

1 Operation

Image Bridge is a plugin for imaging programs (e.g. Sidexis) for the control of imaging devices from Dürr Dental (VistaScan, VistaRay, VistaCam).

2 Installation

2.1 Minimum system requirements:

Imaging programs	Sidexis XG from Version 2.3 VixWin Pro from Version 1.5 VixWin Platinum from version 1.1
Computer system	See "System requirements for computer systems for imaging" (9000-618-148/01)

2.2 Requirements

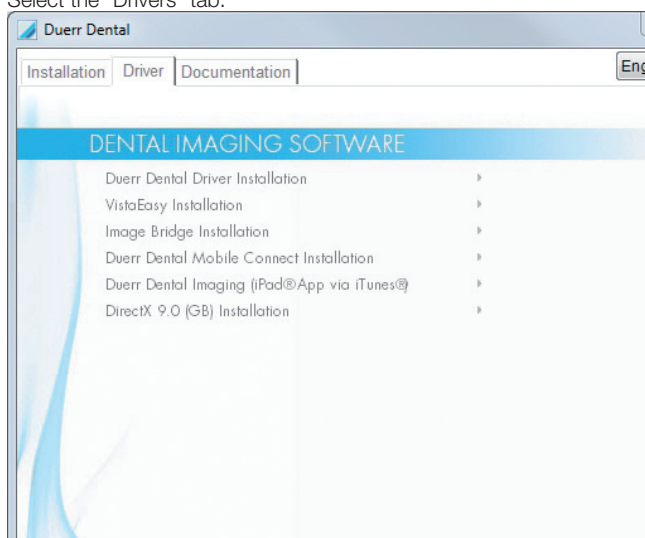
The following components are installed:

- One of the imaging programs
- VistaEasy from Version 5.2

The Dürr Dental imaging devices have been installed and configured.

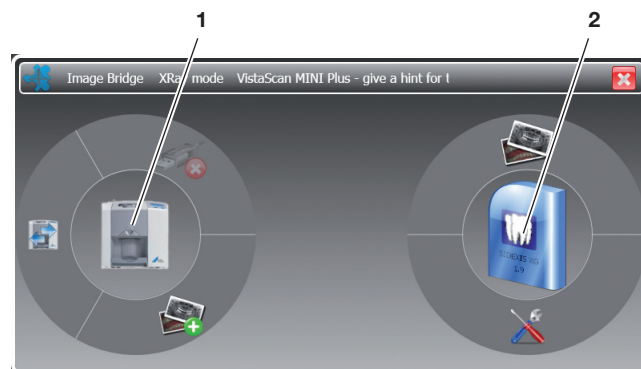
2.3 Installing Image Bridge

- › Place the DBSWIN DVD-ROM into the DVD drive.
The Start window opens automatically.
If the DVD does not start automatically, double-click the DBSWIN icon on "Workstation"/"Computer".
- › Select the "Drivers" tab.



- › Click on "Image bridge Installation".
 - › Confirm the message "Installing Image Bridge" with "OK".
 - › Perform the installation using the installation wizard.
- Two plugins are automatically installed in the imaging program during the installation:
- "Image Bridge X-ray" for VistaScan and VistaRay
 - "Image Bridge Video" for VistaCam

3 The interface



- 1 Selected device (e.g. VistaScan Mini)
- 2 Active imaging program (e.g. Sidexis)

3.1 Buttons



Select the device.
The button always displays the last device selected.



Record image.
Opens the scanning or video dialogue window.



Display recorded image
Displays all the images created since the start of the plugin.

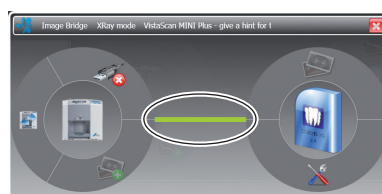


Settings
Configure Image Bridge



Terminate connection to device.
Terminates the connection to the device and closes the scanning or video dialogue window.

An active connection between the imaging program and the Dürr Dental device is indicated by a green connecting line.



4 Application

4.1 Start Image Bridge

- › Starting the imaging program.
- › Select the patient.
- › Start the plugin via the button or the menu, independently of the imaging program:

Image Bridge Plugins in Sidexis

Image Bridge X-ray



Utilities > Plugins > Image Bridge X-ray mode

Image Bridge Video



Utilities > Plugins > Image Bridge video mode

Image Bridge Plugins in Vixwin

Image Bridge X-ray



External programs > DuerrXray

Image Bridge Video



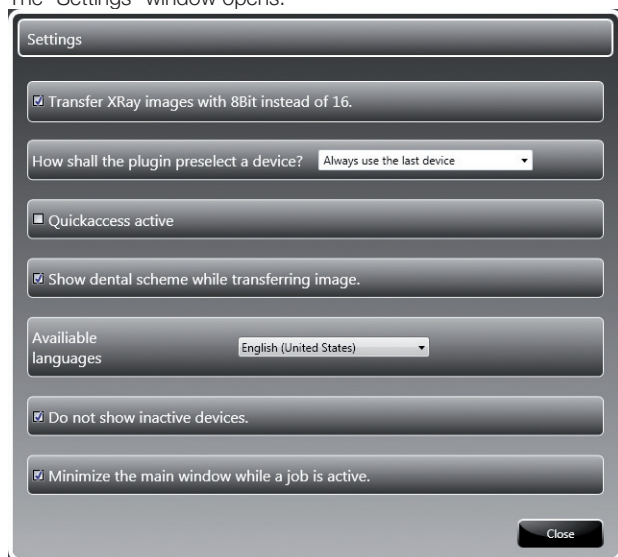
Plugins > DuerrVideoPlugins > DuerrVideo

4.2 Adjusting Image Bridge



The possible settings depend on the imaging program used.

- › Click on the  button.
The "Settings" window opens.



- › Perform the settings.
The following settings are possible:

"Transmit X-ray images with 8 bit instead of 16"	Reduces the number of grey scales in X-ray images (with Sidexis only)
"How shall the plugin preselect a device?"	Select whether a certain device should be preselected when the plugin is started
"Activating QuickAccess"	Image Bridge immediately opens the scanning or video dialogue window at the start. Image Bridge closes automatically when the dialogue window closes.
"Show dental scheme while transferring image"	The image can be directly assigned to a tooth/object type (with Sidexis only).
"Available languages"	Select the language.
"Do not show inactive devices"	Devices which are switched off or not connected are not displayed in the selection.

"Minimise the main window during an active job." The main window is minimised during the scan job and maximised automatically after it has been completed.
It can be maximised once again via the task bar.

4.3 Selecting the device

- › Click the "Select device" button.
The dialogue window for device selection opens.




- 1 Image of the selected device
- 2 Device selection
- 3 Device connection
- 4 Device name
- 5 Device status (active/inactive)

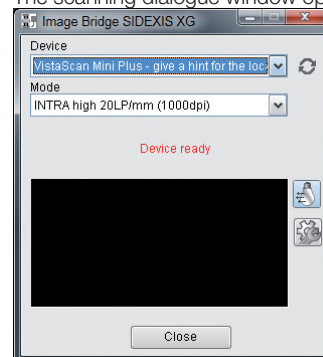
Move mouse pointer over "Devices".
The devices are displayed:





- › Select the device.
- › Select mode from the list "Available modes".
- › Click on the "Select" button.
The window closes.

4.4 Recording an X-ray image with VistaScan/VistaRay

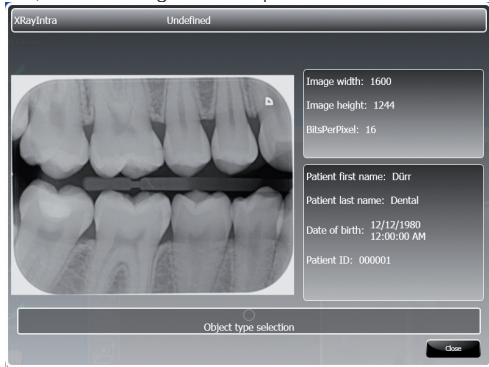
- › Start Image Bridge X-ray.
- › If no device or the wrong device was selected, select device.
- › Click on the  button.
The scanning dialogue window opens:



-  Activation / deactivation of the delete lamp
-  Troubleshooting

- › Read out image data (see device operating instructions).
The image data are automatically copied to the imaging program.

- › If the setting "Show dental scheme while transferring image" is activated, the recording window opens:



- › Move the mouse pointer over "Object type selection" and select a tooth.



- › Record further images if required.
- › Close the scanning dialogue window.
- › To end Image Bridge, click [X].
- › Save the image in the imaging program.

4.5 Recording a video image

- › Start Image Bridge Video.
- › If no device or the wrong device was selected, select device.

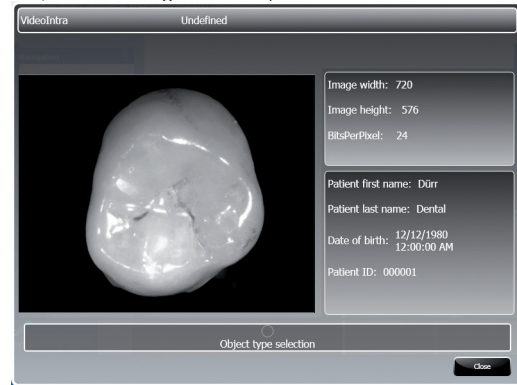
- › Click on the [Image Bridge] button.
The video dialogue window opens:



You can perform the following actions with the buttons::

- Select video source.
The previous video source is selected by default.
- Switch to Live mode.
Camera is in Freeze mode (still image).
- Switch to Freeze mode.
Camera is in Live mode (moving image).
- Record image (alternative to exposure switch or foot switch).
- Select full screen mode.
- Select and apply prophylaxis/caries filter (available with VistaProof only).
The button is only active if a video image is being displayed in Freeze mode (still image).
Caries view is enabled by default.
- Access the camera configuration: "Video settings" and ">Activate profile" (only possible with cameras that have a exposure switch).
- Image recovery
(see 5.3 Temporäre Datensicherung)
- Cancel the recording and closing the preview window.

- › Record image.
The image data are automatically copied to the imaging program.
- › If the setting "Show dental scheme while transferring image" is activated, the recording window opens:



- › Move the mouse pointer over "Object type selection" and select a tooth.

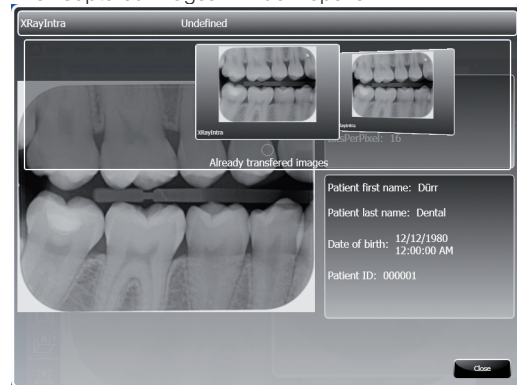


- › Record further images if required.
- › Close the video dialogue window.
- › To end Image Bridge, click [X].
- › Save the image in the imaging program.

4.6 Display recorded image

All the images recorded since the start of the plugin can be viewed again. These images have already been copied to the imaging program.

- › Click on the [Captured images] button.
The "Captured images" window opens:



- › Move the mouse pointer over "Already transferred images" and select an image.
The selected image is displayed in the window.
- › To close the window, click "Close".

5 Tips and tricks

5.1 Resetting the user interface in Sidexis XG (not Sidexis 4.x)

If the Image Bridge buttons are not displayed in Sidexis after the installation of Image Bridge, the user interface can be reset to factory settings. Under certain circumstances, the buttons can be displayed in Sidexis after a new start.



When performing the following steps, the entire Sidexis user interface is reset to factory settings.

- › Close Sidexis.
 - › Working under "C:\Sidexis" execute the file "UIReset.bat".
 - › Start Sidexis and check whether the Image Bridge buttons are displayed.
- Should the Image Bridge buttons still not be displayed, proceed as under point 5.2.

5.2 Registering Image Bridge in Sidexis manually

Requirements:

- Image Bridge has been installed
- The plugins are not displayed in Sidexis

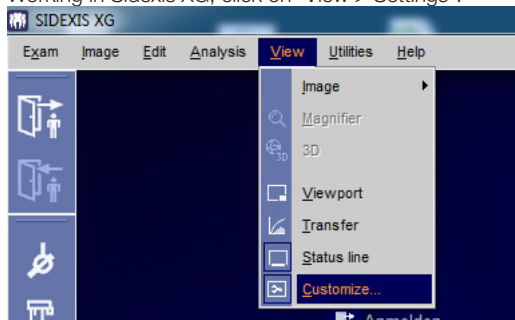


Sidexis XG and Sidexis 4.x have different opening procedures for the Plugin Manager.

The adding sequences for the Image Bridge Plugins in the Plugin Manager are identical.

Opening the Plugin Manager in Sidexis XG

- › Open Sidexis.
- › Working in Sidexis XG, click on "View > Settings".

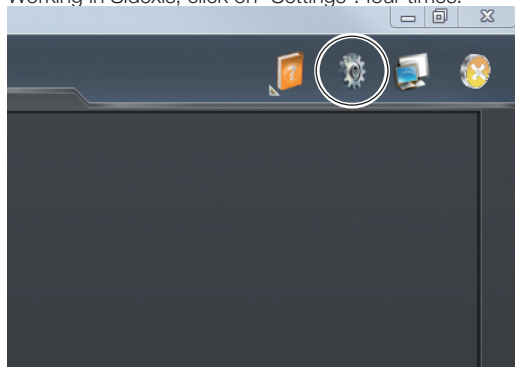


- › Change to the "Plugin Manager" tab and select "Plugin Manager".

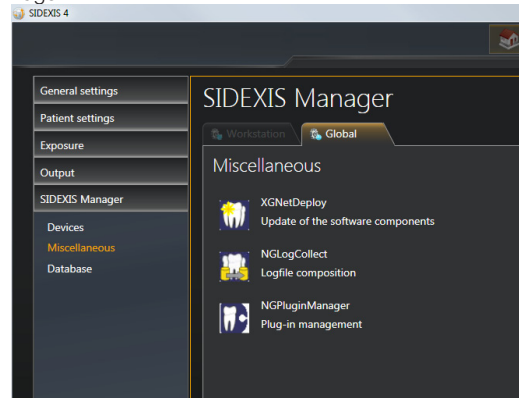


Opening Plugin Manager in Sidexis 4.x

- › Working in Sidexis, click on "Settings". four times.

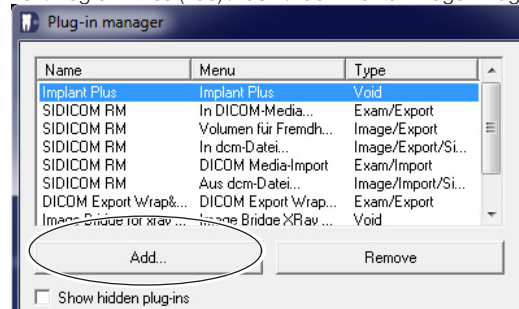


- › Navigate to "SIDEXIS Manager > Various" and select "NGPluginManager".



Adding plugins with the plugin manager

- › Use "Add" to select "SidexisVideoLauncher.exe" and "SidexisX-RayLauncher.exe" from the path "C:\Program Files (x86)\Duerr\Duerr Dental Image Bridge".

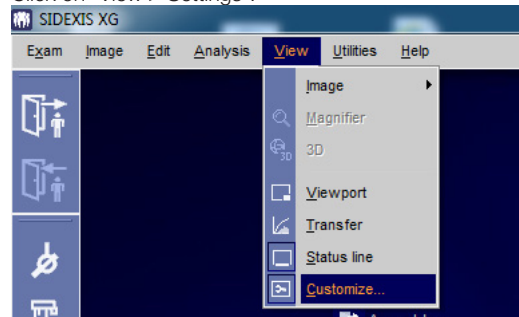


- › Close window.
- › Restart Sidexis.

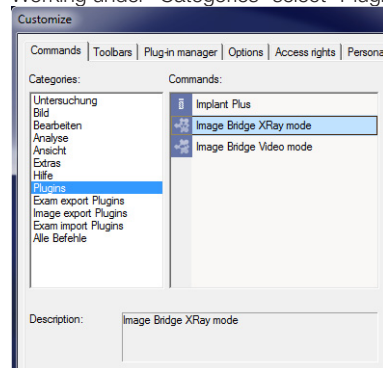
With Sidexis Xg, under certain circumstances it is necessary to add the plugins to the sidebar. With Sidexis 4.x the Image Bridge plugins are added to the start page automatically.

Adding plugins to the sidebar (only Sidexis XG)

- › Click on "View > Settings".



- › Navigate to the "Commands" tab.
- › Working under "Categories" select "Plugins".



- › Working under "Commands" click on and drag the entries "Image Bridge X-ray modules" and "Image Bridge video modules" to the sidebar.
- The plugins can be started from the sidebar immediately.

5.3 Using "QuickAccess"

"QuickAccess" immediately opens the scanning/video dialogue window when the plugin is started and automatically closes Image Bridge when the dialogue window is closed. This setting supports faster access when you always work with the same device.

- › Working under "Settings", activate the check box alongside "Activate QuickAccess".
- › Select "Always use a predefined device" under "How shall the plugin preselect a device?"..



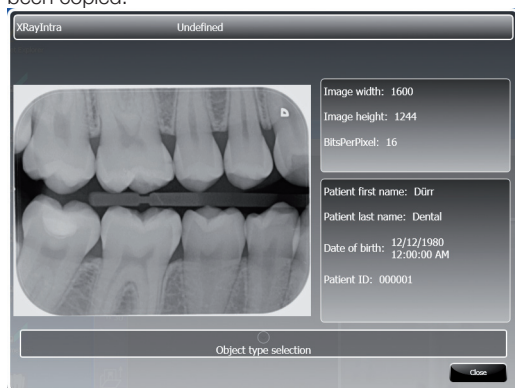
"QuickAccess" can also be activated / deactivated via the symbol in the info area of the task bar.

5.4 Copying images after a program crash

If Image Bridge was unable to copy the image data to the imaging program due to a program crash, the data are retained in the temporary data backup.

- › Starting the imaging program.
- › Select the patient to whom the images are to be assigned.
- › Start Image Bridge.

The recording window opens and displays the image that has not yet been copied:



- › Close window.
- Image Bridge copies the image to the imaging program.
- › Save the image in the imaging program.

5.5 Temporary data backup

All images you create with Image Bridge are stored for 14 days and can be copied to the Imaging program again. The assignment to the patient is saved.

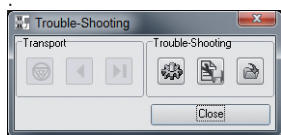
Only the pictures of the respective mode (X-ray or video) can be restored.

Opening image recovery for video images

- › Working in the video dialogue window, click on  Image recovery.

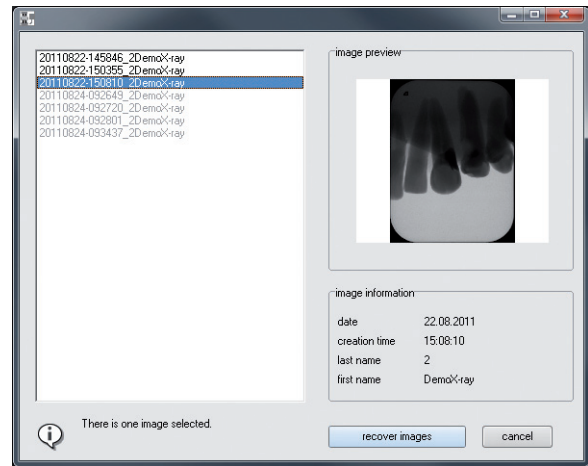
Opening image recovery for X-ray image

- › Working in the scan dialogue window, click on "Troubleshooting" 



- › Click on "Image recovery" .

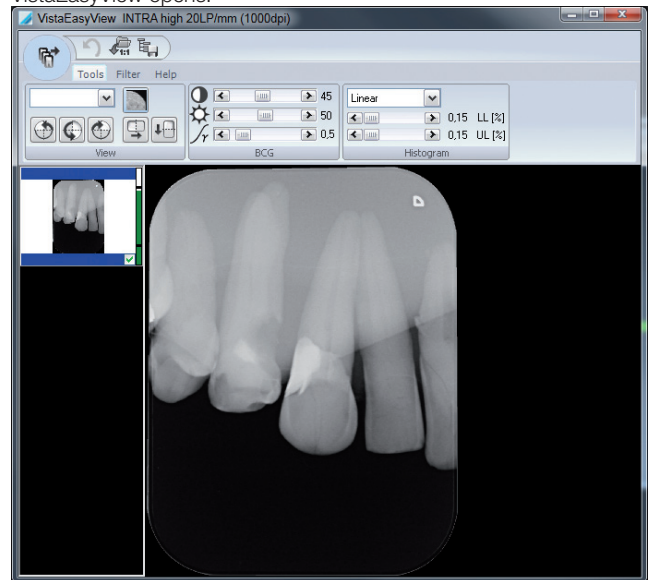
Restore image



The images of the other mode (X-ray / video) are displayed inactive (grey).
Change modus to restore these images.

- › Mark an image or multiple images.
- › Click on "Restore image(s)".

VistaEasyView opens.



- › Click .
- The images are transferred to the imaging program.