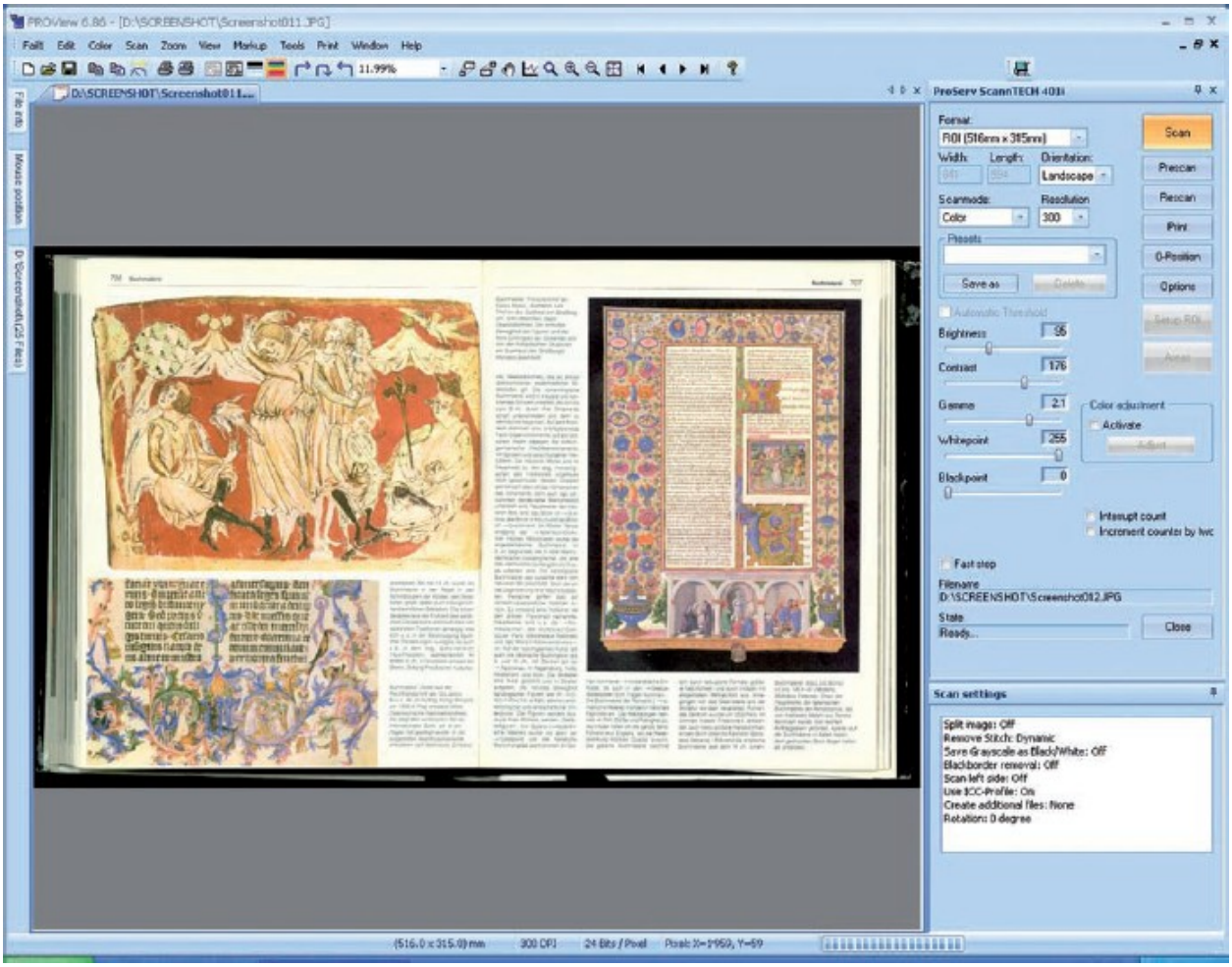
User Manual

Ver. 01/2012

scanning capturing archiving copying microfilming

PROView Rasterviewer



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I Introduction

PROView is a fast viewer to display more than 45 different rasterformats for use with electronic archives and as a standalone program.
The software is developed by Business Graphics Datentechnik GmbH in Karben / Germany.

This software is excellent for using as a front end in retrieval- and archive-systems. Nearly all functions are controlled by DDE which supports an easy integration in self developed software. See chapter DDE-Commands.

With the scan interface you can control different scanners (please ask for a list of supported scanners). All required parameters are accessible and the user can save, print and view the scanned files.

Please note: depending on your license, or the actual ProView release the menus and functions may differ.

If you have further questions, modifications or extensions please feel free to contact us. To contact us please see the section “Support” at the end of this manual.

II Software installation

To install the rasterviewer PROView, insert CD 1 and run „Setup.exe“ on your CD-ROM-Drive. Follow the instructions and leave the default values as they are if possible.

Windows XP, Windows Vista or Windows 7
It is necessary to install a driver for the dongle. The driver is located in the “Dongle” directory on the CD. Please run “Sentinel System Driver installer x.x.x.exe”. When the installation is finished please plug in the USB dongle in an available USB-Port.

III File formats

The following file formats are supported by PROView:

- ABIC (Optional)
- ATT (G4)
- CALS
- DCA
- DICOM (Optional)
- G4
- HALO Cut
- IOCA
- JPEG
- LaserData
- NCR
- PDF/A
- Pixmap
- SGI
- TARGA
- WMF (raster only)
- XBM
- Amiga IFF
- BMP
- CIF (Optional)
- DCX
- EPS (Preview only)
- GEM IMG
- ICO
- JBIG (Optional)
- Kodak Photo CD
- MAC Paint
- PCX
- Photoshop
- PNG
- Showpartner GX2
- TGA
- WPG (raster only)
- XPM
- ASCII
- Brooktrout
- CLP
- DIB
- G3
- GIF (Optional)
- IGF
- JFIF
- Kofax
- Microsoft Paint MSP
- PDF
- PICT
- RLE / RLC
- Sun Raster
- TIFF
- Xbitmap
- XWD

IV Menus

1 File

1.1 New

Create a new empty window

1.2 Open

Open a rasterimage.

1.3 Close

Close the active image.

1.4 Save

Save the active image, If the image is rotated it will be saved rotated. The image is saved in the same format and compression.

1.5 Save as

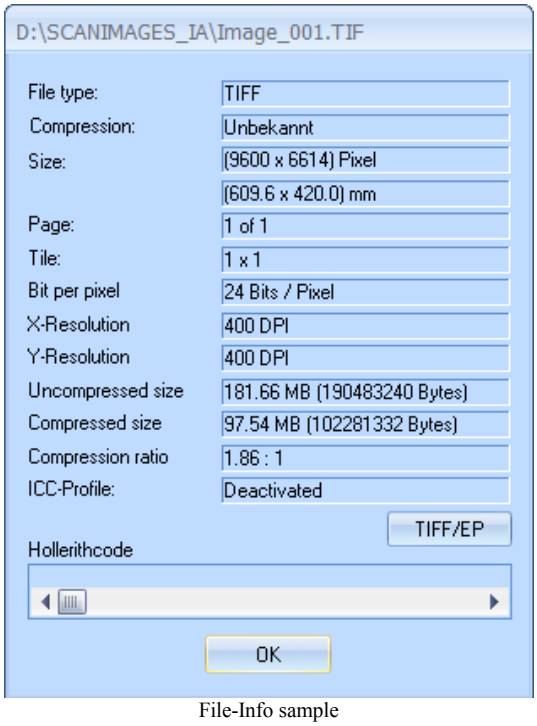
Save the image with a new name and file format and compression. If the image is rotated it will be saved rotated.

1.6 Send mail

Send the active image as an E-Mail attachment. This function uses the standard E-Mail-Client.

1.7 File-info

Show information like size, resolution, compression etc. about the active image. By clicking the button „Tiff / EP“ (Tiff Electronic Photography) further Tiff-information can be shown and edited.

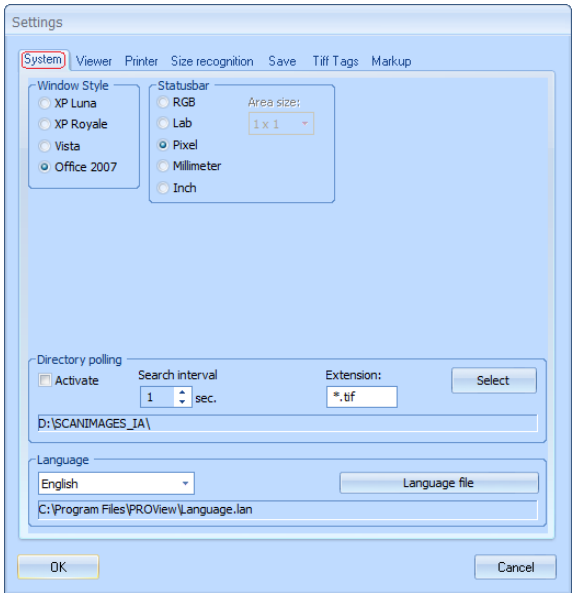


File-Info sample

1.8 Settings

Set program settings for PROView.

1.8.1 Tab „System“



1.8.1.1 Window style

Select the style of the software appearance..

1.8.1.2 Status bar

Select the type of information displayed in the status bar. You can also change the information type by pressing F7.

1.8.1.3 Directory polling

If the directory polling is active the source is searched periodically for files to process. The search time could be adjusted. When a file is found it will be processed.

1.8.1.3.1 Activate

Activate or deactivate directory polling.

1.8.1.3.2 Search interval

Time between the access to the source directory.

1.8.1.3.3 Extension

File-extension for directory polling. All files with the selected extension would be considered by the directory polling.

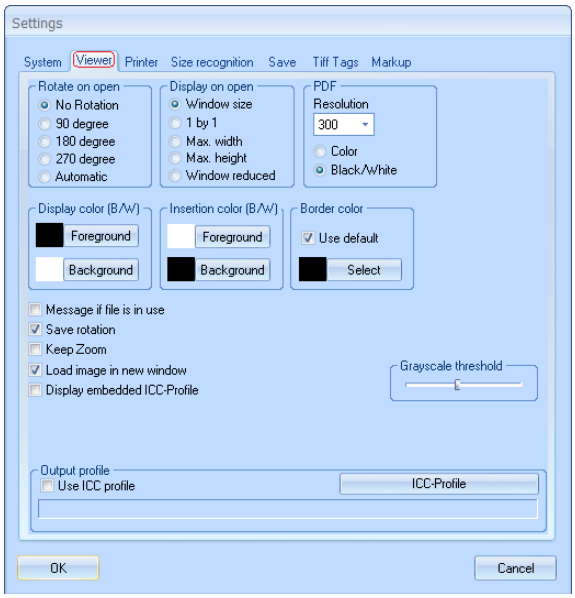
1.8.1.3.4 Select

Select the directory for directory polling.

1.8.1.4 Language

Set up the language file and the language used in PROView. The user can translate the software easily into any language by edit the language file. The language file “Language.lan” is normally located in the installation directory of PROView.

1.8.2 Tab „Viewer“



1.8.2.1 Rotate on open

Choose the rotation when opening an image. When select “Automatic” the image will be rotated automatically

1.8.2.2 Display on open

Choose the display type when opening an image.

1.8.2.3 PDF

Choose the resolution and color mode for PDF-Files when opening.

1.8.2.4 Display color (B/W)

Choose the colors for displaying monochrome images. Selected foreground color will replace black pixels, selected background color will replace white pixels of the image.

1.8.2.5 Insertion color (B/W)

Choose the colors for inserting monochrome images. Selected foreground color will replace black pixels, selected background color will replace white pixels of the image.

1.8.2.6 Border color

Choose the color of the image periphery. If „Use default“ is activated the periphery color will be grey.

1.8.2.7 Message if file is in use

Display a message when the image is in use by another user. With this option you can prevent that two users work on the same image.

1.8.2.8 Save Rotation

Select to save the rotation when saving an image. Rotation wouldn't be saved if this option is not active.

1.8.2.9 Keep Zoom

If this option is active PROView will open the image with the last saved Zoom.

1.8.2.10 Load image in new window

Opens the images in a new window when activated.

1.8.2.11 Display embedded ICC-Profile

If the opened image has an embedded ICC-Profile it would be showed with the ICC-profile, when this function is active.

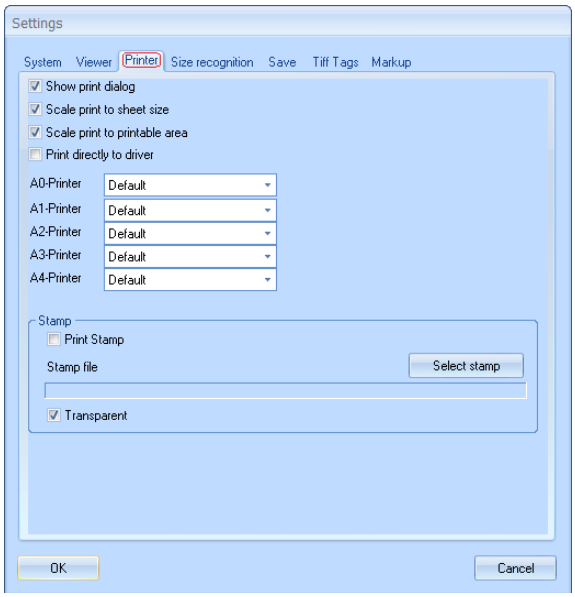
1.8.2.12 Greyscale threshold

This controller defines the greyscale threshold for opening B/W images

1.8.2.13 Output profile

Select the output ICC-Profile.

1.8.3 Tab „Printer“



1.8.3.1 Show print dialog

When this parameter is switched on, PROView shows a print dialog before processing the print. The user can select every parameters for the print. When it is switched off, PROView uses the default settings for the printer and process the print immediately.

1.8.3.2 Scale print to fit paper

Set up the printout to fit to the paper size (Scale) or not.

1.8.3.3 Reduce DIN-Area to printable area

Most printers can not print on the whole paper. Most printers have a margin around. When this is activated, The area is reduced to the printable area when printing a DIN-Area

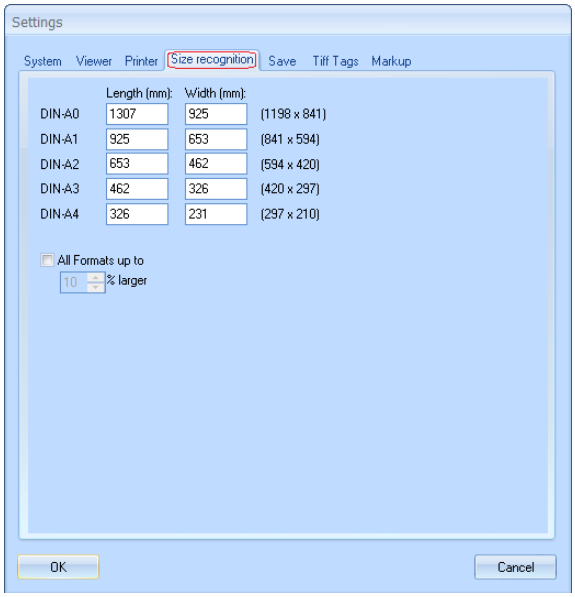
1.8.3.4 Print directly to driver

Activating this option you will print directly to the driver of the printer. This function will make printouts faster but with lower quality.

1.8.3.5 Print Stamp

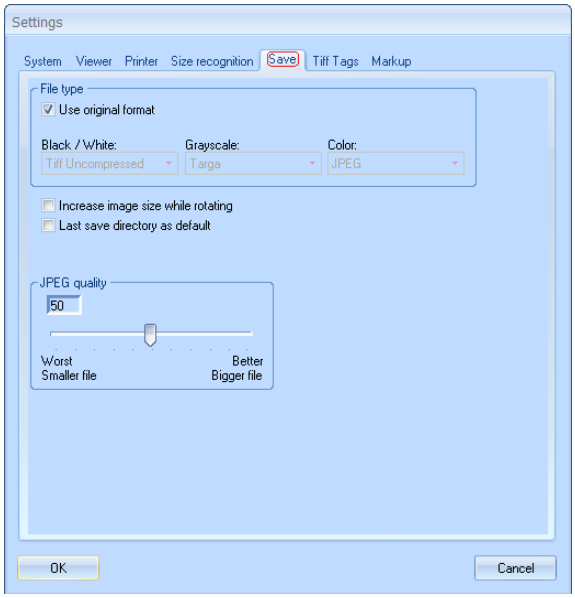
Select a stamp which will be printed over the original image. Any PROView supported rasterfile can be selected. The stamp is placed at the lower right corner of the image.

1.8.4 Tab „Size recognition“



A maximum size can be defined for each DIN-size. PROView will recognize the size and assign it to the depending DIN-size. If scanned image is larger than the defined maximum size, the next DIN-size will be selected.

1.8.5 Tab „Save“



1.8.5.1 Use original format

Select this option to save images in original format.
If this is not selected, you can use the drop-down menus for selecting save settings for each image type. When saving a file it would automatically saved in the selected format. If you use „Save as...“ the selected format will be shown as default.

1.8.5.2 Increase image size while rotating

After rotating or deskew an image could be larger than the source image. With this option you can define the size of the image after rotating. If option is activated the whole image will have larger dimensions to show all information. If option is not activated the image will keep original size and the information outside is lost.

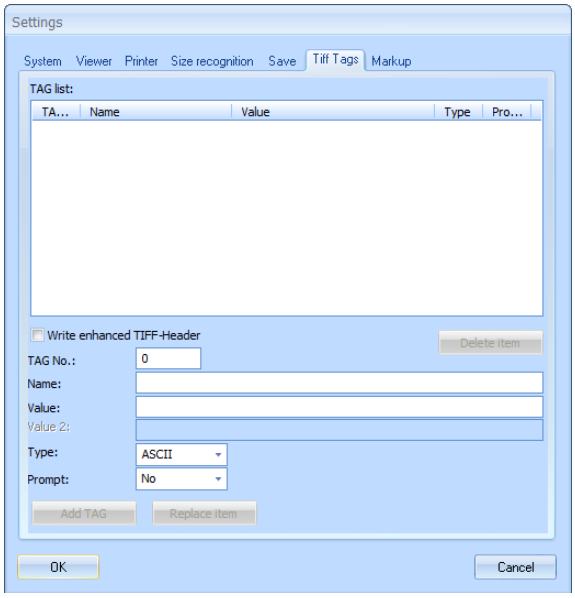
1.8.5.3 Last save directory as default

If activated you'll always get last saving folder as default, if you select „Save as...“. Otherwise the source Folder is default.

1.8.5.4 JPEG quality

Set the quality for a JPEG image when it is saved. JPEG images can be saved in a very good quality, but the file size is bigger. When setting it to a worse quality the resulting files are smaller.

1.8.6 Tab „Tiff Tags“

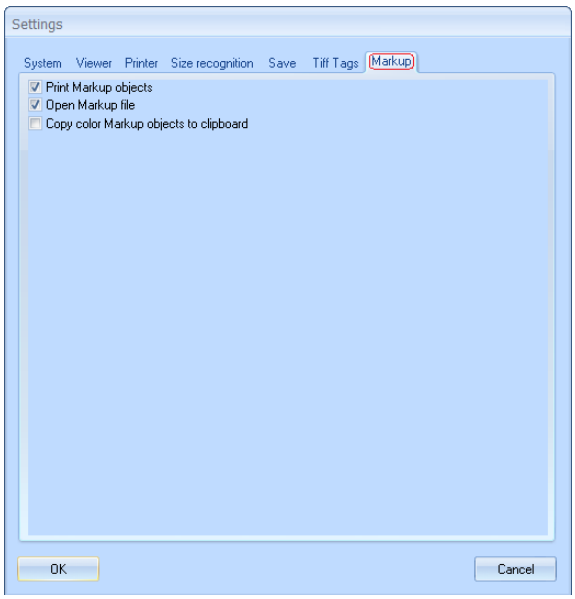


You can create and define own Tiff-Tags. Select a TAG-Number for your TIFF-TAG. Numbers between 0 and 32000 could be predefined for several programs and applications. For own TAGs use Numbers larger than 32000, to avoid overwriting of your TAG.
Create a Name for your Tag and enter a Value. Select the TAG-Type. If the predefined Value should be used for the TAG set the promt to “no”, otherwise you'll get a dialog for the TAG-Value after the Scan.
Click on “Add AG” when your TAG is defined.

For further TAGs repeat the steps above. Selecting an existing TAG from the list you can delete the TAG or replace it with new values.

Select “Write Enhanced TIFF-Header” to activate writing of your defined TAGS. Activating the function is also possible in the scan-options. (See chapter 4.3.1.6.8 - Write enhanced TIFF-Header)

1.8.7 Tab „Markup“



1.8.7.1 Print Markup objects

Print the markup information on the printer or not.

1.8.7.2 Open Markup file

When this option is activated, PROView looks for a markup file when opening an image. The markup file must have the same name as the image file with the extension “.MRK”.

1.8.7.3 Copy color Markup objects to clipboard

If active, the markup objects will be copied to clipboard in their defined color, otherwise if not active they 'll be copied in monochrome mode.

1.9 File list

Load the selected image.

1.10 Exit

Exit PROView

2 Edit

2.1 Copy

2.1.1 Area to clipboard

Copy a selectable region to the clipboard. Select a region with the left mouse button and this rectangle is copied to the clipboard.

2.1.2 Polygon area to clipboard

Copy a polygon area to the clipboard. Select all points of the polygon with the left mouse button. Select the last point of the polygon with a double click.

2.1.3 Whole image / object to clipboard

If you have selected a drawn object (see chapter 2.10.1 - Select), the object would be copied to the clipboard. If there is no selection the whole image would be copied to the clipboard.

2.1.4 Area to file

Copy a selectable area to a file. Select a area with the left mouse button and this rectangle is copied to a file. After selection of the area you'll get an dialog to define the new file name and format.

2.1.5 DIN-Area to file

Copy a selectable DIN-area to a file. Select the defined DIN-area with the left mouse button and this rectangle is copied to a file. You can switch orientation from landscape to portrait by pressing “F4”. After selection of the area you'll get an dialog to define the new file name and format.

2.2 Paste

2.2.1 Image from file

You can insert an image to the active image. Select a file from the dialog box and this image will be inserted in the current image in the top left corner. Now you can drag or resize the image to the dedicated position.

2.2.2 Image from clipboard

You can insert an image from clipboard to the active image. This image will be inserted in the current image in the top left corner. Now you can drag or resize the image to the dedicated position.

2.2.3 Object

A previously copied object (line, circle, text...) can be pasted from clipboard to image.

2.3 Deskew

2.3.1 Automatic deskew

Automatic deskew of the active image. Only monochrome (1 Bit) images can be deskewed automatically. The software determine the rotation angle for deskewing this image and display it. The user can confirm to process the deskew operation.

2.3.2 Manual deskew

Manual deskew of the active image. Select two points by pressing the left mouse button at the two ends of a reference line.

2.4 Despeckle

2.4.1 Whole image (only for monochrome images)

Despeckle the active image. PROView will remove free pixel (speckle) from the image. After selecting this function you'll get a dialog box, where you can define the speckle size. Size 1 means, that only single pixel, file 5 means, that speckle of 5 connected pixel will be removed.

2.4.2 Area (only for monochrome images)

Despeckle only a selected area of the active image. PROView will remove free pixel (speckle) from the image. After selecting this function and defining the area you'll get a dialog box, where you can define the speckle size. Size 1 means, that only single pixel, file 5 means, that speckle of 5 connected pixel will be removed.

2.5 Filling

2.5.1 Whole image (only for monochrome images)

Fills white speckles in black area in the active image. After selecting this function you'll get a dialog box, where you can define the size of the speckles. Size 1 means, that only single pixel, file 5 means, that white speckles of 5 connected pixel will be filled.

2.5.2 Area (only for monochrome images)

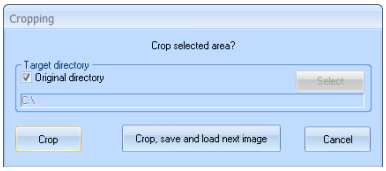
Fills white speckles in black area only in a selected area of the active image. After selecting this function and defining the area you'll get a dialog box, where you can define the size of the speckles. Size 1 means, that only single pixel, file 5 means, that speckle of 5 connected pixel will be filled.

2.6 Cropping

2.6.1 Frame

2.6.1.1 Select frame

Cropping of the active image. Select a rectangle by moving the mouse over the image with the left button pressed. Everything outside of this rectangle will be cut. After positioning of the frame you can change the dimensions of the frame by drawing the frame size and you'll get following dialog.



If you select „crop, save and load next image“ you can edit several images easily. Activating the Checkbox „Original directory“ the cropped image will overwrite the source file, otherwise you can define a destination folder, and the cropped image will be saved there with same file name as source file.

2.6.1.2 Select corner

Select first left top corner and then right bottom corner to define the size of the rectangle. Everything outside of this rectangle will be cut.

2.6.2 Automatic frame

After selecting this option the cropping frame will be defined with the dimensions of the next DIN-size. Press the left mouse button and move the frame to the area you want to crop. You can change the orientation landscape / portrait by pressing F4. Everything outside of this rectangle will be cut.

2.6.3 A4-frame

After selecting this option the cropping frame will be defined with the dimensions of DIN-A4 size. Press the left mouse button and move the frame to the area you want to crop. You can change the orientation landscape / portrait by pressing F4. Everything outside of this rectangle will be cut.

2.6.4 A3-A0-frame

Same function as DIN-A4-frame, with selected dimension.

2.6.5 User defined frame

After selecting this option the cropping frame will be defined with user defined dimensions. Press the left mouse button and move the frame to the area you want to crop. Everything outside of this rectangle will be cut.

2.6.6 Setup user defined frame

Define the size of the user defined frame.

2.7 Split

2.7.1 Vertical

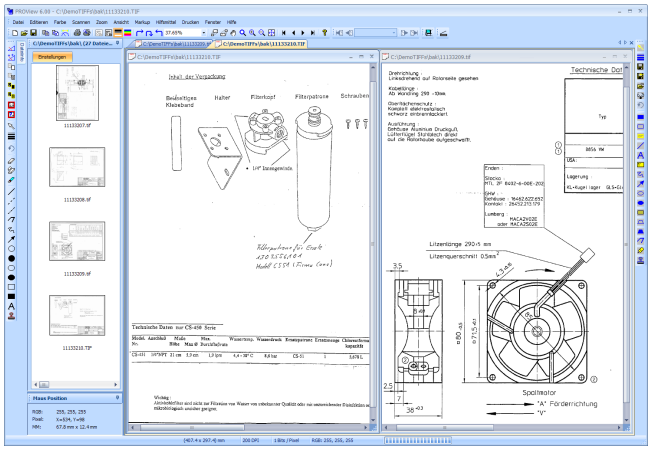
Cut the image vertically. Press the left mouse button and select the line where the image will be cut. When release the mouse button a dialog box is displayed. The user needs to enter two filenames with drive and path for the left and right image.

2.7.2 Horizontal

Cut the image horizontally. Press the left mouse button and select the line where the image will be cut. When release the mouse button a dialog box is displayed. The user needs to enter two filenames with drive and path for the top and bottom image.

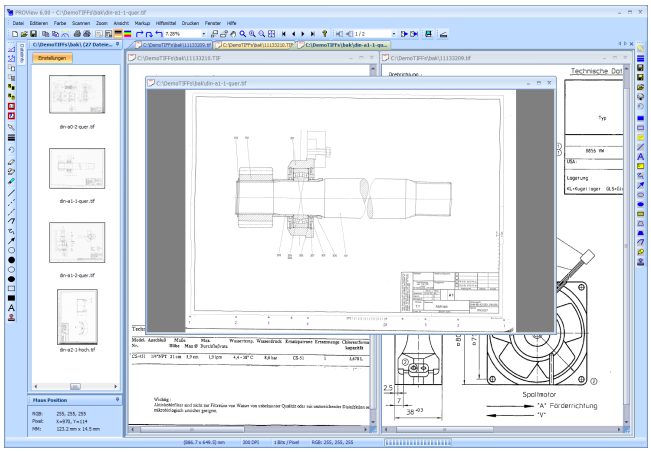
2.8 Stitch

With the stitch function you can combine two images to one new image. The two images will composite side by side or one above the other. At first open both images in two windows.



PROView with two opened images

After selecting the stitch-function you have to define two points in each image. The first point in first image will be combined with first point in second image, the second point in first image will be combined with second point in second image. Please take care about the sequence of the points:
If you want to stitch images side by side first select upper point in the left image, then select the lower point in the left image. Now select upper point in right image and at last lower point in right image.
If you want to stitch images one above the other first select left point in the top image, then select the right point in the top image. Now select left point in bottom image and at last right point in bottom image.
After positioning all points PROView will combine both images automatically and show the new combined image in a new window.



The result after stitching two images

Now you can save the new image. Please take care about the depending data format (e.g. TIFF-G4). At next you have to define a file name and type. The source images will not be deleted.

2.9 Scale

2.9.1 X-Direction

This function scale the image in X-direction. The user has to insert the scale factor in a dialog box. A value smaller than 100 will decrease the image, a value bigger than 100 will increase the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.9.2 Y-Direction

This function scale the image in Y-direction. The user has to insert the scale factor in a dialog box. A value smaller than 100 will decrease the image, a value bigger than 100 will increase the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.9.3 X-Direction with reference

This function scale the image in X-direction with a reference. First select two points in the image (e.g. two points of a dimension line). PROView will calculate the distance between the two points and show it in a dialog box as the selected distance. You can define the desired size and PROView will calculate the scale-factor and resize the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.9.4 Y-Direction with reference

This function scale the image in Y-direction with a reference. First select two points in the image (e.g. two points of a dimension line). PROView will calculate the distance between the two points and show it in a dialog box as the selected distance. You can define the desired size and PROView will calculate the scale-factor and resize the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.9.5 X-Direction with width as reference

This function scale the image in X-direction with image width a reference. PROView will show the image width in a dialog box as the selected distance. You can define the desired size and PROView will calculate the scale-factor and resize the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.9.6 Y-Direction with height as reference

This function scale the image in Y-direction with image height a reference. PROView will show the image height in a dialog box as the selected distance. You can define the desired size and PROView will calculate the scale-factor and resize the image. If “Scale image in X- and Y- direction” is activated, the image will be scaled in both directions.

2.10 Draw

All drawing functions can be undone before saving the image. All functions are drawn with the left mouse button.

2.10.1 Select

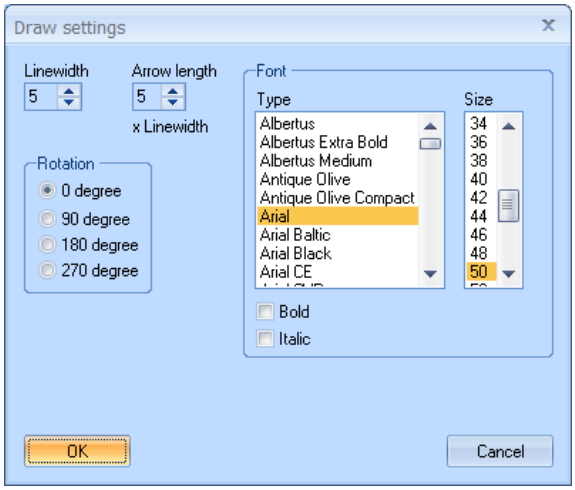
Select an object to modify, delete or copy it. When make a double click on an object you can modify the objects parameter.

2.10.2 Undo

Undo the last drawing operation.

2.10.3 Settings

Set up the parameters for draw operations, like line size, font size etc.



Dialogbox „Draw settings“

2.10.3.1 Linewidth

Select desired line width in pixel.

2.10.3.2 Arrow length

Select desired arrow length . The value will be multiplied with the defined linewidth. With the linewidth 5 and arrow length 5 you'll get an arrow length of 25 pixel.

2.10.3.3 Rotation

The rotation angle will define the orientation of the drawing objects.

2.10.3.4 Font

Select the desired font style and size. All fonts installed will be shown.

2.10.4 Erase

Erase parts of the drawing by moving over the image with the left button pressed.

2.10.5 Erase polygon area

Select all points of the polygon with the left mouse button. Select the last point of the polygon with a double click.
After the last click the selected polygon will be erased.

2.10.6 Line

Click and hold left mouse button and draw the line. Press F8 if you want to deskew the line. Depending on the angle the line will be deskewed horizontally or vertically. You can also define an tip of an arrow at the end of the line. Use arrow keys (up, down, left, right) in combination with the STRG key to define the tip of the arrow. The line has to be selected (see Chapter 2.10.1 - Select). Use a double click to change parameters of the line.

2.10.7 Dashline

Click and hold left mouse button and draw the dashline. Press F8 if you want to deskew the dashline. Depending on the angle the dashline will be deskewed horizontally or vertically. The dashline has to be selected (see Chapter 2.10.1 - Select). Use a double click to change parameters of the dashline.

2.10.8 Dotline

Click and hold left mouse button and draw the dotline. Press F8 if you want to deskew the dotline. Depending on the angle the dotline will be deskewed horizontally or vertically. The dotline has to be selected (see Chapter 2.10.1 - Select). Use a double click to change parameters of the dotline.

2.10.9 Polyline

Select all points of the polyline with the left mouse button. Select the last point of the polyline with a double click.
Use a double click to change parameters of the polyline.

2.10.10 Freehand line

Draw a freehand line by moving over the image with the left mouse button pressed. Use a double click to change parameters of the freehand line.

2.10.11 Arrow

Click and hold left mouse button and draw the arrow. The tip of the arrow will be positioned on the first point. Press F8 if you want to deskew the arrow. Depending on the angle the arrow will be deskewed horizontally or vertically. The arrow has to be selected (see Chapter 2.10.1 - Select). Use a double click to change parameters of the arrow.

2.10.12 Ellipse

Click and hold left mouse button to draw an ellipse by drawing the bounding rectangle. Use a double click to change parameters of the ellipse.

2.10.13 Filled Ellipse

Click and hold left mouse button to draw an filled ellipse by drawing the bounding rectangle. Use a double click to change parameters of the filled ellipse.

2.10.14 Rectangle

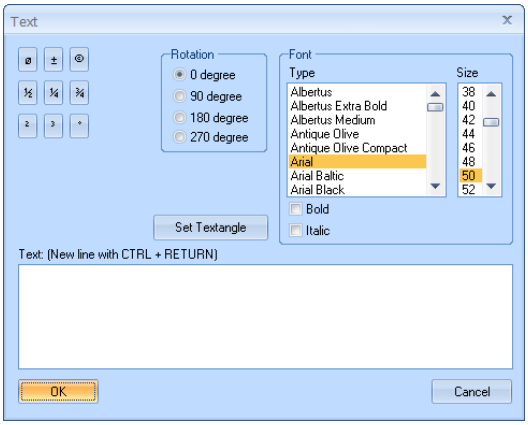
Click and hold left mouse button to draw an rectangle. Use a double click to change parameters of the rectangle.

2.10.15 Filled rectangle

Click and hold left mouse button to draw an filled rectangle. Use a double click to change parameters of the filled rectangle.

2.10.16 Text

Draw text. Click a point within the image with the left mouse button. A dialog box comes up to insert the text. When choosing OK the text is placed at the selected point. Use a double click to change parameters of the Text.



Dialogbox „Text“

2.10.17 Circle

Click and hold left mouse button to draw an circle by drawing the bounding rectangle. Use a double click to change parameters of the circle.

2.10.18 Filled circle

Click and hold left mouse button to draw an filled circle by drawing the bounding rectangle. Use a double click to change parameters of the filled circle.

2.10.19 Stamp

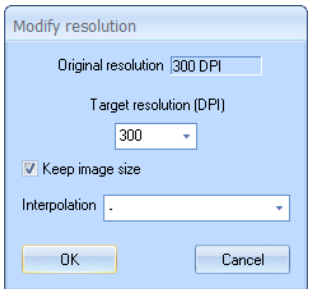
A stamp with date, time or user can be added to the image. Click on the desired position of the image and define the stamp parameters.

2.11 Delete object

Select a rectangle with the left mouse button and this area will be erased.

2.12 Change resolution

If you want to change the resolution of the image you'll get following dialog



The Target resolution can be selected from the list or typed by number keys. Selecting „keep image size“ you can define if PROView should change only resolution and resize the image, or scale image to same document size. If image should be scaled you can select the interpolation from list.

2.13 Delete file

The actually shown image will be deleted from the source folder.

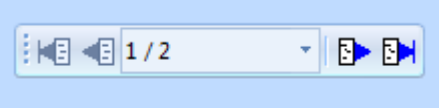
2.14 Create / modify multipage

This is a dialog to create and modify multipage files like TIFF or PDF. The user can select several files to create a new multipage file. Existing multipage files can be modified by changing the positions of the pages, inserting pages or deleting pages.

Multipage file dialogbox

Click on „Add / Edit files“ to select desired files for the Multipage file. All files will be shown in the list and saved in the new multipage file. If you add an multipage file, each single file of the multipage file would be listed. You can add any number of files to the multipage file. The files will be shown in the multipage in the same order as the order of the listed files. You can change the listed order by clicking on a file and changing it's position with the arrow buttons on the right side.
With the button „Delete“ you can delete all files from the list, (the source files are not affected).
Use „Delete item“ to delete single files from the list. (the source file is not affected).
After clicking on „Save“ a dialogbox appears where you can define the name for the new multipage file.
If Checkbox „Delete source files“ is selected the source files will be deleted after creating the multipage file.
Use checkbox „Sort list“ if you want to sort the files alphabetically.
Select „Compression“ type for B/W, greyscale and color images. The images will be saved in the selected compression.

If you open a saved multipage file in the viewer, you'll get addition navigation buttons



- left button jumps to the first image of the multipage file

- second button on the left side will jump one image backwards..

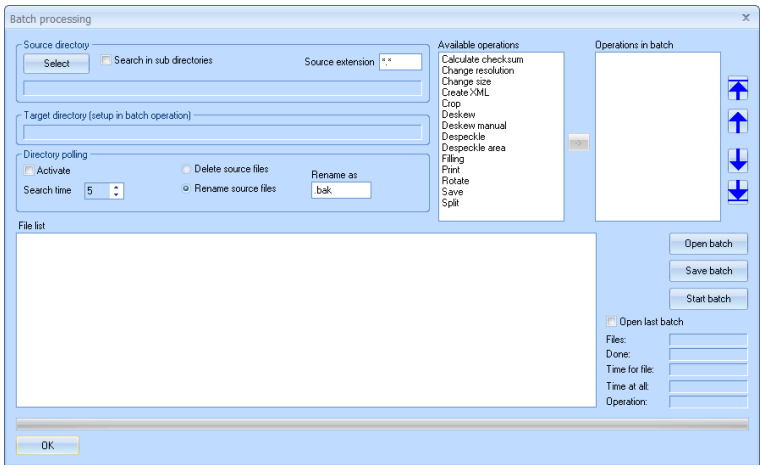
- Use drop down menu to see a list of all pages in the multipage file. Select page in the list to get directly there.

- first button on the right side will jump one image forwards.

- last button on the right side will jump to the end of the multipage file.

2.15 Batch

Within the batch dialog the user can select operations like deskew, despeckle, split etc. to a batch operation. The batch operation opens one image after the other in a defined directory and do all selected operations. With this module it is very easy to process images automatically.
(Batch processing requires a additional license)!



In the left list at the top of the dialog are all available operations. With a double click on an item the operation is added into the batch process or select a process and click on the arrow button between operations list and batch list.
With a double click on a process in the batch list you open a properties dialog for the selected process, or press right mouse button and select „properties“ from the menu. Use also right mouse button and select „delete“, if you want to delete a operation from the batch list.
With the arrow keys on the right side you can change the order of the processes. A batch will always be processed from top to bottom, the process on the top will be done at first, then the second, etc.
Please keep in mind, that some operations could only be processed in monochrome mode.

2.15.1 Description of the functions

2.15.1.1 Source directory

With this function the user can select the source directory and extension for the batch process. All files within this directory and the selected extension will be executed in the batch. When selecting for example the directory „C:\images\“ and „*.tif“ as the file extensions all files with the file extension „tif“ in the directory C:\images\ will be processed in the batch. If the directory polling is activated and the source files should not be deleted the source extension should not be „*.*“!

2.15.1.2 Target directory

The target directory will be displayed just for information. The target directory can be selected in the “Save” or “Split” operation of the batch process.

2.15.1.3 Directory polling

If the directory polling is active the source directory is searched periodically for files to process. The search time could be adjusted. When a file is found it will be processed.

2.15.1.3.1 Search time

Time between the access to the source directory.

2.15.1.3.2 Delete source file / rename source file

With this control the user can select between deleting or renaming the source file after it is processed. If the source files should be renamed it is necessary to set a rename extension. (e.g. file Scan0001.tif will be renamed in Scan0001.bak)

2.15.1.4 Save batch

After a batch is created the user can save the batch to a file. Every operations in the batch with all parameters will be saved into a selectable file.

2.15.1.5 Open batch

A batch process which has been saved can be opened with this button! All settings within the batch will be redone.

2.15.1.6 Start batch

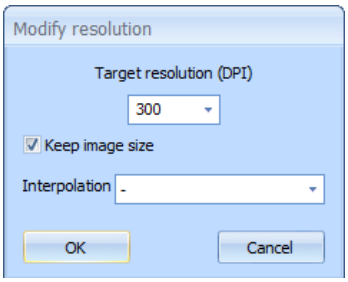
Starts the batch processing. If the directory polling is not active the batch process ends when the last file is done. If the directory polling is active, the batch processing remains active until it is stopped manually (Start button will be the Stop button)!

2.15.2 All operations and properties

2.15.2.1 Calculate checksum

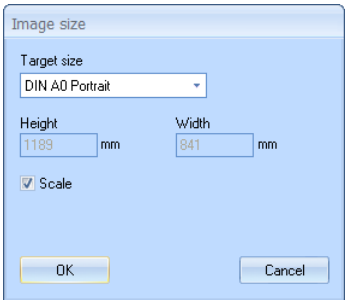
This function calculates the image checksum and saves it in the source directory as a *.CHK File. The checksum can be used to verify the image with the original. If the image was edited the checksum will change.

2.15.2.2 Change resolution



The Target resolution can be selected from the list or typed by number keys. Selecting „keep image size“ you can define if PROView should change only resolution and resize the image, or scale image to same document size. If image should be scaled you can select the interpolation from list.

2.15.2.3 Change size



2.15.2.3.1 Target size

Select the target size. Available formats are standard DIN-formats and user defined formats.

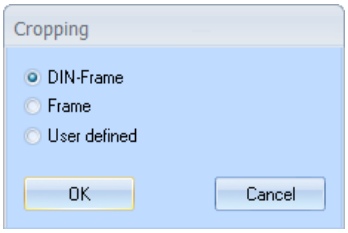
2.15.2.3.2 Scale

If „Scale“ is selected the image will be scaled to the target size.

2.15.2.4 Create XML

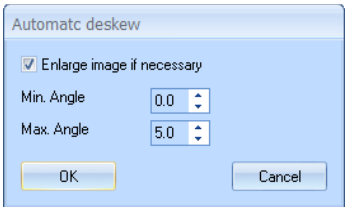
Use this function to create XML files from the files in the list.

2.15.2.5 Crop



Select frame type for cropping. Available options are DIN-frame, frame, and user defined. Depending on your choice the selected frame will be available while batch process is running.

2.15.2.6 Deskew (only monochrome)



2.15.2.6.1 Min. angle

The image file will be checked and the deskew angle calculated. The deskew function will not proceed if the angle is smaller than the adjusted minimal angle.

2.15.2.6.2 Max. angle

The image file will be checked and the deskew angle calculated. The deskew function will not proceed if the angle is bigger than the adjusted maximal angle.

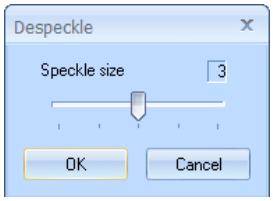
2.15.2.6.3 Enlarge image if necessary

After deskew operation an image could be larger than the source image. If option is activated the whole image will have larger dimensions to show all information. If option is not activated the image will keep original size and the information outside is lost.

2.15.2.7 Deskew (manual)

There is only the option „Enlarge image if necessary“ for this operation. After deskew operation an image could be larger than the source image. If option is activated the whole image will have larger dimensions to show all information. If option is not activated the image will keep original size and the information outside is lost.

2.15.2.8 Despeckle (only monochrome)

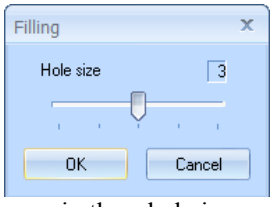


Free pixel (speckle) from the image will be removed. You can define the size of the speckle. Size 1 means, that only single pixel, file 5 means, that speckles of 5 connected pixel will be removed.

2.15.2.9 Despeckle area

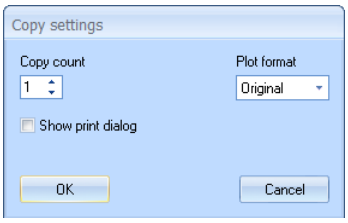
Free pixel (speckle) from a area in the image will be removed. You can define the size of the speckle. Size 1 means, that only single pixel, file 5 means, that speckles of 5 connected pixel will be removed.

2.15.2.10 Filling (only monochrome)



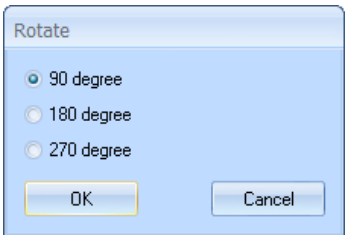
Fills white speckles in black area in the whole image. You can define the size of the speckles. Size 1 means, that only single pixel, file 5 means, that white speckles of 5 connected pixel will be filled.

2.15.2.11 Print



Adjust desired amount of copies and the format. If „Show print dialog“ is selected you'll get the print dialog before printer starts.

2.15.2.12 Rotate

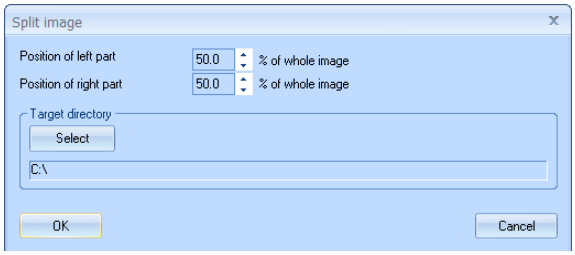


Select angle for rotating images from batch list.

2.15.2.13 Save

Select target directory for saving the files from batch list. If „source directory“ is active the batch process will overwrite the source files. The images will be saved with same file name after processing.

2.15.2.14 Split



2.15.2.14.1 Position of left part

The split position for the left image part related to the whole image. Values bigger than 50% will produce bigger image.

2.15.2.14.2 Position of right part

The split position for the right image part related to the whole image. Values bigger than 50% will produce smaller image.

2.15.2.14.3 Target directory

After splitting you'll get automatically two different images. select the target directory for saving the new images.

The splitting process should be the last processes in the batch list. No other processes are allowed. Also you need no „Save“ process after splitting, because splitting will save the images automatically.

3 Color

3.1 Gamma-Correction

Brightness, contrast and Gamma are adjustable for each color channel. Corrections are regarding only actual image. If you want to adjust all channels at once select option „Link together“

3.2 Sharpen

The edge contrast will be pointed up and the distinguishabi- lity between the different objects on the image will be increased so the image will appear sharper but the real resolution wouldn't be increased. Select a factor for sharpening and confirm with OK.

3.3 Unsharp mask

Unsharp masking (USM) is an image manipulation technique, often available in digital image processing software. The "unsharp" of the name derives from the fact that the technique uses a blurred, or "unsharp," positive to create a "mask" of the original image.[1] The unsharped mask is then combined with the negative, creating the illusion that the resulting image is sharper than the original. From a signal-processing standpoint, an unsharp mask is generally a linear or nonlinear filter that amplifies high-frequency components.

3.4 Binary

The actual image will be turned into a B/W image.
Adjust threshold to get desired results

3.5 Dithering

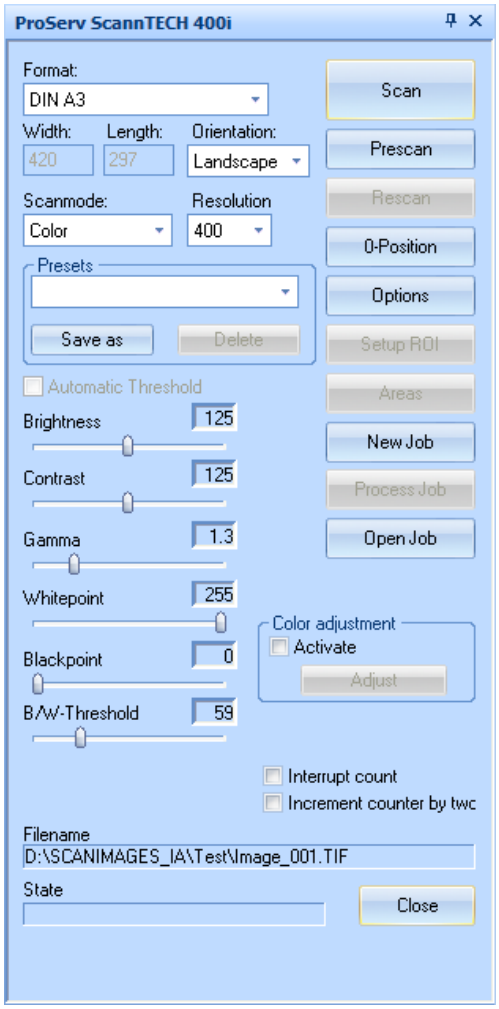
Dithering is a technique used in computer graphics to create the illusion of color depth in images with a limited color palette (color quantization). In a dithered image, colors not available in the palette are approximated by a diffusion of colored pixels from within the available palette. The human eye perceives the diffusion as a mixture of the colors within it (see color vision). Dithering is analogous to the halftone technique used in printing. Dithered images, particularly those with relatively few colors, can often be distinguished by a characteristic graininess, or speckled appearance.

3.6 Modify colordepth

Use this function to reduce colordepth. Change the Value for bit per Pixel and select the desired mode. Adjust the threshold by using the preview for best results.

4 Scan

Starts the scan dialog. It is possible to work in the main window when the scan dialog is displayed e.g. zoom in the main window.



4.1 Scan-Dialog

4.1.1 Format

Select the paper format of the scanned area. There are standard formats DIN-A0 – DIN-A4 and 10 user defined sizes available. At the DIN-formats you can select the orientation “Landscape” or “Portrait”. At the user defined formats you can define orientation depending on the values for length and width.
For using format „ROI“ see chapter 4.2.6 - Setup ROI.
For using format „Areas“ see chapter 4.2.7 - Areas.

4.1.2 Scanmode + Resolution

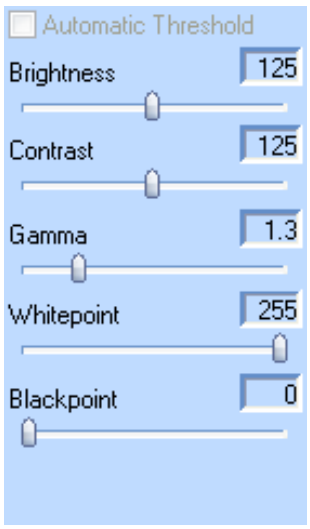
Black and White or 8-Bit Greyscale. Depending on the type of scanner you may have the possibility to scan in Color (24 Bit) or Dithering mode. You can also select the Scan resolution in DPI.
For the Grayscale mode there is an Option in the Scan-Options, where you can activate, that the gray-scale-scan will be saved in monochrome mode.
(see chapter 4.3.1.1 File format / color depth / Interpolation)

4.1.3 Presets

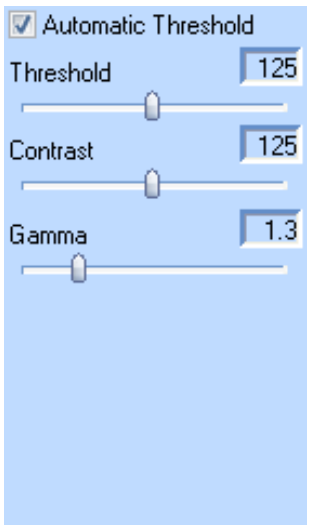
The user is able to save templates. With the button “Save as” all current setting can be saved. The user enter a name for the template. Select the save name from the list box to recall all settings saved. With the button “Delete” an existing template can be deleted.

4.1.4 B/W-, Grayscale and Coloroptions

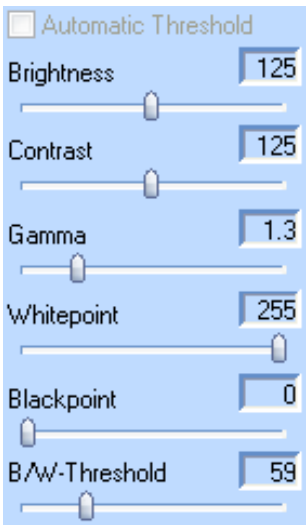
Depending on the selected Scan mode this area could be shown different.



Options in Colormode



Options in S/W-Mode



Options in Grayscalemode with aktivated Funktion „save Grayscale as B/W“

4.1.4.1 Automatic Threshold

Set the Area Threshold on or off. This Function is available only for B/W Scan.

4.1.4.2 Brightness

Use this slider to adjust brightness.

4.1.4.3 Contrast

Use this slider to adjust contrast.

4.1.4.4 Gamma

Use this slider to adjust the gamma value. Adjusted value is relevant for all three colors (RGB). Use function Color adjustment if you want to change value for single color.

4.1.4.5 Whitepoint

Use this slider to adjust the whitepoint. Adjusting the whitepoint you can define the value for using white color. (e.g. to scan a grey master to white color)

Caution, using this option scanned image will be different the the original image.

4.1.4.6 Blackpoint

Use this slider to adjust the blackpoint. Adjusting the blackpoint you can define the value for using black color. (e.g. to scan a grey master to black color)

Caution, using this option scanned image will be different the the original image.

4.1.4.7 B/W-Threshold

Use this slider to adjust the threshold for the Grayscale to B/W option.

4.2 Functions

4.2.1 Scan

Clicking this button starts a scan. After scanning the image would be saved with the selected parameters. (see chapter 4.3.2.1 - Filename)

4.2.2 Prescan

Clicking this button will start a prescan with low resolution. A prescan image would not be saved.

4.2.3 Rescan

Use this button to rescan an image. It will start a scan with the same file name. The new scan will overwrite the existing image file.

4.2.4 0-Position

By clicking this button the scanner will go back in his basic position.

4.2.5 Options

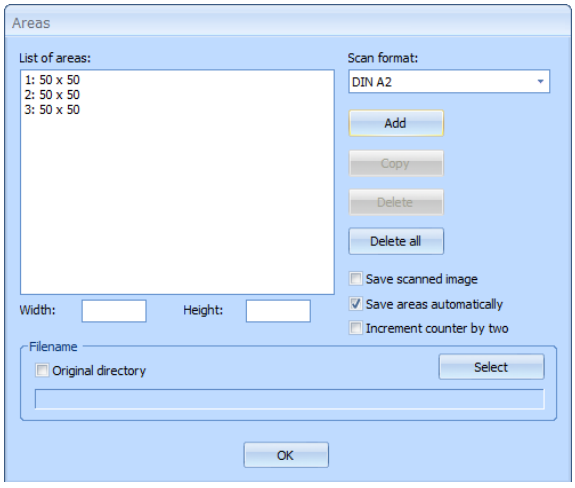
Shows the options dialog. For a detailed description of the options see chapter 4.3 - Scan-Options.

4.2.6 Setup ROI

A user defined region of interest is selectable. To select a ROI you have to make a prescan of the image. After the prescan click on the button „Setup ROI“ and select an area in the pre-scanned image by drawing an rectangle with the mouse. Click the Scan-button to start scanning the ROI.
The actual ROI parameters will be saved in the formats list. Selecting ROI will always scan the last defined ROI.

4.2.7 Areas

With the areas-function you can define several areas which you can scan and save in one scan process. To define the areas you have to make a prescan of the image. When the prescan is done select „Areas“ in the format list and the Areas-button in the scan dialog is active. Click the areas button to get the areas dialog.



Select the scan format and the press „Add“ to add the desired amount of areas to the list. Width and height of each area can be defined by clicking on each line in the list.
Select „Save scanned image“ if you want to save the whole image too. “Save areas automatically” will save each area in the target folder. “Increment by two” will increment the file name counting by two instead of one.
Select a target folder or use „Original directory“ to define the place to save each area. Confirm your settings with „OK“.

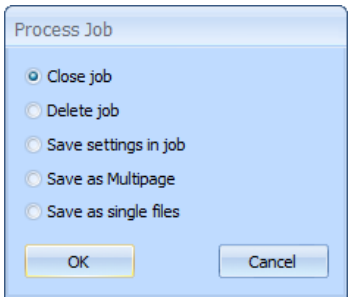
After confirming you'll come back to the mainframe with the pre-scanned image. In the left top corner you can see the areas in different colors. Click on one area and drag it to the desired region of the pres-can. After positioning you can adjust the size of the area by clicking at the border of the area.
Repeat the process for each defined area and press the scan button to start scanning. PROView starts scanning and the the areas will be saved as defined.

4.2.8 New Job

You can combine the scans and save them related to different jobs. After clicking on „New Job“ a dia-log box will appear where you can define a name for the next job. After confirming the Job will be act-ive and a folder named as the Job name will be created automatically in the target folder. The job will appear in the job list.
Each scanned image will be added to the actual job and saved in the job related folder.

4.2.9 Process Job

After scanning the job related images you can select further options by clicking on the button „*Jobname* execute“



4.2.9.1 Close job

Will close the job and keep it in the job list.

4.2.9.2 Delete job

Will close the job and delete it from the job list. The job related folder with scanned images would not be deleted.

4.2.9.3 Save settings in job

Will save the actual settings related to the job. Opening the job again the settings will be loaded.

4.2.9.4 Save as Multipage

Will create a multipage file with all images from the job related folder. Please define a file name and target folder for the new multipage file. (For more information about multipage files see chapter 2.14 - Create / modify multipage)

4.2.9.5 Save as single files

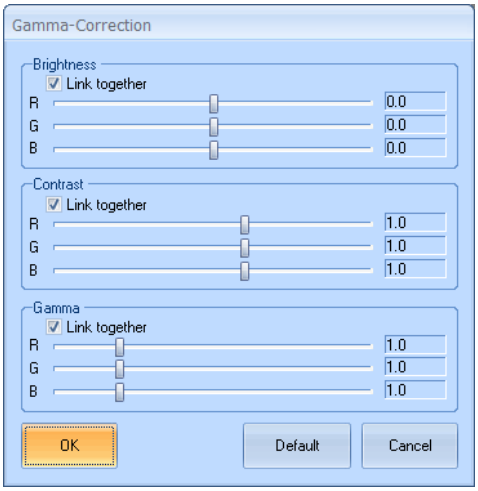
Will save all job related images to a defined folder as single files.

4.2.10 Open Job

By clicking on the button „Open Job“ you'll get a list of all available jobs. Select desired Job and con-firm with „OK“.
If you want to ad images to the opened job, you have to adjust starting number for the file name. (see chapter 4.3.2.1.2 - Start number)

4.2.11 Color adjustment

If activated the scanned images will be adjusted automatically after scanning. Brightness, contrast and Gamma are adjustable for each color channel. If you want to adjust all channels at once select option „Link together“
to adjust the colors first you have to scan the image with deactivated color adjustment. After scanning activate the checkbox and adjust the colors. Your adjustments will be used on each following scan.



Color adjustment dialog

4.2.12 Save left image

Left image will be saved. This function appears if the option „split image“ is selected. (see chapter 4.3.1.7.3 - Split image)

4.2.13 Save right image

Right image will be saved. This function appears if the option „split image“ is selected. (see chapter 4.3.1.7.3 - Split image)

4.2.14 Interrupt count

If this is selected the file name counter is interrupted for next scanned images. A new folder „Insert#“ will be created automatically and all scanned files will be saved there till this function is active. After deactivating this function you will continue scanning in the folder defined in the scan options.

4.2.15 Increment count by two

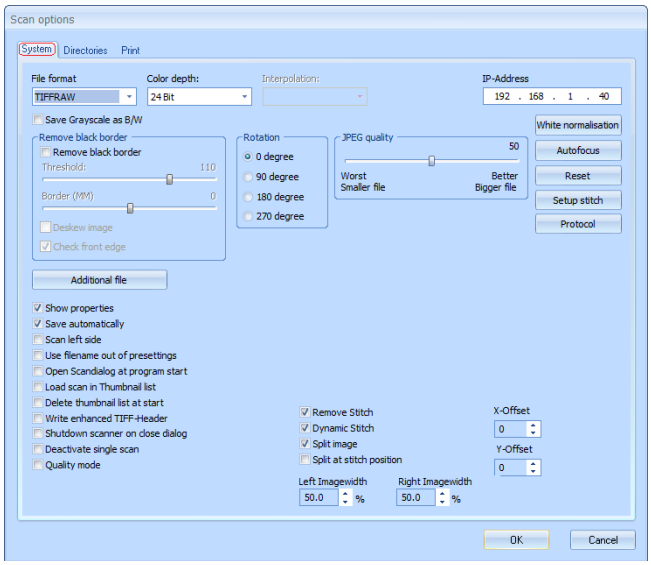
If activated the file name counter will increase by two after each scan. This function is useful if you scan both pages of a book and the file name is identical with the page number.

4.2.16 Close

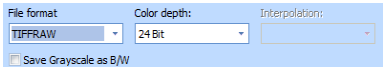
Leaving the scan dialog.
If the option ”Shutdown scanner on close dialog” is active, the scanner will shut down by clicking the close button.

4.3 Scan-Options

4.3.1 Tab „System“

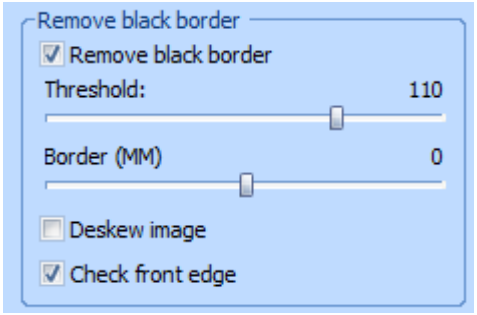


4.3.1.1 File format / color depth / Interpolation



Select the file format for saving scanned images. If you select color depth 8- or 4- Bit you can define the interpolation. If checkbox „Save Greyscale as B/W“ is active the greyscale images will be saved as a black / white image.

4.3.1.2 Remove black border



Select this function to remove black border from scanned images.

4.3.1.2.1 Threshold

Adjust threshold for automatic border detection.

4.3.1.2.2 Border (MM)

Adjust the border measure after border removing. Increasing the value will create an additional border, decreasing the value will cut the image.

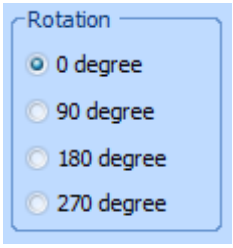
4.3.1.2.3 Deskew image

Select this option to activate automatic deskew function with left image border as reference.

4.3.1.2.4 Check front edge

If active the scanner will recognize the front edge of the document. This option should be deactivated, if you use the 105° Book-Wedge

4.3.1.3 Rotation

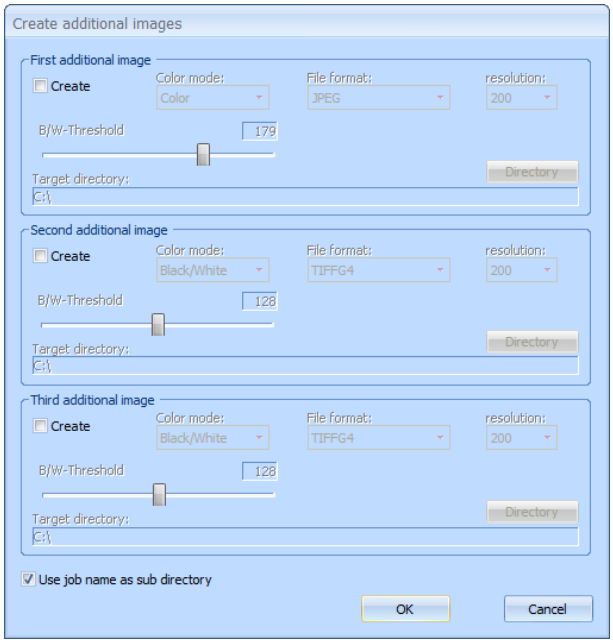


Select the angle for scanning. 0 degree will scan document in original position.

4.3.1.4 JPEG quality

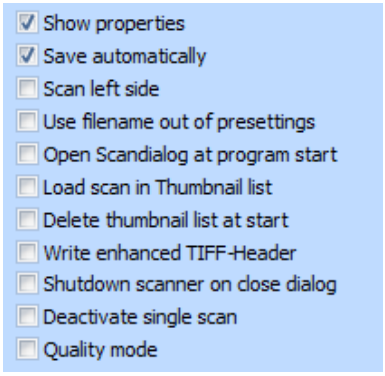
Select the compression of the JPEG files.
Better quality increases the file size.

4.3.1.5 Additional file



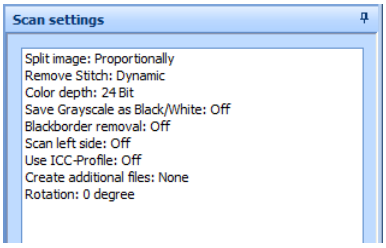
Click on the button „additional file“ to add more files created by the same scan. Select color mode, file format, resolution and target directory for 1 – 3 additional files.

4.3.1.6 Check-boxes



4.3.1.6.1 Show properties

Activate this option to get a window with displayed scan settings below the scan dialog.



4.3.1.6.2 Save automatically

Save the image automatically or prompt to save it after a scan is done.

4.3.1.6.3 Scan left side

Scans the left side of the scan area instead of the middle.

4.3.1.6.4 Use filename out of presettings

If you use a scan template with this function activated the file name would be as in the template defined. (see chapter 4.1.3 - Presets)

4.3.1.6.5 Open Scandialog at program start

Scan dialog and connection to scanner wilol start automatically by starting PROView.

4.3.1.6.6 Load scan in Thumbnail list

All scanned images will be loaded in the thumbnail list after scanning.

4.3.1.6.7 Delete Thumbnail list at start

PROView starts always with an empty Thumbnail list, if this function is selected.

4.3.1.6.8 Write enhanced TIFF-Header

Select Option to activate writing of the TIFF-Header. You can define own TIFF-TAGs in the System-options -menu
(See chapter 1.8.6 - Tab „Tiff Tags“)

4.3.1.6.9 Shutdown Scanner on close dialog

Scanner will shut down every time you close the scan dialog with the button “Close”

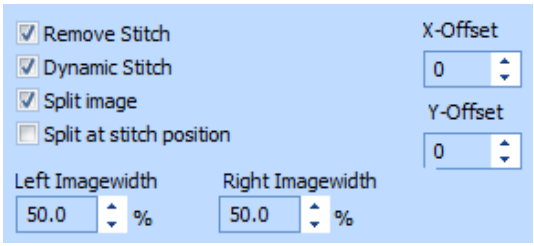
4.3.1.6.10 Deactivate single scan

If this is selected every scan needs to be related to a scan job.

4.3.1.6.11 Quality mode

Active Quality mode will reduce noise in dark areas. Quality mode will slow down the scan process.

4.3.1.7 Stitch-Options



4.3.1.7.1 Remove Stitch

If activated the stitch area will be removed.

4.3.1.7.2 Dynamic Stitch

Calculate the stitch position for every pixel. If this control box is deselected a fixed value is used to remove the stitch area.
For standard scanning this option should be active!

4.3.1.7.3 Split image

Split the scanned image in the selected position. The user can select the size of the image for the left and right side in percent of the whole image.
Activate „Split image at the stitch position“ to split exactly in stitch position. The options “Remove Stitch” and “Dynamic Stitch” will deactivate automatically.
Please keep in mind to activate this option again after the spliting.

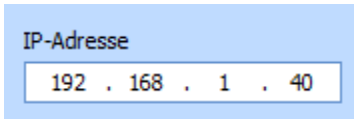
4.3.1.7.4 X-Offset

Adjust X-offset to move scan area. Increasing this value will move scan area to the right side.

4.3.1.7.5 Y-Offset

Adjust Y-offset to move scan area. Increasing this value will move scan area to the bottom.

4.3.1.8 IP-Address



Insert scanner IP-Address

4.3.1.9 White normalisation

Clicking on the button „White normalisation“ will activate the automatic process to adjust the scanner.
A special template is necessary to get best adjustment.

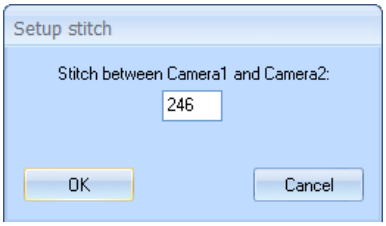
4.3.1.10 Autofocus

Clicking on the button „Autofocus“ will activate the automatic process to adjust the camera focus.
A special template is necessary to get best adjustment.

4.3.1.11 Reset

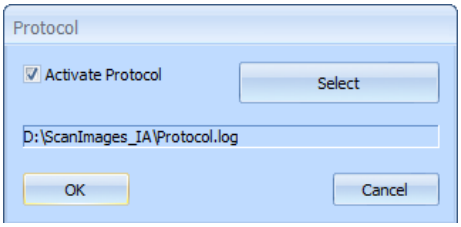
Clicking on the button „Reset“ a scanner hardware reset will start.

4.3.1.12 Setup stitch



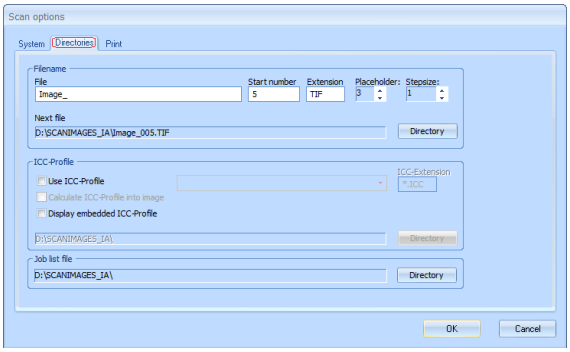
Clicking the button „Setup stitch“ will open a dialog box where you can input the stitch size. For a detailed step-by-step description for stitch determination see chapter 4.4 - Stitch determination

4.3.1.13 Protocol



Clicking the button „Protocol“ will open the protocol dialog where you can activate the scan protocol and define the target folder where the protocol file will be saved.

4.3.2 Tab „Directories“



4.3.2.1 Filename

4.3.2.1.1 File

Name of the image file.

4.3.2.1.2 Start number

Starting number for the name of the image file.

4.3.2.1.3 Extension

Select the extension for the image file.

4.3.2.1.4 Placeholder

Amount of digits for the name of the image file.

4.3.2.1.5 Stepsize

Select the step size for increasing the number in the name of the image file.

4.3.2.1.6 Next file

Preview for the next file name. Target directory can be changed by clicking on “directory”.

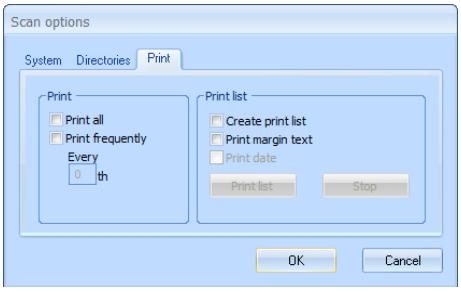
4.3.2.2 ICC-Profile

Select the ICC-Profile which has to be embedded to the image file. The ICC-Profile could be calculated into the image or written in the file header.

4.3.2.3 Job list file

Select the target directory for the job list file.
(see chapter 4.2.8 - New Job)

4.3.3 Tab „Print“



4.3.3.1 Print all

Every scanned image will be printed after the scan.

4.3.3.2 Print frequently

After a number of scans the last scan will be printed. Enter the value for the amount of scans.

4.3.3.3 Create print list

A list with every scanned image will be stored on the hard disk. This option gives you the possibility to scan without printing and print scanned images later.

4.3.3.4 Print margin text

When printing scanned images from the print list the file name will be printed as a margin text.

4.3.3.5 Print date

When printing scanned images from the print list the actual date will be printed as a margin text.

4.3.3.6 „Print list“ button

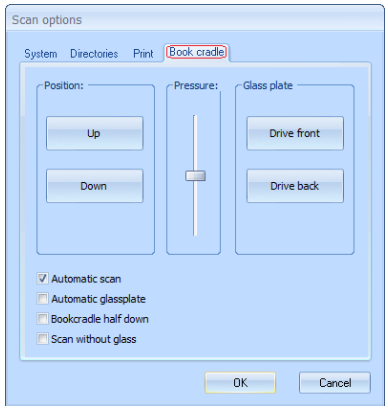
Prints every image stored in the print list. This button is enabled when the print list is not empty.

4.3.3.7 „Stop“ button

Stops printing the images from the list. When starting again the next image is printed.

4.3.4 Tab „Book cradle“

(Function is only available with ProServ ST602i-3; ST602i-6; ST601i-tm)



4.3.4.1 Position

You can command the position of the book cradle with the buttons „Up“ and „Down“.

4.3.4.2 Pressure

Adjust the pressure for the book cradle to the glasplate.

4.3.4.3 Glass plate

You can command the position of the glass plate with the buttons „Drive front“ and „Drive back“.

4.3.4.4 Automatic scan

With this function you can start a complete scanning process with the pedal at the scanner. After the scanning process the glass plate drives automatically back and the book cradle drives down. After changing master you just need to tip the pedal for driving up the book cradle and a complete new scan process will start.

4.3.4.5 Automatic Glass plate

After a scan the glass plate drives automatically back. Starting a new scan process will drive the glass plate back to the front.

4.3.4.6 Book cradle half down

For smaller books it's not necessary to drive the book cradle down to the end position. In this case activate this option. (Only A2-Scan)

4.3.4.7 Scan without glass

If this option is activated the glass plate will not drive to the front position when a scan process is started. (Only A2-Scan)

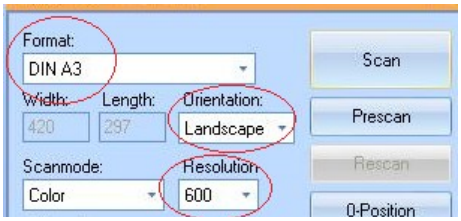
4.4 Stitch determination

Note:
In case of a 3 camera scanner (601i,600i), we have got two transitions of cameras (stitches). The first one is located approximately 15 cm to the left, of the image-centre. The second one is located approximately 15 cm to the right, of the image-centre.
On a 2 camera scanner (401i,400i,602i) the single transition of the cameras is located close to the centre of the image.

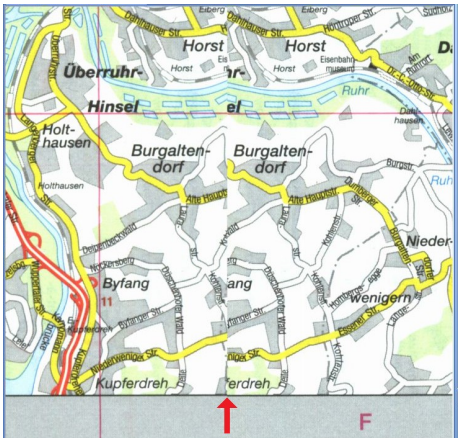
Following this instructions we'll guide you step-by-step through the determination and adjustment for the camera stitch.

a. Open the Scan options and deactivate the function „Remove Stitch“ (see chapter 4.3.1.7.1 - Remove Stitch)

b. Select the format DIN-A3 with orientation „Landscape“ and **maximum optical resolution**. (see chapter 4.1.1 - Format and 4.1.2 - Scanmode + Resolution)



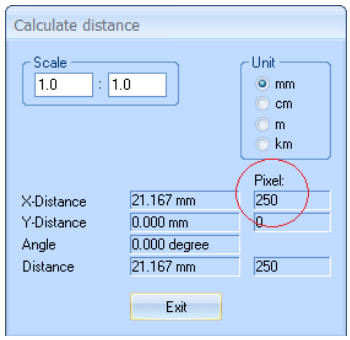
c. Make a scan from an information-rich A3 master into the camera overlapping area.



Now you can see the camera stitch at the scanned image.

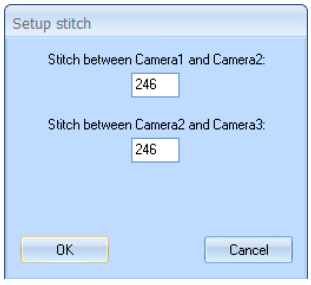
d. Make a zoom in of the stitch, select the measuring tool (see chapter 8.1 - Measure distance) and move the cross-hair to a distinctive point at the left of the scan and click on it with left mouse button. Now move the mouse cross-hair to the right side of the image and find exactly the **identica**l point, than already marked at the left. Click on it with the left mouse button.

In our example we used the left lower corner of the letter "B" from the word "Burgalten-" for these measuring points. After the second mouse click, a window will pop up, showing the distance information. Please make a note of the value displayed under "Pixels". Our example shows 250 Pixels, for the stitch between camera 1 and camera 2.



e. In the next step we do the same thing again, this time for the stitch between camera 2 and camera 3 (centre and right-hand portion of the image). In case of a 2 camera scanner (401i, 400i, 602i) this step is not applicable, because there is only one stitch on these models. Please keep in mind that the scan for measuring the overlapping, always has to be done with maximum optical resolution !

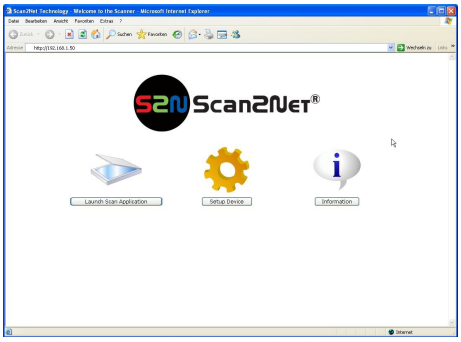
f. For storing the determined stitch values, click in the "Scan options" on the button "Setup stitch". Just key in the numbers of pixels you measured as described above.



Now check in the "Scan-Options" the box "Remove Stitch". If the point "Dynamic Stitch" is activated, remove the confirmation through a click.

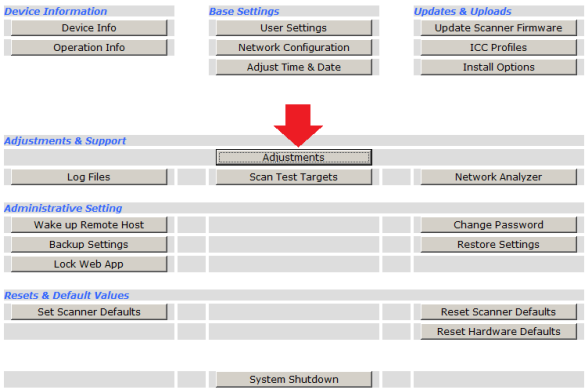
g. Now make a new scan A3 (landscape) and zoom the left area of the sample and see the result of the stitch in a possible Y- difference. In our example there is shown a Y-difference from about 4 Pixels.

h. To correct the difference it has to be contacted to the scanner with the Internet explorer. Therefore you add into the address gap of the Internet explorer the IP address of the scanner.
The scanner's standard address is: 192.168.1.50
Is there inserted another IP address you have to use the changed one. After pressing the Return-button the Internet explorer should show following window.

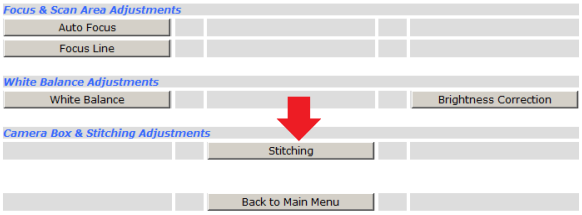


i. Now click on „Setup Device"and on the next screen select the log-in level „Poweruser".
Enter the user name (Benutzername) „Poweruser" and the Password (Kennwort):„Poweruser" in the log-in dialog and confirm log-in with „OK".

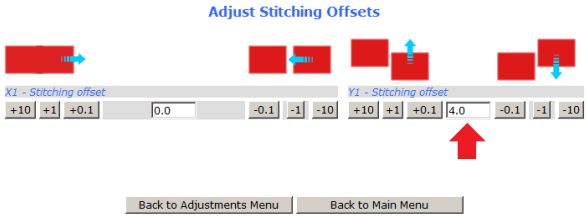
j. Click on the next screen the button „Adjustments".



On the next screen click the button „Stitching“.



k. Now the „Adjust Stitching Offsets“ shows a possibility of setting the camera pictures together.

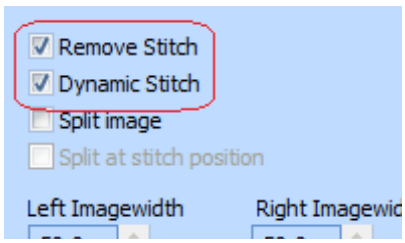


The X1-stitching offset stays ALWAYS at 0 !!
The Y1-stitching offset now has to be corrected to the circumstances.
In our example we have to modify the Y1-Offset to 4
With activating “ +10, +1 and-10, -1 “ the value will be changed depending on the sign.

l. In case of a 3 camera scanner, repeat now steps above for the Y2-offset (second transition).

m. After adjusting Y-offset and making a new scan, the result should be as shown

n. Now we have to activate for normal scanning the point “Dynamic Stitch” in the scan options.



The Stitch adjustment now has been completed and you can start with scanning.

5 Zoom

There are different methods of zooming

- Zoom in or out by pressing the key „+“ or „-“.

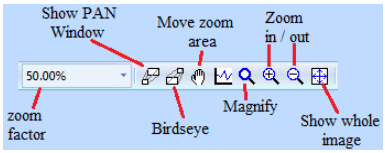
- Select a rectangle with the right mouse button pressed. The content of the rectangle will be the visible content after the zoom.

- With the function „Pan-window“.

- With the function „Magnify“

- With the function „Birdseye“

- By entering a zoom factor in the zoom-toolbar or by selecting a default value from the list..



- After zooming with „+“ or „-“ or drawing rectangle with right mouse button you can press the space bar to go back to the „show whole image“ view.

5.1 View all

Show the whole image, switch zoom off.

5.2 Max. width

Show the active image with the maximum width by using the whole window.

5.3 Max. height

Show the active image with the maximum height by using the whole window.

5.4 Original size

Show the active image in its original size (one screen pixel is one image pixel).

5.5 Magnify

You can zoom out the current mouse position by clicking this menu entry and moving with the mouse over the image. The left mouse button must be pressed.
You can switch off this function by pressing the ESC-key or by pressing the button magnify again.
Pressing F2 will change magnifier from rectangle to circle.
Pressing the cursor keys will change the magnifier size. Pressing + or – will change the zoom factor.

5.6 Birds eye

Show a zoomed rectangle in a new window. Move the mouse with the left button pressed over the image and the current position is displayed in the new window. You can use the + and - key to zoom in and out.
You can switch off this function by pressing the ESC-key or by pressing the button birds eye again.

5.7 Panning

After activating panning you can move the zoomed area over the image by pressing the mouse button. (also see chapter 6.5 - Pan-Window)

6 View

6.1 Rastermode

6.1.1 Setup mode

Set the threshold for the active image. For example a threshold of 30 means that only 30 percent of the black pixels are displayed.
This function is only for monochrome images (1 Bit).

6.1.2 Survey

Set the rastermode to overview. Only the current threshold is used to display the image (see chapter 6.1.1 - Setup mode).
This function is only for monochrome images (1 Bit).

6.1.3 Full raster

Switch rastermode to full raster. In this mode the threshold is 100.
This function is only for monochrome images (1 Bit).

6.1.4 Greyscale

Switch rastermode to greyscale. The active image is displayed with 256 shades of grey.
This function is only for monochrome images (1 Bit), and has no effect to the original image.

6.1.5 Color antialiasing

Color Antialiasing improves the appearance of polygon edges, so they are not "jagged", but smoothed out on the screen. However, it incurs a performance cost for the graphics card and uses more video memory. The level of anti-aliasing determines how smooth polygon edges are. Changes will only effect the viewed image, not the original file.

6.2 Rotate

6.2.1 Rotate 90 degree

Rotate image by 90 degree.

6.2.2 Rotate 180 degree

Rotate image by 180 degree.

6.2.3 Rotate 270 degree

Rotate image by 270 degree.

6.3 Mirror

6.3.1 X-Axis

Mirror the active image at the x-axis

6.3.2 Y-Axis

Mirror the active image at the y-axis

6.3.3 X-Axis (Area)

Mirror a selected rectangle within the active image at the x-axis

6.3.4 Y-Axis (Area)

Mirror a selected rectangle within the active image at the y-axis

6.4 Invert

Invert the active image.

6.5 Pan-Window

The whole image is displayed in a new window. In this new window you can see where you are when the original image is zoomed out. You can move the image with the mouse in the main window or in the PAN-window. You can switch off this function by pressing the ESC-key or by pressing the button magnify again.

6.6 First image

Display the first image in the page flipper directory. Use Settings in Menu File to set up the page flipper directory. (see chapter 4.3.2 - Tab „Directories“)

6.7 Previous image

Display the previous image in the page flipper directory. Use Settings in Menu File to set up the page flipper directory. (see chapter 4.3.2 - Tab „Directories“)

6.8 Refresh list

Refresh the list of the directory entries for the page flipper.

6.9 Next image

Display the next image in the page flipper directory. Use Settings in Menu File to set up the page flipper directory. (see chapter 4.3.2 - Tab „Directories“)

6.10 Last image

Display the last image in the page flipper directory. Use Settings in Menu File to set up the page flipper directory. (see chapter 4.3.2 - Tab „Directories“)

6.11 Toolbars

Switch the toolbars “Standard”, “Multipage”, “Scan”, “Markup”, “Edit” and “Statusbar” on and off.

7 Markup

All markup functions can be undone or markup information changed. They will be saved in a separated file named same as the image file, but with the extension „MRK“. Markup information will not appear in the original image file.

7.1 Select

Select an markup object to modify, delete or copy it. When make a double click on an markup object you can modify the markup objects parameter.

7.2 Undo

Undo the last markup operation.

7.3 Copy

7.3.1 Area

Copy a selectable region to the clipboard. Select a region with the left mouse button and this rectangle is copied to the clipboard. The copied Area can be pasted from clipboard as a markup object. (see chapter 7.12 - Image from clipboard)

7.3.2 Polygon Area

Copy a polygon area to the clipboard. Select all points of the polygon with the left mouse button. Select the last point of the polygon with a double click. The copied Area can be pasted from clipboard as a markup object. (see chapter 7.12 - Image from clipboard)

7.4 Save

Save markup information in a separated file. The file is named as the image file with the extension „MRK“. Markup file can be loaded automatically when you open the image file. (see chapter 1.8.7.2 - Open Markup file)

7.5 Save as...

Save markup information in a separate file, the file name can be changed.

7.6 Open

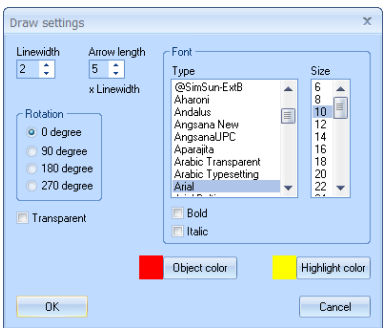
Open a markup file .

7.7 Close

Close a markup file. All markup information will disappear from the image.

7.8 Settings

Set the standard parameter for markup operation.



7.8.1 Linewidth

Select desired linewidth in pixel.

7.8.2 Arrow length

Select desired arrow length . The value will be multiplied with the defined linewidth. With the linewidth 5 and arrow length 5 you'll get an arrow length of 25 pixel.

7.8.3 Rotation

The rotation angle will define the orientation of the markup objects.

7.8.4 Font

Select the desired font style and size. All fonts installed will be shown.

7.8.5 Object color

Select the object color. The Object color is the color of lines, text, etc..

7.8.6 Highlight color

Select the highlight color. The highlight color can be used for marking (highlighting) parts of the Image. Usually this color is yellow.

7.9 Rectangle

Click and hold left mouse button to draw an rectangle as a markup. Use a double click to change parameters of the rectangle.

7.10 Filled rectangle

Click and hold left mouse button to draw an filled rectangle as a markup. Use a double click to change parameters of the filled rectangle.

7.11 Highlight

Click and hold left mouse button to markup (highlight) a image area. Use a double click to change the parameters.

7.12 Image from clipboard

You can insert an image from clipboard as a markup object to the active image. This markup will be inserted in the current image in the top left corner. Now you can drag or resize the markup to the dedicated position.

7.13 Image from file

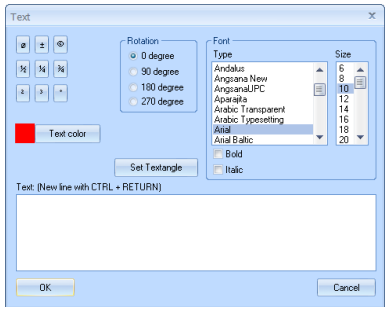
You can insert an image as a markup object to the active image. Select a file from the dialog box and this markup will be inserted in the current image in the top left corner. Now you can drag or resize the markup to the dedicated position.

7.14 Line

You can draw a line as a markup object. Click and hold left mouse button and draw the line. Press F8 if you want to deskew the line. Depending on the angle the line will be deskewed horizontally or vertically. The line has to be selected (see Chapter 7.1 - Select). Use a double click to change parameters of the line.

7.15 Text

Insert text as a markup object. Click a point within the image with the left mouse button. A dialog box comes up to insert the text. When choosing OK the text is placed as a markup object at the selected point. Use a double click to change parameters of the Text.



7.16 Annotation

Insert an annotation (Post-it) as a markup object. Click and hold left mouse button and select an area. The selected area will be marked and you can enter the desired text on it. Use a double click to change parameters.

7.17 Freehand line

Draw a freehand line as a markup object by moving over the image with the left mouse button pressed. Use a double click to change parameters of the freehand line.

7.18 Arrow

Click and hold left mouse button and draw the arrow as a markup object. The tip of the arrow will be positioned on the first point. Press F8 if you want to deskew the arrow. Depending on the angle the arrow will be deskewed horizontally or vertically. The arrow has to be selected (see Chapter 7.1 - Select). Use a double click to change parameters of the arrow.

7.19 Ellipse

Click and hold left mouse button to draw an ellipse as a markup object by drawing the bounding rectangle. Use a double click to change parameters of the ellipse.

7.20 Filled ellipse

Click and hold left mouse button to draw an filled ellipse as a markup object by drawing the bounding rectangle. Use a double click to change parameters of the filled ellipse.

7.21 Hotspot

If you want to point to a special area of the image you can add a hotspot area as a markup. Click and hold left mouse button to draw the hotspot area. Use a double click to change parameters.

7.22 Polygon

You can draw a polygon as a markup object. Select all points of the polygon with the left mouse button. Select the last point of the polygon with a double click. Use a double click to change parameters.

7.23 Filled polygon

You can draw a filled polygon as a markup object. Select all points of the polygon with the left mouse button. Select the last point of the polygon with a double click. Use a double click to change parameters.

7.24 Polylinie

You can draw a polyline as a markup object. Select all points of the polyline with the left mouse button. Select the last point of the polyline with a double click. Use a double click to change parameters of the polyline.

7.25 Pinup Text

A Pinup Text (Sticker) can be added as a markup object to the image. Click with left mouse button to the desired position. And a pin-up will appear. Use a double click to change parameters or enter text.

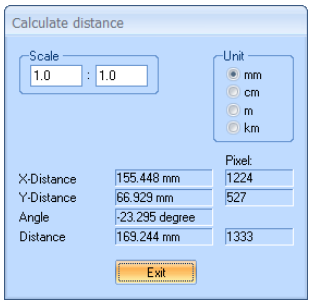
7.26 Stamp

A stamp with date, time or user can be added as a markup object to the image. Click on the desired position of the image and define the stamp parameters.

8 Tools

8.1 Measure distance

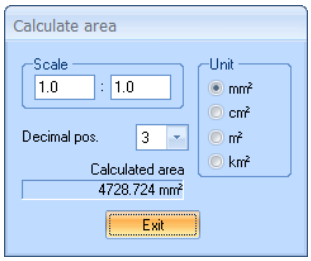
Measure a distance and an angle between two selected points. Select two points with the left mouse button within the image.



You'll get the overall distance, the X-distance, the Y-Distance and the angle in a dialog box. You can select the Unit and the scale for the result.

8.2 Calculate area

To calculate an area you need to mark every edge of the area with the left mouse button. Mark the last edge with a double click. When all edges are mark you get the following dialog :



You can select the Unit and the scale for the result.

9 Print

9.1 Print all

The whole image will be printed scaled to the paper format.

9.2 Print view

The current view will be printed scaled to the paper format.

9.3 Print splited

Print the active image divided on two pages.

9.4 Print area

A selected rectangle will be printed. Click and hold left mouse button and select an area. The content of the Area will be scaled to the paper format.

9.5 DIN-Area

With this option it is possible to print a region which fits the selected size (DIN A4 – DIN A0). Select this function and press the left mouse button within the image, keep it pressed and position the rectangle over the area you want to print.. You can toggle between portrait and landscape with the F4-key. After releasing the mouse button PROView sends the image to the print spooler.

10 Window

If you want to work with multiple windows you have to acticate the function in the settings. (see chapter 1.8.2.10 - Load image in new window)

10.1 Cascade

Arrange windows overlapped

10.2 Tile vertically

Arrange windows vertically

10.3 Tile horizontally

Arrange windows horizontally

10.4 Arrange symbols

Minimized windows will be arranged at the bottom of the viewer.

11 Help

11.1 Contents

Shows this help.

11.2 About PROView

Shows informations about PROView.

V DDE- Commands

Initialising:

Application: Proview
Topic: Rasterviewer

Execute-Commands:

- Position x, y, width, height
Set the window for Proview. x and y are the coordinates of the upper left corner. Width and height are in Pixels. The values can not exceed the actual screen resolution.
Example: Position 0, 0, 900, 700

- Load x:\xxx\xxx.xxx
Load the image which is specified by x:\xxx\xxx.xxx.
Example: load c:\images\file1.tif

- Close
Close the active image

- Wholeimage
Show the whole image (undo zooming)

- Overview
Show the image with a low threshold which is specified by setup overview.

- Fullraster
Show the image with a threshold of 100.

- Greyscale
Show the image with 256 Greyscales.

- New_Window
Create a new empty window.

- Tile_Window_Horz
Arrange windows horizontally

- Tile_Window_Vert
Arrange windows vertically

- Cascade_Window
Cascade windows

- Rotate_90
Rotate image by 90 degree

- Rotate_180
Rotate image by 180 degree

- Rotate_270
Rotate image by 270 degree

- Print
Print whole image

- Printdialog x

Set the print dialog on and off (1 = On, 0 = Off)
Example: Printdialog 0

- **Print_A4L**
  Print a A4-Landscape region

- **Print_A4P**
  Print a A4-Portrait region

- **Print_A3L**
  Print a A3-Landscape region

- **Print_A3P**
  Print a A3-Portrait region

- **Print_Tiled**
  Print active image tiled on two pages

- **Print_Large_Tiled**
  Images bigger A3 are printed tiled, images smaller A3 are printed not tiled

- **Print_Region**
  Print a selectable region

- **Print_View**
  Print active view.

- **Birdseye**
  Show birdseye window

- **Margintext Text**
  Print a margin text
  Example: Margintext This is a margin text

- **End**
  Exit PROView

VI Configuration files

All Parameters are stored in two configuration files. One configuration file is stored under “C:\Documents and settings\All users\Application data\Business Graphics\Proview\CommonProview.ini”. In this file settings for all users are stored. A second file is located under “C:\Documents and settings*User name*\Application data\Business Graphics\Proview\UserProview.ini” (where *User name* is the login name of the current user). The most settings are managed by the software, that means PROView stores these settings. But some items are only read out of the registry and the user can change them only directly in the file. Only these settings are described in the manual. Please do not modify other settings manually.

Section „Formate“
These values are used to determine the paper formats.

```
A4Hoehe=297          ; A4-Height in mm
A4Breite=210         ; A4-Width in mm
A3Hoehe=420          ; A3- Height in mm
A3Breite=297         ; A3- Width in mm
A2Hoehe=594          ; A2- Height in mm
A2Breite=420         ; A2- Width in mm
A1Hoehe=841          ; A1- Height in mm
A1Breite=594         ; A1- Width in mm
```

Section „Textformatierung“

```
Spaltenzahl=132
; Number of columns for display text files

Zeilenzahl=60
; Number of rows for display text files

Blattbreite=420
; Width in mm for display text files

Blatthoehe=297
; Height in mm for display text files


Punktgroesse=11
; Fontsize used to display text files


Schriftart=Courier New
; Type of font used to display text files

X-Aufloesung=200
; X- Resolution used for display text files

Y-Aufloesung=200
; Y- Resolution used for display text files

Fettdruck=0
; Display text in bold font,
1 = On, 0 = Off

Italic=0
; Italic-font used for display text files, 1 = On, 0 = Off

RandLinks=2          ; Left margin in mm
RandOben=2           ; Top margin in mm
RandRechts=2         ; Right margin in mm
RandUnten=2          ; Bottom margin in mm
```

VII Support

If you have questions or bugs use the following numbers to call:

ProServ GmbH
Robert-Bosch-Str. 2-4
D - 61184 Karben
Germany

Tel.: +49 (0) 6039 / 48030
Fax: +49 (0) 6039 / 480380

Email: Tech.info@proservgmbh.de

Please use the following form to send us questions and bug reports. You can either fax it or send it by email:

Company: _____

Name: _____

Street: _____

City / ZIP:_____

Phone.: _____ Fax: _____

Email:_____

PROView Version: _____

File format: _____

Operatingsystem: _____ CPU: _____

Graphic resolution: _____ x _____ Pixel

Colordepth: _____Bit

Problem description:

_____

_____

_____

_____

_____

_____

VIII Index

Custom notes:

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