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Printing

Setting up a printer


 Before you begin with the printer setup in DBSWIN, a printer should already be installed in the Windows operating system. For further information on printer setup under Windows, consult the Windows on-line help or the Windows manual.

The printer setup under DBSWIN must be performed at each workstation!

Activating the Print dialog box

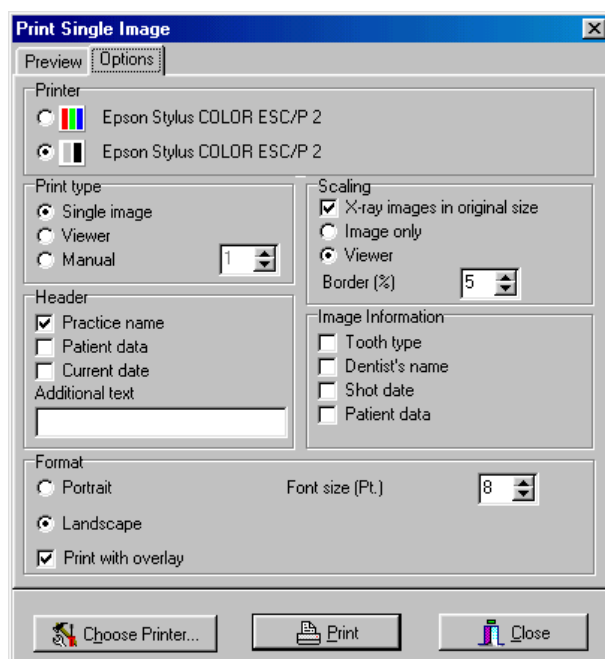
The dialogs or menu items described below can be activated if there is at least one image on the light table.

There are three ways to activate the Print dialog box:

1. It can be called up via the menu bar under Image/ Print or Light table/ Print
2. By clicking on the image to be printed with the right mouse button and then clicking on Print with the left mouse button
3. By clicking on the Print  pushbutton. A selection menu is displayed. Choose either image or Complete light table

Click on the *Options* tab when the Print dialog box is activated to access other settings.




Dialog box Print/ Options



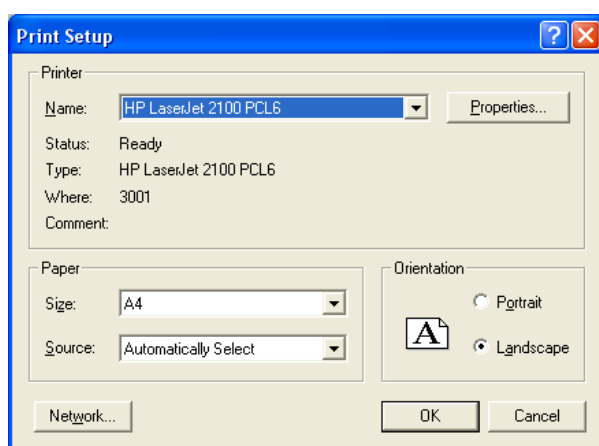
Print/ Options/ Activate printer

The selection buttons next to **Colour**  and **Grey scale**  are used to activate the desired printer.


Print/ Options/ Choose Printer...

If no printer or an incorrect printer is displayed next to the symbols ( / ), then click on the *Choose printer...*  pushbutton at the bottom of the dialog box.

This calls up the *Printer setup* dialog. The printer is selected from a selection list. This list displays all the printers installed in the Windows operating system. Choose the printer you wish to use for printing your images.



Use the **Properties** pushbutton to choose settings specific to the printer selected. Please refer to the printer manual for the printer settings or printer software settings supported by your printer.

Close the window by clicking on the  pushbutton.

The printer you have chosen is displayed and automatically stored in the configuration.

Print quality

Depending on the printer type, printer settings (e.g. high-speed mode with reduced quality) and paper type, the quality of the printouts may vary widely. These factors also influence the reproduction of details and number of grey levels. If printouts of X-ray images are to be used for diagnosis, you will have to print a grey scale test image (XDBSWIN\GREYTEST.TIF) in order to determine whether the print quality is adequate.

Printing options

Print/ Options/ Print type

In the *Print type* group box you can choose whether the light table is to be printed with all the images or if only the selected image is to be printed. If you choose the *Images per row (max. 8)* setting, the images are printed in rows starting with the top left image. The arrangement of the images cannot be changed in this case.

Print/ Options/ Scaling

Setting the mark *Xray images in original size* the X-ray images will be printed 1:1 (printing size=X-ray film size).

The button *Image only* scales the printout of a single image or several images to fit on a whole page. When the *Light table* button is activated, the smallest possible frame around all images is determined, and the images are scaled to fit on one page.

The *Border (%)* setting lets you determine the size of the border (relative to the image size) to surround an image. This particularly affects printing of several images since this border determines the distance between the images.

Print/ Options/ Header

You can print additional information with each printout. Activate the appropriate check boxes to include the practice name, patient's name and current date. You can also enter an additional text which will be printed in the top page margin.

Print/ Options/ Image information

Information on the current image, such as, for example, object type, tooth type, dentist's name, patient's name and creation date can be selected via check boxes.

Print/ Options/ Format

In the *Format* section you can select portrait or landscape print orientation for your printouts. In the *Fontsize* section you can change the size of the text to be printed. The *Images per row* option lets you determine the number of images to be printed side-by-side in one row. This does not affect printing of single images. If the *Print with overlay* check box is activated, then the drawing and dimensioning elements added in the Image Processing module are also printed.

Print/ Preview

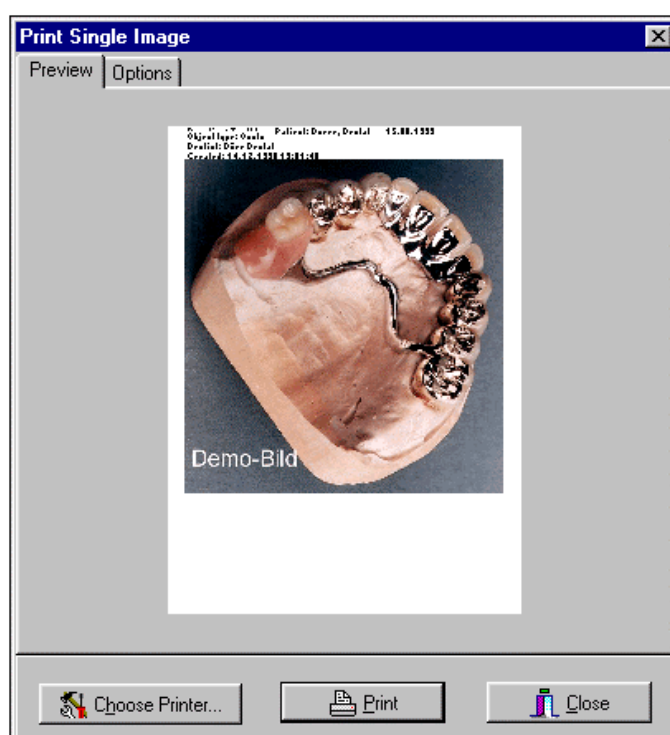
The print preview function lets you view the images in the actual size and position on the final printout before printing.

If you do not like the arrangement of the images, you can move them on the light table. The changed position of an image is reflected immediately in the preview.

To move images, click on the image caption in the corresponding window and hold the mouse button down. Drag the image to the desired position and release the mouse button (drag & drop).

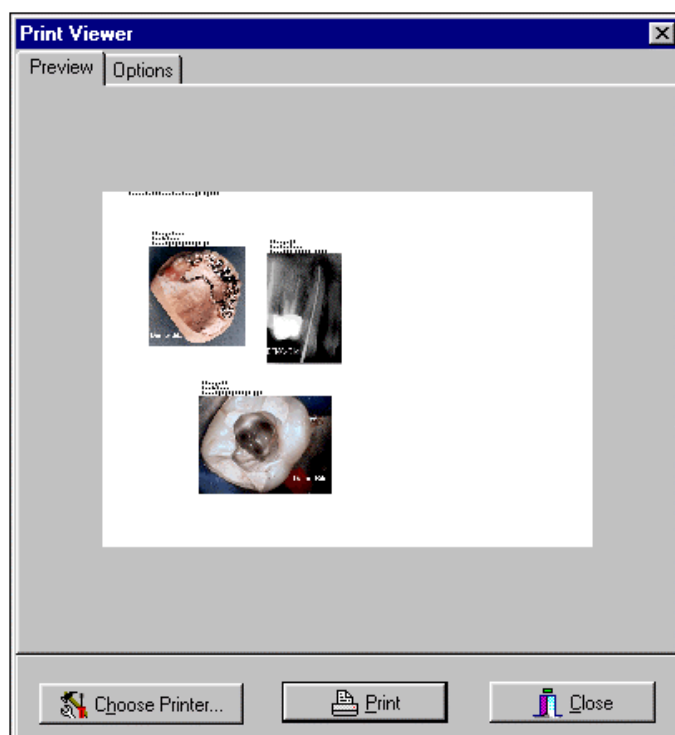
When the *Print type/ Images per row* or *Single image* function in the *Print/ Options* Dialog is activated in combination with *Scaling/ Image only*, the arrangement of the images in the print preview cannot be changed.

Example: Print/ Single image/ Preview



Preview of a single image in portrait orientation with all additional information activated. The image is scaled to fit in an image area.

Example: Print/ Light table/ Preview



Light table preview in landscape orientation with all additional information activated. Scaling to fit in an image area.