

RW-7140
SCANTOOL
Reference

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RW-7140 SCANTOOL

The RW-7140 manuals contain descriptions of the programs RW-7140 PLOTBASE, RW-7140 SCANTOOL and the RW-7140 Clients, which together make up part of the RW-7140 plot management system.

The RW-7140 SCANTOOL program is optional and is not included in the standard scope of the RW-7140 system. The required license is available from your vendor.

The client-server architecture of the RW-7140 system allows each user connected to define their own print jobs and sets of drawings and to send them to RW-7140 PLOTBASE for plotting. RW-7140 PLOTBASE can process whole sets from documents or drawings, with a high degree of automation.

RW-7140 PLOTBASE accepts print jobs from CAD systems, from archived data stock, from scanning systems such as RW-7140 SCANTOOL or from other clients. The standard data formats supported are HPGL, HPGL/2, HP-RTL, Calcomp, TIFF, BMP, PCX, T6X, CIT, WMF and CALS. CGM, PDF, Postscript and VIC are optional formats. You can use the DWF, DWG and DXF formats only, if you have installed the "DWG/DXF/DWF option" on your server.

The user can sort the print jobs in RW-7140 PLOTBASE to their own criteria. The output parameters can be freely altered depending on the requirements. Individual requirements and repeat prints are possible when plotting the sets of drawings.

RW-7140 SCANTOOL is the second program that is described in this manual. This program provides you with operating functions for the scanner and for processing the scanned-in drawings.

You can set numerous default values for scanning drawings: format size, resolution, mirror, invert, density etc. You can also edit the scanned drawings using an integrated image-editing program. If you wish, the scanned drawings are automatically assigned to a job. You can adjust the print parameters beforehand. Finally, the job is sent to the RW-7140 PLOTBASE program for processing.

Overview of options

The RW-7140 system offers the following options that you can purchase from your dealer:

- RW-7140 SCANTOOL ["Scan Option"]
- File formats DWF, DWG and DXF ["DWG/DXF/DWF Option"]
- File format CGM ["CGM Option"]
- File format PDF ["PS/PDF Option"]
- File format Postscript ["PS/PDF Option"]
- File format VIC ["VIC Option"]

Manual conventions



Note: You are free to decide whether you wish to follow the recommendation given in a note or not. Tips are usually used to draw your attention to special circumstances or even to point out useful commands or ones that are easily forgotten and overseen.



Attention: It is advisable to take particular notice of any possible problems marked with "Attention" to e.g. avoid problems with your data stocks, etc.

Start and quit program

Although you had to install RW-7140 SCANTOOL as a user with administrator rights, no special user rights are required.



Note: The program can only be used by one user. It does not allow several users to use it at the same time.

- **Start program**

To start RW-7140 SCANTOOL, open the program from the "Start" bar or double click on the program symbol on the desktop.

- **Quit program**

You can either quit RW-7140 SCANTOOL via the menu bar with "Exit - Exit" or using the standard Windows keyboard shortcut ALT+F4.

Changing users

When closing, and also when logging off a user via "File - Log on/off", RW-7140 SCANTOOL automatically saves the individual settings for each user that is logged on which were made in the scan- and display settings in the main view to the left.

When this user restarts the RW-7140 SCANTOOL or logs on again using "File - Log on/off", that user's individual settings are then automatically reloaded.

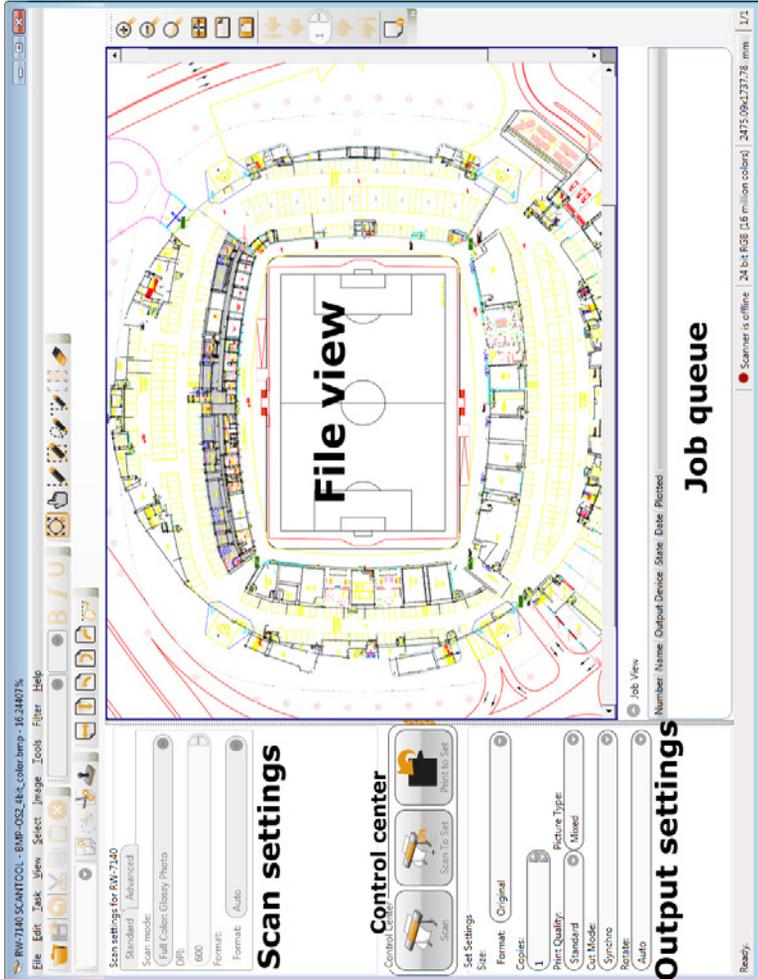


Note: The settings from "Tools - Options" are not saved for each specific user, as they have the status of global settings for all users. The program always saves the options that were set most recently, regardless of what user has entered them. If a user wishes to work with other options than those left by the previous user, the user must reconfigure them as needed.

User authentication

The user authentication is described in detail in the RW-7140 PLOTBASE manual. In this manual, references to authentication are provided at the appropriate points as required.

Program window



File management

Load drawings

Load a drawing using the "File - Open" menu. Your drawings can have the following, some optional, file formats:

- Bitmaps [Windows / OS2] (*.bmp)
- Calcomp (*.906, *.907)
- CALS [after MIL-STD-1840B]..... (*.cal)
- CALS [after MIL-STD-28002A] (*.cal)
- HPGL [/2, RTL]..... (*.plt; *.rtl)
- Intergraph (*.cit; *.tg4)
- JPEG (*.jpeg)
- PCX..... (*.pcx)
- PNG..... (*.png)
- T6X (*.t6x)
- TIFF (*.tif)
[Group 3,4; uncompressed; packbits; striped & tiled]
- Windows Meta File..... (*.wmf)

The following are available as an option:

- CGM..... (*.cgm)
- PDF..... (*.pdf)
- Postscript [RW-7140PS] (*.ps, *.eps, *.epi)
- VIC (*.vic)

You can only use the following formats if you have installed the "DWG/DXF/DWF option" on the server:

- DWF..... (*.dwf)
- DWG (*.dwg)
- DXF..... (*.dxf)

For following formats, please note that they are transformed as follows when opened:

BMP, Windows, 4 Bit Paletteto..... BMP, 24 Bit RGB

BMP, Windows, 8 Bit Paletteto..... BMP, 24 Bit RGB

BMP, OS/2, 4 Bit Palette.....to..... BMP, 24 Bit RGB

BMP, OS/2, 8 Bit Palette.....to..... BMP, 24 Bit RGB

Calcomp, 4 Bit Palette.....to.....	Calcomp, 24 Bit RGB
DXF, 8 Bit Paletteto.....	DXF, 24 Bit RGB
DWF, 8 Bit Paletteto.....	DWF, 24 Bit RGB
DWG, 8 Bit Paletteto.....	DWG, 24 Bit RGB
HPGL/2, 4 Bit grayto.....	HPGL/2, 8 Bit gray
HPGL/2, 8 Bit Paletteto.....	HPGL/2, 24 Bit RGB
HP-RTL, 4 Bit gray.....to.....	HP-RTL, 8 Bit gray
HP-RTL, 4 Bit Palette.....to.....	HP-RTL, 24 Bit RGB
HP-RTL, 8 Bit Palette.....to.....	HP-RTL, 24 Bit RGB
PCX, 4 Bit Paletteto.....	PCX, 24 Bit RGB
PCX, 8 Bit Paletteto.....	PCX, 24 Bit RGB
PDF, 4 Bit grayto.....	PDF, 8 Bit gray
PDF, 4 Bit Paletteto.....	PDF, 24 Bit RGB
PDF, 8 Bit Paletteto.....	PDF, 24 Bit RGB
PNG, 4 Bit grayto.....	PNG, 8 Bit gray
PNG, 4 Bit Paletteto.....	PNG, 24 Bit RGB
PNG, 8 Bit Paletteto.....	PNG, 24 Bit RGB
Postscript, 4 Bit gray.....to.....	Postscript, 8 Bit gray
Postscript, 4 Bit Palette.....to.....	Postscript, 24 Bit RGB
Postscript, 8 Bit Palette.....to.....	Postscript, 24 Bit RGB
TIFF, 4 Bit grayto.....	TIFF, 8 Bit gray
TIFF, 4 Bit Paletteto.....	TIFF, 24 Bit RGB
TIFF, 8 Bit Paletteto.....	TIFF, 24 Bit RGB
VIC, 4 Bit grayto.....	VIC, 8 Bit gray
VIC, 4 Bit Paletteto.....	VIC, 24 Bit RGB
VIC, 8 Bit Paletteto.....	VIC, 24 Bit RGB

You can also load multipage documents (PDF, Postscript, HPGL, HPGL/2, TIFF). There is no limitation to the number of pages per document. You can edit multipage documents in exactly the same way as you edit documents with one page.

Save drawings

If you have made changes to your drawing you can save them using the "File - Save as" menu or using the usual Windows shortcut "CTRL+S".

RW-7140 SCANTOOL can save the following file formats:

- Bitmaps [Windows / OS2] (*.bmp)
- CALS [to MIL-STD-1840B] (*.cal)
- CALS [to MIL-STD-28002A] (*.cal)
- DWF..... (*.dwf)
- HP-RTL (*.rtl)
- Intergraph (*.cit; *.tg4)
- JPEG (*.jpeg)
- PCX..... (*.pcx)
- PDF (*.pdf)
- PNG..... (*.png)
- TIFF [single & multipage files] (*.tif)
- Windows Meta File..... (*.wmf)

File information

You can obtain information on a drawing currently being opened, e.g., drawing size, DPI, or color depth. Select the menu item "File - File Information" or click the button with the "i" once.

Calibration

To produce top quality colorfast copies, firstly you must proceed with calibration for all scanners/plotters machine combinations used for this purpose:

1. Start calibration from the "Tools - Calibration" menu.
2. If you have not already done so, click on "Print" to printout the calibration template or click on "Next" to skip this step.
When you click on "Print", the program opens the template automatically.
3. After completing the printout, wait until the template has dried.
The program draws your attention to this with a corresponding message.



Note: Do not perform any program functions while the template is drying, and leave the program message on the screen until you can continue with the next step 4.

4. As soon as the template has dried, click once on "Scan" and follow the instructions on the screen and machine.
5. After completing the scan, the program tells you that the profile has been successfully completed.

Presets

Setting color mode

With the menu item "Image - Mode" you can later change the color mode of an image that you have either scanned in or opened:

1 bit	black-white
8 bit	256 gray levels
24 bit	16 million colors

This setting should not be confused with the color mode settings that are made to the scan settings immediately before scanning.

"General" settings

- **Unit**

You can set which size unit is to be used for your RW-7140 SCANTOOL work: You can choose between "millimeters", "inches" and "pixels".

- **File save strategy**

Specify how a scanned drawing should be saved:

- Assign a running number to the file names automatically
- Overwrite an existing file
- Query the user for the file name

- **Startup**

RW-7140 SCANTOOL stores all presettings made by a logged-on user in the "Options" dialog. You can thus make different presettings for every logged-on user and adapt these presettings settings in every session. RW-7140 SCANTOOL will save the settings every time a user quits the application, giving different users the chance of working with their personal program configuration. This function is enabled at this point.

Checking this option also enables menu item "File - Switch user"



Attention: If you create a new Windows user who is intended to also work with RW-7140 SCANTOOL, this

user should first of all log on to Windows once, the reason being that Windows will complete some remaining steps of the installation procedure which are necessary for safe operation. Only then will the new user be able to make proper use of RW-7140 SCANTOOL.

- **Formats**

Here you predefine the formats that will be visible in the corresponding dialogs and thus be available for the daily work.

"Scan" settings

- **Scanner model**

Choose the scanner you want to use for your work.

- **Scan preview**

Having activated this option the image will be displayed whilst being scanned. Deactivating this option suppresses displaying the image until after the scan has completely finished.

- None: The preview function is deactivated
- Strips: Only parts of the previously scanned section are displayed while scanning
- Overview: The entire section that was previously scanned is displayed at all times

"Copy" settings

- **Print server**

Since you can have multiple server PCs running in your network with a RW-7140 PLOTBASE and a plotter, select here the server PC with plotter on which the RW-7140 SCANTOOL should print the copy.

- **Spool path**

Enter the directory for the print jobs as UNC path here. Enter the directory as stated in your internal network. You have the possibility of creating several SSL spool paths, so that here you can choose from all currently created spool paths.

"To File" settings

- **Directory**

Enter here the directory in which the scanned drawings should be saved. The default directory is: ..\Documents and Settings\All Users\Application data\RW-7140\RW-7140 Scantool\Files

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Page mode**

Indicate here whether you would like to save a single page or create a multipage file. To create a multipage file, you must have selected either DWF, TIFF or PDF as file format.

- **Base name, digits and start number**

Give the drawing/s a basic name. Each scanned drawing is given this file name. If you scan in several drawings at once and want to back them up as files, you also assign the starting number, which is to be appended consecutively to the first part of the file name. Then, enter, how many character items this file number should have. Maximum 8 digits are allowed, which equates to the starting number 0001. The starting number is automatically reset to 1 when you change the directory.



Note: The length of the file name should always be based on the operating system and network capacities.

Note for later scanning processes: The program keeps the settings after each scan procedure until you change them or change the directory.

Example: If you have given your first scan job with 47 drawings the basic name "Engineering", the following scan with 55 architectural drawings is given the same basic name and are numbered consecutively from 48. Change the setting if you leave the

files on the hard drive and want to be able to more easily differentiate between the jobs at a later date.

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function:

- **Date:** With this macro, RW-7140 SCANTOOL inserts the date of the plot. In the preview you can just see the current date because the plot date is not known.
- **Counter:** This macro is suitable if you have lots of drawings or entries with the same content and you want to differentiate between them by numbering them.
- **Time:** This macro inserts the time the drawing was printed.
- **User:** The text from the "User" field in the job editor is entered.

"To Email" settings

Your settings for scanning "to an email" are made on two cards.

"General" tab

- **Server**

Enter the name of the SMTP server here.

- **Port**

Enter the port number here which is used for the SMTP.

- **User name**

In order to send e-mails, you must enter the user names here with which you are known with the e-mail server. If in any doubt, ask your administrator for the right name.

- **Password**

Enter a password here if your e-mail server demands identification by means of a password.

- **E-mail address**

Enter an e-mail address available on your e-mail server which is to be entered as the sender.

- **Organisation**

If necessary, enter the name of your organization or company, if

this is to be stated in the e-mail.

- **Test SMTP connection**

You can use this button to test whether the SMTP connection is working properly.

"Advanced" tab

- **Document link type**

When you activate the "SMB" option, the drawing is saved to a Windows folder which you designate under "Directory". The default is the directory that is created automatically during installation "\\localhost\Scantool Images", which can be accessed by any user from the internet.

When you activate the "FTP" option, the drawing is saved to an FTP server. You must also configure the FTP server via "To FTP settings".

- **Address book**

Specify which address book should be used for your work.

For the "Personal address book" you can enter all the email addresses you need using "Configure address book".

If you want to use the "LDAP address book", you must also use "Configure address book" to enter the host name, the port number, and the directory on the LDAP server in which the files should be saved.

The directory is a "smart directory", meaning it automatically stores all the email addresses you have used while working. Thus it is not necessary to enter all the addresses to the directory right from the beginning.

"To FTP" settings

- **Server**

Enter the name of the FTP server here.

- **Port**

Enter the port number here which is used for the FTP.

- **User name**

In order to save files to the FTP server, you must enter the user names here with which you are known with the FTP server. If in

any doubt, ask your administrator for the right name.

- **Password**

Enter a password here if your FTP server demands identification by means of a password.

- **Test connection**

You can use this button to test whether the FTP connection is working properly.

- **Directory**

Enter here the directory on the FTP server in which the files should be saved.

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Base name, digits and start number**

Give the drawing/s a basic name. Each scanned drawing is given this file name. If you scan in several drawings at once and want to back them up as files, you also assign the starting number, which is to be appended consecutively to the first part of the file name. Then, enter, how many character items this file number should have. Maximum 8 digits are allowed, which equates to the starting number 0001. The starting number is automatically reset to 1 when you change the directory.



Note: The length of the file name should always be based on the operating system and network capacities.

Note for later scanning processes: The program keeps the settings after each scan procedure until you change them or change the directory.

Example: If you have given your first scan job with 47 drawings the basic name "Engineering", the following scan with 55 archi-

tectural drawings is given the same basic name and are numbered consecutively from 48. Change the setting if you leave the files on the hard drive and want to be able to more easily differentiate between the jobs at a later date.

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function:

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- **Counter:** This macro is suitable if you have lots of drawings or entries with the same content and you want to differentiate between them by numbering them.
- **Time:** This macro inserts the time the drawing was printed.
- **User:** The text from the "User" field in the job editor is entered.

"To Archive" settings

- **DES file**

A DES file is available as an example. This determines how the entry screen is to be structured. All the fields described in the DES file entered will be displayed on the input screen. You can create your own DES file to change the entry screen.

Regardless of whether you are creating a separate DES file or have connected an archive program to your RW-7140 system, enter here the DES file, including the directory, which RW-7140 SCANTOOL should use.

- **SDF file**

After scanning, RW-7140 SCANTOOL creates an archive file ending with *.sdf, where the data of the registration screen are saved. The SDF file created can however be imported in any database system. If an SDF file already exists, each new drawing data will add to it until you start a new archive file by allocating a new name.

Name and path of the SDF file is already preselected. If you want to create a new SDF file, allocate a name to the archive file and define the directory in which the archive files are to be

stored.

- **Archive directory**

Specify the directory in which the archive files should be stored.

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Base name, digits and start number**

Give the drawing/s a basic name. Each scanned drawing is given this file name. If you scan in several drawings at once and want to back them up as files, you also assign the starting number, which is to be appended consecutively to the first part of the file name. Then, enter, how many character items this file number should have. Maximum 8 digits are allowed, which equates to the starting number 0001. The starting number is automatically reset to 1 when you change the directory.



Note: The length of the file name should always be based on the operating system and network capacities.

Note for later scanning processes: The program keeps the settings after each scan procedure until you change them or change the directory.

Example: If you have given your first scan job with 47 drawings the basic name "Engineering", the following scan with 55 architectural drawings is given the same basic name and are numbered consecutively from 48. Change the setting if you leave the files on the hard drive and want to be able to more easily differentiate between the jobs at a later date.

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function:

- Date: With this macro, RW-7140 SCANTOOL inserts the

date of the plot. In the preview you can just see the current date because the plot date is not known.

- Counter: This macro is suitable if you have lots of drawings or entries with the same content and you want to differentiate between them by numbering them.
- Time: This macro inserts the time the drawing was printed.
- User: The text from the "User" field in the job editor is entered.

"To Set" settings

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Test connection**

You can use this button to test whether the connection is working properly. If the RW-7140 PLOTCLIENT WIN has not yet started or if no task should be opened, this will be performed automatically for this test.

Save and load presets

Using the menu option "Tools - Edit presets", save and load the presettings you have made in the scan- and output settings in the main view to the left.

First, enter your settings and then open the file selection window using "Tools - Edit presets". Assign a file name here and confirm it by selecting "Save".

Load previously saved presettings using the menu option "Tools - More presets".



Note: The settings from "Tools - Options" are not saved for each specific user, as they have the status of global settings for all users. The program always saves the options that were set most recently, regardless of what user has entered them. If a user wishes to work with other options than those left by the previous user, the user must reconfigure them as needed.

Change language

As RW-7140 SCANTOOL always runs on the server PC, where RW-7140 PLOTBASE is installed, the program runs with that language which is set up in RW-7140 PLOTBASE. For this reason you do not have any dialog in RW-7140 SCANTOOL to change the language! If you want another language here, you have to change it in RW-7140 PLOTBASE and restart both programs.

Scanning

Authentication

In the activated authentication mode, the following applies to all scanning, copying and printing procedures:

If the "machine authentication" has been activated at your RW-7140 plotter, you have to enter either a "User name" with "Password" or a "User code" to scan, copy or print jobs in the authentication mode. If you do not know your authentication data yet, please ask your administrator who is responsible for the user management.



Note: "Software authentication" is not available for RW-7140 SCANTOOL.

Global scan settings

The scan settings are the same for all job processes and are thus only explained once here for all the processes.

- **Scan mode**

There are several scanning modes available, which should be tested before using:

Use "Text" modes if the original mainly contains text or lines with lots of contrast.

Use "Photo" modes if the original mainly contains photo data.

Use "Drawing" modes if the original is a purely technical drawing.

Use "Grayscale" mode if the original is basically a grayscale drawing.

Use the combination modes "Text/Photo" and "Text/Line Art" if the original contains data in various modes.

- **DPI**

This is where you set the resolution with which the scanner is to scan the drawing. A higher resolution usually produces better results, but also a larger quantity of data. The scanning process takes longer for higher resolutions.

When it comes to resolution, consider the following relations:
The higher the resolution setting from 600 dpi, the smaller the width you can scan. The following list demonstrates the relation between resolution setting and possible scanning width:

Resolution	maximum scan width with black-white
600 dpi	914,4 mm
1200 dpi	457,2 mm

Resolution	maximum scan width with color
400 dpi	914,4 mm with maximum length 4161,4 mm
600 dpi	914,4 mm with maximum length 2774,3 mm
600 dpi	841,0 mm with maximum length 2774,3 mm

The maximum possible scanning length also depends on the resolution setting. The higher the resolution setting from 600 dpi, the smaller the length you can scan:

Resolution	maximum scan length 65535 lines, in mm: [65535 lines refer to JPEG limit]
150 dpi	11097,43 mm
200 dpi	8323,07 mm
300 dpi	5548,71 mm
400 dpi	4161,54 mm
600 dpi	2774,36 mm
1200 dpi	1387,18 mm



Note: Irrespective of selected resolution the maximum scanning length can be 15000 mm or 30000 mm depending on your engine type.

- **Format**

Select the drawing format in which the drawing is to be scanned. Apart from the standard options, "Auto" and "Window" you will also find the drawing formats, which you have already set as your default formats via "Tools - Options - General", "Formats" button.

In the case of the format setting "Auto", the scanner automatically recognizes the format width and format length of the inserted drawing.

If you select one of your previously set formats, the format size and format border values are used in the scan. The orientation as portrait or landscape format can be freely adjusted.

If you use the "Window" format setting, you can set all values as you wish: width, height, portrait and landscape.

On the "Advanced" tab, enter the following functions:

- **Contrast**

There are 7 steps for setting the contrast. Step 1 produces a light scan result, step 7 a dark scan result.

- **JPEG compression**

You have a choice between "Maximum", "Standard" and "Minimum" compression, if you have selected "Grayscale" or "Full color" as "Scan mode" on the "Standard" tab.

- **Texture removal**

If you use this option you can remove textures in a scanned drawing.

- **Feed start method**

Use this option to tell RW-7140 SCANTOOL when to start scanning a drawing put onto the scanner:

Autostart: Scanning starts when you click on "Scan" and place the original on the scanner.

"Start" button: Scanning will not start until you click on "Scan", place the original on the scanner and press the "Start" button on the scanner to start the scan.

Engine preset: This setting causes the feed method to be controlled by the device. After choosing "Auto" or "Press Start Key" on the device, follow the scanning instructions above for "Autostart" or "Start button".

- **Original output**

The list contains following options for the output of the original at the scanner: "Rear without hold" and "Upper".

File type defaults

There are many different file types and compression methods available. Normally there cannot be given general settings which always correspond to the user's needs. It depends on what the user wants to do with the data and what applications will have to work with the files.

As a rule of thumb b/w image data have best results when using file type "TIFF" and compression "TIFF group 4", which is the default setting. Gray and color images usually work best with file type "TIFF" and compression "LZW", which is the default setting, or file type "PDF" and compression "LZW".

Basic scanning

For a simple scan procedure, the following steps are required:

1. First, select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
2. Click the "Scan" button in the "Control center" once.
3. Wait for the "Set original" message on the scanner display and place the original for scanning.
The original is scanned and is displayed in RW-7140 SCANTOOL.
4. You can now edit and save the image.

Scan to File/Scan to File (NCP)

Settings

Scan settings

The scan settings are the same for all scan methods and are described further up in a separate section "Global scan settings".

Output settings

- **Directory**

Enter here the directory in which the scanned drawings should be saved.

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Page mode**

Indicate here whether you would like to save a single page or create a multipage file. To create a multipage file, you must have selected either DWF, TIFF or PDF as file format.

- **Base name, digits and start number**

Give the drawing/s a basic name. Each scanned drawing is given this file name. If you scan in several drawings at once and want to back them up as files, you also assign the starting number, which is to be appended consecutively to the first part of the

file name. Then, enter, how many character items this file number should have. Maximum 8 digits are allowed, which equates to the starting number 0001. The starting number is automatically reset to 1 when you change the directory.



Note: The length of the file name should always be based on the operating system and network capacities.

Note for later scanning processes: The program keeps the settings after each scan procedure until you change them or change the directory.

Example: If you have given your first scan job with 47 drawings the basic name "Engineering", the following scan with 55 architectural drawings is given the same basic name and are numbered consecutively from 48. Change the setting if you leave the files on the hard drive and want to be able to more easily differentiate between the jobs at a later date.

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function:

- Date: With this macro, RW-7140 SCANTOOL inserts the date of the plot. In the preview you can just see the current date because the plot date is not known.
- Counter: This macro is suitable if you have lots of drawings or entries with the same content and you want to differentiate between them by numbering them.
- Time: This macro inserts the time the drawing was printed.
- User: The text from the "User" field in the job editor is entered.

Single page scan procedure

To scan an individual page to a file, the following steps are required:

1. Activate the menu option "Task - To File".
2. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.

3. Select your output settings and also activate the option "Single Page".
4. Click the "Scan to File" button in the "Control center" once.
5. Wait for the "Set original" message on the scanner display and place the original for scanning.
The original is scanned and RW-7140 SCANTOOL saves the page to the desired file.

Multipage scan procedure

To scan multiple pages to a file, the following steps are required:

1. Activate the menu option "Task - To File".
2. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
3. Select your output settings and also activate the option "Multipage".
4. Click the "Scan to File" button in the "Control center" once.
5. Wait for the "Set original" message on the scanner display and place the original for scanning.
The original is scanned and RW-7140 SCANTOOL saves the page to the desired file.
6. After each page is scanned the message "Set original" is displayed on the scanner display and you can scan in as many documents consecutively as you like.
7. When you have scanned in the last page, click once on the "Cancel" button in the "Control center", which cancels the "Scan to File" procedure.

Scan to Email

Settings

Scan settings

The scan settings are the same for all scan methods and are described further up in a separate section "Global scan settings".

Output settings

- **To**

Enter here the recipient of the scanned drawings.

- **CC**

Enter a second e-mail address if you wish a carbon copy of every e-mail message you send via RW-7140 SCANTOOL to be sent to another recipient.

- **BCC**

Enter a second (or third) e-mail address if you wish a blind carbon copy of every e-mail message you send via RW-7140 SCANTOOL to be sent to another recipient who will be hidden from the original recipient's view.

- **Subject**

Enter here the subject of the email if necessary.

- **Mail message**

Here you can compose a message to the recipient.

Scan procedure

To scan a single page to an email, the following steps are required:

1. Activate the menu option "Task - To Email".
2. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
3. Select your output settings.
4. Click the "Scan to email" button in the "Control center" once.
5. Wait for the "Set original" message on the scanner display and place the original for scanning.

The original is scanned and RW-7140 SCANTOOL saves the file with the specified format in the Windows [SMB] or FTP directory, that you predefined in the presets under "Tools - Op-

tions - To Email - Advanced". At the same time it sends an e-mail with the link to the scanned document to that SMTP server you also predefined in the mentioned presets. It is not necessary to open your mail program for this purpose!



Note: In "Scan to Email" on Windows Vista, the link cannot be opened because of Windows Vista security policy! In this case, you first have to manually copy the download link into your browser to get access to the scanned document.

6. For each document to be sent via e-mail repeat steps 2 - 5.

Scan to FTP

Settings

Scan settings

The scan settings are the same for all scan methods and are described further up in a separate section "Global scan settings".

Output settings

- **Directory**

Enter here the directory on the FTP server in which the files should be saved.

- **Document file type**

Select here the file format that the scanned drawing should have.

- **Document compression**

Based on the file format, specify here the type of compression that should be used for file compression.

- **Base name, digits and start number**

Give the drawing/s a basic name. Each scanned drawing is given this file name. If you scan in several drawings at once and want to back them up as files, you also assign the starting number, which is to be appended consecutively to the first part of the file name. Then, enter, how many character items this file num-

ber should have. Maximum 8 digits are allowed, which equates to the starting number 0001. The starting number is automatically reset to 1 when you change the directory.



Note: The length of the file name should always be based on the operating system and network capacities.

Note for later scanning processes: The program keeps the settings after each scan procedure until you change them or change the directory.

Example: If you have given your first scan job with 47 drawings the basic name "Engineering", the following scan with 55 architectural drawings is given the same basic name and are numbered consecutively from 48. Change the setting if you leave the files on the hard drive and want to be able to more easily differentiate between the jobs at a later date.

- **Macros**

You can use a macro to enter a text field, which is not filled out until printed. In the preview you can only see the field function:

- Date: With this macro, RW-7140 SCANTOOL inserts the date of the plot. In the preview you can just see the current date because the plot date is not known.
- Counter: This macro is suitable if you have lots of drawings or entries with the same content and you want to differentiate between them by numbering them.
- Time: This macro inserts the time the drawing was printed.
- User: The text from the "User" field in the job editor is entered.

Scan procedure

To scan an individual page to a directory on an FTP server, the following steps are required:

1. Activate the menu option "Task - To FTP".
2. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
3. Select your output settings.

4. Click the "Scan to FTP" button in the "Control center" once.
5. Wait for the "Set original" message on the scanner display and place the original for scanning.
The original is scanned and RW-7140 SCANTOOL automatically sends the page to the directory on the FTP server, both of which you have set in the presettings under "Tools - Options - To FTP".
6. If you want to scan multiple pages to an FTP directory, repeat steps 2 - 5.

Scan to Archive

Settings

Scan settings

The scan settings are the same for all scan methods and are described further up in a separate section "Global scan settings".

Output settings

In this case your "Output settings" do not consist of the options from the other scanning methods but from an archive mask which displays just those data fields which have been created in the DES database description file.

This archive mask is opened automatically after each scanned page so that you can enter your data for archiving the page.

Scan procedure

To scan an individual page into an archive, the following steps are required:

1. Activate the menu option "Task - To Archive".
2. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
3. Click the "Scan to Archive" button in the "Control center" once.
4. Wait for the "Set original" message on the scanner display and place the original for scanning.
Once the page has been scanned, RW-7140 SCANTOOL opens the archive mask so that you can enter your data for archiving the page.
5. If you want to scan multiple pages to an archive, repeat

steps 2 - 4.

Scan to Set

To use the function "Scan to set", you must have installed and configured RW-7140 PLOTCLIENT WIN. The corresponding instructions are in the clients manual.

Settings

Scan settings

The scan settings are the same for all scan methods and are described further up in a separate section "Global scan settings".

Output settings

- **Size**

Original: The "Original" entry is preset. Here, the medium size corresponds to the original drawing file.

Format: The "Format" setting presents you with drawing formats that are standard throughout Europe, in Asia and the USA, namely ISO A, ANSI A-E, Asia and ARC A-E, in addition to a number of special formats.

Window: If you use the "Window" format setting, you can freely adjust the format width and height values.

If under "Format", you preselect one of the standard sizes ISO, ANSI or ARC, the format data will automatically be entered in the fields under "Window". This makes changing easier when the change differs only slightly from the standard format:

First select the required size under "Format". Now select the option "Window". Change the entries. The drawing will automatically be changed to match the size of the medium, i.e. the drawing length and width will be continuously scaled until it matches the selected medium. The result may be a distortion of the drawing. In order to prevent this, activate the option "Proportional". This will reduce or enlarge the drawing overall whilst at the same time retaining its length to width ratio.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job .

- **Print quality**

Here you can stipulate the standard quality setting for your printouts: "Draft", "Standard", "High".

- **Picture type**

This setting applies exclusively to HPGL files. Try out which setting achieves the best printing result for the image concerned. You have a choice of "Mixed", "Line art" or "Graphic art".



Note: In the case of "Line art", the program always keeps the minimum line width of 1 pixel when scaling down to make sure that no information is lost during the printout.

- **Cut mode**

There are two setting options: standard format and image size. If you have activated "image size", the plotter will cut off the drawing immediately after the end of the data. This results in optimal paper and media usage, as it produces minimal waste. But if you prefer that the printout is always cut in one standard format regardless of how much space remains unprinted, activate "Standard format". The plotter is thus instructed to always cut based on the next higher format. The advantage is that some folders require exact formats and you can use this setting to meet this requirement.

- **Rotate**

Here you can specify whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-7140 PLOTBASE will automatically rotate the drawing if this will result in less waste paper.

When you print a document which is shorter than the minimum folding length of your folder with activated folding, PLOTBASE tries to bypass the restrictions of the folder possibly by turning the document. As a result, the document is turned when printed. If you do not want this, switch the rotation function from "auto" to 0°.

Scan procedure

Proceed as follows to scan several drawings to a set:

1. RW-7140 PLOTCLIENT WIN must already be installed and ready configured before you proceed with the next step in RW-7140 SCANTOOL.
2. Activate the menu point "Task - Scan to Set".
3. Select your scan settings. The default settings are "600 DPI", "Text/Photo" as scan mode and "Auto" as format.
4. Select your output settings.
5. Click once on the button "Scan to Set" in the "Control center".
6. Wait for the request "Set original" on the scanner display and place the original in position for scanning.

The original is scanned and automatically sent to RW-7140 PLOTCLIENT. The client is automatically opened and a new job created, if these two steps have not already happened.



Note: The scanned drawings are always added to the set currently opened in RW-7140 PLOTCLIENT WIN! The client only automatically opens a new set if no set has been opened yet.

7. Repeat steps 5 and 6 for every drawing that you want to scan and add to the set.
8. As soon as you have scanned all drawings, you can print the set in RW-7140 PLOTCLIENT WIN or simply save it until you are ready for further processing.

Copying

Authentication

In the activated authentication mode, the following applies to all scanning, copying and printing procedures:

If the "machine authentication" has been activated at your RW-7140 plotter, you have to enter either a "User name" with "Password" or a "User code" to scan, copy or print jobs in the authentication mode. If you do not know your authentication data yet, please ask your administrator who is responsible for the user management.



Note: "Software authentication" is not available for RW-7140 SCANTOOL.

Scan settings

The scan settings are the same for all scan methods and are described above in a separate section "Global scan settings".

Output settings

- **Output device**

You can choose one of the connected output devices for printing.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job .

- **Size**

Original: The "Original" entry is preset. Here, the medium size corresponds to the original drawing file.

Format: The "Format" setting presents you with drawing formats that are standard throughout Europe, in Asia and the USA, namely ISO A, ANSI A-E, Asia and ARC A-E, in addition to a number of special formats.

Window: If you use the "Window" format setting, you can freely adjust the format width and height values.

If under "Format", you preselect one of the standard sizes ISO, ANSI or ARC, the format data will automatically be entered in the fields under "Window". This makes changing easier when the change differs only slightly from the standard format:

First select the required size under "Format". Now select the option "Window". Change the entries. The drawing will automatically be changed to match the size of the medium, i.e. the drawing length and width will be continuously scaled until it matches the selected medium. The result may be a distortion of the drawing. In order to prevent this, activate the option "Proportional". This will reduce or enlarge the drawing overall whilst at the same time retaining its length to width ratio.

- **Print quality**

Here you can stipulate the standard quality setting for your printouts: "Draft", "Standard", "High".

- **Picture type**

This setting applies exclusively to HPGL files. Try out which setting achieves the best printing result for the image concerned. You have a choice of "Mixed", "Line art" or "Graphic art".



Note: In the case of "Line art", the program always keeps the minimum line width of 1 pixel when scaling down to make sure that no information is lost during the printout.

- **Fold**

If a folder is connected, the device's various fold programs will be selectable here

- **User name**

This field displays the name of the employee who has compiled the plot job and sent it for printout.

- **Account**

The account [number] of the customer is entered here. This can be an account number that is allocated in-house or an in-house

invoice recipients.

- **Cost center**

You can enter a cost center here. This field can be assigned default values from RW-7140 PLOTBASE!

- **Project**

In this field you can specify the project the print job is associated with. This field can be assigned default values from RW-7140 PLOTBASE!

On the "Advanced" tab, enter the following functions:

- **Cut mode**

There are two setting options: standard format and image size. If you have activated "image size", the plotter will cut off the drawing immediately after the end of the data. This results in optimal paper and media usage, as it produces minimal waste. But if you prefer that the printout is always cut in one standard format regardless of how much space remains unprinted, activate "Standard format". The plotter is thus instructed to always cut based on the next higher format. The advantage is that some folders require exact formats and you can use this setting to meet this requirement.

- **Rotate**

Here you can specify whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-7140 PLOTBASE will automatically rotate the drawing if this will result in less waste paper.

When you print a document which is shorter than the minimum folding length of your folder with activated folding, PLOTBASE tries to bypass the restrictions of the folder possibly by turning the document. As a result, the document is turned when printed. If you do not want this, switch the rotation function from "auto" to 0°.

- **Media type**

Use this menu to select which type of media the drawing is to be printed on: Don't care, Plain Paper, Translucent, Film or Recycled Paper. The selection depends on what roll of medium you have fed in the plotter.

- **Color profile**

Here you can select which color profile should be used. The selection depends on what color profiles have been adjusted in RW-7140 PLOTBASE. For further information on the color profiles consult your RW-7140 PLOTBASE manual

Copy procedure

The following steps are required for a copy procedure:

1. In addition to RW-7140 SCANTOOL, also start RW-7140 PLOTBASE.
2. Activate the menu option "Task - Copy".
3. Select your scan settings. The default settings are "600 DPI", "Text/Photo" for scan mode and "Auto" for format.
4. Select your output settings.
5. Click the "Copy" button in the "Control center" once.
6. Wait for the "Set original" message on the scanner display and place the original for scanning.
The original is scanned and automatically sent to RW-7140 PLOTBASE, where it is printed according to your output settings.
7. You can track the job status in the RW-7140 SCANTOOL job view below the image view.

Using presets

When the program is delivered, three pre-defined copy settings are available, which you can load using the menu option "Tools

- Edit presets":
 - Copy draft
 - Copy normal
 - Copy high quality

- **Copy "Draft"**

The following presettings apply for this mode:

Scan settings

- Scan mode: Black and white / Text, Line Art
- Resolution: 200 DPI
- Format: Auto
- Texture removal: On

- Contrast: Center position
- Feed start method: Autostart
- Original output: Upper

Output settings

- Output device: RW-7140
- Copies: 1
- Format: Original
- Print quality: Draft
- Picture type: Mixed
- Fold: Off
- Cut mode: Synchro
- Rotate: Auto

• **Copy "Normal"**

The following presettings apply for this mode:

Scan settings

- Scan mode: Grayscale
- Resolution: 300 DPI
- Format: Auto
- Contrast: Center position
- JPEG compression: Standard
- Feed start method: Autostart
- Original output: Upper

Output settings

- Output Device: RW-7140
- Copies: 1
- Format: Original
- Print quality: Standard
- Picture type: Mixed
- Fold: Off
- Cut mode: Synchro
- Rotate: Auto

• **Copy "High quality"**

The following presettings apply for this mode:

Scan settings

- Scan mode: Grayscale
- Resolution: 600 DPI
- Format: Auto
- Contrast: Center position
- JPEG compression: Minimum

- Feed start method: Autostart
 - Original output: Upper
- Output settings
- Output Device: RW-7140
 - Copies: 1
 - Format: Original
 - Print quality: Highest
 - Picture type: Mixed
 - Fold: Off
 - Cut mode: Synchro
 - Rotate: Auto

Printing

Read this chapter if you want to open and print an already existing file without a previous scanning procedure.

Authentication

In the activated authentication mode, the following applies to all scanning, copying and printing procedures:

If the "machine authentication" has been activated at your RW-7140 plotter, you have to enter either a "User name" with "Password" or a "User code" to scan, copy or print jobs in the authentication mode. If you do not know your authentication data yet, please ask your administrator who is responsible for the user management.



Note: "Software authentication" is not available for RW-7140 SCANTOOL.

Output settings

- **Output device**

You can choose one of the connected output devices for printing.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job .

- **Size**

Original: The "Original" entry is preset. Here, the medium size corresponds to the original drawing file.

Format: The "Format" setting presents you with drawing formats that are standard throughout Europe, in Asia and the USA, namely ISO A, ANSI A-E, Asia and ARC A-E, in addition to a number of special formats.

Window: If you use the "Window" format setting, you can freely adjust the format width and height values.

If under "Format", you preselect one of the standard sizes ISO, ANSI or ARC, the format data will automatically be entered in the fields under "Window". This makes changing easier when the change differs only slightly from the standard format:

First select the required size under "Format". Now select the option "Window". Change the entries. The drawing will automatically be changed to match the size of the medium, i.e. the drawing length and width will be continuously scaled until it matches the selected medium. The result may be a distortion of the drawing. In order to prevent this, activate the option "Proportional". This will reduce or enlarge the drawing overall whilst at the same time retaining its length to width ratio.

- **Print quality**

Here you can stipulate the standard quality setting for your printouts: "Draft", "Standard", "High".

- **Picture type**

This setting applies exclusively to HPGL files. Try out which setting achieves the best printing result for the image concerned. You have a choice of "Mixed", "Line art" or "Graphic art".



Note: In the case of "Line art", the program always keeps the minimum line width of 1 pixel when scaling down to make sure that no information is lost during the printout.

- **Fold**

If a folder is connected, the device's various fold programs will be selectable here

- **User name**

This field displays the name of the employee who has compiled the plot job and sent it for printout.

- **Account**

The account [number] of the customer is entered here. This can be an account number that is allocated in-house or an in-house invoice recipients.

- **Cost center**

You can enter a cost center here. This field can be assigned default values from RW-7140 PLOTBASE!

- **Project**

In this field you can specify the project the print job is associated with. This field can be assigned default values from RW-7140 PLOTBASE!

On the "Advanced" tab, enter the following functions:

- **Cut mode**

There are two setting options: standard format and image size. If you have activated "image size", the plotter will cut off the drawing immediately after the end of the data. This results in optimal paper and media usage, as it produces minimal waste. But if you prefer that the printout is always cut in one standard format regardless of how much space remains unprinted, activate "Standard format". The plotter is thus instructed to always cut based on the next higher format. The advantage is that some folders require exact formats and you can use this setting to meet this requirement.

- **Rotate**

Here you can specify whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-7140 PLOTBASE will automatically rotate the drawing if this will result in less waste paper.

When you print a document which is shorter than the minimum folding length of your folder with activated folding, PLOTBASE tries to bypass the restrictions of the folder possibly by turning the document. As a result, the document is turned when printed. If you do not want this, switch the rotation function from "auto" to 0°.

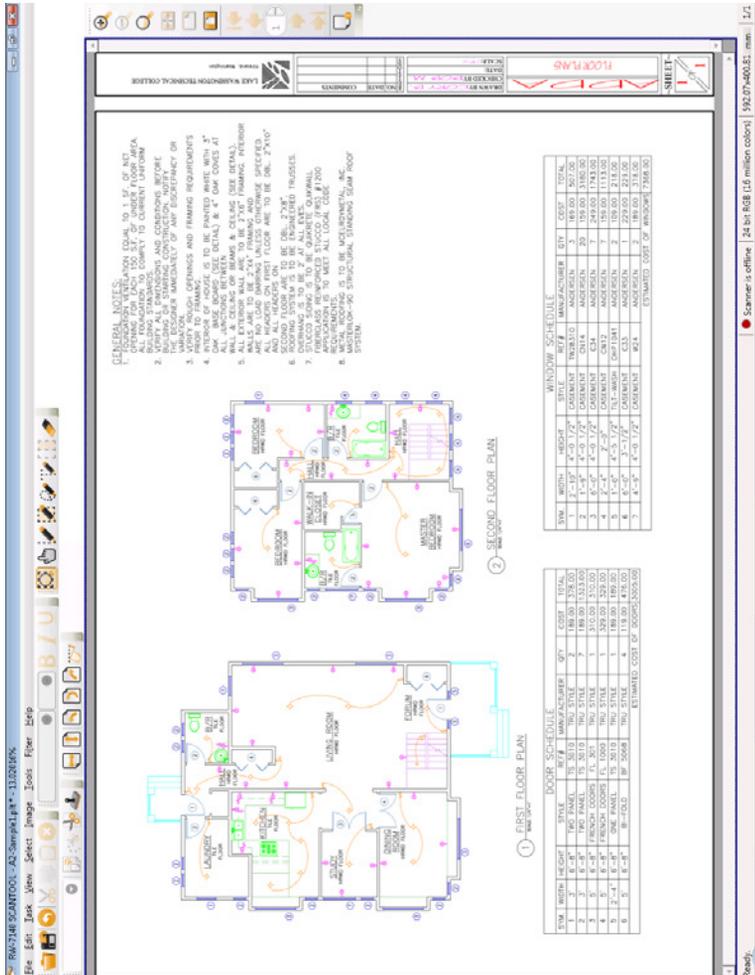
Print procedure

The following steps are required for a printout:

1. In addition to RW-7140 SCANTOOL, also start RW-7140 PLOTBASE.
2. Open a file by selecting "File - Open".
3. Select your output settings.
4. Click the "Print" button in the "Control center" once.
5. The original is scanned and automatically sent to RW-7140 PLOTBASE, where it is printed according to your output settings.
6. You can track the job status in the RW-7140 SCANTOOL job view below the image view.

Edit drawings

In editing drawings you can switch to the Editor mode via the menu option "View - Editor", which will close several panes and free up more space for editing:



space on the interface. In both views all program functions are available at all times.



Note: With very large documents certain steps might not be completed in the editor. The reason is that there is not enough virtual memory that can be assigned in the "Properties" of the Windows "Computer management" on the "Advanced" tab. As an additional possibility you can save each step of your work into an intermediate file, close and restart your RW-7140 SCANTOOL as soon as completion will fail. This will reset the virtual memory.

Align

A slipped drawing is very easy to align. Simply select "Image - Align" or the corresponding button from the menu bar.

You can now set the mouse at any point on the drawing and drag the mouse in the required direction. The program aligns the drawing along this "mouse line".



Note: If the drawing is very large and/or complex and its display requires a large memory space, the aligning can take somewhat longer. In such a case the program gives you a corresponding message and you can cancel this function.

Rotate and mirror

If you want to rotate or flip an image, click once on the relevant button or use the functions by selecting the "Image - Transform" menu option. The action is performed immediately.

These commands change the view and position of the drawing, but they also change the whole drawing. When closing the drawing, the program therefore asks whether the changes should be saved.

Scale

If you want to scale the drawing, either select the "Image - Scale tool" menu option or click the relevant button once. Then select the format, change the formatting dimensions if necessary, and enter the format alignment.

This setting is no longer just associated with the view but is also copied when the file is saved!

Filter

Reduce noise

When dirt particles collect on the drawing during scanning, you can remove these using a filter. Select the menu option "Filter - Reduce noise" for this purpose.

The program opens a window in which you can indicate which surfaces should be deleted and at what pixel quantity to start moving downwards: If for example you enter 7 pixels, all surfaces with a size of 7 x 7 pixels and below are deleted.

Black-white point adjustment

This function is used to reset the "white point" and the "black point" in an image.

The gray levels of the image are displayed with a brightness control from 0 (black) to 255 (white) in a bar chart. You can now choose two gray values which are set to the "white" and "black" values respectively.

The area between the new "white point" and the new "black point" is represented through linear contrast stretching in the range of brightness values from 0 to 100%. The new brightness values of the gray values arising from the "black-white point adjustment" are thereby transferred to the brightness values of the colors in the image.

In the bar chart you can either enter the the "white- and black point" values directly to the input fields of the same name or define them in the image with a click of the mouse, provided you have previously clicked the relevant point in the center of the setting window (black or white).

When the value is entered directly, a value range from "[black

point + 1] - 255" applies for the white point and from "0 - [white point - 1]" for the black point.

This function cannot be used for black-white images (1 bit). The image or the image section must be available in 4-bit (16 gray levels), 8-bit (256 gray levels), or 24-bit RGB.

Cut and crop

When you want to cut out a section from a drawing, first select the desired area with the Select button and then cut it with the Cut button. If you haven't correctly achieved the desired starting point in selecting and want to try again, right-click once and start again.

If you are only keeping a certain area and want to delete the rest of the drawing, first select the desired area using the Select button, then cut using the Cut button. The desired area of the drawing will remain.

This is the basic function of "Crop" if you don't need to utilize the related setting options.

With the setting options you can either choose a standard format or enter free dimensions for width and height directly and then additionally determine the format alignment. Finally, click "Crop" to execute the function.

Insert text

When you want to enter text, click the Text button once and begin entering text. Enter the text color in the color field at the top and the text background color in the color field at the bottom. Next, format your text using the symbol toolbar as is typical with standard applications.

If you do not want to position the text as a standard, you can rotate it clockwise through 90°, 180° or 270°.

You can also specify the insert mode. If you select "Opaque", the inserted text overwrites the area beneath it. If you select "Transparent" the inserted text lies "beneath" the existing drawing, whereby parts of the inserted text can be overwritten.

If you have finished all the settings, copy your text using "Copy text".

The text is still selected on the drawing so that you can freely position it as you like.

Draw lines and freehand

If you want to draw freehand, click the appropriate button once. For lines, enter the line thickness, line color, and line ending and begin drawing. For this, specify the starting point with the cursor and drag the line to the desired end point.

For freehand drawing, you can set line thickness and line color. In contrast to drawing lines, here you keep the mouse key pressed down and begin drawing. The default line thickness is 0.35 mm.

Draw rectangles

If you want to draw rectangles, click the relevant button once. If you want to add a border, enter the color in the color field above and the border thickness under "Size". Set the color for the rectangle in the color field below or select the option "transparent" instead of a color. Under style, choose the structure of the color surface.

Stamp

The option to create and configure stamps is not available in RW-7140 SCANTOOL. Here it is necessary that you have already completed your stamp files separately. You can then open the desired stamp using the "File name" field and specify the stamp position:

The border matches the drawing, allowing you to choose between nine positions. In addition, in the field below you can shift the position just activated by the valid scale unit that you have set under "Options - General".

Use eraser

If you want to use the eraser, click the relevant button once. Set the eraser thickness and color and start erasing. The default

eraser thickness is 2.54 mm.

Invert

If you want to invert the whole drawing, click once on the Invert button - the drawing will be completely inverted.

If you only want to invert one section of the drawing, first select the desired section using the Select button and then use the Invert button to invert it. If you haven't correctly achieved the desired starting point in selecting and want to try again, right-click once and start again.

Contrast, brightness, and gamma

If you want to change one of the values named, open the appropriate dialog box using the "Image - Adjust" menu option. For each of the settings, a controller is provided for changing the value. Direct entry of the value is not possible.

Merge images

To merge one or more images, proceed as follows:

1. Open or scan the image you want to use as a basis.
2. Select the "Image - Merge images" menu option.
3. Choose the file next to "File name" that should be merged with the one that is opened.
4. Choose the mode in which the selected file should be merged with the opened file - "opaque" or "transparent".
RW-7140 SCANTOOL now places a red shaded box above the open image that matches the size of the file to be inserted.
5. Click the red box and position it at the desired location on the open image.
6. Next, click "Merge".

If you want to merge additional images with the open image, repeat steps 2 - 6.

Multipage documents

Use the multipage buttons to move through the documents and enter a page number in the page number field to reach a specific page.

The "Scanning" chapter includes descriptions of the procedure for scanning multipage documents.

The related presets, including the activation of the multipage function, are made under "Tools - Options" in the relevant "to File" section.

Job list

The job list is located below the scan display. In the job list are listed all the jobs you have sent to RW-7140 PLOTBASE. They continue to be displayed as long as they are also in the job list in RW-7140 PLOTBASE and have not yet been printed.

Using the context menu, i.e., by right-clicking a job, you also have the option of printing, canceling, or deleting a job.

- **Job number**

This column contains the consecutive job number.

- **Job name**

This is the name of the print job.

- **Job status**

This job characteristic can be used to obtain information about possible problems or plot errors during the job concerned:

OK = black = Job has been printed

Preparing data: = green = Job is prepared for printing

Pending: = blue = Job is ready for printing

Printing: = green = Job is currently being printed

Cancel: = red = Job has been canceled

- **Date**

Indicated here are the date and time that RW-7140 PLOTBASE received the print job.

- **Printer**

Indicated here is the name of the printer on which the job was printed.

File formats

In the following chart all file formats are listed, that are supported by the RW-7140 system:



Note: In the "File management" chapter you get the program specific overview of which file formats can be opened and saved and which color depths will be transformed when opening a file!

File format	Color depth	Compression	Load	Save
TIFF - Tagged Image File Format				
Adobe Developers Association / June 3, 1992, Revision 6.0				
	1 Bit B/W	Uncompressed	yes	yes
		CCITT/3 1D	yes	yes
		FAX CCITT Group 3	yes	yes
		FAX CCITT Group 4	yes	yes
		Packbits	yes	yes
		Tiled FAX CCITT Group 4	yes	no
		LZW	yes	yes
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	Uncompressed	yes	no
When opened in Scantool, transformed to 8 Bit Gray		Packbits	yes	no
when opened in Scantool, transformed to 8 Bit Gray		LZW	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Uncompressed	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Packbits	yes	no
When opened in Scantool, transformed to 24 Bit RGB		LZW	yes	no
	8 Bit Gray	Uncompressed	yes	yes
		Packbits	yes	yes
		LZW	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Uncompressed	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Packbits	yes	no
When opened in Scantool, transformed to 24 Bit RGB		LZW	yes	no
	24 Bit RGB	Uncompressed	yes	yes

		Packbits	yes	yes
		LZW	yes	yes
Limitation: Files may be accepted and printed	32 Bit CMYK	Uncompressed	no	no
Limitation: Files may be accepted and printed		LZW	no	no
BMP - Windows Bitmap Format				
Size limits apply				
	1 Bit B/W	Uncompressed	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Uncompressed	yes	no
	8 Bit Gray	Uncompressed	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Uncompressed	yes	no
	24 Bit RGB	Uncompressed	yes	yes
BMP OS/2 - Windows Bitmap Format				
Version 1.1 - 1.3 und 2.0 / Size limits apply				
	1 Bit B/W	Uncompressed	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Uncompressed	yes	no
	8 Bit Gray	Uncompressed	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Uncompressed	yes	no
	24 Bit RGB	Uncompressed	yes	yes
PCX				
Zsoft Paintbrush file format, Version 2.x bis 5.x / Size limits apply				
	1 Bit B/W	Run length	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Run length	yes	no
	8 Bit Gray	Run length	yes	no
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Run length	yes	no
	24 Bit RGB	Run length	yes	no
T6X				
RATIO Entwicklungen GmbH				
	1 Bit B/W	FAX CCITT Group 4	yes	no
CALS - Computer Aided Acquisition and Logistics Support Raster Format				
DODISS (Department of Defense Index of Specifications and Standards)				
	1 Bit B/W	MIL-STD 28002A	yes	yes
		MIL-STD 1840B	yes	yes

Intergraph CIT				
Version 3.2.0 / SDN 84-007 Intergraph Corporation				
	1 Bit B/W	FAX CCITT Group 4	yes	yes
		FAX CCITT Tiled-Group 4	no	no
JPEG - Joint Photographic Expert Group				
CCITT - The International Telegraph and Telephone Consultative committee				
Compression decided by software automatically	8 Bit Gray	Baseline	yes	yes
		Progressive	yes	no
Compression decided by software automatically	24 Bit RGB	Baseline	yes	yes
		Progressive	yes	no
HPGL, HPGL/2				
Hewlett-Packard Graphics Language / Hewlett Packard				
	1 Bit B/W	HPGL	yes	no
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	HPGL	yes	no
	4 Bit Palette	HPGL	no	no
	8 Bit Gray	HPGL	yes	no
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	HPGL	yes	no
	24 Bit RGB	HPGL	yes	no
HP-RTL				
Hewlett-Packard Raster Transfer Language / Hewlett Packard				
Compression decided by software automatically	1 Bit B/W	HP-RTL	yes	yes
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	HP-RTL	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	HP-RTL	yes	no
Compression decided by software automatically	8 Bit Gray	HP-RTL	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	HP-RTL	yes	no
Compression decided by software automatically	24 Bit RGB	HP-RTL	yes	yes
Postscript				
Adobe Systems				
	1 Bit B/W	PS , EPS	yes	no
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	PS , EPS	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	PS , EPS	yes	no
	8 Bit Gray	PS , EPS	yes	no

When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	PS , EPS	yes	no
	24 Bit RGB	PS , EPS	yes	no
PDF - Portable Document Format				
Adobe Systems, Version up to 1.6				
Compression decided by software automatically	1 Bit B/W	FAX CCITT Group 4	yes	yes
		Packbits	yes	yes
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	Packbits	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Packbits	yes	no
	8 Bit Gray	Packbits	yes	yes
		ZIP	yes	yes
		LZW	yes	yes
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Packbits	yes	no
When opened in Scantool, transformed to 24 Bit RGB		ZIP	yes	no
When opened in Scantool, transformed to 24 Bit RGB		LZW	yes	no
	24 Bit RGB	ZIP	yes	yes
		LZW	yes	yes
VIC				
OCÉ				
	1 Bit B/W	VIC	yes	no
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	VIC	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	VIC	yes	no
	8 Bit Gray	VIC	yes	no
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	VIC	yes	no
	24 Bit RGB	VIC	yes	no
DXF				
Autodesk				
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	ASCII	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Binary	yes	no
DWG				
Autodesk				
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	ASCII	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Binary	yes	no

DWF				
Autodesk DWF toolkit				
When opened in Scantool, transformed to 24 Bit RGB	2 dimensional		yes	yes
	3 dimensional		no	no
WMF				
Microsoft Windows Metafile				
			yes	yes
CGM				
NIST CGM ATA, Release 2.0				
	B/W		yes	no
PNG				
ISO/IEC JTC 1 SC 24 - ISO/IEC International Standard 15948				
Compression decided by software automatically	1 Bit B/W	Non interlaced	yes	yes
		Interlaced	yes	no
When opened in Scantool, transformed to 8 Bit Gray	4 Bit Gray	Non interlaced	yes	no
When opened in Scantool, transformed to 8 Bit Gray		Interlaced	yes	no
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	Non interlaced	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Interlaced	yes	no
Compression decided by software automatically	8 Bit Gray	Non interlaced	yes	yes
		Interlaced	yes	no
When opened in Scantool, transformed to 24 Bit RGB	8 Bit Palette	Non interlaced	yes	no
When opened in Scantool, transformed to 24 Bit RGB		Interlaced	yes	no
Compression decided by software automatically	24 Bit RGB	Non interlaced	yes	yes
		Interlaced	yes	no
Calcomp				
Calcomp Technology Inc.				
When opened in Scantool, transformed to 24 Bit RGB	4 Bit Palette	-	yes	no

The DWG/DXF/DWF formats are available only if the "DWG/DXF/DWF Option" is installed.

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