse to the CliniView installation media path and to the PCI driver folder (CD Drive:\Drivers\PCIDrv).



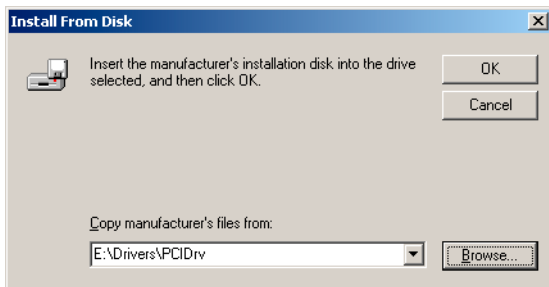
CAUTION

The CliniView installation program may start after the CD is inserted if the autorun function is allowed. If it does, click **Cancel**.

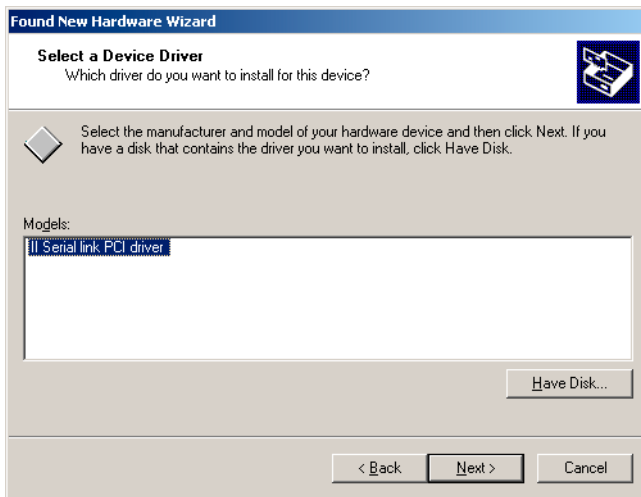
Select the DdxDrv.inf file and click **Open**.



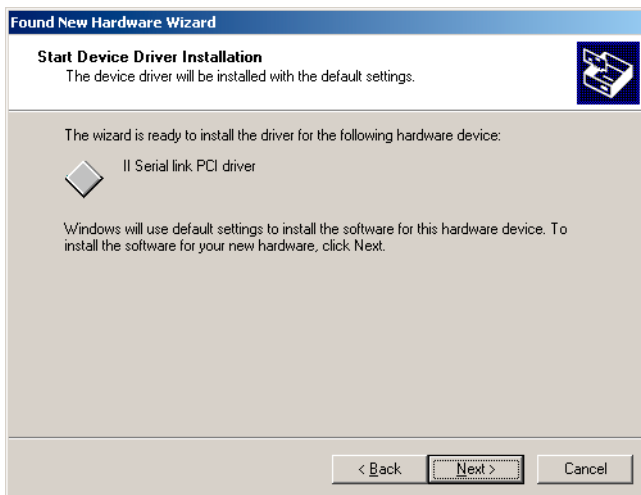
Click **OK**.



Click **II Serial link PCI Driver** and click **Next**.



Click **Next**.



Select **Finish**.

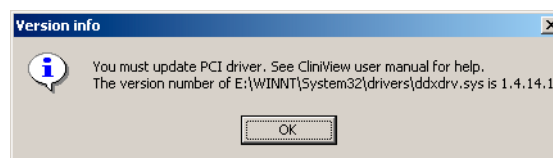


The PCI driver is now installed. Proceed to software installation.

If the driver installation fails, proceed to the “Uninstalling the driver” chapter.

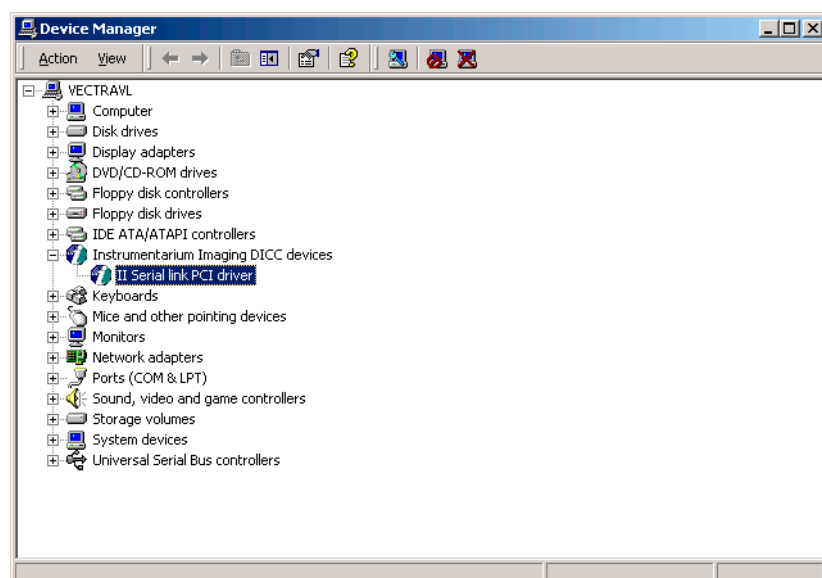
2.1.1 PCI driver upgrade

In some cases the CliniView installation program may recommend that the PCI driver be upgraded. The following dialog is displayed.

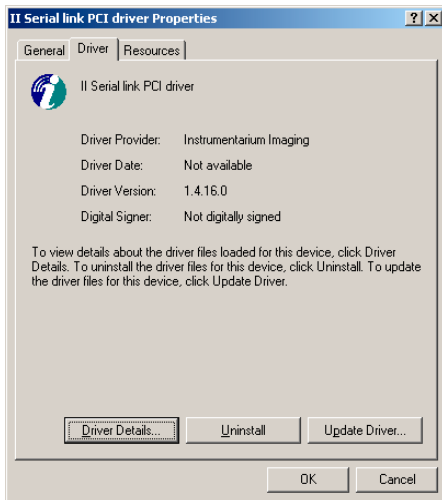


The procedure for upgrading the driver is as follows:

Click **Start/Settings/Control Panel/System**. Select the Hardware tab and click **Device Manager**. In Device Manager, double click **II Serial link PCI Driver**. When upgrading from the 2.x release, the text is **OP100D Device**.



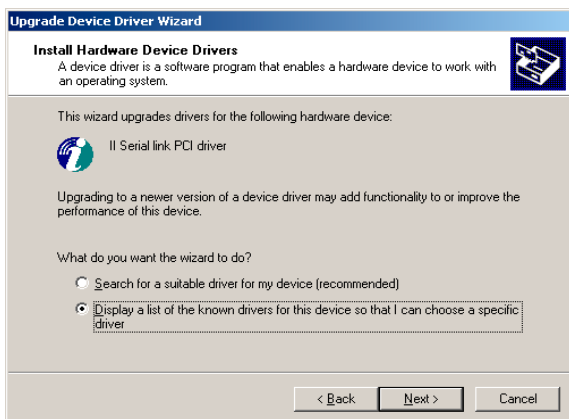
Click **Update Driver**. If the driver version is 1.4.16.0, there is no need to update the driver. In that case, choose **Cancel**.



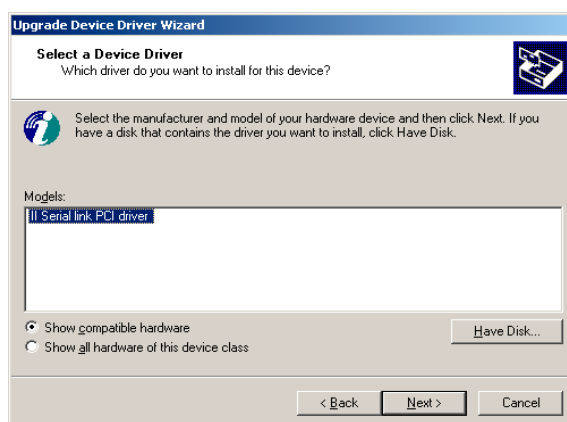
Click **Next**.



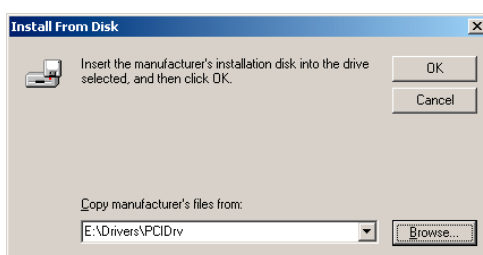
Select **Display a list...** and click **Next**.



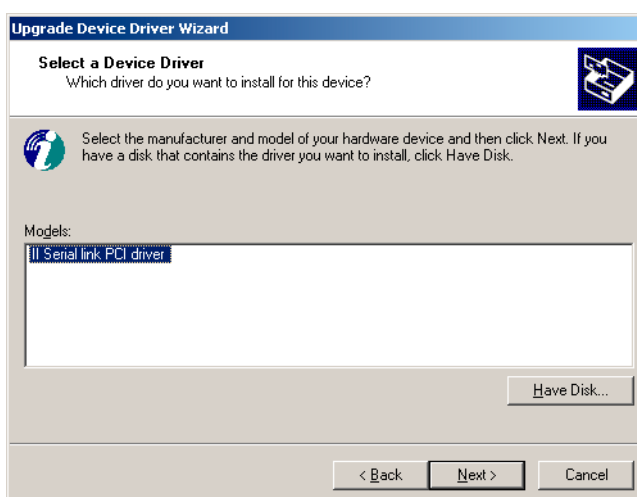
Click **Have Disk**.



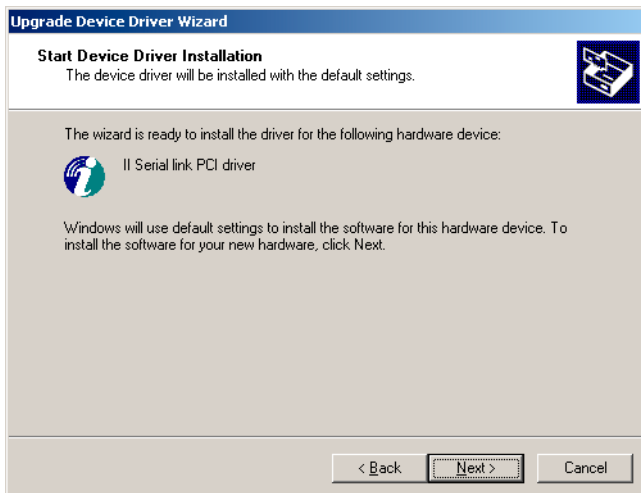
Browse the path to the PCI driver.



Select **II Serial link PCI driver** and click **Next**.



Click **Next**.



The driver is now upgraded. Click **Finish**.



2.2 Sigma unit

2.2.1 Sigma Unit with Windows[®] 2000 and Windows[®] XP

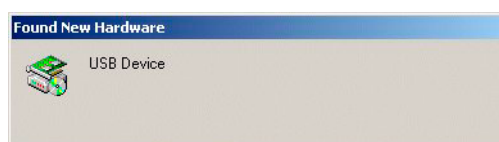


NOTE

Before installing CliniView for intraoral image acquisition, the Sigma electronics must be installed. Refer to the instructions in the Sigma System Installation and User Manual.

After you connect the Sigma electronics to the PC, Windows 2000 or XP recognizes the hardware changes and launches a wizard. Follow the instructions on the screen to install the Sigma USB driver.

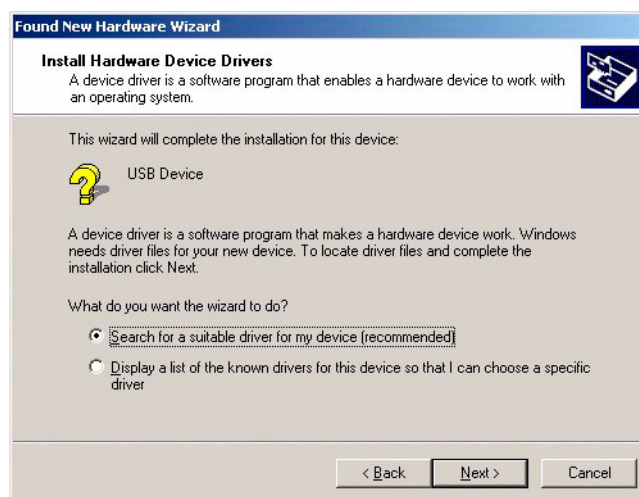
Windows recognizes the hardware changes.



The wizard is launched. Click **Next**.



Select *Search for a...* and click **Next**.



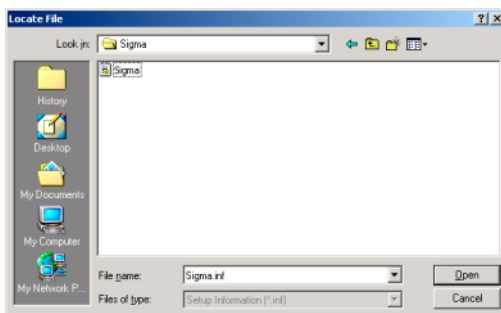
Select *CD-ROM drives* and *Specify a location* and make sure that *Floppy disk drives* is **not** selected. Click **Next**.



Insert the CliniView installation CD in a CD drive and click **Browse**.



Specify the location of the Sigma.inf file on the CD by clicking **Browse** and selecting the right location. Click **OK**.



Click **Next**.



The Sigma USB driver is now installed. Click **Finish** and proceed to section 2.3.



2.2.2 Sigma unit with Windows® 98 SE



NOTE

Before installing CliniView for intraoral image acquisition, the Sigma electronics must be installed. Refer to the instructions in the Sigma System Installation and User Manual.

After you connect the Sigma electronics to the PC, Windows 98 recognizes the hardware changes and launches a wizard. Follow the instructions on the screen to install the Sigma USB driver.

The wizard is launched. Click **Next**.



Select **Search for the...** and click **Next**.



Insert the CliniView installation CD in the CD drive. Select **Specify a location** and click **Browse**. Locate the Sigma.inf file on the CD and click **OK**. Click **Next**.



Click **Next**.

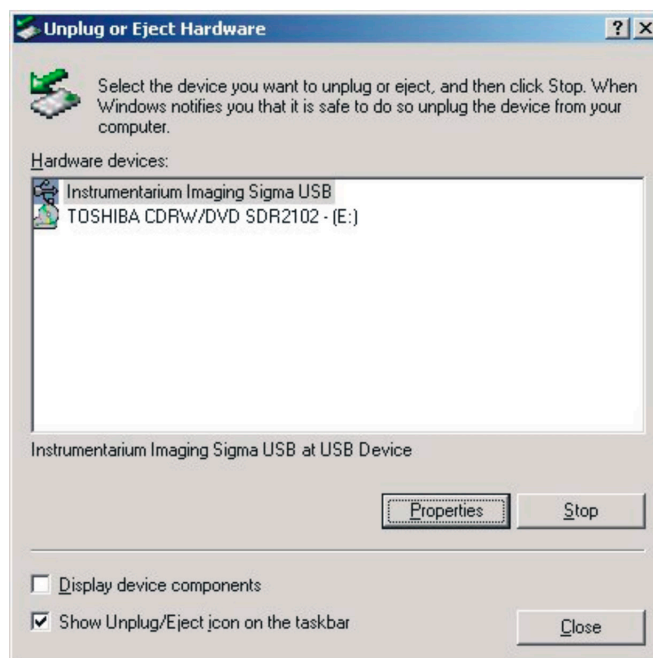


The Sigma USB driver is now installed. Click **Finish**.

2.2.3 Sigma driver upgrade



Double-click on “Unplug or Eject Hardware” icon in the lower right corner of the screen.

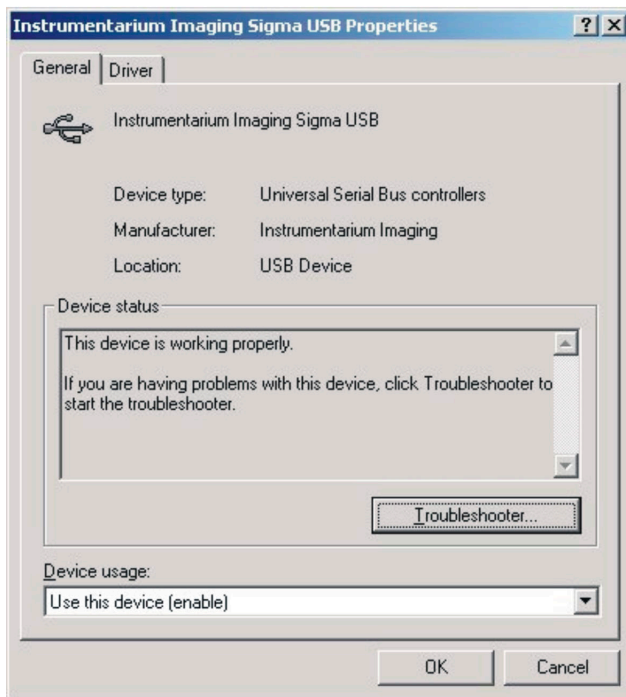


Select “Instrumentarium Imaging Sigma USB” and click **Properties**.

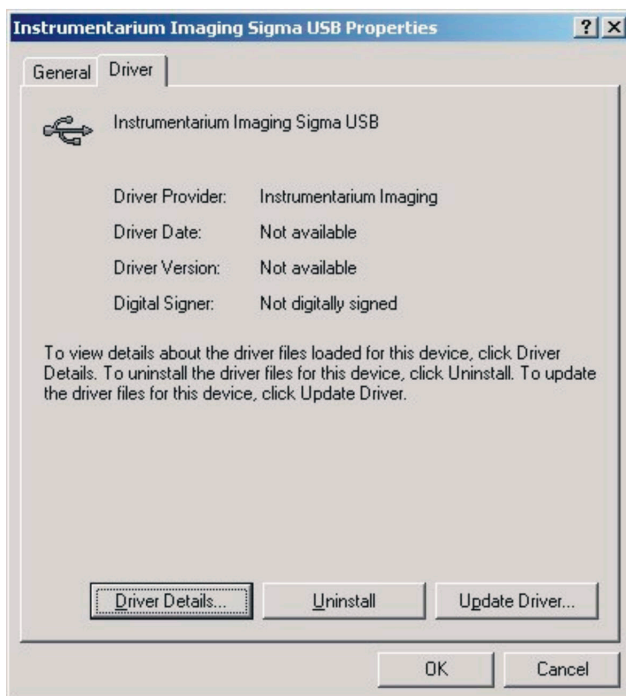


NOTE

In a failure situation there might be “USB Device” in place of “Instrumentarium Imaging Sigma USB” on the list. In that case proceed as described in the paragraph *The upgrade procedure in failure situation*.



Click *Driver* sheet.



Click **Update driver**. A wizard is launched.

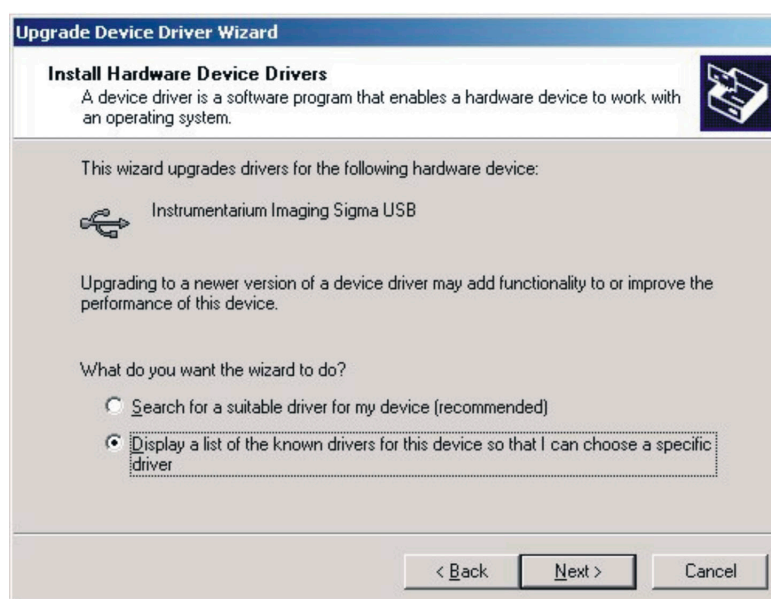


NOTE

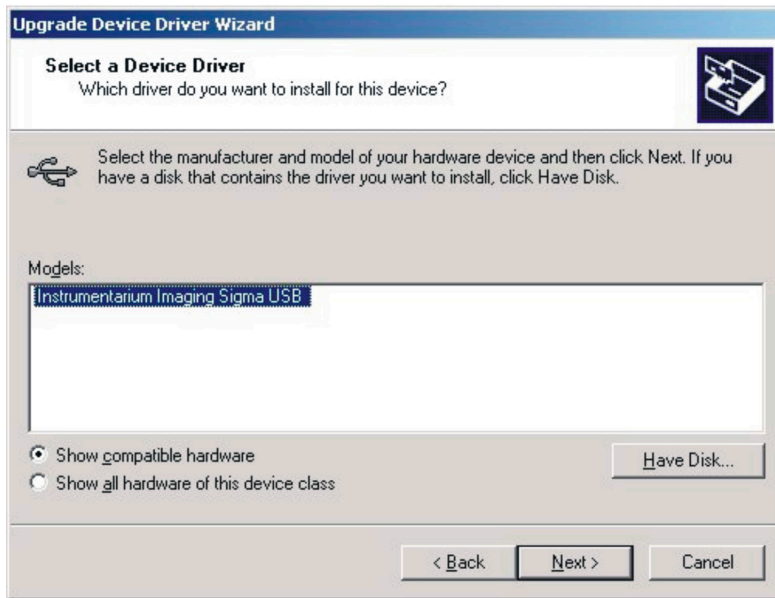
A text in buttons may vary. You can click also Install Driver or Reinstall Driver.



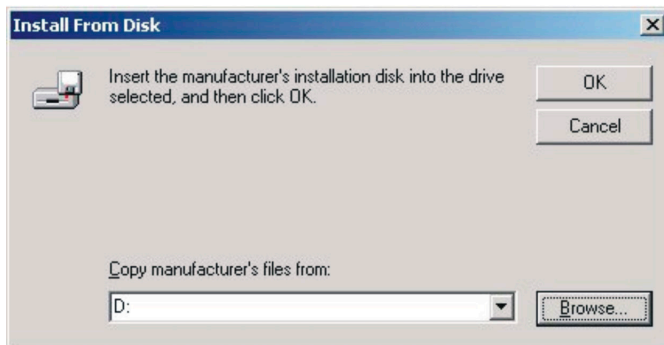
Click **Next**.



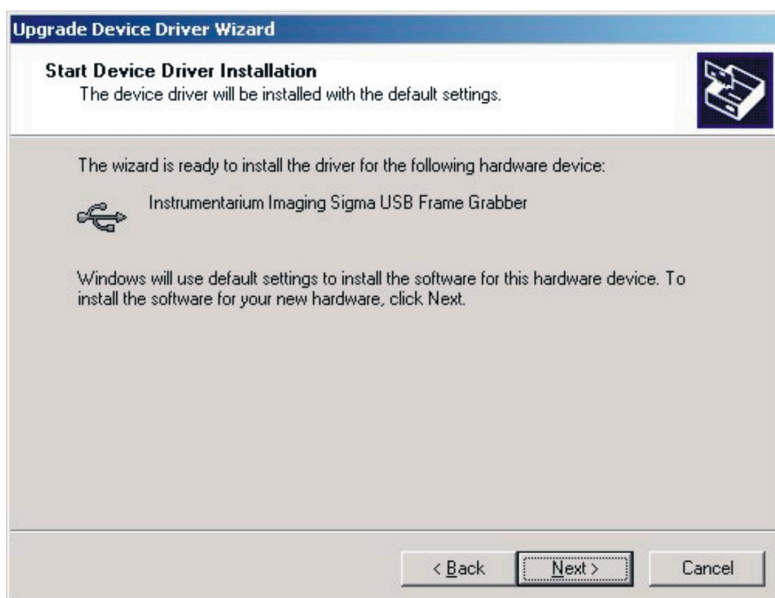
Select *Display a list...* and click **Next**.



Click **Have Disk**.



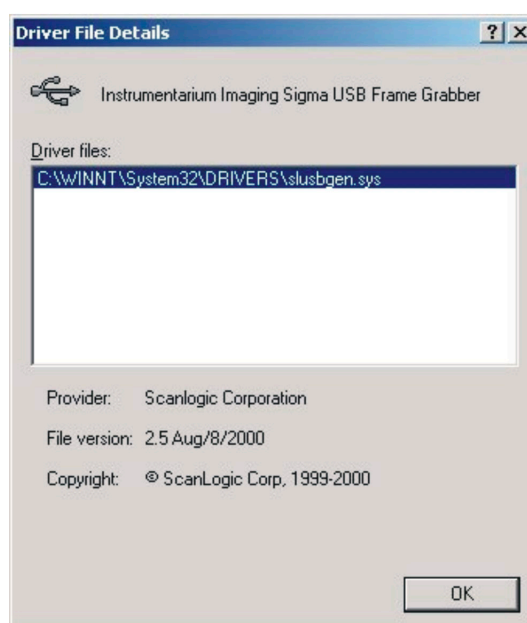
Browse the path of the Sigma.inf file. Click **OK** and then **Next**.



Click **Next**.



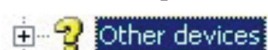
The driver upgrade is now finished. to assure that the upgrade is complete click **Driver details** on *Driver sheet*.



The version of the current driver file is “2.5 Aug/8/2000”.

2.2.3.1 The upgrade procedure in a failure situation:

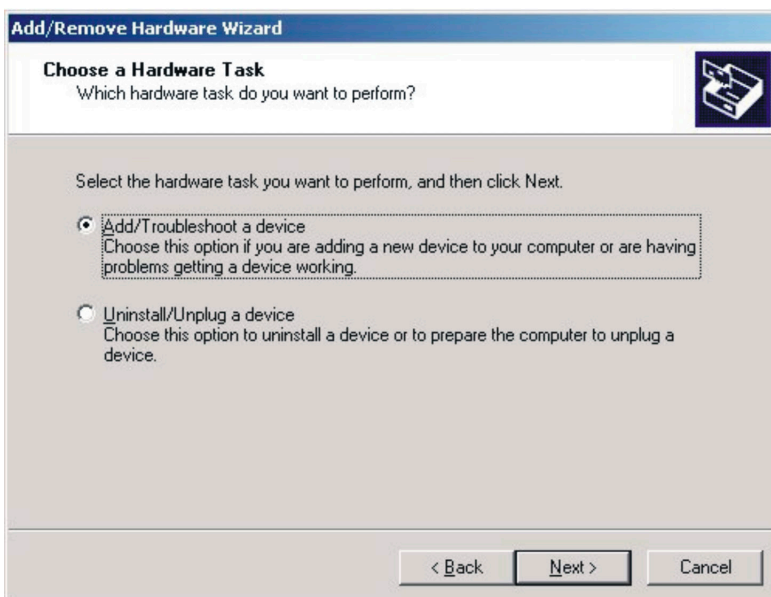
Open the device manager (Click *Start* ⇒ *Settings* ⇒ *Control Panel* ⇒ *System* ⇒ *Hardware* ⇒ *Device Manager*) and delete there USB Devices that are marked with question mark.



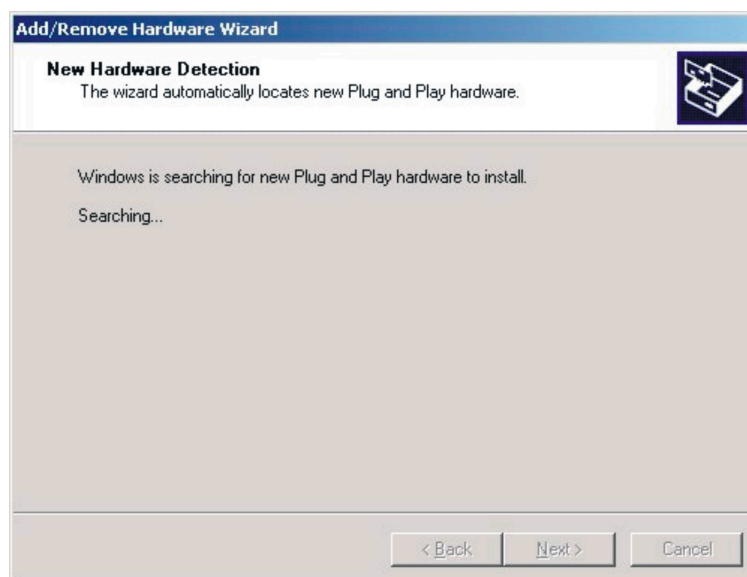
Click **Add/Remove Hardware**.



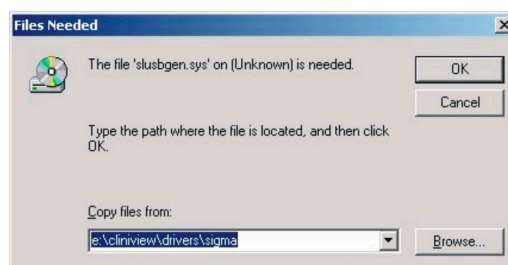
Click **Next**.



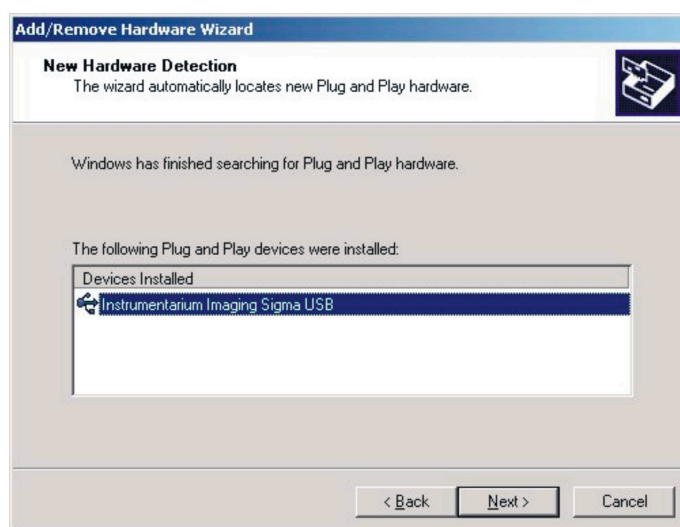
Select “*Add/Troubleshoot a device*” and click **Next**.



Windows is searching hardware. Wait for a moment.



Browse the path of the Sigma.inf file and click **OK**.



Click **Next**.



The driver upgrade is complete.

2.3 Intraoral camera requirements and installation

CliniView is compatible with video capturing devices that support the Video for Windows standard format. Install the video capture card and the drivers supplied with your intraoral camera, following the intraoral camera's installation instructions.

CliniView 5.0 supports Dürr Dental's PC COM-port connectable 3-button foot pedal.

3 Software installation



NOTE

Database must be installed before CliniView application installation.

Installation is possible only with Administrator user rights. In case of problems contact your system administrator.

Stand alone installation is for one computer viewstation or image acquisition workstation with X-ray device. If the installation is for image acquisition with X-ray device the gainfiles must be installed.

Distributed installation consists of one computer (later server) with database and other workstations connected to server database. Other computer (later client computers) can be viewstations or image acquisition use.

3.1 Standalone installation

3.1.1 Database installation

Insert CliniView installation CD-rom into the CD-drive. The installation program starts automatically. In case the autorun function does not start run Setup.exe from CD-rom.

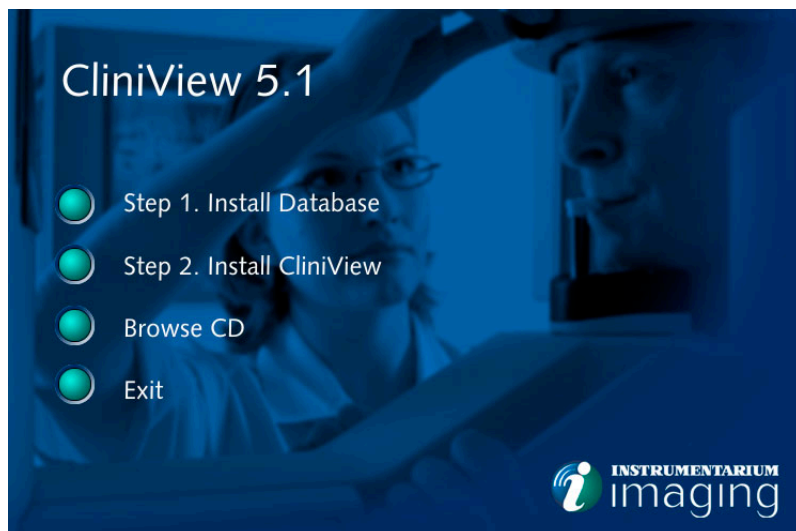


NOTE

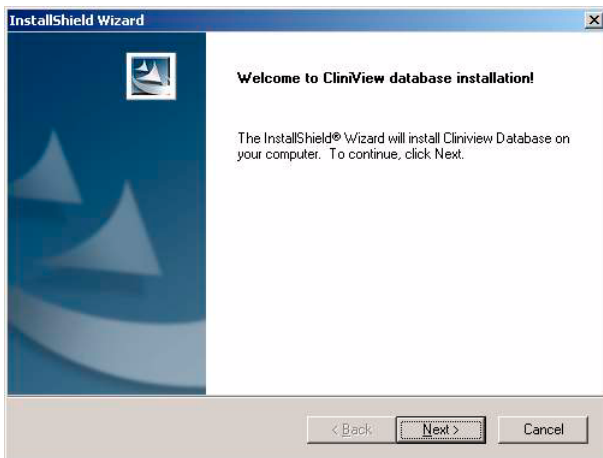
MSDE database requirements:

1. Internet explorer 5.0 or later
2. Server service must be started and automatically startup option must be automatic. ⇒ In case of problem contact local system administrator.

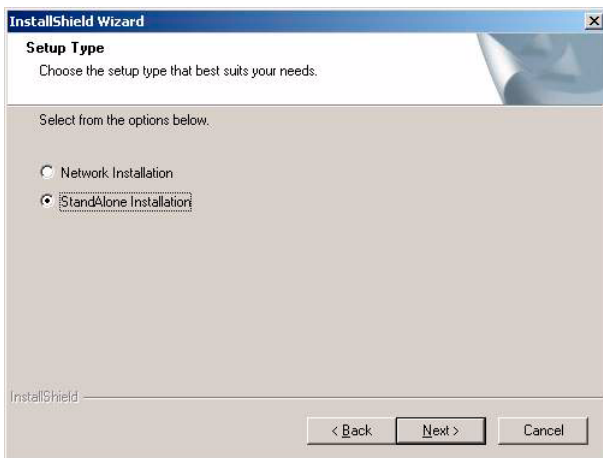
Check: control panel- Administrative tools- Computer management services “server service”.



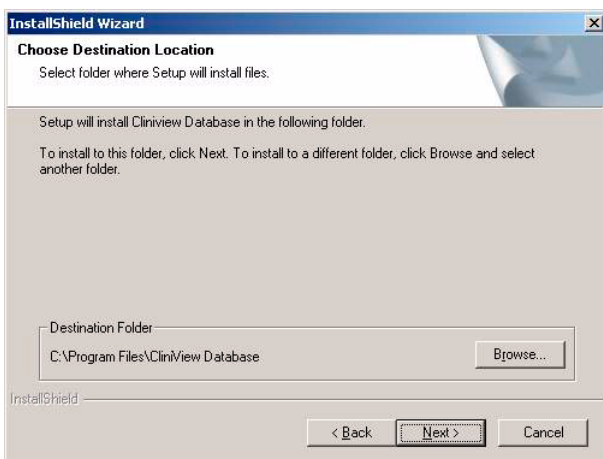
Choose *Install database*.



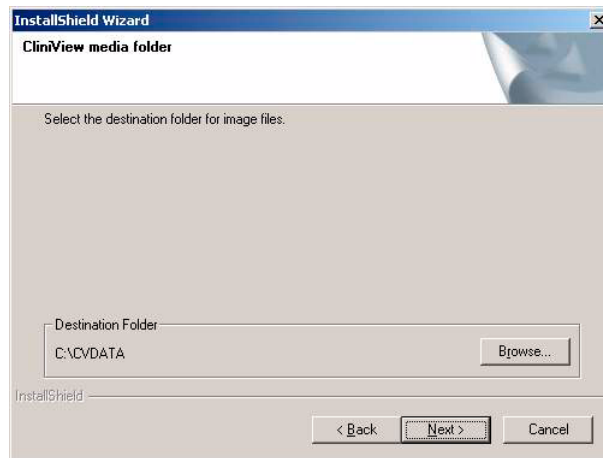
Choose **Next**.



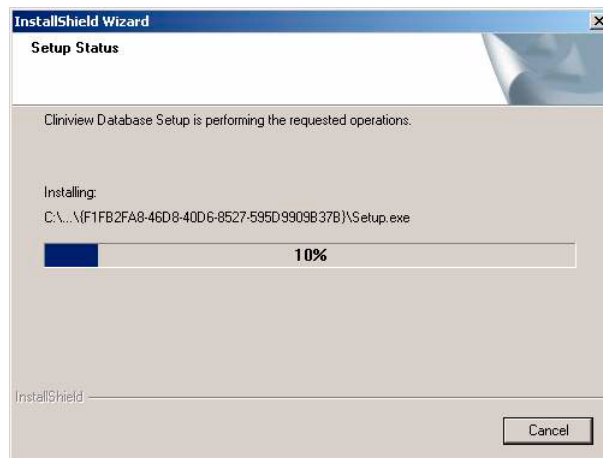
Select *stand alone installation*.



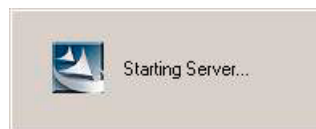
Select *database location*.

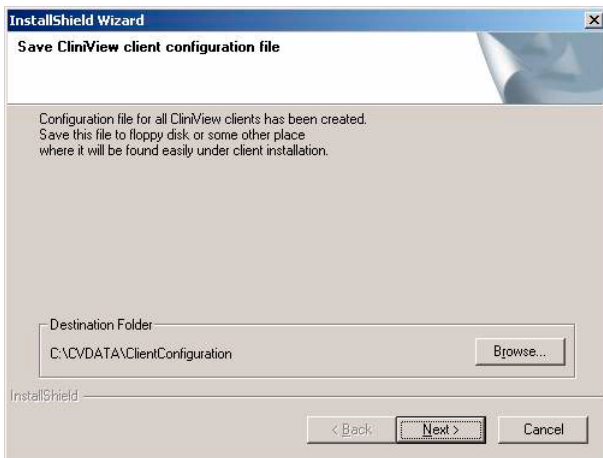


Choose location for images and click **Next**.

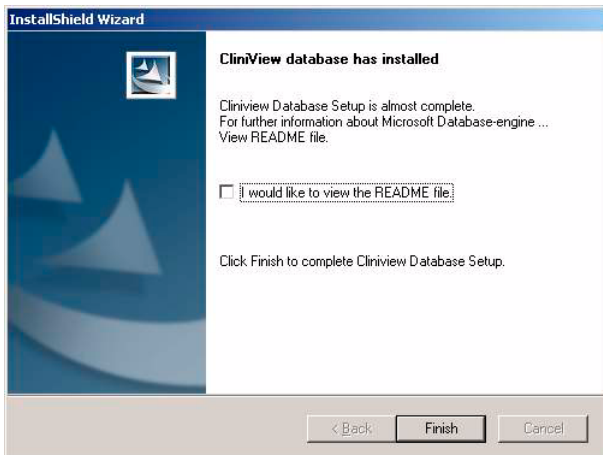


Wait when install shield copies all files to computer disk. Depending on computer this scan can take from 10 sec. to 1 minute.





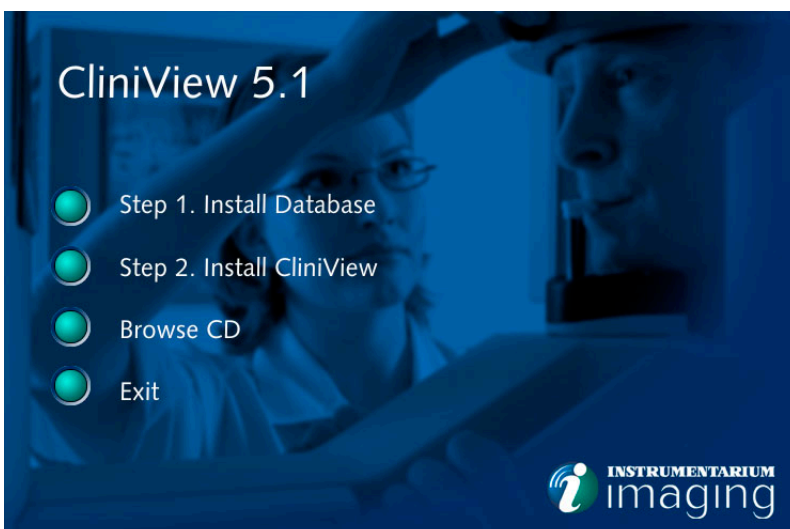
Save database configuration file, later ClinView software installation will ask this file to make all database configurations automatically.



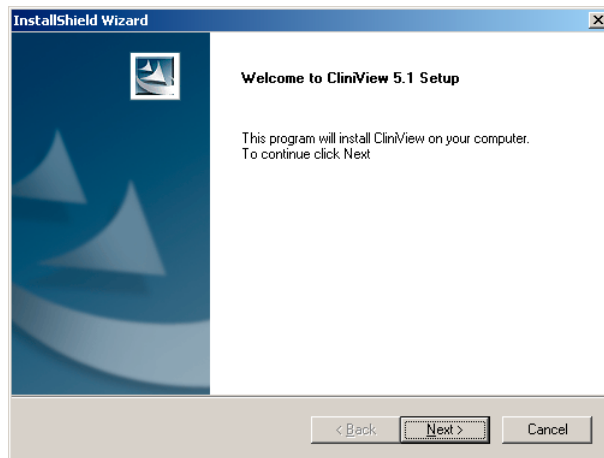
ClinView database is installed, click **Finish**.

3.1.2 ClinView software installation

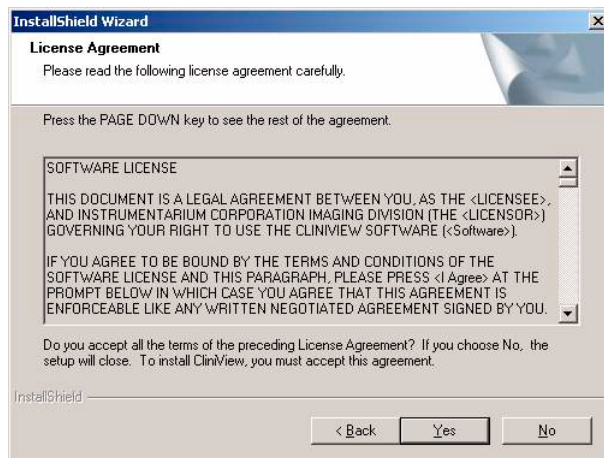
After installing the database you can install ClinView.



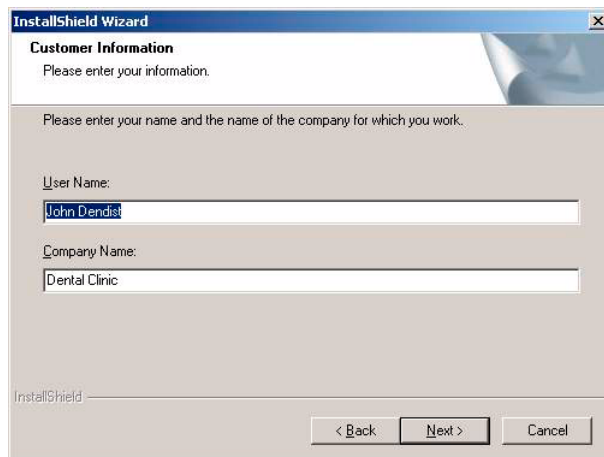
Select *Install ClinView*.



Click **Next**.

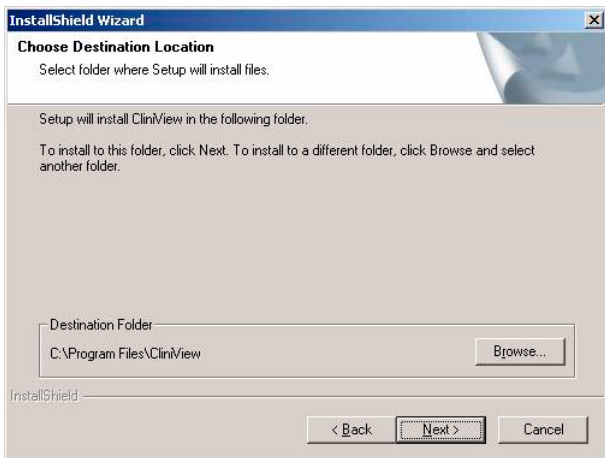


Read license agreement and click **Yes**.

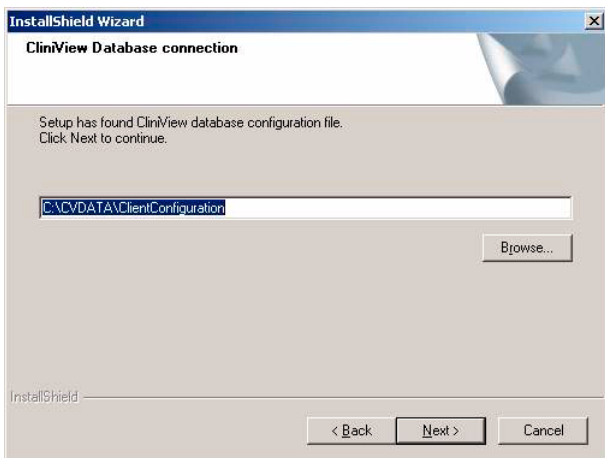


Type user name and company name, click **Next**.

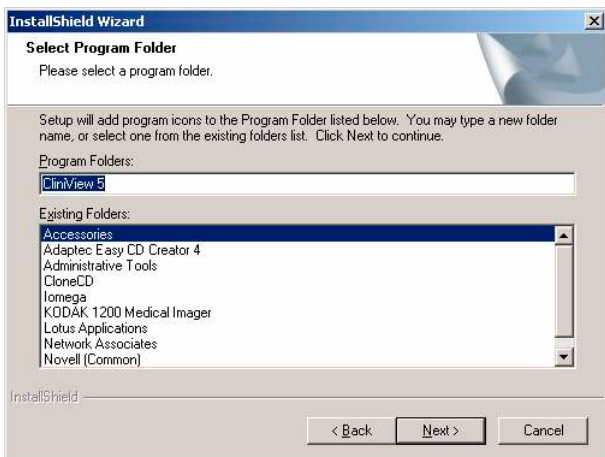
3 Software installation



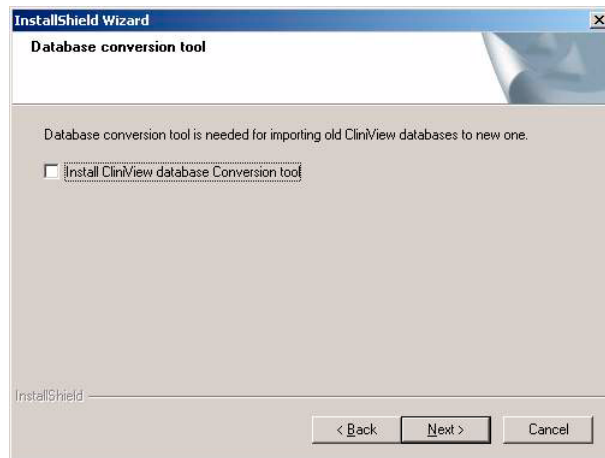
Choose folder for CliniView software. Click **Next**.



Enter path for Database configuration file.



Accept default name for start menu or change it if needed.



Install database conversion tool if you have old ClinView installation. In case of new installation there is no need to install conversion tool. Refer to Installation manual chapter Conversion tool.

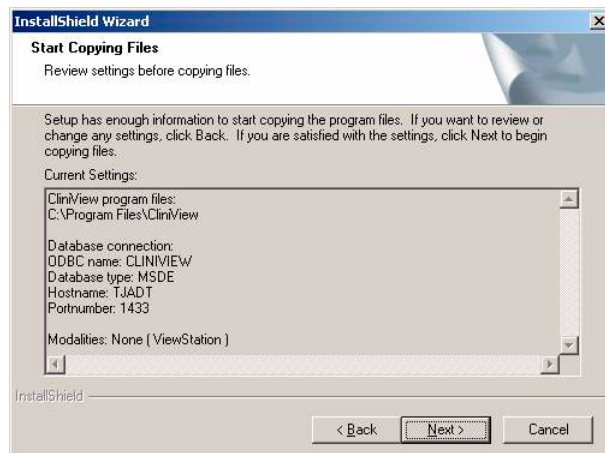


Select all X-ray devices that you have, in case of viewstation leave all fields empty. Click **Next**.

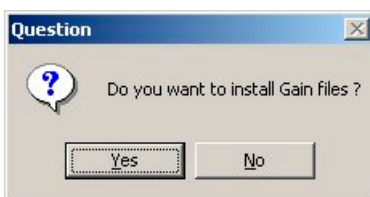
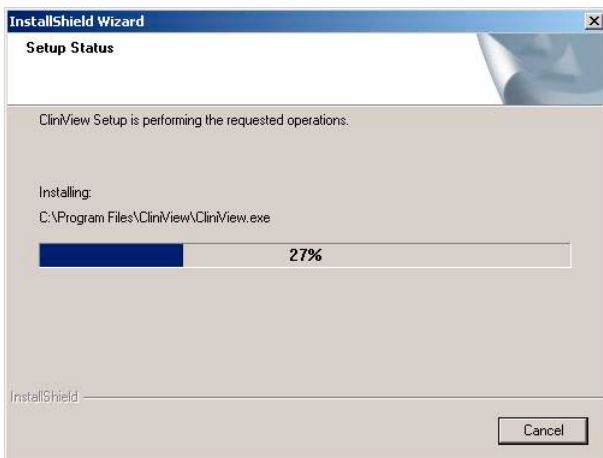


NOTE

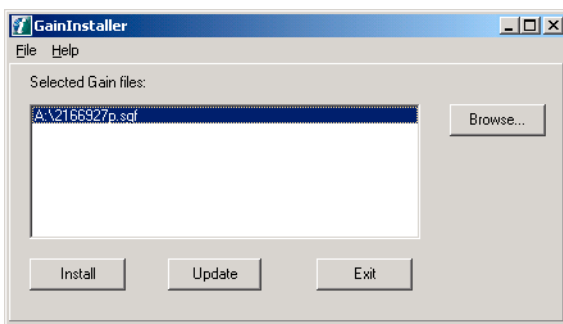
There is a possibility to disable or enable devices after installation from ClinView user interface. Refer to *User Manual, chapter Adding modalities*.



Check that everything is okay and click **Next**.



Click **Yes** to install Gain files.

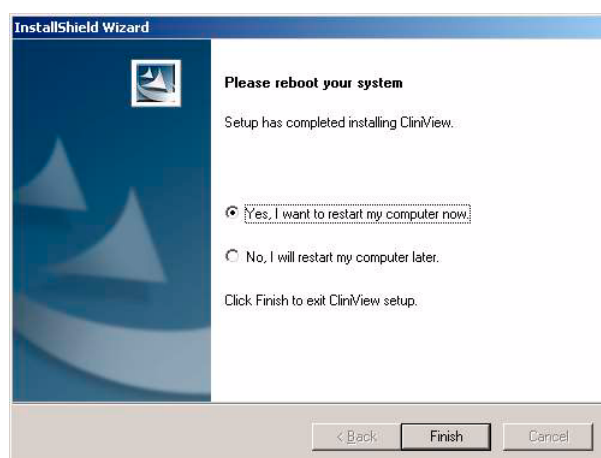


If you have selected X-ray devices the Gain Installer dialog will appear. Insert the Gain file media and browse the Gainful location. Select all the gainfiles and click **Install**. Remember to install gainfiles for each camera and sensor.

If you have already installed the Gainfiles on one workstation in the network click **Update** to copy them to this workstation from the server.



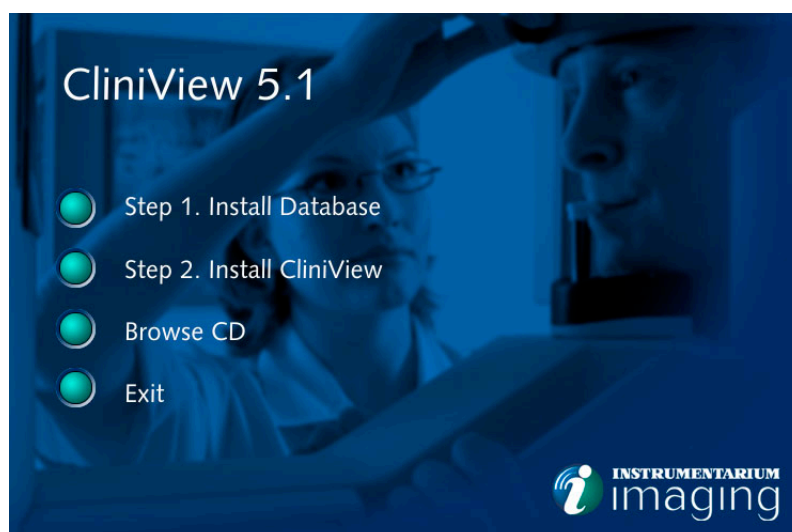
Select **Yes** and read the readme file.



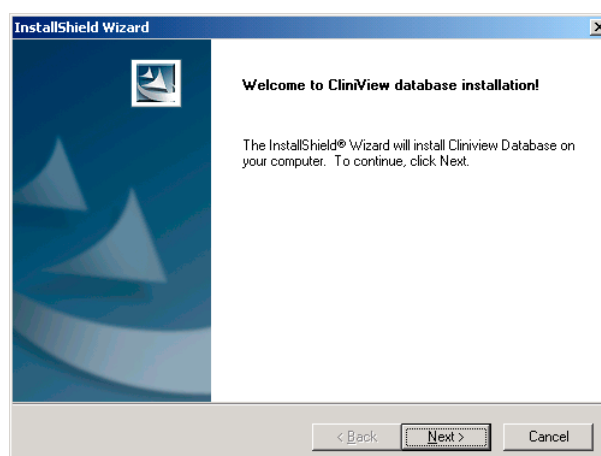
Click **Finish** and your computer restarts, after restart you can start to use ClinView software.

3.2 Distributed installation

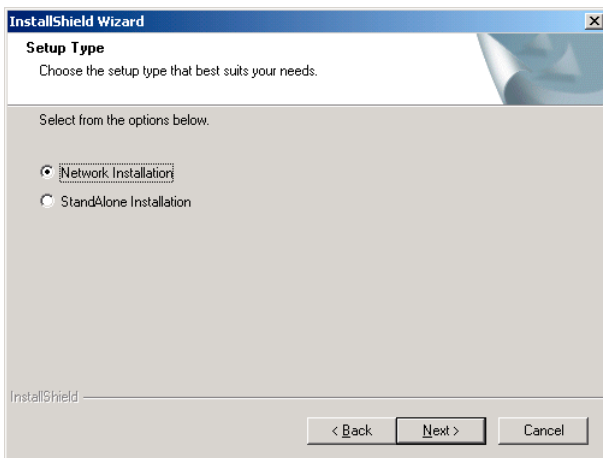
3.2.1 Installing database to server



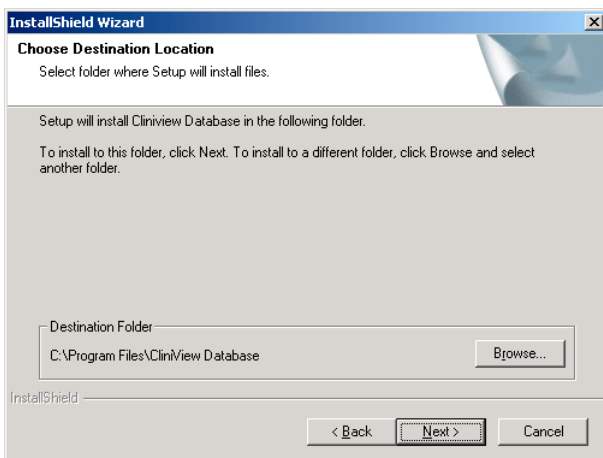
Select *Step 1. Install Database*. The database and the database engine will be installed.



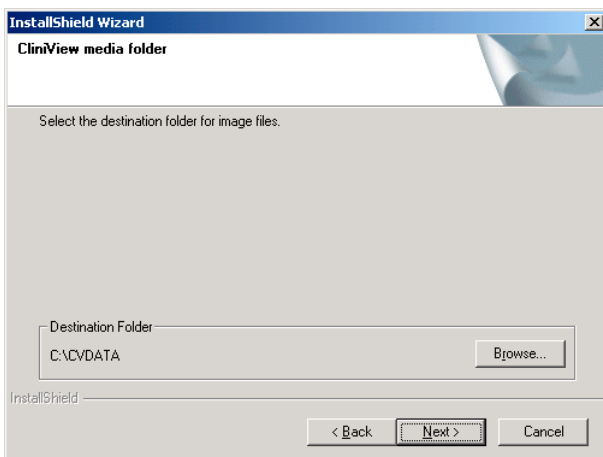
Click **Next**.



Select the *Network installation* and click **Next**.



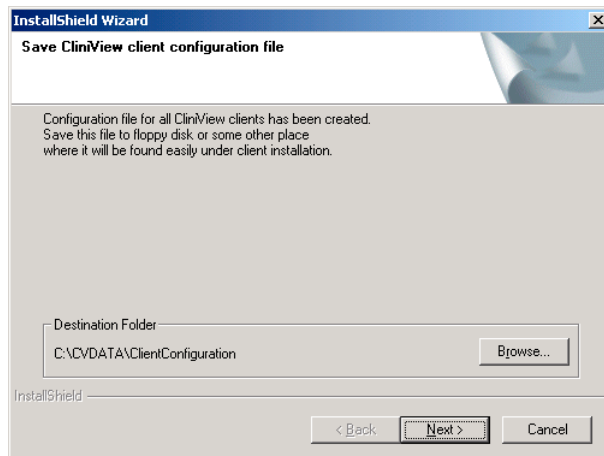
Click **Next**.



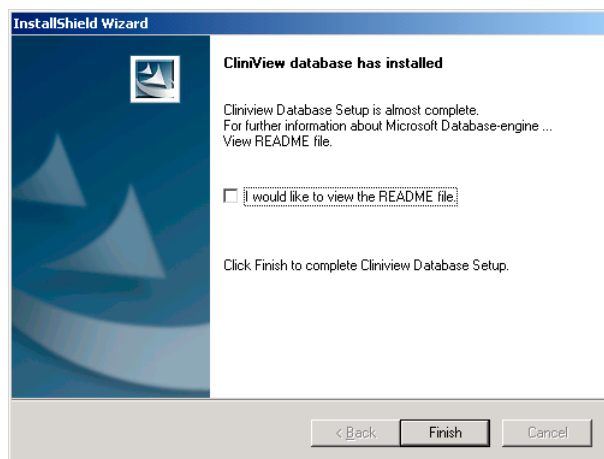
Click **Next**.



Installation might take for a while because the SQL server is also installed.



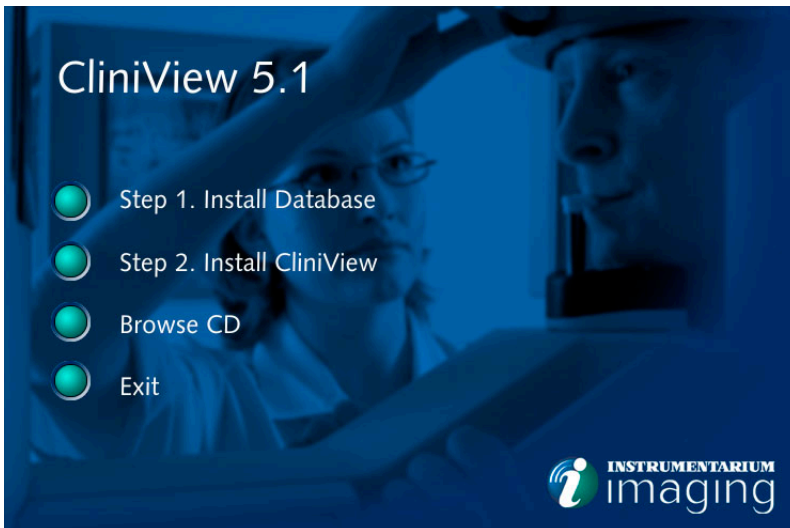
Select the destination for the Client configuration file. It is recommended to save the file to a floppy disk, because this file is needed in every client computer installations.



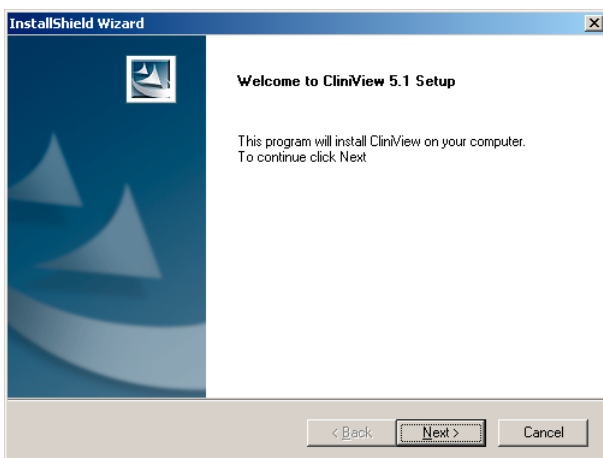
Click **Finish**.

3.2.2 Installing Cliniview to client computers

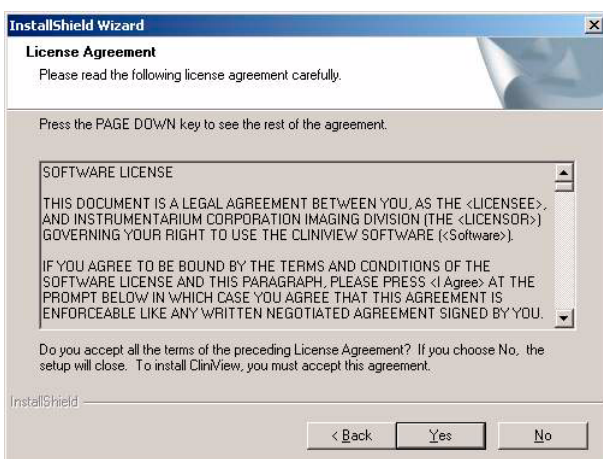
After installing the database you can install Cliniview to client computers.



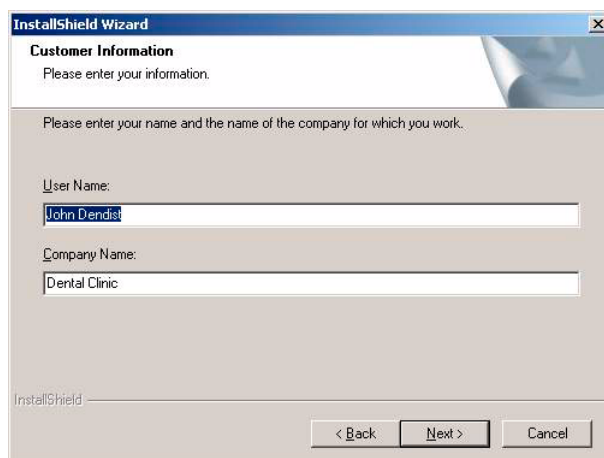
Select *Install CliniView*.



Click **Next**.

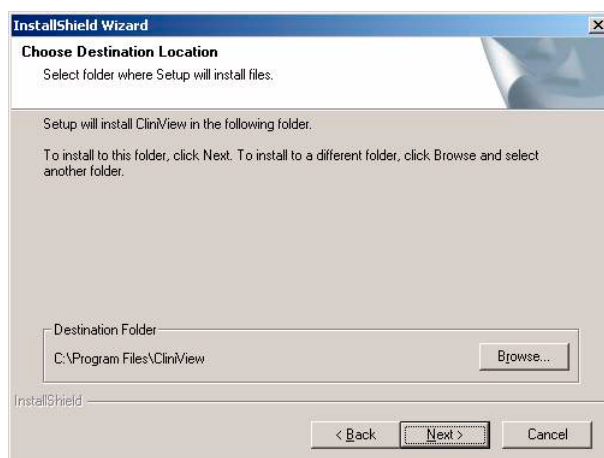


Read license agreement and click **Yes**.



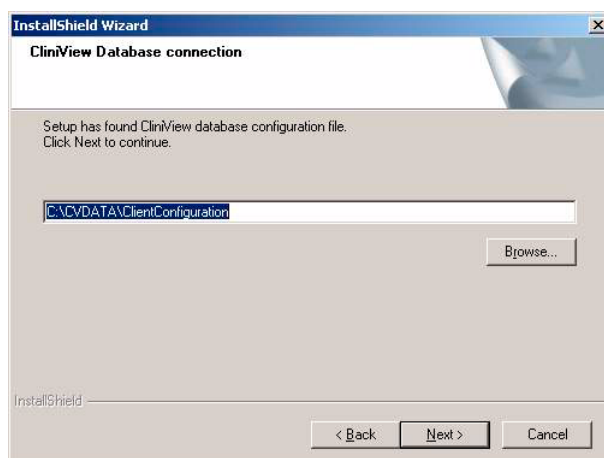
The screenshot shows the 'InstallShield Wizard' window with the 'Customer Information' tab selected. The window has a title bar with 'InstallShield Wizard' and a close button. Below the title bar is a header area with the text 'Customer Information' and 'Please enter your information.' The main area contains two text input fields: 'User Name:' with the text 'John Dendis' and 'Company Name:' with the text 'Dental Clinic'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

Type user name and company name, click **Next**.



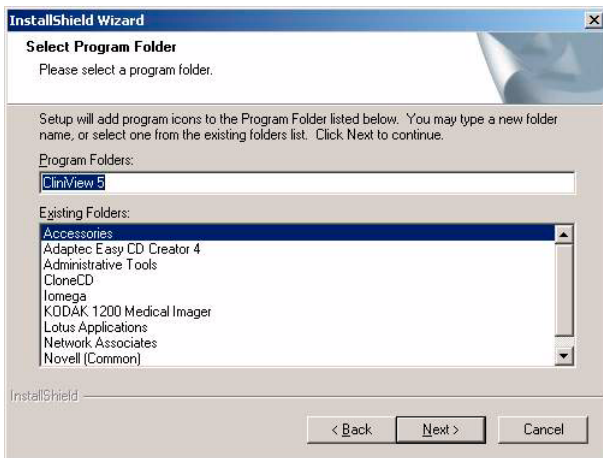
The screenshot shows the 'InstallShield Wizard' window with the 'Choose Destination Location' tab selected. The window has a title bar with 'InstallShield Wizard' and a close button. Below the title bar is a header area with the text 'Choose Destination Location' and 'Select folder where Setup will install files.' The main area contains a text input field labeled 'Destination Folder' with the text 'C:\Program Files\CliniView' and a 'Browse...' button. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

Choose a folder for the CliniView software. Click **Next**.

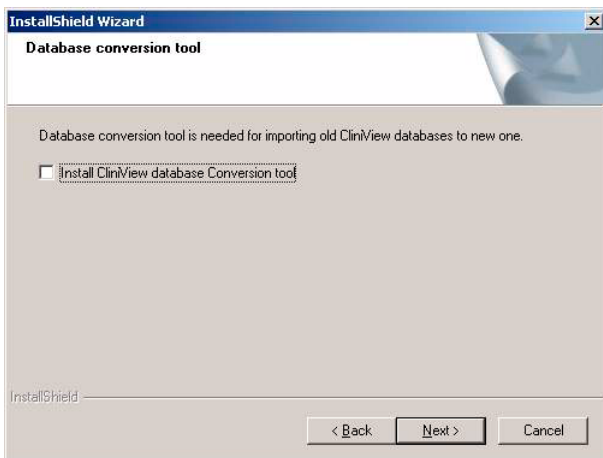


The screenshot shows the 'InstallShield Wizard' window with the 'CliniView Database connection' tab selected. The window has a title bar with 'InstallShield Wizard' and a close button. Below the title bar is a header area with the text 'CliniView Database connection'. The main area contains a text input field with the text 'C:\CVDATA\ClientConfiguration' and a 'Browse...' button. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

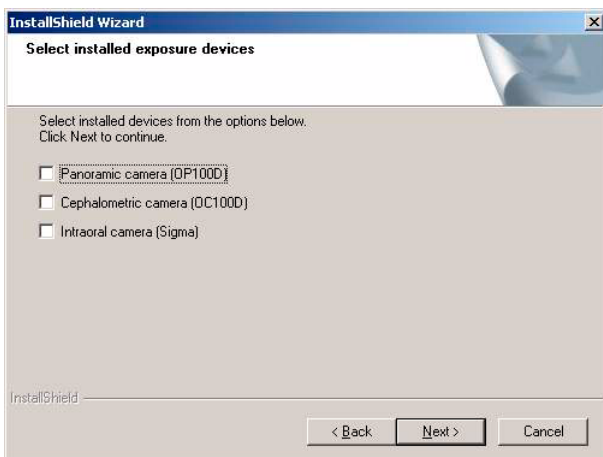
Enter a path for the Database configuration file. This is the datasource.ini file which was created during database installation.



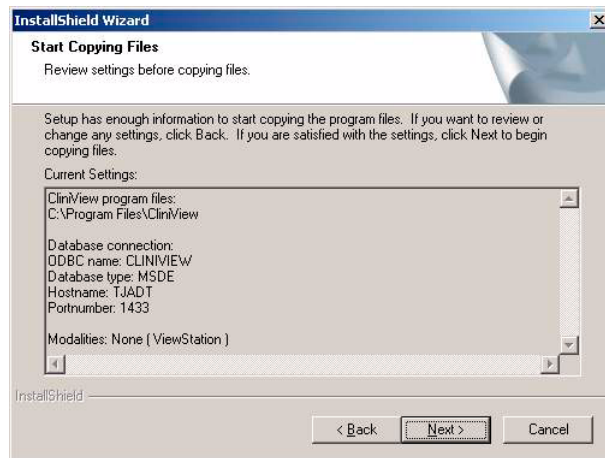
Accept default name for start menu or change it if needed.



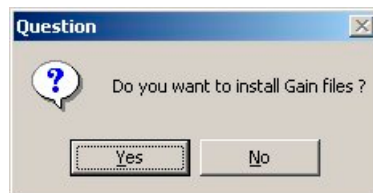
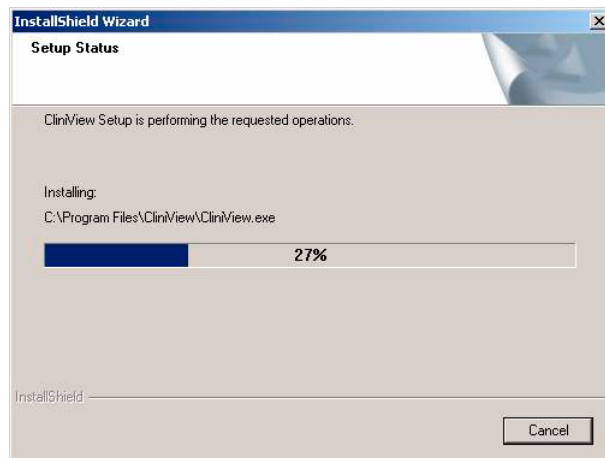
Install database conversion tool if you have old ClinView installation. In case of new installation there is no need to install conversion tool. Refer to Installation manual chapter *Conversion tool*.



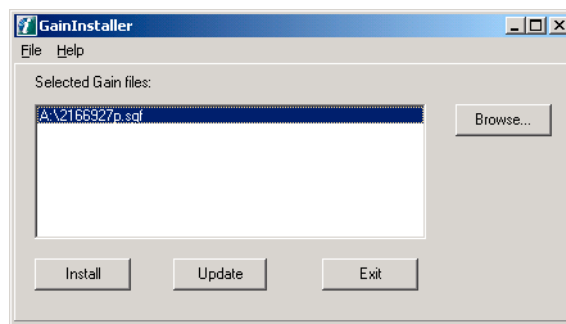
Select all X-ray devices that you have, in case of viewstation leave all fields empty. Click **Next**.



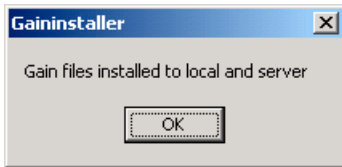
Check that everything is okay and click **Next**.



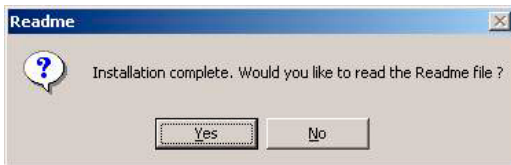
Click Yes to install Gain files.



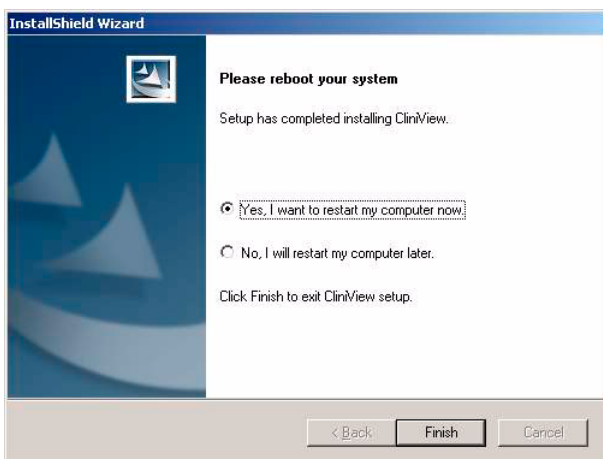
If you have selected X-ray devices the Gain Installer dialog will appear. Insert the Gain file media and browse the Gain file location. Select all the gainfiles and click Install. Remember to install gainfiles for each camera and sensor.



Click **OK**.



Select yes and read the readme file.

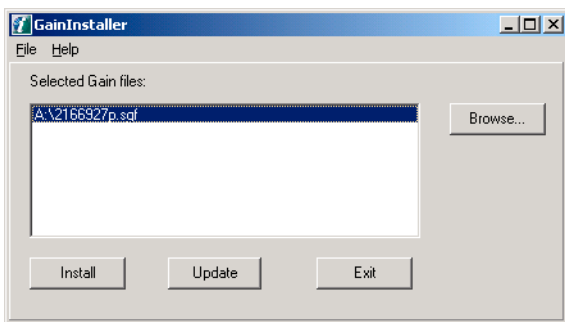


Click finish and your computer restarts, after restart you can start to use CliniView software.

3.3 Gaininstaller

To install additional gainfiles or reinstall gainfiles, use the Gain installer.

To open Gaininstaller, select **Start/ Programs / CliniView / Tools / Gaininstaller**.



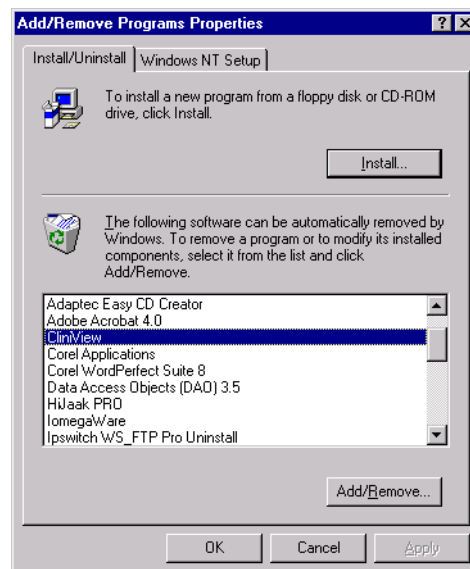
If you have selected X-ray devices the Gain Installer dialog will appear. Insert the Gain file media and browse the Gain file Select all the gain files and click Install.

If you have already installed the Gainfiles on one workstation in the network click **Update** to copy them to this workstation from the server.

Remember to copy the Gainfiles for each camera and sensor.

3.4 Uninstalling CliniView

To uninstall CliniView, select **Start -> Settings -> and Control Panel**. Double click **Add/Remove Programs** and select the CliniView which you want to remove from the list. If you have older versions of CliniView installed, do not remove that software before you have verified that CliniView 5.0 is working and you are able to use the converted database. Click **Add/Remove**.



CliniView uninstallation leaves directories on the hard drive and saves the database and images. Uninstallation is for removing the software only. CliniView uninstall does not remove any WIN device drivers such as Sigma USB or PCI drivers.

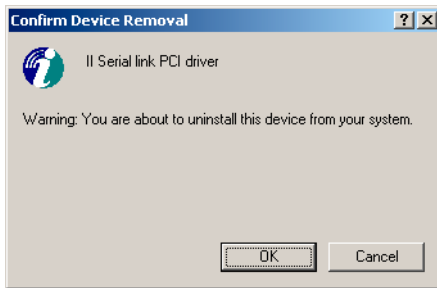
3.5 Uninstalling the database

To uninstall CliniView, select **Start -> Settings -> and Control Panel**. Double click **Add/Remove Programs** and select the database which you want to remove from the list.

3.6 Uninstalling the driver

If the driver installation fails, remove the driver and then reinstall it. The procedure is as follows:

Click **Control Panel/System** and select the Hardware tab. Click the driver and select **Uninstall**. When the confirmation dialog appears, click **OK**.



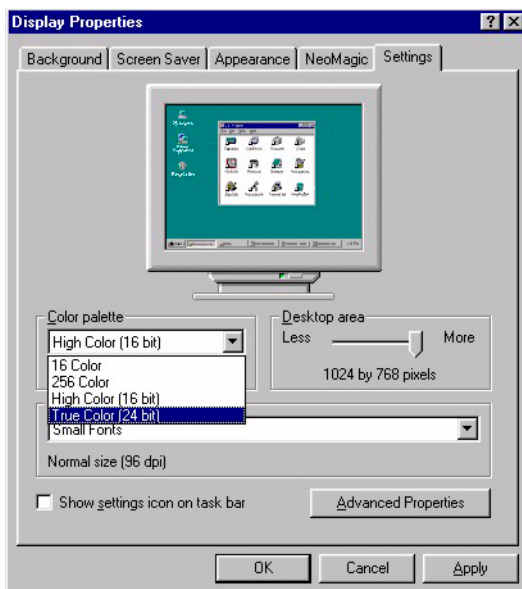
Click **Add/Remove Hardware** in Control Panel.

3.7 Display settings for CliniView

The Windows display settings may have to be changed if the display is difficult to read after CliniView installation. To change the display mode, select **Start**, **Settings**, and **Control Panel** and double click on the display icon. Select the Settings tab to make your specific changes. (Windows may prompt you to restart Windows for this change to take effect.)

The Windows display settings should be (suggested):

- Desktop area at least 1024 x 768 pixels
- Color palette 32 bits (True Color)



3.8 Installing Cliniview database to existing SQL server

The installation contains two parts:

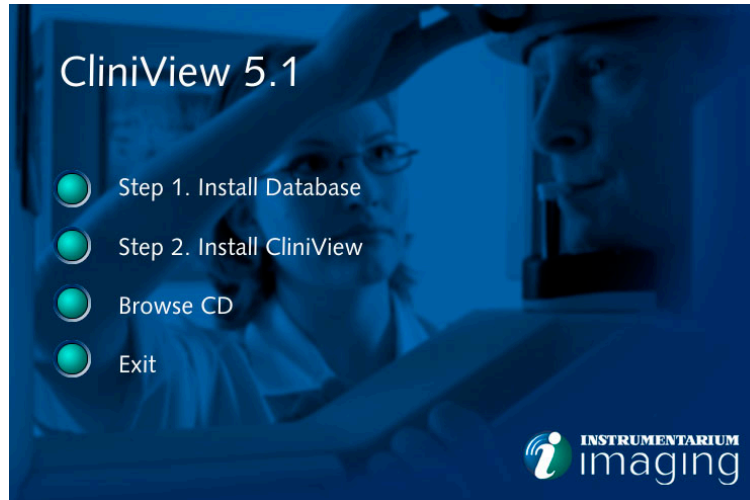
- 1 Software installation
- 2 Creating Cliniview database

3.8.1 Software installation

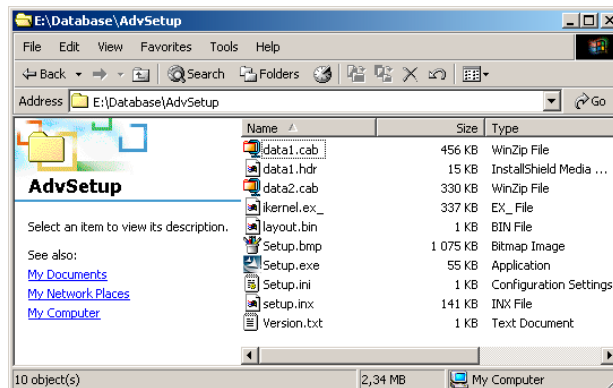
The installation program will create image directory and installs all needed files.

Installation is possible only with Administrator user rights. In case of problems contact your system administrator.

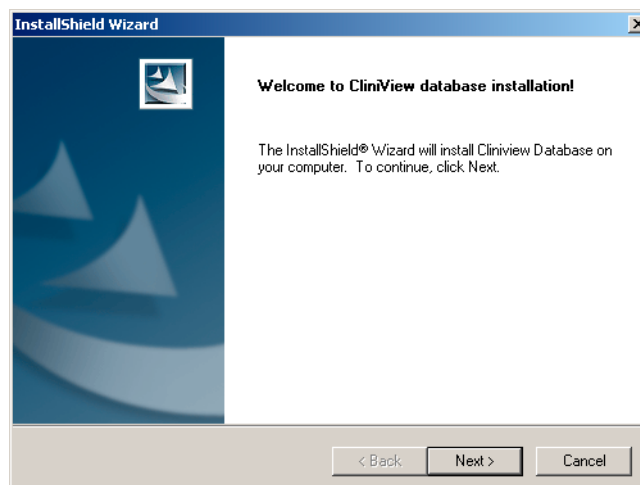
Insert CliniView installation CD-ROM into the CD-drive. The installation program starts automatically. In case of autorun function does not start run Setup.exe from CD-ROM.



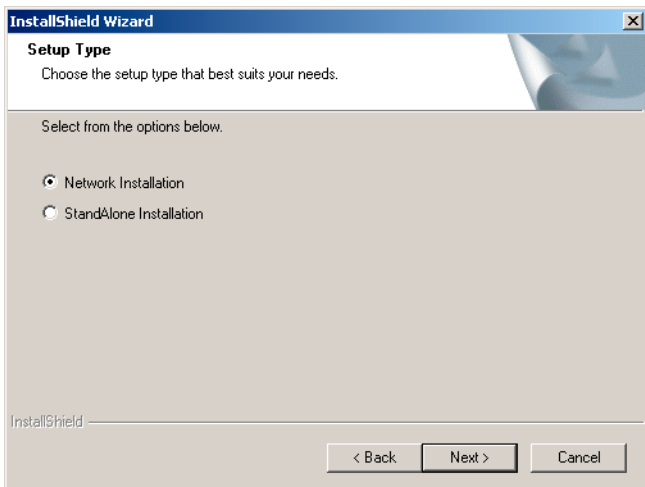
Select *Browse CD*.



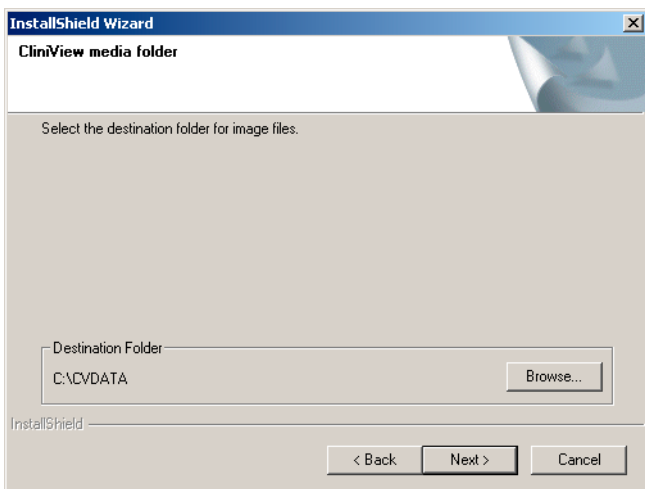
Run setup.exe from CliniView CDROM/Database/AdvSetup directory.



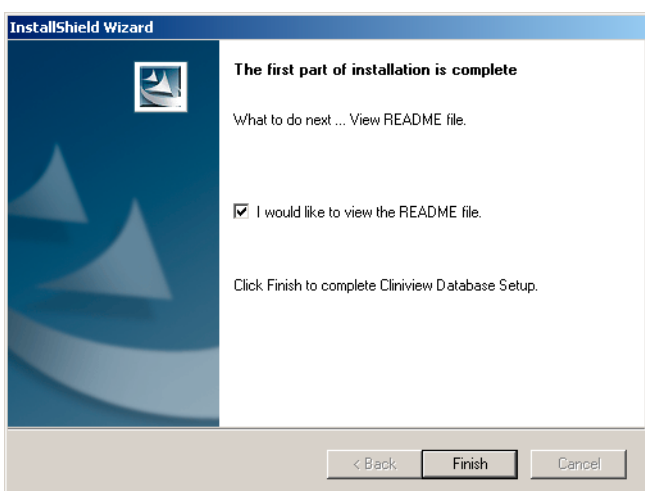
Click **Next**.



Select installation type. Network installation will be OK in most cases. Select standalone Installation if the computer is not connected to network.



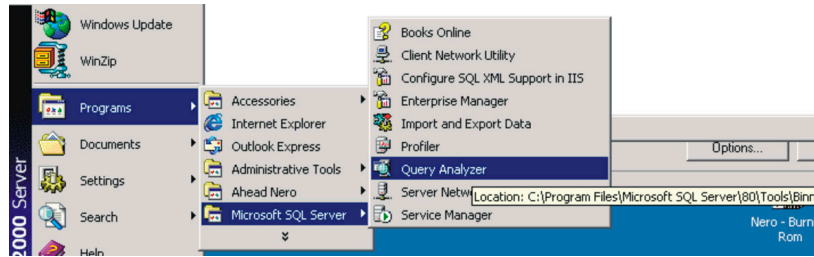
Select location for images and click **Next**.



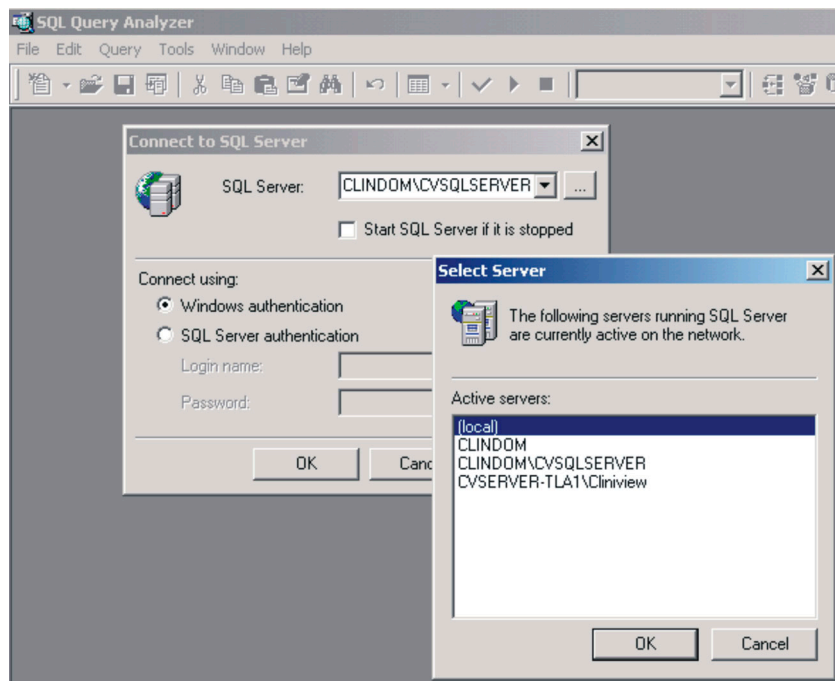
The first part of installation is complete, click **Finish**.

3.8.2 Create CliniView Database to SQL server

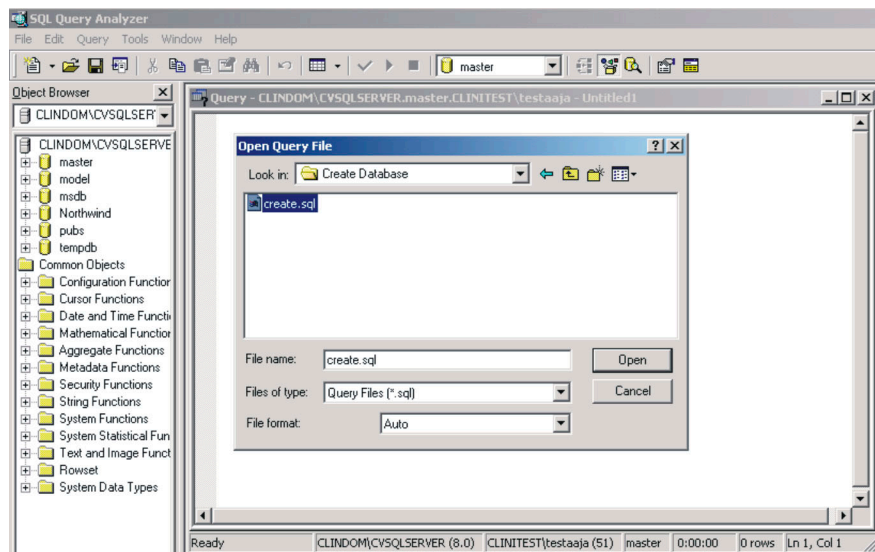
Open SQL server query analyzer:



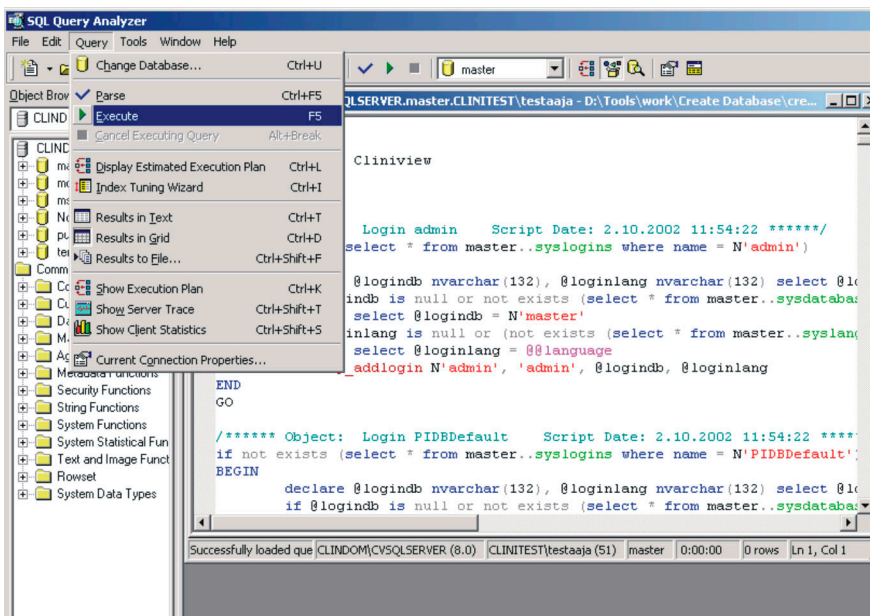
In Query analyzer window connect to correct SQL server:



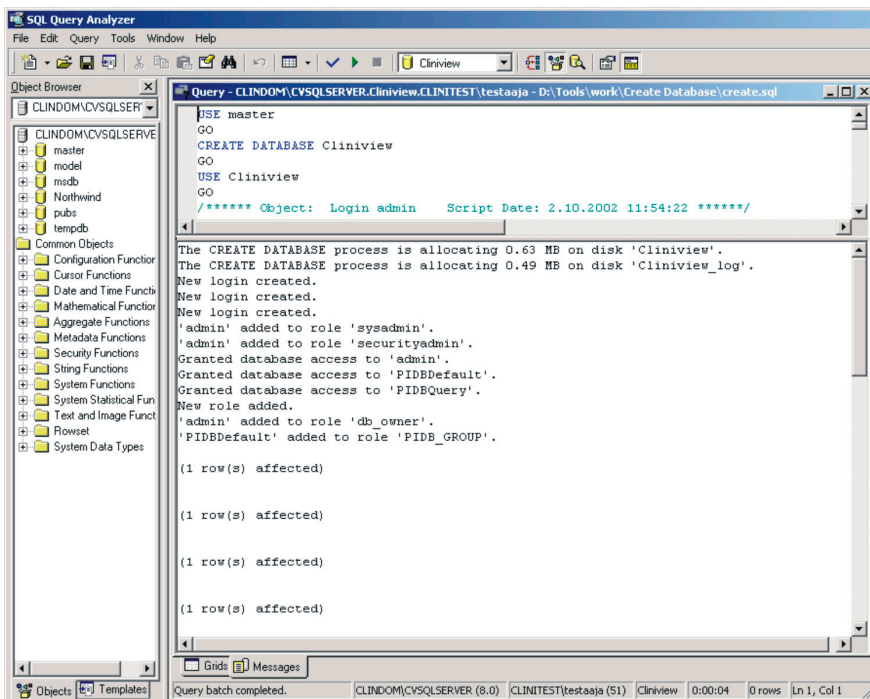
Browse CliniView DATABASE creation script from <image directory>/work/SQL/create.sql.



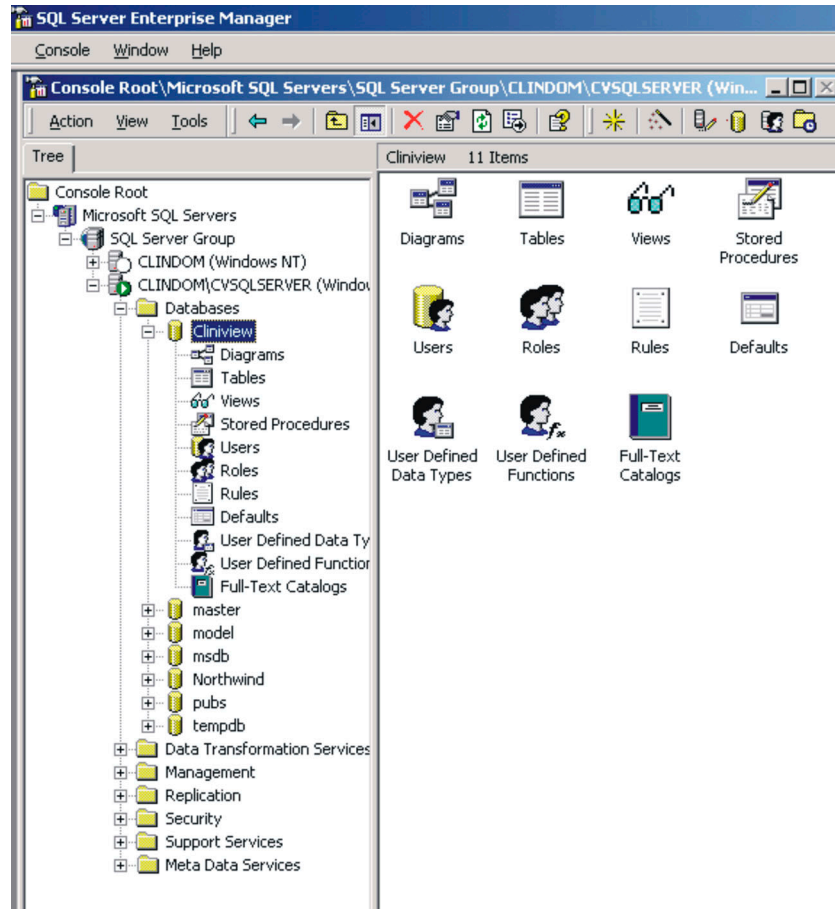
Open Create script and run it by pressing F5 or select Query -> Execute:



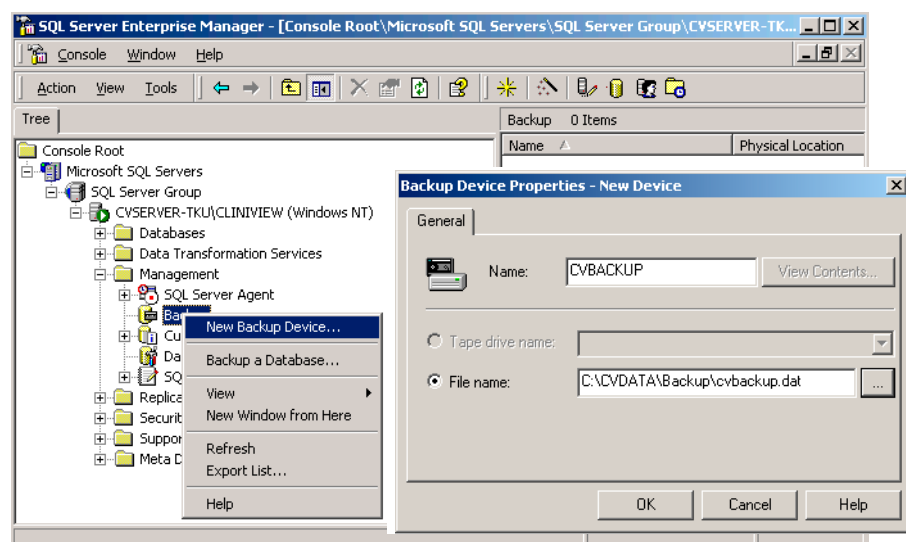
After running script user can see “batch completed” bottom on query analyzer window.



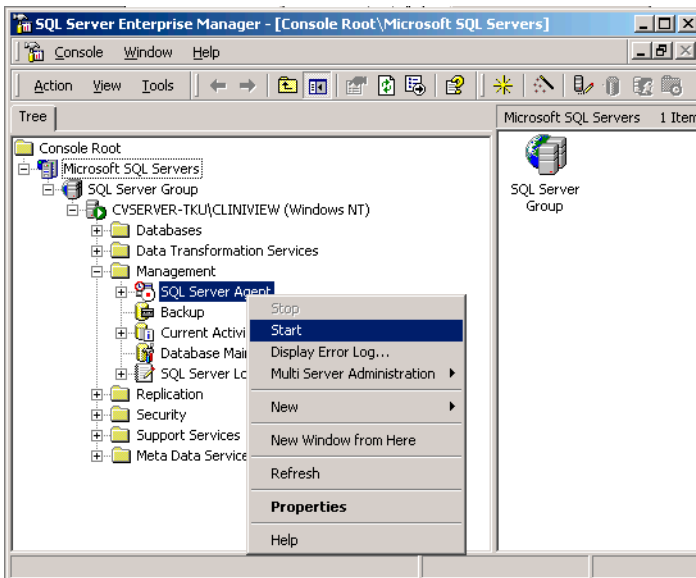
Check that database exists in SQL server Enterprise manager window, this is good point to create also Maintenance plan for new database on system. Scheduled backups etc.



Create Scheduled backup device and name it 'CVBACKUP' (write/browse file name, which fits you best)



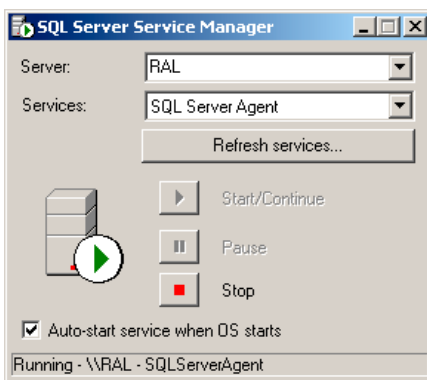
Start SQL Server Agent (if not running)



- Create New timed job

Open SQL server query analyzer. Open 'CliniView Database Bacup.sql' from <Image Directory>\work\SQL\CliniView Database Backup.sql and run it by pressing F5 or by selecting Query-> Execute.

- Configure SQL Server Agent so that it auto-starts when OS starts.



3.8.3 Install FMS Templates

Install FMS Templates by running <Image Directory>\work\Templates\InstallTemplates.bat.

CliniView installation program will create database connection automatically, but if you want to install the FMS Templates before installing any CliniView client ODBC connection shall be created manually. See more information on how to create ODBC-connection from <Image Directory>\work\ReadMe.txt section 6.0 Creating Database connection (ODBC).

3.8.4 Create “client configuration file” for installing CliniView Client to client workstation

Open Windows Notepad and create Client configuration file.

[Data Source]

hostname=your database server name [*instance_name*]

database=CliniView (default)

port=1433 (default)

Save file as name: “CVDataSource.ini”

Example1:

[Data Source]

hostname=CLINDOM

database=CliniView (default)

port=1433

Example2:

[Data Source]

hostname=CLINDOM\CliniView

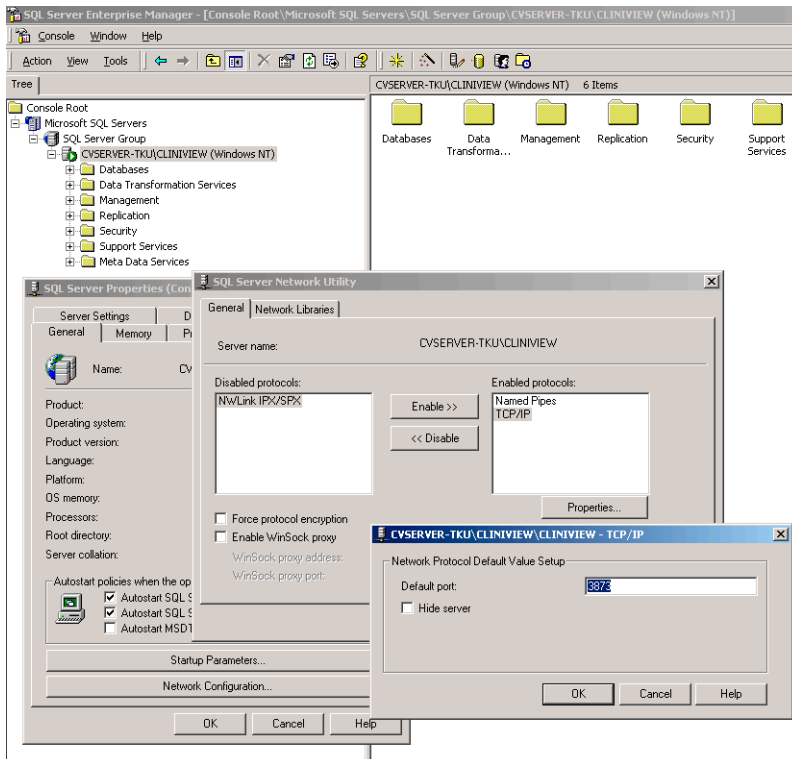
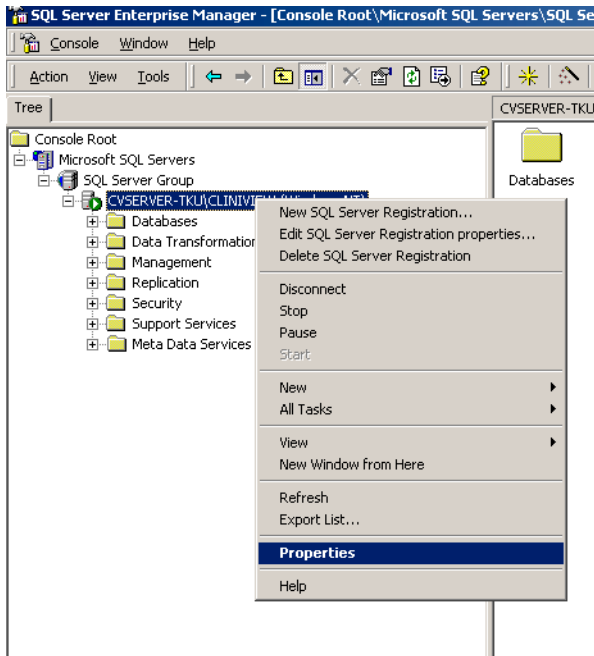
database=CliniView (default)

port=3920

how to find used port number:

Select server from Enterprise Manager -> properties -> Network configuration -> TCP/IP -> Properties.

3 Software installation



3.9 Installing CliniView MSDE database to system where is already other MSDE database

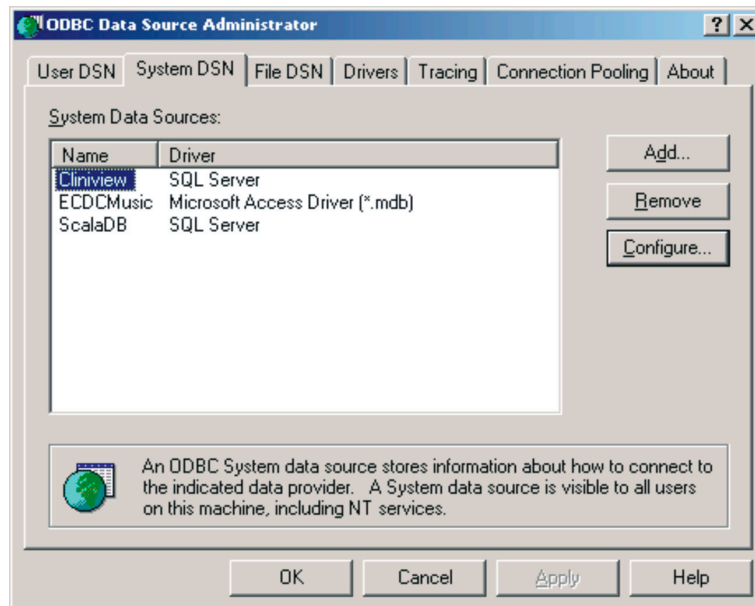
3.9.1 Installation from CliniView CD-ROM.

- 1 Install CliniView Database according to normal installation instructions in chapter 2.2.1.1.

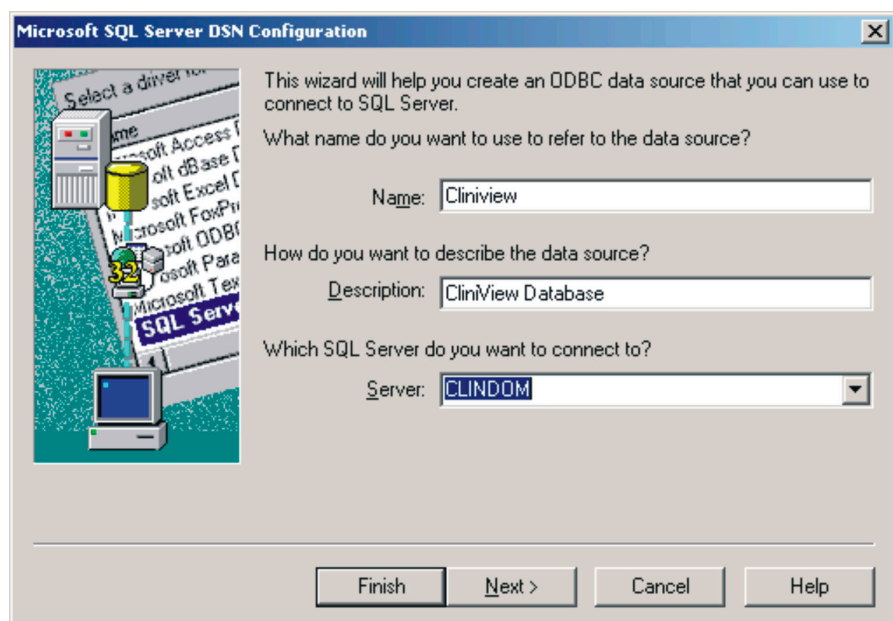
3.9.2 Configuration and uninstall

Select -> control-Administrator tools -> Data sources (ODBC)

Choose CliniView -> Configure

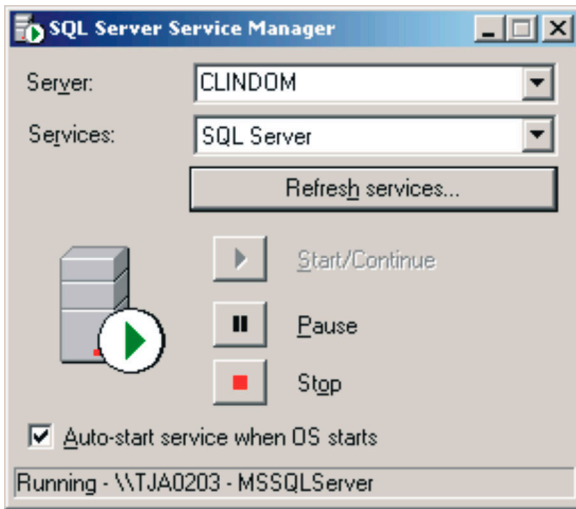


Configure window:



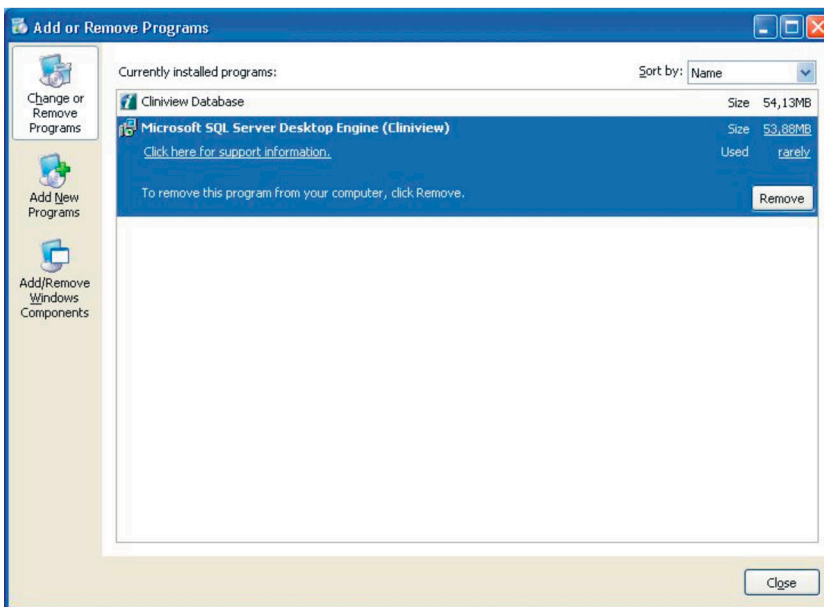
3.9.2.1 Stop and start DATABASE application

It is possible to stop and start MSDE database application from windows taskbar Example before taking backup from DATABASE it has to be stopped.



3.9.2.2 Uninstall CliniView database instance

In CliniView MSDE installation it creates other Database application (.exe) file, if customer have other MSDE application it can have own separate Desktop engine on “add or Remove programs window.



If users is going to uninstall CliniView and Database, procedure is:

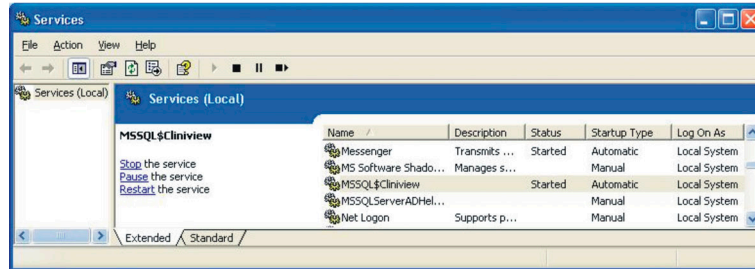
- 1 Uninstall CliniView Client
- 2 Uninstall CliniView Database

3.9.2.3 CliniView MSDE configuration, service settings

Name is MSSQL\$cliniview.

**NOTE**

There might be some other MSDE running like MSSQL\$softwarex or just only MSSQL.



CliniView MSSQL server runs separately and can be stopped without stopping other SQL engines, example in case of taking backup.

4 Upgrading CliniView

4.1 Upgrading CliniView 4.1 or older version

4.1.1 Prior to conversion

The platform selection for server computer before updating process is very important. The conversion process is validated to be done ONLY in Windows® 2000 or Windows® XP operating systems. This will cause an action that database and images must be moved from present server computer to the future server computer before any other action.

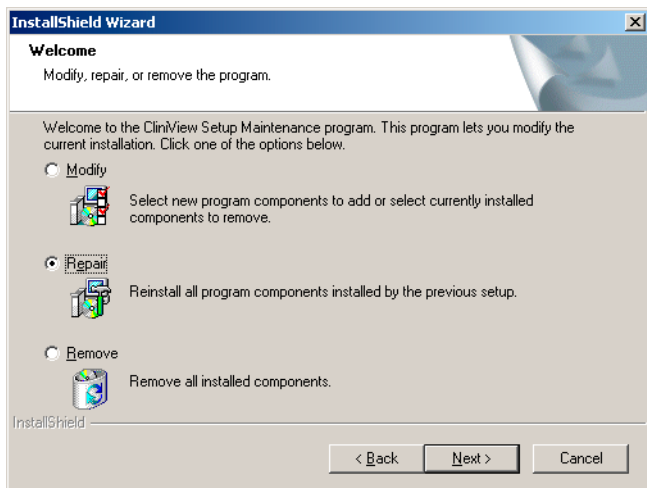
Pay attention and verify the current CliniView workstation, viewstation and server architecture. In the new CliniView database structure the database engine is located only in one computer. This is one of the main differences compared to the old one.

The conversion can be done over the network. If the network speed is slow with stability problems and database is bigger than few Mb consider making conversion process locally in the server computer. (This requires a lot of empty disk space, about three times more than current image folder size)

Update process:

- 1 Make backup of the old CliniView, specially the database, template and image folders.
- 2 Make CliniView 5 database server selection. Note: operating system in the conversion computer must be either Windows® 2000 or Windows® XP.
- 3 Install new CliniView database to the selected server. Take a copy of database network configuration file to floppy disk (CVDataSource.ini). This is a specific step for this operation during database installation. See chapter *Installing database to server* for details.
- 4 If old database is installed to computer that uses other operating systems than Windows® 2000 or Windows® XP move old CliniView images and database to selected server. If the database and images are already present in WIN2000 or WIN XP computer, skip this step. The conversion process can be launched over network but it is recommended to be done locally.
- 5 Check that the old CliniView system is fully functional i.e. patients and images and that templates can be viewed normally with CliniView. Patients created with CliniView must have a prefix in PatID, if some P(atient) M(angement) S(oftware) has been used with CliniView. PatIDs can be modified with the service program. Close all CliniViews. Remove all *.lck and *.net files from CliniView paradox database folder. Verify the old CliniView database functionality with service program. If needed repair the database with service program and rebuild index tables.
- 6 Before launching the conversion tool check following item: In the conversion computer you have to have the CliniView 4.1 or older with correct database and image routing paths. (Look at chapter BDE administrator settings for details) You should have CliniView 5 installed with workable connection to the new database. During CliniView 5 installation select checkbox: “install database converter”.
- 7 Start conversion process by launching the conversion tool.

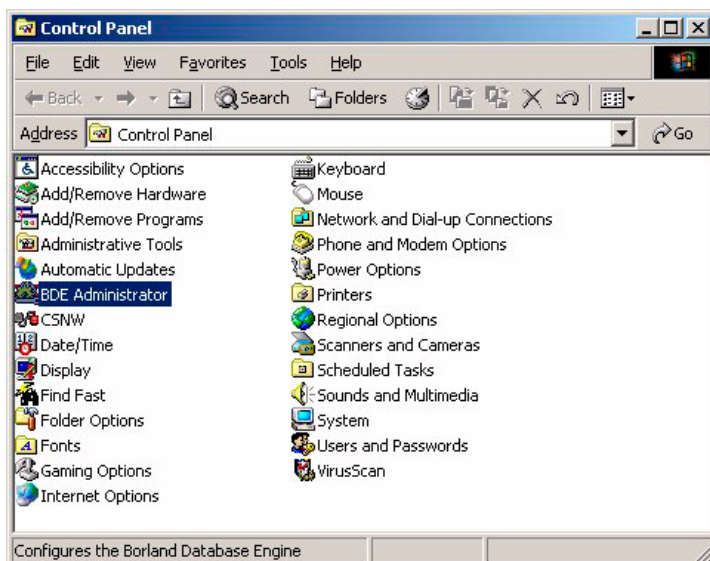
- 8 Check correct date format by conversion tool.
- 9 Install CliniView view/workstation clients.
- 10 Install Gainfiles using gain installer program. Copy them from old CliniView structure to the new structure. This is valid only to the image capturing workstations.
- 11 Launch release 5 and check that Patient Database and images are okay. Correct the missing date of birth when opening the patient (if it's not OK).
- 12 Uninstall old CliniView and delete database/images.
- 13 **NOTE!** If you are using PMS Bridge with CliniView, repair CliniView.ini file contents by running CliniView 5.1 installation repair. Insert CliniView installation CD-ROM to CD-drive and choose step 2. Install CliniView to enter the maintenance mode. Choose repair.

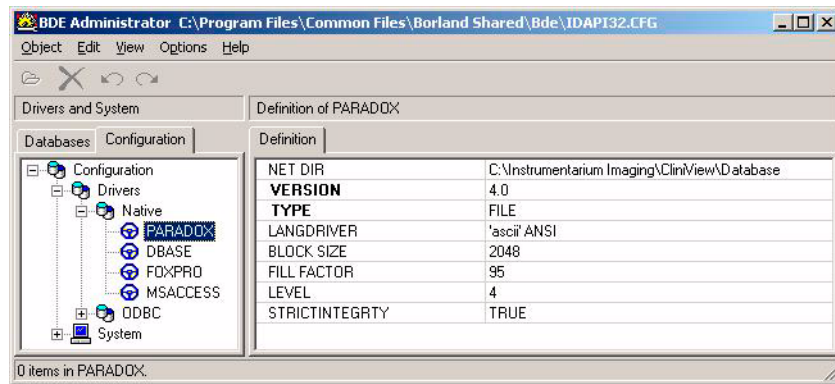


4.1.2 BDE administrator settings

In the old CliniView software the BDE settings may have been altered. Therefore to ensure successful conversion, these BDE settings have to be verified.

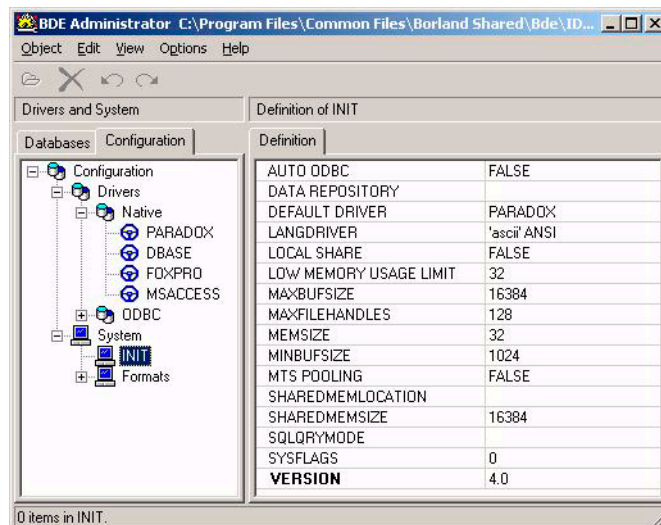
Select Start/Settings/Control Panel on the task bar and open BDE Administrator.





On configuration sheet double click on Drivers/Native the click PARADOX. Check that the settings are similar as above (except VERSION). Change vales if necessary. NET DIR should be addressed to CliniView Paradox database directory.

Then double click on system INIT. Check that the settings are similar as above (except VERSION). Change values if necessary.

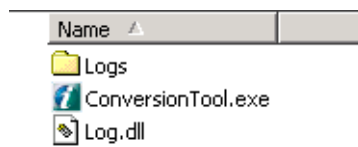


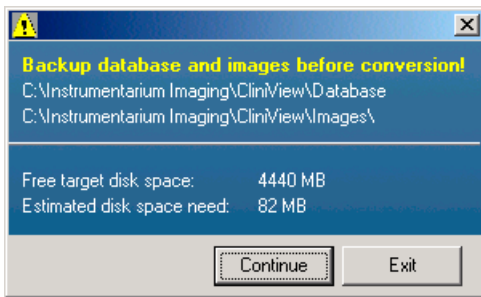
Click **Object** and select **Apply** to save changes. Close the BDE Administrator window by clicking **Object/Exit**.

4.1.3 Conversion tool

Search the conversionTool.exe file with windows explorer. Default directory is C:\Program Files\CliniView\Tools\Conversion.

Double click the file name to open the conversion tool.





Program will check the connections to both databases (Paradox and MSDE) and the needed space for images and compares it with the free space in hard disk. If there is enough space, images can be transferred. Click Continue.



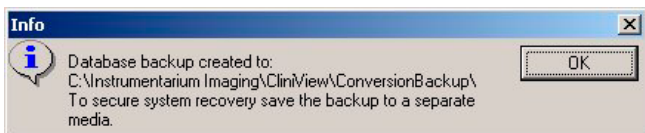
CAUTION

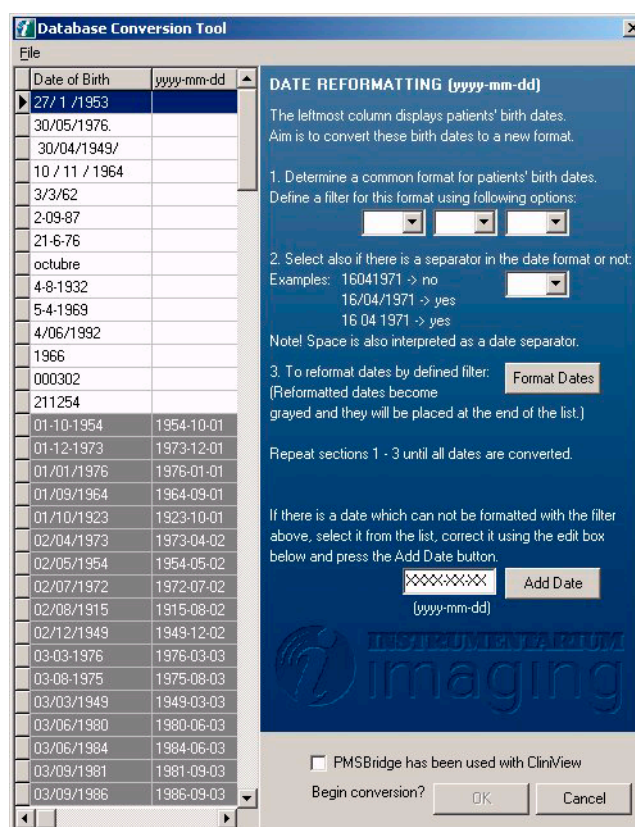
Needed disk space is only an estimation and therefore it is recommended to have at least 25% extra disk space on the target drive comparing to the estimation.

In case there is not enough free space the program will not proceed. Press Exit and free space from hard disk.



The program will create backup of the old database. Click OK.





The left-handed column displays patients' birth dates in the old database. Reformatted dates will be displayed in the right-handed column. Use the Date reformatting tool to equalize dates. There is several ways to do this.

- define a filter according to which all the displayed dates will be tried to format or
- select some of the dates and then define a filter for selected dates or
- select one date and use the lowest edit box to reformat just this selected date.

To select dates which are in a same format in the left-hand column use *Ctrl* to pick similar dates. If there is continuous list you want to select use *Shift+arrow*. To undo all selections press *Esc*.

It does not matter which date separator is used. Several date, which are on the same format can be converted at the same time.

For example:

- Dates 01-03-2000, 15 06 2002 and 10/10/2001 can be selected and fixed at the same time, if all of these dates represent the same format dd.mm.yyyy.

Conversion tool assumes that year 00-03 represent year 2000-2003.

For example:

- Date 20/02/02 trough filter dd-mm-yy will be interpreted as 20-02-2002.
- Date 15/03/04, using the same filter, will become 15-03-1904.

**NOTE**

Equalized rows will become grayed and they will be placed at the end of the list.

To reformat dates click the Format Dates button. Invalid dates will not be reformatted.

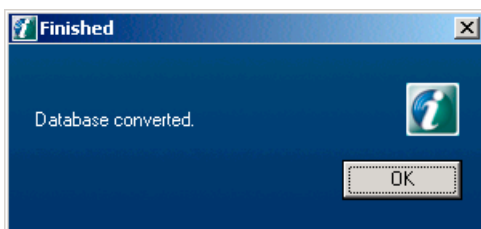
If there is a date which can not be formatted with the filter, select it from the list and correct it by using the lowest edit box and press the Add Date button. You will be informed about invalid dates.



After reformatting dates check the PMS bridge checkbox if CliniView has been used with some other PMS software. Start the conversion after this by clicking **OK**.

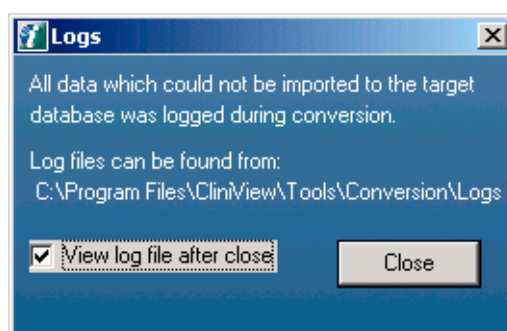
**NOTE**

OK button will be activated after birth date reformatting is done once. It is not necessary to reformat all birth dates, but dates which are not formatted will not be converted to the new database!



Click OK.

If log files were created during conversion there will be displayed the next dialog:

**NOTE**

There may be several log files in the conversion tool logs directory. Checking View log file after close-option displays only the most important of them.

4.2 Upgrading from CliniView version 5.0 to 5.1

4.2.1 CliniView upgrade from CliniView 5.1 CD-ROM

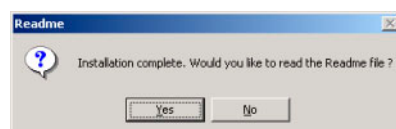
**CAUTION**

The backup of the whole database is strongly recommended prior to upgrading.

CliniView can be upgraded to the latest revision by running setup.exe. First close all softwares. Insert CliniView Installation CD into the CD drive. In case the autorun function doesn't start installation run Setup.exe from the CD by clicking Start / Run and typing setup.exe. There is no need to uninstall earlier version before upgrading.

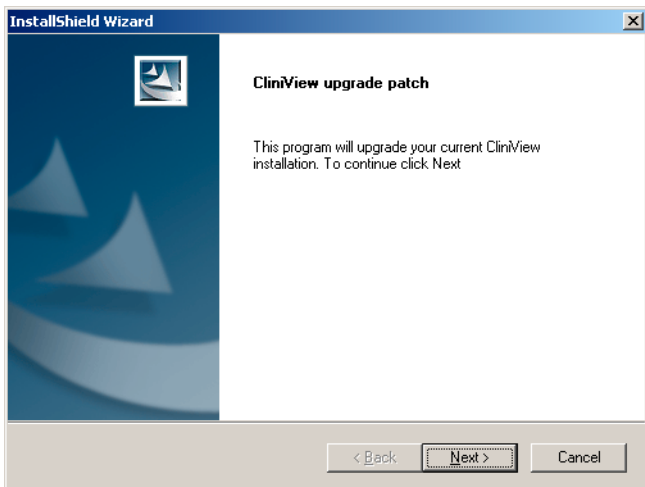
Setup program informs the user about the older version and the upgrading will be done.

When completed, choose whether to read the Readme file or not and then restart the computer.

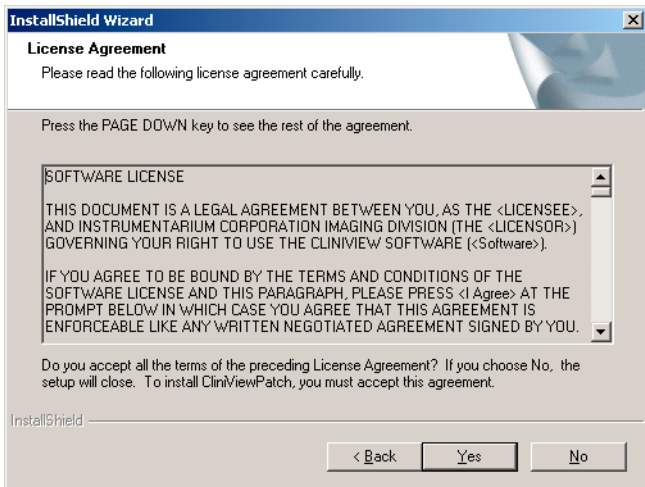


4.2.2 CliniView upgrade using CliniView 5.1 upgrade patch

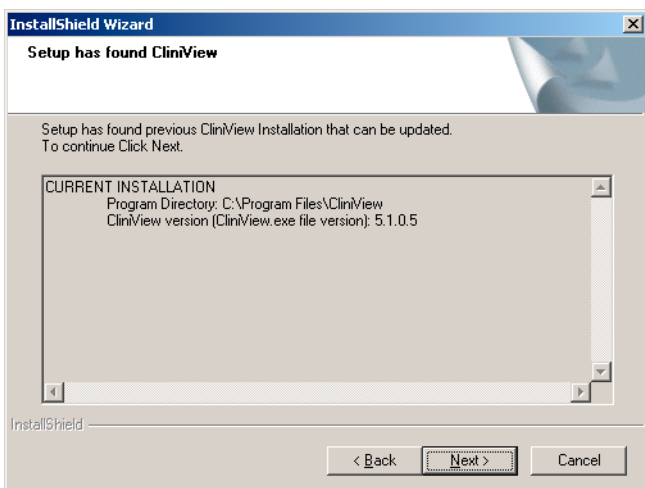
Download CV50_Upgrade_to_CV51.exe file for example from Instrumentarium's web-site. start CV50_Upgrade_to_CV51.exe.



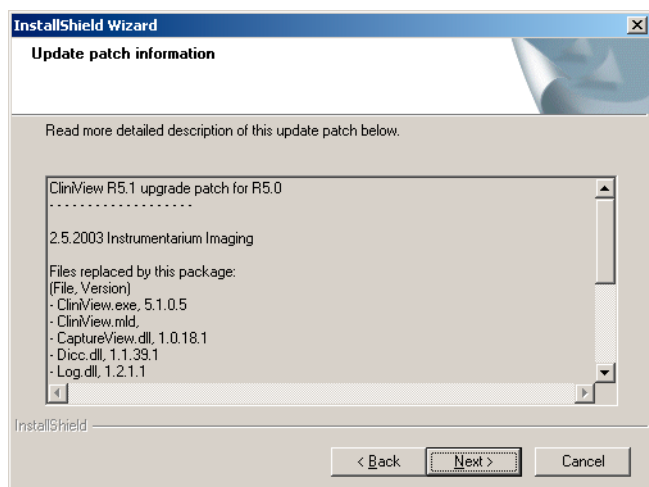
Click **Next**.



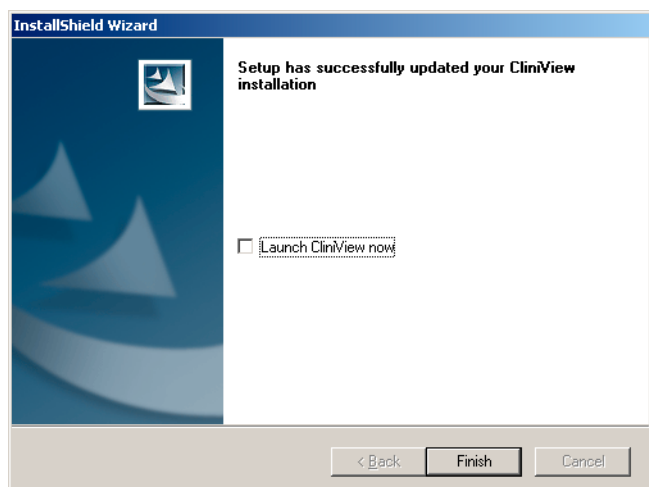
Click **Yes**.



Click **Next**.



Click **Next**.



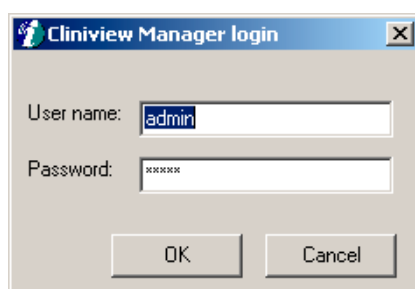
Click **Finish**.

5 CliniView Manager

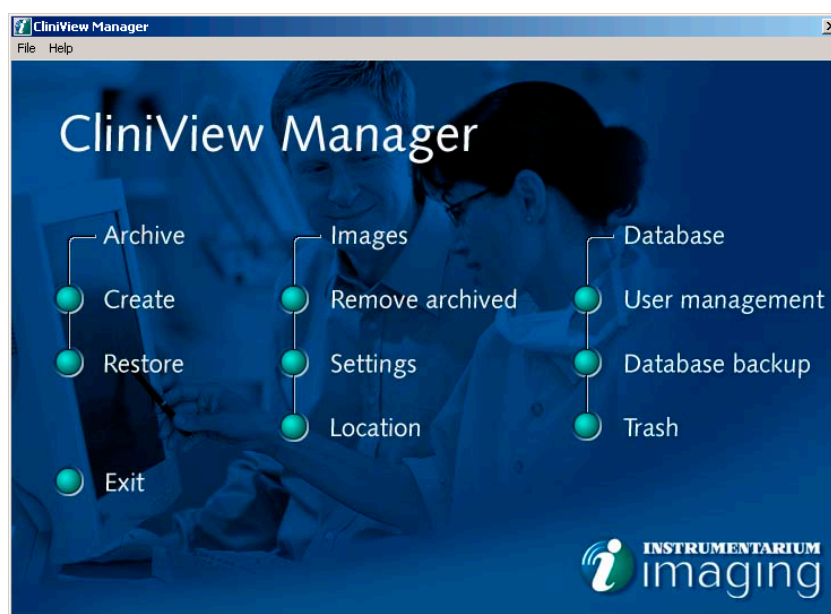
CliniView Manager is used to manage archives, alter image viewing settings, manage users, schedule frequent backups and manage trash.

5.1 Login

CliniView Manager is password protected to prevent unauthorized usage.



Enter user name, password and click **OK**. Default user name is admin, and password is admin.

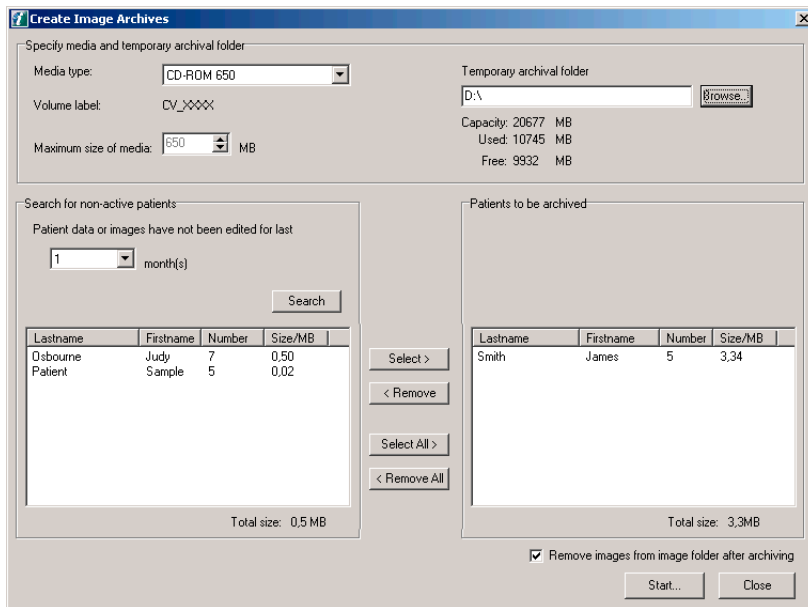


5.2 Archiving

To release hard disk storage space on the server, the unused images can be copied or moved on a archive media. The information and scout images of these images will remain in the database allowing easy retrieval whenever it becomes necessary to view any of those old images.

5.2.1 Create archive

To archive images select *Create* from CliniView Manager dialog.



Select media type for archiving. Specify the maximum size of the used media, so that the program can device the data to fit in the media. Select temporary archival folder.

Define the time for non-active patients. Example: if you select non-active patients or data within past 6 months, the program will offer all images of those patients to be archived.

Select the patients whose images you want to archive. Select also if you want those images to be removed from the patients image folder in the hard disk. Otherwise the archived images will be shown as archived images in the patients image folder.

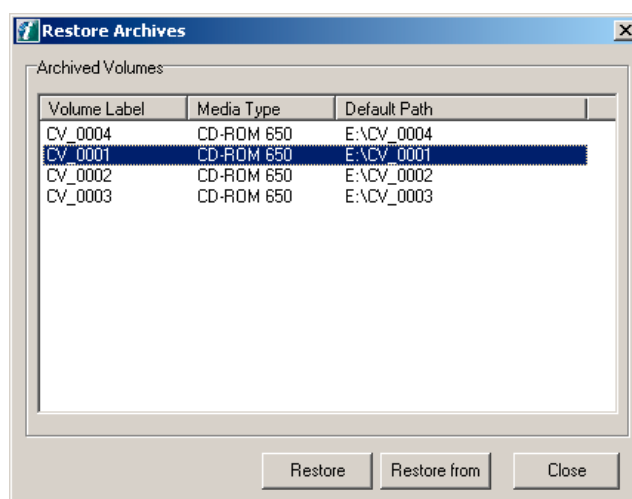
To start the archiving click **Start**.

Archive operation creates archive folders (CV_XXX) under temporary archival folder. To burn archived images to CD-ROM, use CD-burning software and burn CV_XXX folders to CD.

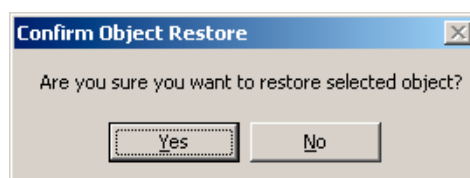
5.2.2 Restore archive

You can restore the archived images when the whole individual archive will be restored.

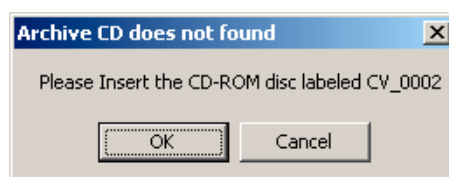
To restore the archive select **Restore** from the CliniView Manager dialog. To restore archive from other directory than in the list click **Restore from**.



Select the archive to be restored and click **Restore**.

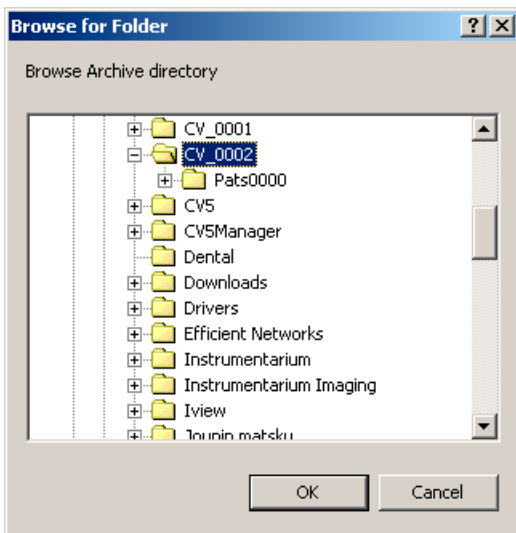


Click **Yes**.



If you forgot to put CD-ROM in to the drive, the program will remind you to do so. Put the CD in to the drive and click **OK**.

Browse the directory for archive.



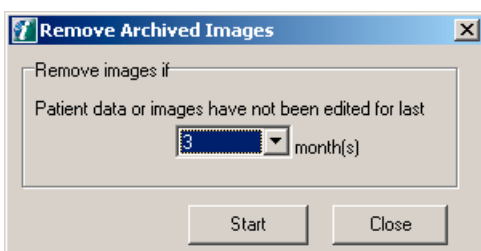
Select the folder and click **Yes**.

5.3 Images

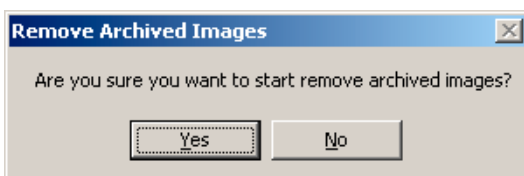
5.3.1 Remove archived

Previously archived images can be removed from the server to free up more storage space. You may select the selection criteria between 0 to 12 months of time where as the patient's images have not been reviewed.

To remove the archived images from the patient image folder select *Remove archived* from the CliniView Manager dialog.



Select the appropriate time and click **Start**.



click **Yes** if you want to start removing the archived images.

5.3.2 Settings

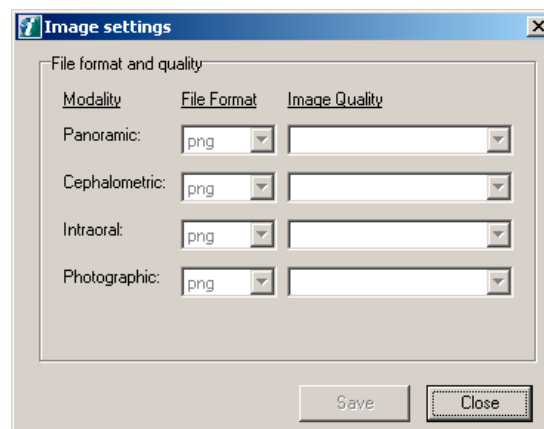
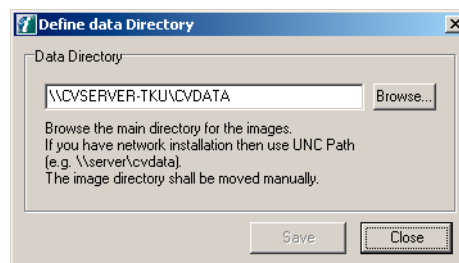


Image format for each modality is png.

5.3.3 Image folder location

To change data directory (images) select *Location* from CliniView Manager dialog.



Create new data directory and share it (if network installation).

Copy all files and subdirectories from main directory (e.g 'CVDATA') to the new data directory.

Browse the new data directory and click **Save**.

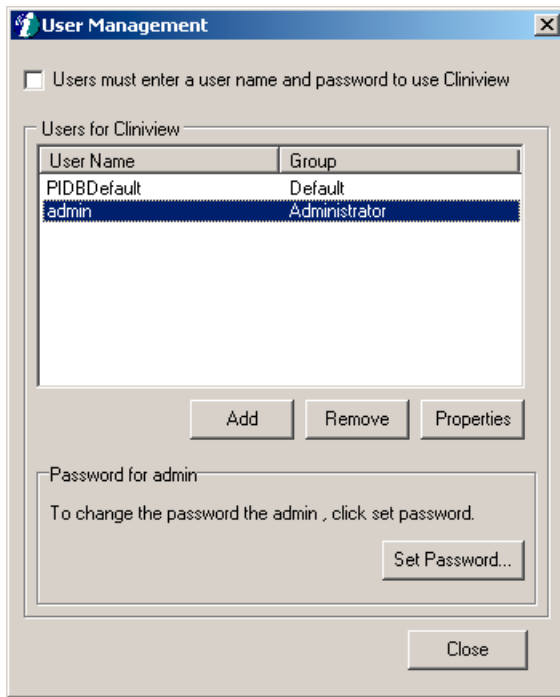
Note: Be sure that CliniView is not used when you change data directory.

5.4 Database

5.4.1 User Management

User management makes possible to define categories for different users and define passwords for each user.

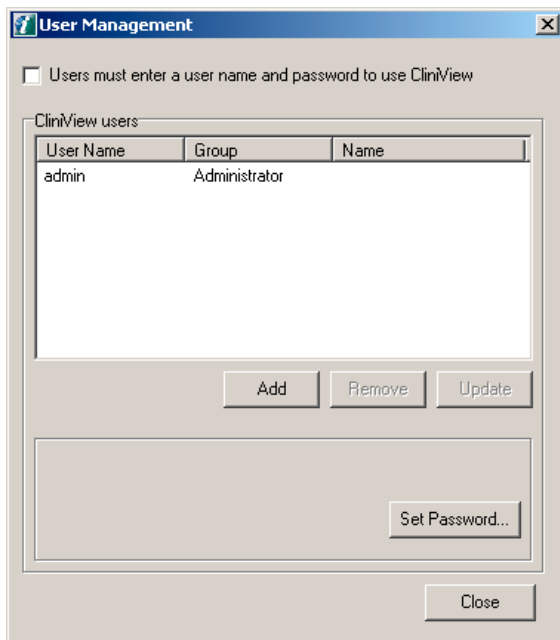
Select *User management* from the CliniView Manager dialog.



Administrator category means that the user has right to both CliniView and CliniView manager. Users in default category are entitled to start CliniView program only.

Mark the upper left corner to activate the user management function. You can add and remove users.

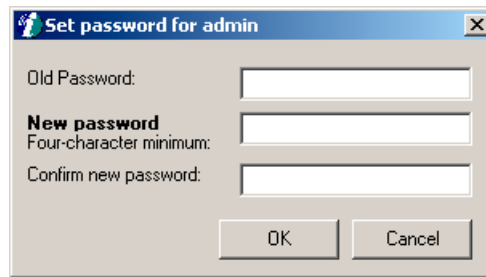
To add user click **Add**.



Select the name of the user from the list or click **Add** to create new user.

Enter the information for the new user and click **OK**.

To change the password for user click **Set Password**.



Fill in the fields and click **OK**.

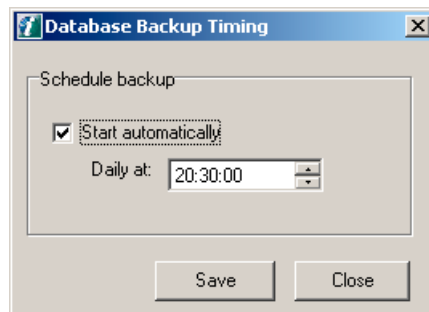
5.4.2 Database backup

Choose the schedule for automated backup of the Database table.

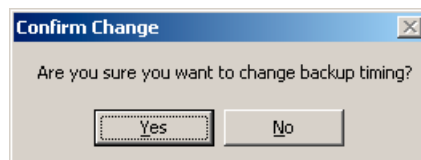


NOTE

This function does not create backup of the images.



Define the schedule and click **Save**.

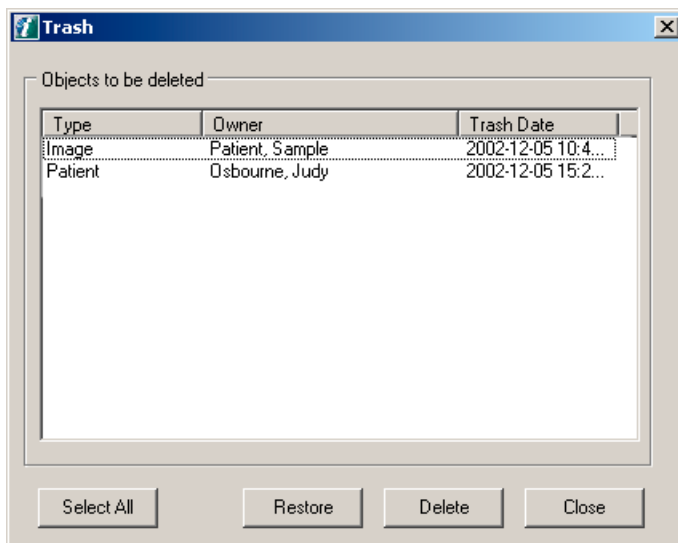


Click **Yes**.

5.4.3 Trash

Various objects that have been previously marked as deleted in CliniView can be permanently deleted from the database in the trash menu. This means that CliniView user can not permanently delete any information unless the administrator empties the "deleted" information from the trash.

Select *Trash* from the from the CliniView Manager dialog.

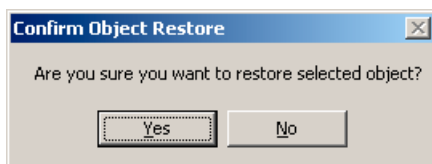


Select all

All objects can be selected to be deleted.

Restore

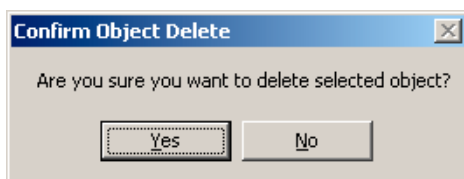
Removed information can be restored back for usage.



Confirm the restore.

Delete

Information is deleted permanently.



To confirm the removal click **Yes**.

6 End user license agreement

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7 Using practise management interface

Introduction

CliniView uses an initialization file called CliniView.ini. This file is installed in the \WINNT folder in Windows 2000 systems or in the Windows folder in Windows XP systems.

CliniView 5.0 or later installation directory and executable path is defined in windows registry.

HKEY_LOCAL_MACHINE\SOFTWARE\Instrumentarium
Imaging\CliniView

- *ProgramDir*-CliniView path, for example C:\Program Files\CliniView
- *ExeFile*- CliniView executable, for example C:\ProgramFiles\CliniView\CliniView.exe

Earlier versions of CliniView (before 5.0) uses program directory defined in CliniView.ini (Windows directory)

Example:

[Settings] ProgramDir=C:\Instrumentarium Imaging\CliniView\

When you start CliniView, the settings are read from the CliniView.ini configuration file. You are allowed to run only one instance of CliniView on a computer at a time. If you start CliniView while CliniView is already running, no additional instances of the program are started. However, the already running CliniView reads the Practice Management Interface section of the CliniView.ini file and acts accordingly. Finally, CliniView sets all entries in the Practice Management Interface section to 0.

The Practice Management Interface section in the CliniView.ini file is described below.

The mandatory fields are:

USE_PRACTICE_MANAGEMENT:

If set to 1, CliniView reads the Practice Management Interface section at startup and on activation and users are not allowed to change or add new patients manually from the CliniView user interface

CLEAR_PRACTICE_MANAGEMENT_AUTOMATICALLY:

If set to 1, CliniView resets USE_PRACTICE_MANAGEMENT and the patient keys every time CliniView reads the cliniview.ini file. If set to 0, CliniView does not reset (to 0) the keys.

PATID:

Patient ID shall be unique and defined by PMS software. Practice Management Interface

PATDB defines date of birth, which shall be formatted as defined in system regional settings.

CLEAR_PRACTICE_MANAGEMENT_AUTOMATICALLY=1
USE_PRACTICE_MANAGEMENT= 1

PATID = 00000

PATLNAME = 0

PATMNAME = 0

PATFNAME = 0

PATSOCSEC = 0

PATBD = 0

PROVIDER1 = 0

PROVIDER2= 0

ADDRESS1 = 0

ADDRESS2= 0

CITY = 0

STATE = 0

ZIP = 0

HOMEPHONE = 0

WORKPHONE = 0

FAX = 0

EMAIL1 = 0

EMAIL2 = 0

Some PMS software that uses previous versions of CliniView might require that USE_PRACTICE_MANAGEMENT is permanently set by the user to 1 and that CLEAR_PRACTICE_MANAGEMENT_AUTOMATICALLY=0.

It is highly recommended that the PMS application sets both USE_PRACTISE_MANAGEMENT=1 and CLEAR_PRACTISE_MANAGEMENT=1.

How to use CliniView.ini

Set CLEAR_PRACTICE_MANAGEMENT_AUTOMATICALLY=1, if the PMS software automatically sets USE_PRACTICE_MANAGEMENT = 1. Otherwise, set the key to 0.

To add a patient:

- Set USE_PRACTICE_MANAGEMENT = 1 .
- Set PATID to a patient ID that does not exist in the CliniView database yet.
- Fill in the patient data fields
- (Re)start CliniView

To alter patient information:

- Set USE_PRACTICE_MANAGEMENT = 1
- Set PATID to match the patient whose information you wish to change.
- Fill in the patient data fields you wish to change.
- If you do not wish to change the content of a specific data field, set its value to 0.
- (Re)start CliniView

To pre-select a patient:

- Set USE_PRACTICE_MANAGEMENT = 1
- Set PATID to match the patient you wish to pre-select.
- Set all data fields to 0.
- (Re)start CliniView

To disable the practice management interface:

- Set USE_PRACTICE_MANAGEMENT = 0

Interface to access image information

CliniView supports external application called PMSif which provides direct access to images in CliniView database. CliniView.ini has four fields which can be used together with PMSif to export the image.

[Image]

ActiveImageGUID=

ActiveImageID=

LastCaptureID=

LastCaptrueGUID=

Use ActiveImageGUID or ActiveImageID to export the image visible in currently active image window from database. ActiveImageGUID is preferred over ActiveImageID (retried). Use LatestCapturedImageID to export latest captured (saved) image from database.

LastCaptureID and LastCaptureGUID are visible after the first image is captured.

See Instrumentarium Imaging web page to get additional information of PMSif interface.

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Instrumentarium Imaging is constantly improving its products and reserves the right to change these specifications without notice.



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