
























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# Light Table

## General

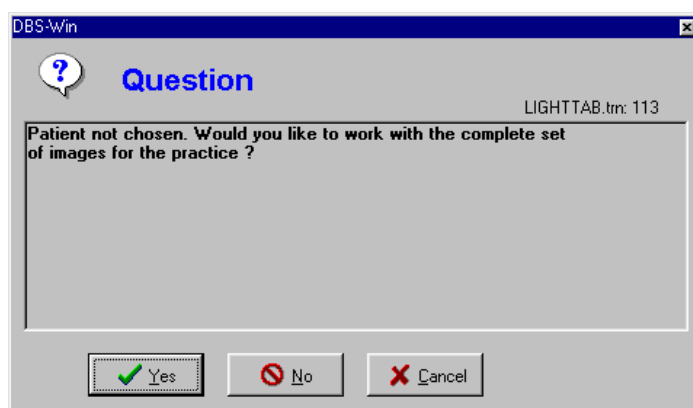
The light table allows free arrangement of images selected. You have the possibility to choose between a preset order, to arrange as required, to move, to enlarge and to process.

### Global Image Search

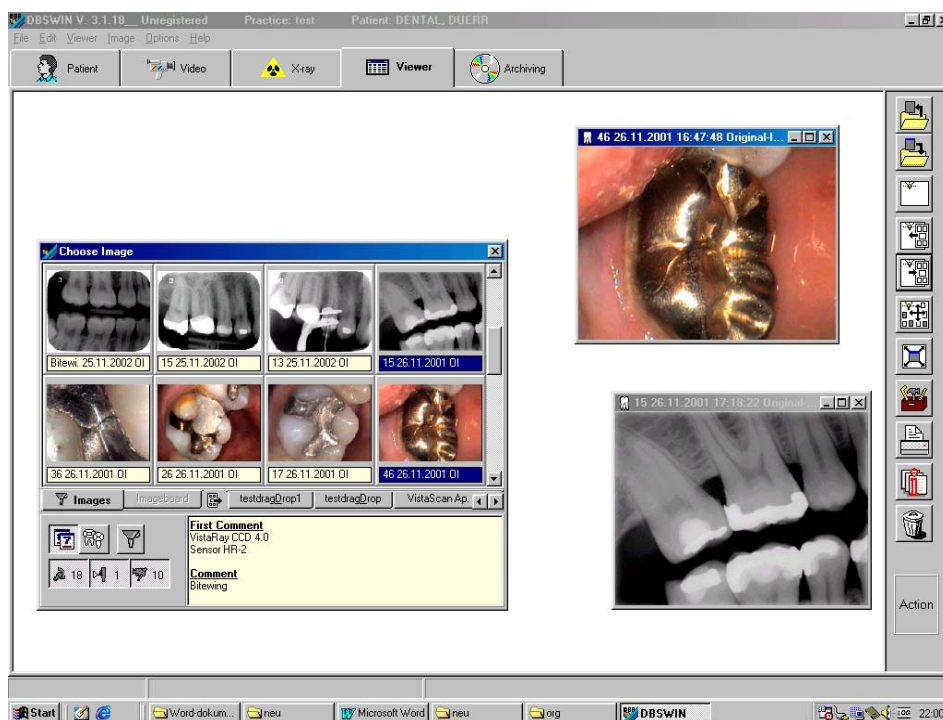
When transferring from the Patient Mode to the light table and no patient name has been selected, then it is possible to work with the complete image archive. For example, to look for a particular image.



Note that this process can take a longer period of time, where all the surgery images are to be displayed in the Image Selection Box.




# Light Table - Overview





# Functions



## Load Image (Menu image)

To load an image from the data bank onto the light table, click the icon . The Image selection box will now be opened.

When an image in the box is double-clicked with the left mouse key, it will be displayed full size on the light table. You now have the possibility of loading several images side-by-side onto the light table. Click and hold the left mouse key on the desired image in the **Image Selection Box**. Drag the image using the mouse onto the light table. The selection box disappears and the image is now ready for placing in any desired position on the light table in **Freehand Mode** . In **Preset mode**  it is only possible to place the image in an existing frame. If no empty image frames are open on the light table, Then load a **Mask**. After removing an image the image selection box reappears and a new image can be opened. Images can only be opened once. This is shown by the image information line which has a coloured background.



## Store image (Menu image)

Stores the active image, or its changes, to the archive.





## Clear Light Table (Menu Light Table)

Clears the light table (all images and frames are removed)



## Preset Mode



Click the icon  to run the preset mode. The current mode is displayed in the status line and shown via the icon .

The image frames cannot be dragged in the preset mode.

Using drag & drop, images can be moved from one image frame to the other. Move an image from its frame to a new frame that is occupied and release, the two images will exchange positions.



## Freehand Mode (Menu Light Table)

Click the icon  to run the freehand mode. The current mode is displayed in the status line and shown via the icon .

The image frames can be processed as desired on the light table in the freehand mode.



## Full image view (Menu image)

Shows current image as Full Frame

## Groups

Individual images of a patient can be collected together to form a group, e.g. to bring together important pictures of one treatment session or a series of sessions.



### Group Save (Menu Light Table)

When the current sequence of images on the light table is to be saved, select from the light table menu the option **"Save as Group"**. You will now be asked to assign a name to the new group. In the window below information concerning the group can be entered. Afterwards click **"Save"**. A group thus saved, can be loaded or changed and then saved under the same or under a different name.



### Group load (Menu Light Table)

To load a group select from the light table menu the option **"Load Group"**. The load menu with the available groups will be opened and the required group can be selected from the list. Position the mouse cursor over the name of the group to be opened and click the left mouse key then click **"Load"**.

### Group Delete (Menu Light Table)

To delete a group, select from the light table menu the option **"Delete Group"**. The list with the available groups will be opened and the required group can be selected from the list. Position the mouse cursor over the name of the group to be deleted and click the left mouse key then click **"Delete"**.

## Masks

A number of different masks (empty frames) can be organized on the light table simultaneously. This allows, for example, fast production of a standard sequence, without the need to organize the images themselves on the light table.




Images which are within the image frames will not be stored! These masks are independent of patient and are always available.



### Store Mask (Menu Light Table)

To produce a new **Mask**, arrange the images in the desired sequence on the light table. Select from the light table menu the option **"Save as Mask"**. You will now be asked to assign a name to the new **Mask**. Afterwards click **"Save"**.

This saves the image frames without the images. In the case that you need to load the defined object exposure automatically when loading the layout into the appropriate image frame (e.g. semi-status), then this image frame must be assigned an Object Type Number before saving. This can be achieved by copying an available Intra-Oral image tooth 14 (object type number) and then using paste. The imported image must now be assigned the required Objekt type by using the Image info function . This process must be repeated for all the desired objects in the semi-status. After saving under an appropriate name this layout will be available for the automatic loading of all the newest, matching images.



### Load Mask (Menu Light Table)

To load a mask, select from the light table menu the option **"Load Mask"**. The load menu with the available masks will be opened and the required mask can be selected from the list. Position the mouse cursor over the name of the mask to be opened and click the left mouse key then click **"Load"**.


**If you want the layout to automatically select the newest, matching images, mark the appropriate option field *Load latest images*.**

### Delete Mask (Menu Light Table)

To delete a mask, select from the light table menu the option **"Delete Mask"**. A list with the available masks will be opened and the required mask can be selected from the list. Position the mouse cursor over the mask name in the list and push the left mouse button. After that click the delete field.



### Image Processing (Menu image)

An active image can be processed by clicking the symbol  or by double-clicking the current image. Please read the section Image Processing for information on the relevant functions.




### Print (Menu Light Table)

This option in the light table menu allows an image or number of images on the light table to be printed. For further information read the chapter "Printing" in the handbook or Help.



### Image Information (Menu Image)

In order to enter or amend information on the current image, click the symbol . The image information box for the current image is now displayed.

Information concerning the image can be entered on the page *Comment*. Clicking the right mouse key or using the keyboard combination allows access to the text.

The page *ImageInfo* displays information such as Image Type, Image Size, Object type (i.e. tooth number) and Object Range (i.e. tooth range). Clicking the option *Object type/Select* it is possible, for example, to select the tooth number of the „main object“ and confirm choice with *OK*. Entering the object range now displays the main object with blue background and you can continue to mark teeth which are within the area of the image. All objects marked will be displayed textually in the field *Area*, whereby those objects which run consecutively within one quadrant will be represented with a dash between the first and the last object in the group (e.g. 12,13,14 -> 12-14).

The production details to the image are displayed on the page *Details*. Additionally, the operator responsible for the image is also listed.

On the page *X-ray parameters* are listed all the values entered up to the current time and these can also be amended.



### Delete Image (Menu Image)

A picture can be deleted only if it was archived in the DBSWIN-archive buffer and is not yet subject to a legal preservation time (e.g. X-ray images)! DBSWIN inquires at each picture, whether the picture should be hidden only. That is to say, the picture is indicated in the image selection box as long as no more Hidden pictures are indicated in the field *configuration/modules/lighttable*. As soon as the picture is loaded on the light table, the picture is hidden, but it is always indicated in the image selection box .



### Drop Surface

If, using DRAG&DROP, one or several images have been drawn to this area, then the following functions will be displayed in a list available for the image or images.

- Export
- Send Email
- Copy to image clipboard of Image Selection Box




In order to send Email, a SMAPI-Client (e.g. Outlook-Express) must be installed!



## Activate Image

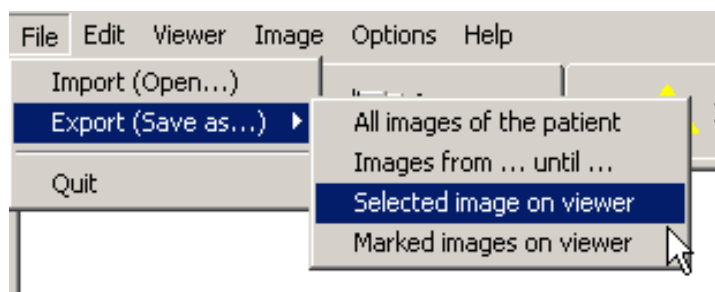
A simple click with the left mouse key activates the selected image (the color of the image line changes to active).

## File Import (Menu file)

This function allows images to be imported. After selecting this function a window drops down to allow you to select the appropriate image file. Then click the menu **Open**. The image is now depicted on the light table and can be processed. To save the image to the data bank, click the icon  (**save active image**). You must now assign an image type to the imported file, otherwise the image cannot be saved.

## File Export (Menu file)

This function allows images in various formats to be exported, e.g. to process these further or to make them available to other persons.

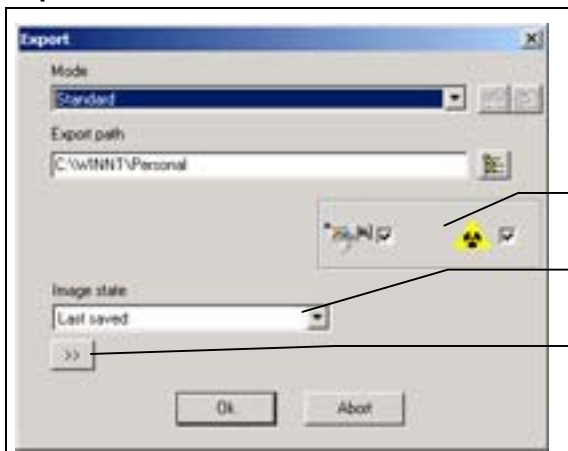
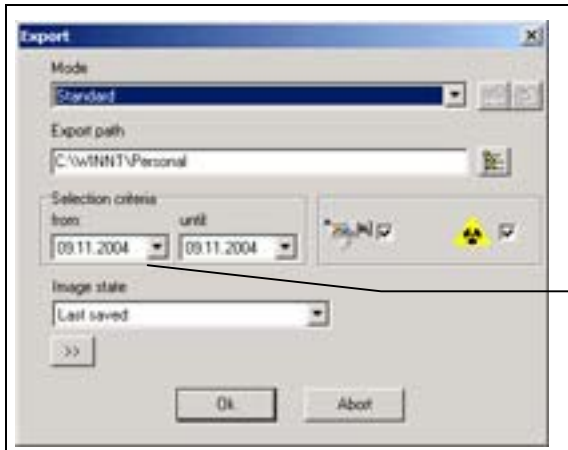
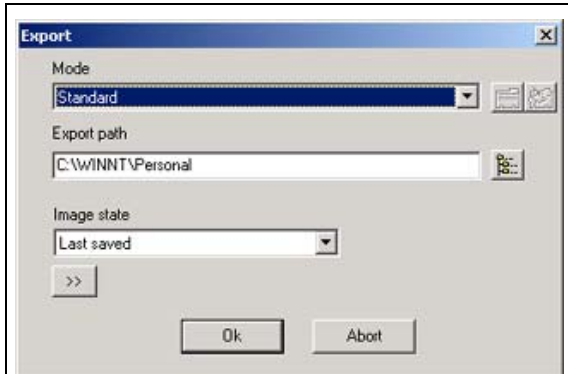


You can either confirm an available export mode (setting under *Configuration/Module/Light table*) from the list and select or confirm the directory where it is to be sent. If you want to use a different mode than that proposed in the predefined Image status for export then this can be selected from the list of options under *Image status*.

Detailed information concerning the image formats can be found under *Configuration/Module/Light table/Export-Email*.

Further selection criteria are explained in the following section.

## Export functions

	<p><u>All images of the patient</u></p> <p>Selection for Video and X-ray images</p> <p>Status of image to be exported</p> <p>Activate further function options! Only visible to system administrators</p>
	<p><u>Images from ... until .....</u></p> <p>Selection period of images to be exported</p>
	<p><u>Selected image on viewer</u></p> <p>Only the currently active image (blue background) will be exported!</p> <p><u>Marked images on viewer</u></p> <p>All images with red check mark will be exported!</p>

The system administrator has the possibility to amend all the parameters for current image export using the further options menu point.





Any changes made to the current mode will not be stored. This can only be carried out under *Configuration/Module/Light table/Export-Email!*

## Image status

All five image status *Original*, *First Saved File*, *Diagnosis*, *Last Saved* and *Current Status* can be exported.

All visible colored graphic elements present in the image on the viewer will be added to the exported image (burned-in)!







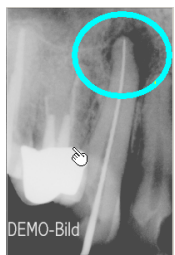
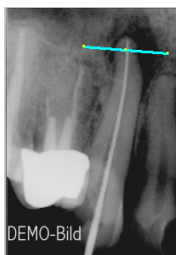
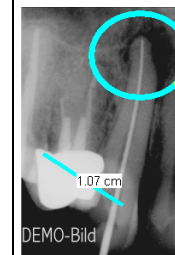
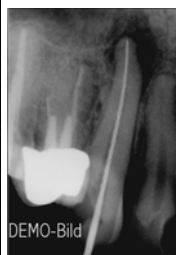

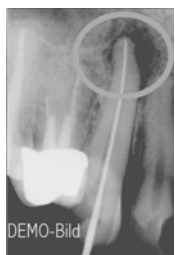

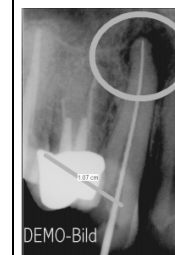
The image process box supports the following four levels of drawing, whose graphic elements can either be visibly presented singly (control box *On*) or all together (control box *All*) or be set as non-visible:

-  Angle measurements
-  Length measurements of lines and polygons
-  Density along a line or polygon
-  Text, line and closed lineal elements

### Examples of images exported under varying image status

Not visible = Drawing level is not visible or no graphic element present

Not possible = Image status does not allow drawing level

<b>Display</b>	<b>Original status</b>	<b>First image stored</b>	<b>Diagnosis</b>	<b>Last image stored</b>	<b>Current status</b>
	Not possible	Not visible	Not visible	Not visible	Not visible
	Not possible	Not visible	Not visible	Not visible	Visible
	Not possible	Not visible	Not visible	Visible	Not visible
	Not possible	Not visible	Visible	Not visible	Visible
<b>Image on viewer</b>					
<b>Exported image</b>					

## Duplicate Image (Menu image)

Creates a duplicate of the active image on the viewer.

## Assign Image (Menu image)

Opens the Patient List, so that an image can be assigned to another patient whose is listed in the patient directory. Archived images cannot be reassigned!

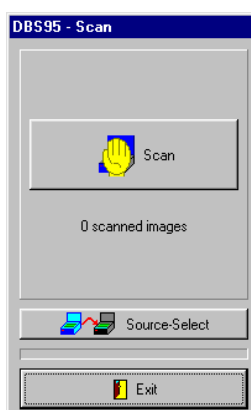
## Sort Images (Menu Light Table)

Automatic sorting of all images currently on the light table.


## Imaging (Menu Light Table)

The active image is tranferred to an external image editing program as call up parameter. The external image editing program available must be entered in *Configuration/Module /Lichttab/imaging*. After closing the Imaging program, the altered image will be displayed on the light table and can be stored as a duplicate!

## Scan image (Menu Light Table)



You have the possibility to get images from a TWAIN-source (i.e. Lightscanner etc.). After selecting this function the DBSWIN-SCAN window opens where you can select the TWAIN source and activate the image scanning. All the images taken will be shown on the lighttable after closing the DBSWIN-SCAN window.

To save the image to the data bank, click the icon  (**save active image**). You must now assign an image type to the imported file, otherwise the image cannot be saved.

## Marking Images


You can mark images with a check: **Ctrl-key and click inside the image area.**

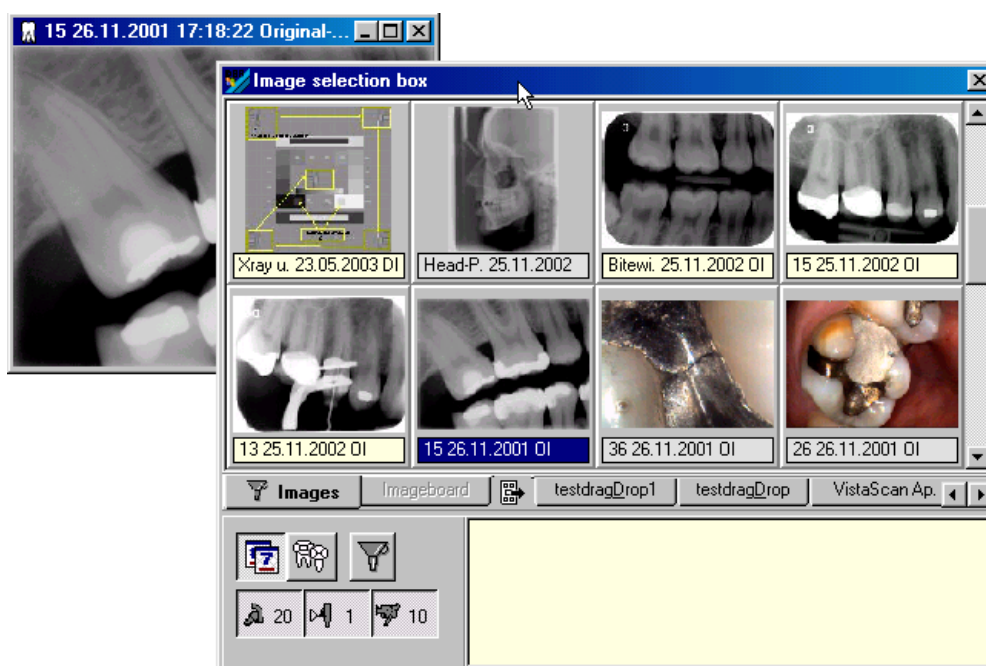
The image to be marked in this way can be in the Image Selection Box or on the light table. If an image is marked from the light table, then the thumb image in the Image Selection Box will also be marked and vice versa.

An image or all images marked in the Image Selection Box or on the light table can then be saved, saved as a group, deleted, exported, sent as Email or copied to the image store in the Image Selection Box.

The various functions *Save*, *Save as group*, *Delete*, *Export*, *Send as Email* and *Copy to Image Selection Box* for images marked as above are available as

- Ctrl-key+DRAG&DROP
- ContextMenu/MarkAll
- MainMenu/Lighttab/ MarkAll

Images marked in the Image Selection Box will only be accepted from option field  (DROP) by DRAG&DROP.



## Image selection box

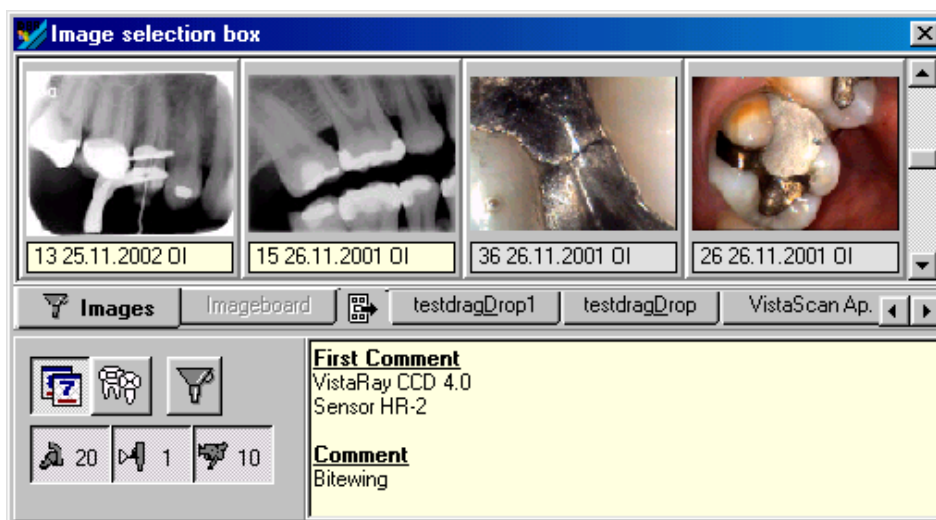
The size of the image selection box can be varied by dragging the box at the borders, edges or separation line of the image section (see arrows). These settings will be stored.

The Image Selection Box can be brought up to date under Contextmenu/Update (right hand click). Hereby those images are also displayed which may have been taken at other stations in the intervening time.

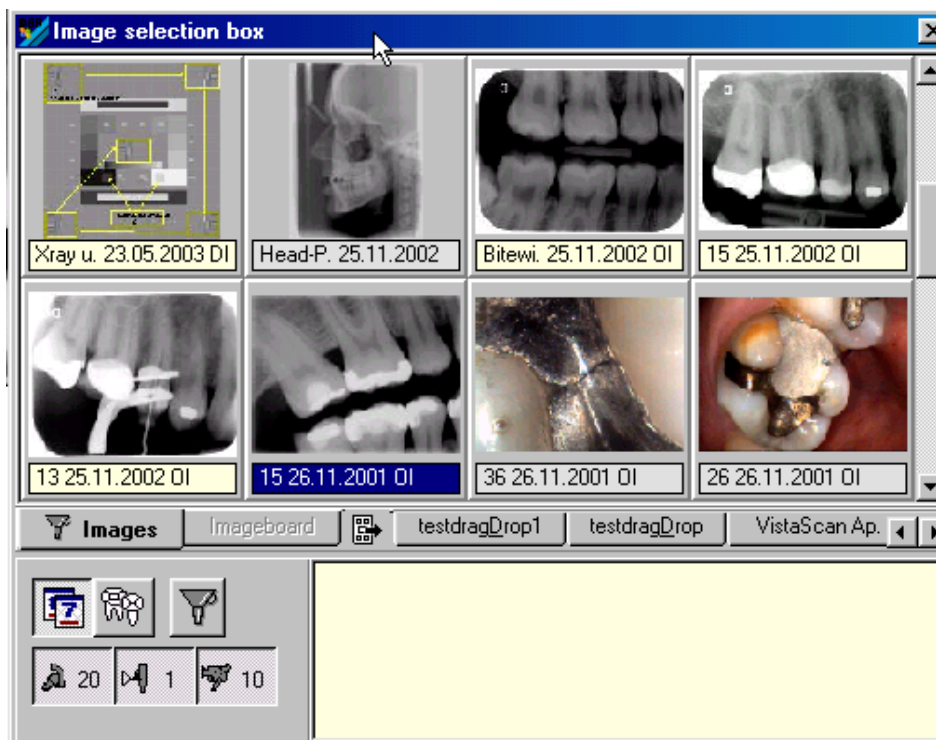
The **Image Selection Box** can be opened by selecting .

The **Image Selection Box** enables you to choose the required image from those saved for displaying on the light table.

i.e. with one row of images



or two rows of images



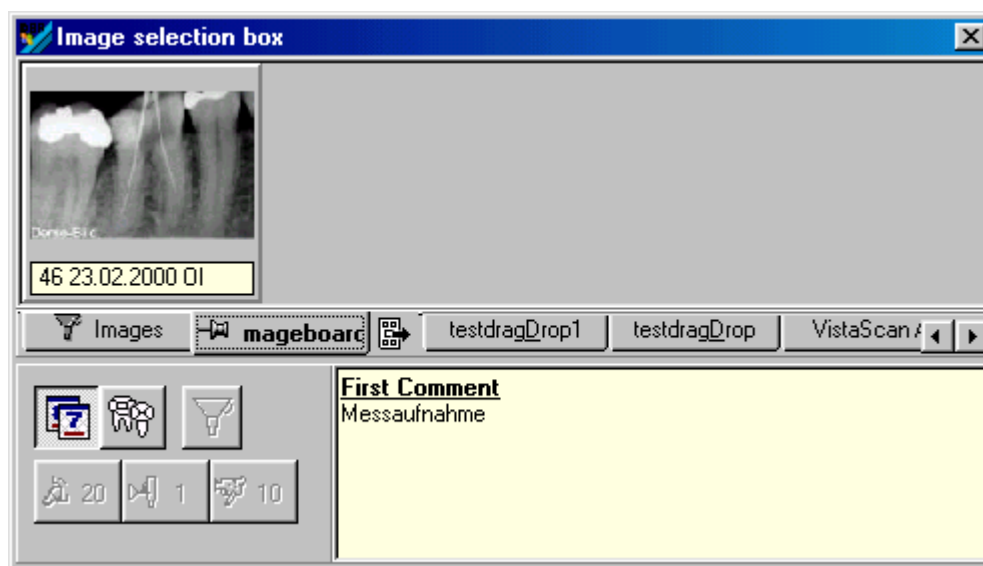
## Display Bar


The Display Bar allows one to choose between displaying all images, those images in the image archive buffer images stored as group images for a particular patient and back.



The image archive buffer serves to temporarily store selected images. When images are transferred to the light table (e.g. from either the Patienten, Video or X-ray modules), then these are automatically copied to the filing tray. This allows immediate access to the images. It is also possible to select a particular image from the Image Selection Box or from the light table and to copy this into the filing tray. The current contents are deleted as soon as new images are copied into the filing tray.

The option button *image board* is inactive when there are no images present.



To the right of the symbol  are displayed the options available for the image groups. A group of images can be loaded by using the option for DRAG&DROP and loaded onto the light table. Clicking the appropriate option button allows the image group to be displayed in the Image Selection Box.








## Sorting of images

The images can be sorted according to date of creation or object type.

It is also possible to use a filter on the selected image. This is recommended, when a large number of images of the patient are available.




Globale image selection filter

To activate filter selection, click one of the icons  (Intra),  (Extra) or  (Video). The appropriate filter selection box will then be displayed.




## Extended image selection filter

After activation of the button  the filter selection box with all image types available will be shown.

Teeth to which an image already exists are highlighted in the tooth overview. Clicking the cursor over the relevant tooth loads the appropriate image. It is possible to select images from the three areas INTRA, EXTRA and VIDEO separately, so that only the required images are listed in the image selection box. Panorama, distance X-rays and other images can be loaded by marking the appropriate box.

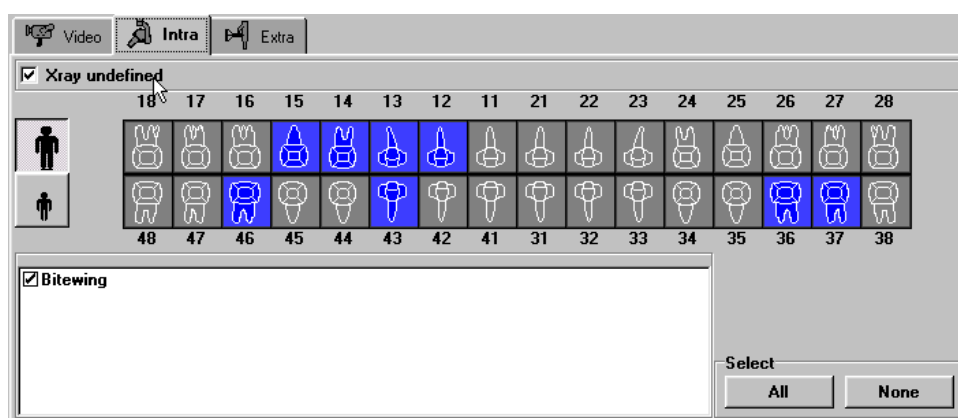
Additional selection criteria for filtering the display of images can be entered and activated for all types of image.



☐ Images with comment <Without comment> ☒ Original ☐ Search for object type in region too  
☐ Images between 24.08.03 and 23.09.03 ☒ Duplicate



## INTRA-Filter settings



☒ Xray undefined  

18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28
48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38

☒ Bitewing



## EXTRA-Filter settings

Video Intra Extra

☒ Xray undefined



































Panorama	Fernröntgen	Other
	<input checked="" type="checkbox"/> Head-PA	

Select  
All None

## VIDEO-Filter settings

Video Intra Extra

☒ Video undefined

	18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28
																
																
	48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38

Select  
All None