WideTEK 36

Manual

This device is ENERGY STAR compliant.

Introduction

Dear Customer,

We congratulate you on the acquisition of this innovative product from Image Access.

We at Image Access are proud of the work we do; it is the result of our extremely high standards of production and stringent quality control.

With the WideTEK 36, Image Access offers an efficient scanner which covers a wide scope of applications due to its versatility. Its integrated web based user interface makes all functions available in structured menus.

This operation manual is designed to lead you through all situations which will arise when using the WideTEK 36.

For this reason, we ask you to read the manual attentively before starting to work with the WideTEK 36. By doing so, you will avoid operation errors and you can control all functions from the beginning.

In addition please consider the following points:

- Damages to your unit may have occurred during shipping. Please check for damages immediately after delivery of the unit. Inform your supplier if damage has occurred.
- Read and ensure that you understand the safety notes. They were developed for your protection and safety as well as to protect the unit.
- Regular maintenance conserves the high quality and safety of the WideTEK 36 during the entire service life.

If you have any further questions, please feel free to contact your local dealer or Image Access, Inc. directly. Our staff will be happy to help you.

For your daily work with the WideTEK 36 scanner, we wish you success and complete satisfaction.

Regards

Your Image Access Team

About this Manual

Operation Manual

The **Operation Manual** gives all information about the normal operation and behavior of the device. It is written for people who only operate the device and do not perform setup and adjustment procedures. All device elements and software functions are described in detail, although some of them might never be used. This manual does not cover any application software. Refer to the appropriate application software manual to learn about the application software.

Setup and Assembly Manual

The **Setup and Assembly Manual** is written for technical staff with some basic mechanical as well as software skills. Many resellers will offer on-site installation; therefore, large parts or all of the setup and assembly manual might not be of interest to the reader. The access level at which the setup and adjustment processes are performed is called “Power user”. This “Power user” level is password protected from access by the normal operator.

All available manuals for this device can be downloaded from our customer service portal at http://service.imageaccess.de. Be sure to always check for the latest versions of these manuals.

This manual is divided into four sections, A to D.

Section A describes the hardware of the device. It includes unpacking and mechanical installation. These instructions must be followed carefully to ensure proper functionality, best possible quality and performance of the device. This device is a precise optical instrument and should be handled accordingly.

Note: The WideTEK 36 is delivered with an appropriate floor stand. It is recommended to always use the WideTEK 36 in combination with the floor stand.

Section B describes the software setup. It includes the optical adjustments necessary after the setup. The section also describes the installation procedure for software options.

Section C describes troubleshooting procedures and test scan generation.

Section D shows all technical data and declarations.

Version History

Version	Published in	Content/Changes/Supplements
A	January 2007	Preliminary release version.
B	February 2007	Preliminary release version. Additional information added. Troubleshooting matrix added. Some details modified.
C	May 2007	Preliminary release version. Description of the extended touch panel functions. Some functions for testing and setup purpose have been added.
D	June 2007	Preliminary release version. Some detail modifications in the touch panel menus.
E	August 2007	**Final release.** Some minor modifications in the text and in some screenshots
F	December 2007	Renumbering of the chapters. **New:** Chapter A.3 Safety Precautions Chapter A.4 Device Location with additional details. Chapter A.5 contains no details concerning the floor stand. Former chapter A.6 “Assembling the Floor Stand” has been removed. This chapter is found in a separate Assembly Manual.
G	June 2008	**Firmware V 5.** An important note added to chapter A.11.1 and A.11.2 concerning powering the scanner on and/or off in the correct way.
H	August 2008	Table D.4 corrected. Changed values for the device weight and total shipping weight.
I	May 2009	**Firmware V 5.20.** Order of chapters has been changed. Changes in the “Content on Delivery” list. Chapter B.2. 2: Some additional information, e.g. description of new stitching method.
K	September 2009	**Firmware V 5.22.** New chapter B.5.2.3.5 Guide Plate Middle inserted. Error codes added/modified.
K2	February 2010	Chapter D.3 Electr. Spec.: New value for stand-by consumption, another power supply is used.

ENERGY STAR

As an ENERGY STAR® Partner, Image Access has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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A Hardware

A.1 Safety Notes

Read and ensure that you understand the safety notes.

They are designed for your protection and for your safety.

Follow all safety notes to avoid damage to the device.

A.1.1 Marking of Safety Notes

All safety notes are marked with a yellow triangle warning sign.

Next to the warning sign, you'll find a description of the danger.

Safety Note!

Example text.

A.2 Certification

The WideTEK 36 scanner fulfills all requirements of the following standards:

IEC 60950, International Safety Standard for Information Technology Equipment

and

UL 60950, Safety of Information Technology Equipment (US and Canadian standard)

A.3 General Notice

This manual describes the functions of a complete equipped WideTEK 36 scanner. If your device is not equipped with all features, deviations are possible.

A.4 Safety Precautions

Warning: Please read all the safety precautions before you operate the scanner. Serious injury can occur to you or to others if you do not know how to use it safely.

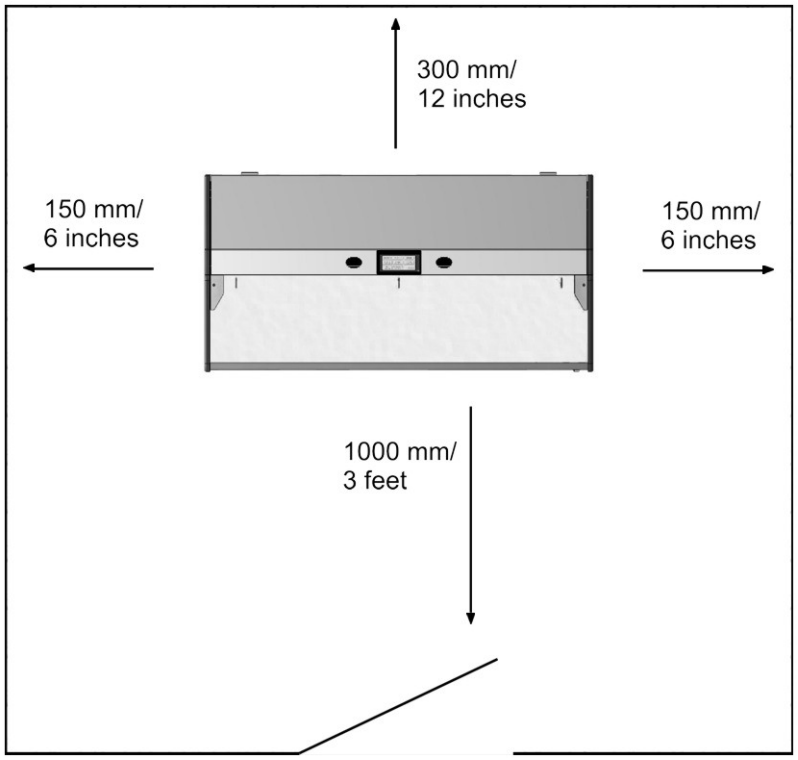
To prevent fire or shock hazard, **do not expose** this device to rain or any type of moisture.

Follow all safety precautions to avoid personal injury or damage to the device.

1. Place the scanner in a clean, well-ventilated room. Do not operate the scanner in an area with poor ventilation.
2. Openings in the scanner's housing in the front or at the back are provided for air circulation. Do not cover or block the openings.
3. Do not place the scanner near a heat or cold emitting source such as a space heater, furnace, or air conditioning unit.
4. Do not place the scanner near any devices or electrical boxes emitting high voltage.
5. Always place the scanner on a stable surface.
6. Do not lean on the scanner.
7. Do not place cups containing liquids or other such objects on top of the scanner or on the scanner table. If liquid spills into the scanner it can cause damage. If this occurs, turn the scanner off, unplug the power cord from the wall receptacle and contact the Image Access Technical Support.
8. Do not put any objects into any scanner housing openings unless specifically instructed to do so by Image Access Technical Support.
9. Do not disassemble the scanner. If there is a need to disassemble the scanner, please contact the Image Access Technical Support.
10. Do not use the scanner if it has been physically damaged. If this occurs, turn the scanner off, unplug the power cord from the wall receptacle and contact the Image Access Technical Support.
11. The scanner should be used only with the power cord that is supplied with the scanner. If you are unsure, please contact the Image Access Technical Support.
12. Image Access recommends plugging the scanner into an appropriately-rated power conditioner.
13. Always turn the power off and unplug the power cord from the wall receptacle before cleaning the scanner.
14. When cleaning, only use Image Access-approved cleaners. Do not use any type of solutions, abrasives, or acids such as acetone, benzene, kerosene, mineral spirits, ammonia, or nitric acid. Do not use any cleaners that contain these chemicals.
15. Use a dry or damp lint free cloth for cleaning the scanner.
16. Do not spray any liquids directly onto the scanner. Spray cleaning fluids directly onto the cleaning cloth and use the cloth to clean the scanner.

A.5 Device Location

Please allow a minimum of 150 mm (6 inch) from any side walls and 300 mm (12 inch) from a back wall. Leave one meter (3 feet) minimum distance from any door or entrance way. Use illustration below as a guide.



Picture 1: Minimum distances to the scanner

Do not operate the scanner in an area that has poor air circulation, and/or that is non-ventilated.

Place the WideTEK 36 on a flat and solid base. The load bearing capacity of the base must correspond to the device weight.

It is recommended to place the WideTEK 36 always on the floor stand which comes with the scanner. The floor stand gives the best ergonomic position when using the scanner.

Choose a location that complies with the limits of temperature and humidity. Refer to the technical specification.

Note: Before using the WideTEK 36 scanner in the new environment allow at least one hour for temperature adaptation.

Temperature adaptation means:
A fast change from cold to warm environmental conditions can build up condensation inside the housing. This will result in unfavorable scanned images and could cause permanent damages to the unit.

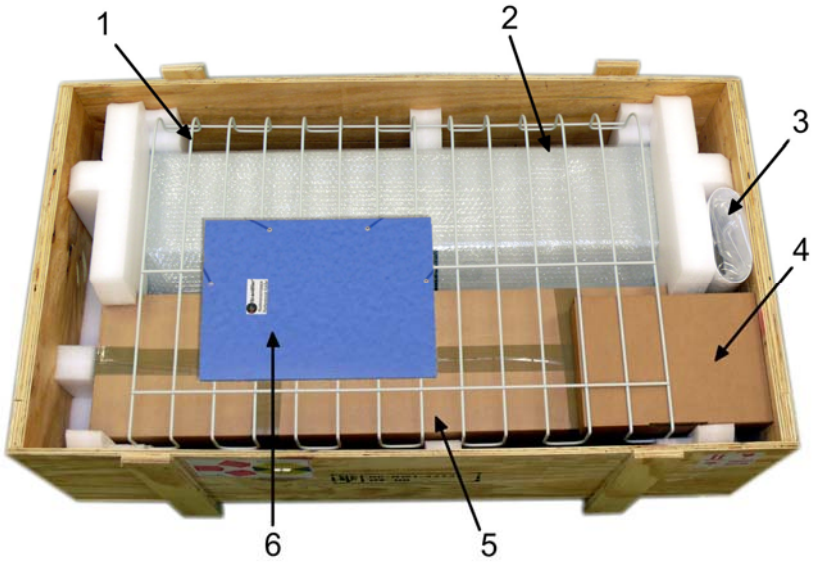
A.6 Maintenance and Repair

There are not any parts of the WideTEK 36 scanner which can be repaired by the user.

All repairs should be done by a trained technician.

A.7 Content on Delivery

The scanner is delivered in a wooden transport box. The transport box also contains the disassembled floor stand in a separate cardboard box and the paper catch basket.



Picture 2: Transport box opened

1: Paper catch basket

2: Scanner

3: White Reference Target

4: Box with cable set and accessories.

The cable set consist of:

Network cable. Connects the scanner to the network. All network parameters such as IP address, subnet mask and gateway must be set via the front panel prior to the first use.

Crossover cable. Connects the scanner directly to a computer via the network card.

Two power cables. US and European standard . Connects the scanner to the wall outlet.

5: Floor stand in separate cardboard box

6: Folder with CSTT-1 reference targets and the manuals.

Note: Keep the wooden transport box and the cardboard box for future use! In case of guarantee the scanner must be sent back in the original transport box to avoid transport damages.

A.8 Connecting to the Power Source

Before connecting the scanner to the electrical outlet check the following items:

Ensure the electrical outlet is in perfect condition and that it is properly grounded.

Ensure that the electrical outlet is equipped with a fuse with the proper capacity.

The electrical outlet must be near this device and must be easily accessible.

Inspect the power cable and ensure that it is undamaged.

Use only the power cable delivered with the scanner.

Turn the device off before plugging or unplugging any cable.

A.8.1 Connectors on the Scanner

The connectors are positioned at the left side of the housing, as seen from the operators view (i.e. from the front of the scanner).

Picture 3: Connectors at WideTEK 36

1: Power connector

2: Foot pedal connector

3: Network cable connector

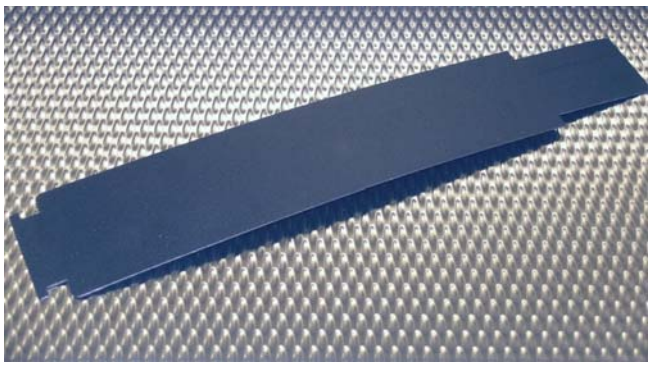
4: Main power switch

A.9 Paper Transport Wings

To ensure proper functionality of the stitching function, special paper transport wings have to be inserted. Each WideTEK 36 scanner comes with a set of two black paper transport wings.

Note: For special document types, e.g. semi-transparent documents, a set of two white paper transport wings and a white guide plate are available.

They can be replaced easily by the user.



Picture 4: Black paper transport wing

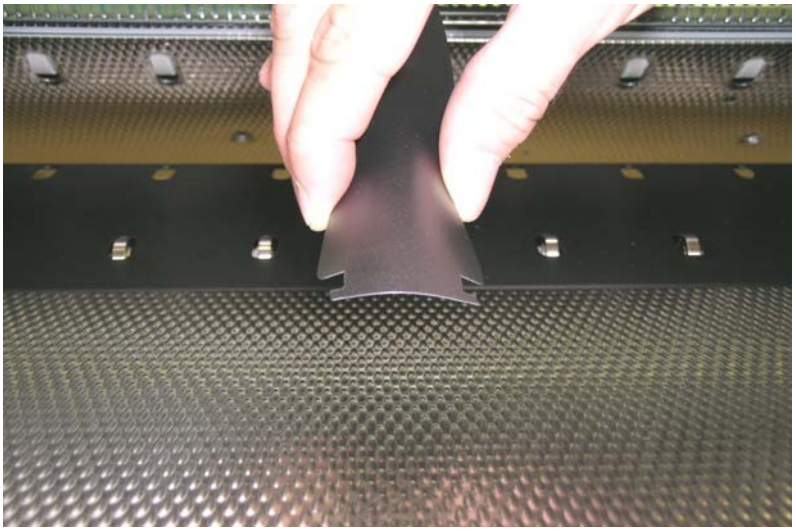
The paper transport wings have two small notches at one side. This side of the paper transport wings must be inserted at the front side of the guide plate.

In order to insert the paper transport wings, open the upper unit. Press the snap locks at the left and right side of the housing. Picture 5 shows the snap lock position on the left side.

Picture 5: Snap lock on left side of the housing

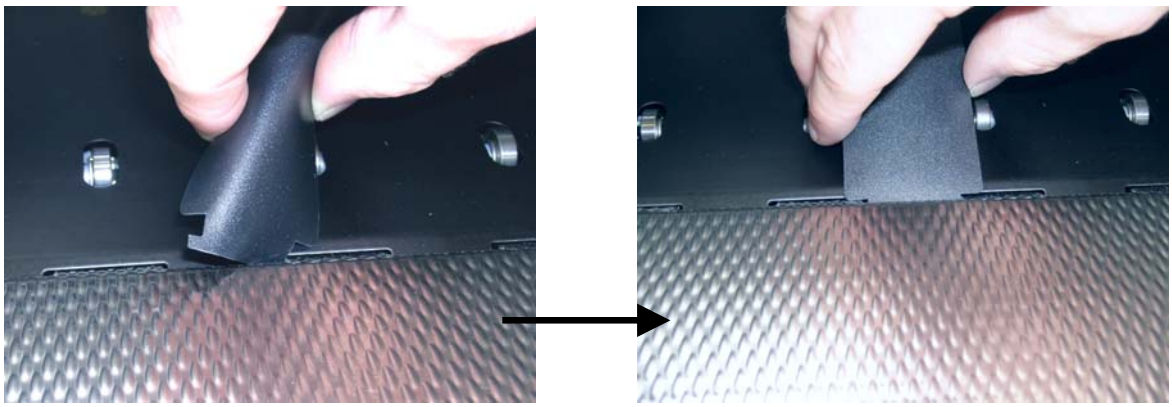
A.9.1 How to insert the Paper Transport Wings

Hold the paper transport wing near the two small notches and carefully bend it slightly in the middle. Picture 6 shows how to hold the paper transport wing.



Picture 6: Bending the paper transport wing

First insert the end of the paper transport wing with notches at the front side of the guide plate. Insert a notch as shown in the picture below, then turn the paper transport wing and insert the second notch.



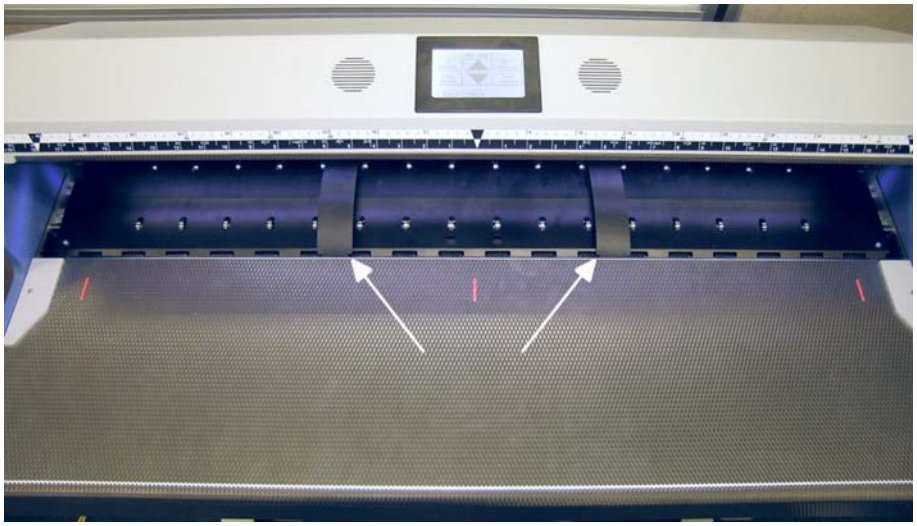
Picture 7: Inserting at the front

Depending on the document material to be scanned, the long end of the paper transport wings may handled in two different ways.

A.9.2 Position of the Paper Transport Wings

For best results the paper transport wings should be inserted at the guide plate at a position between six and seven inches (approx. 15 to 19 cm) from the center position of the document input.

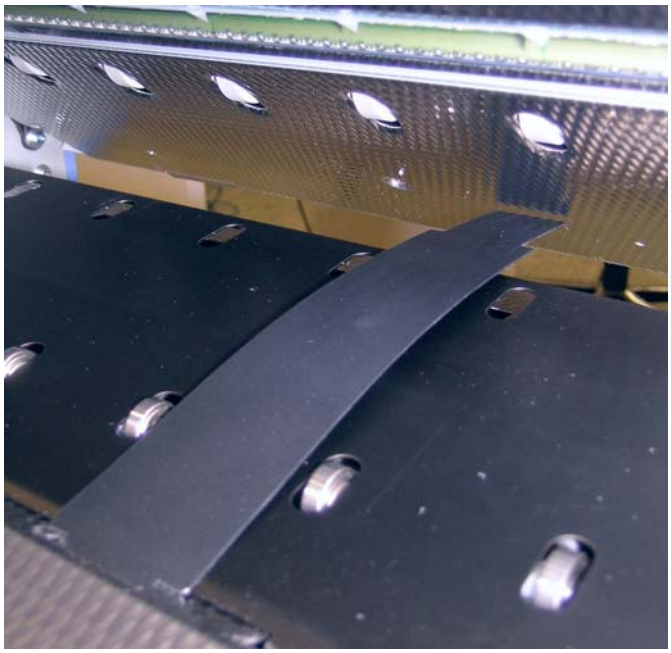
Picture 8 shows the position where the paper transport wings have to be inserted on the guide plate. In this picture the upper unit is opened to show more details.



Picture 8: Position of paper transport wings

A.9.3 Scanning documents on light, thin paper material

When scanning documents of light paper weight, the paper transport wings will not be inserted in the notches at the backside of the paper guide plate.

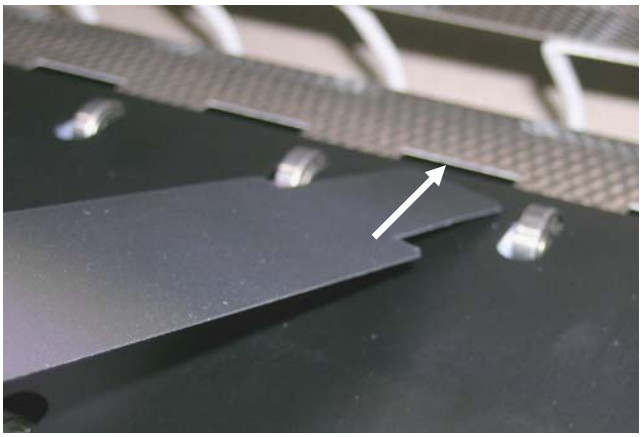


Picture 9: Position for light paper weights

A.9.4 Scanning documents on normal or heavier paper

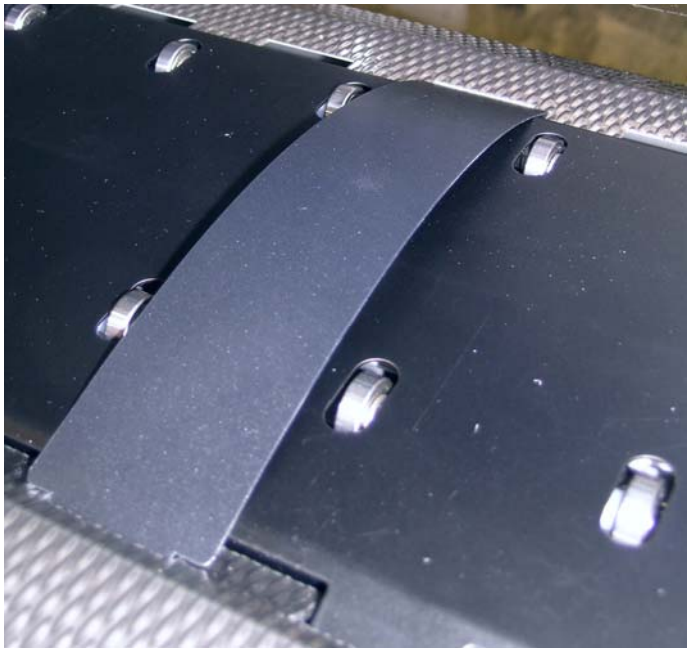
For best results, when scanning documents on normal or heavier paper, the paper transport wings must be inserted at the backside of the paper guide plate.

Insert every paper transport wing with the long end forward into the notch at the back of the guide plate.



Picture 10: Inserting at the back

Picture 11 shows the position left from the middle of the document input.



Picture 11: Position for normal and high paper weights

After inserting both paper transport wings, close the upper unit.

Note: Remove the paper transport wings before scanning any stiff documents such as cardboard.

A.10 Powering up the WideTEK 36

The main power switch is found beside the power connector.

Picture 3 shows the position of power connector and main power switch.

After connecting the scanner to the electrical outlet, switch the main power switch to position **I**. When the main power switch is in position **I**, the scanner is in stand-by mode.

Note: While using the WideTEK 36 in work conditions, it should **only be switched on and off by the touch panel**!

A.11 WideTEK 36 Touch Panel

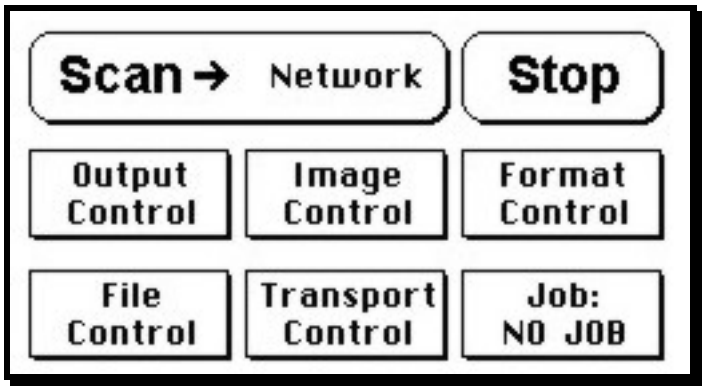
The WideTEK 36 parameters can be set and modified with the integrated touch panel. It shows an easy-to-use menu and helps the user to control all scanner parameters with the touch of a finger.

When the WideTEK 36 is powered up by using the main power switch, the touch panel is illuminated in a dimmed mode and shows the stand-by screen. The stand-by screen shows the Image Access logo and the blinking message **Touch screen to power up**.

A.11.1 Starting the WideTEK 36 from Stand-By Mode

When the WideTEK 36 is in stand-by mode, it can be started by tapping the touch panel on any arbitrary position. The touch panel lights up and a rotating hourglass indicates that the start sequence is running.

When the start-up sequence is finished, the touch panel shows the start menu screen.



Picture 12: Start menu screen

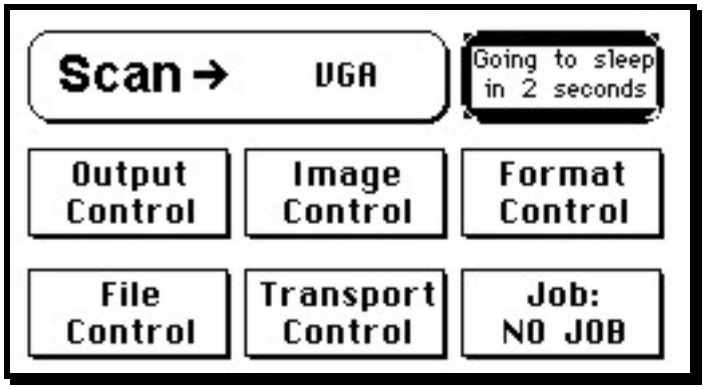
A.11.2 Turning-off the WideTEK 36

Note: **Always** turn off the WideTEK 36 scanner with the **Stop** button on the touch panel!

The main power switch should only be used when the WideTEK 36 is in stand-by mode and **before** the scanner is disconnected from the electrical outlet.

To turn the WideTEK 36 off, press and hold the **Stop** button on the touch panel.

While the **Stop** button is held, a counter in the button shows the remaining time until the WideTEK 36 is powered down. ➔ "Going to sleep in x seconds"



Picture 13: Touch panel while shut down in progress

At the end of the power-down sequence the display will be dimmed.

A.11.3 The Help Function

To support the user when working with the WideTEK 36, a help function is integrated into the touch panel menus. A **Question Mark** (?) symbol in the lower right corner of the screen activates the help function.

After touching the question mark, all controls in the screen start blinking. To get the corresponding help text, the appropriate control must be touched. To return to the respective screen, the screen must be touched again on any arbitrary place.

A.11.4 Navigating through the Screens

Some of the screens show on the bottom line the buttons < Back > More Default

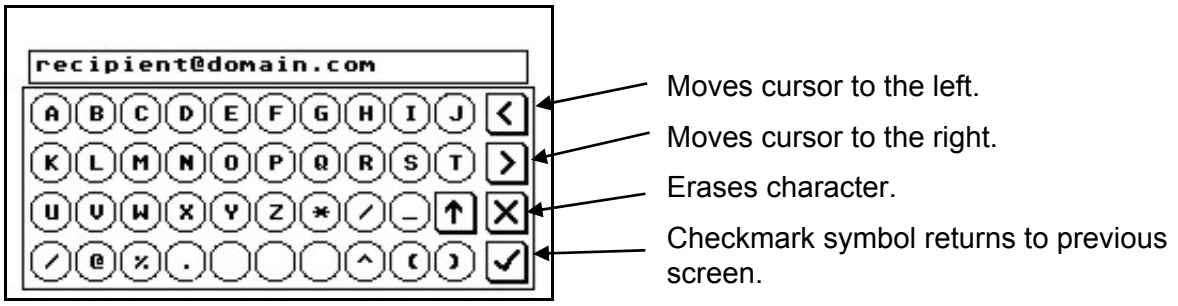
< Back — Returns to the former screen. Sometimes only the symbol **<** is displayed.

> More — Switches to the next logical screen, e.g. from **Format Control 1** to **Format Control 2**. Sometimes only the symbol **>** is displayed.

Default — Resets all values in the respective screen to default value.

A.11.5 How to Enter or Change Values

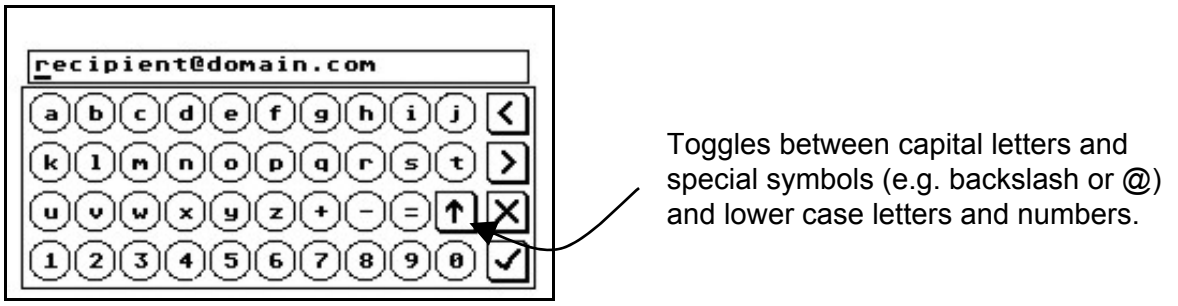
To enter new values or change existing values, the corresponding field or line in the screen must be touched. If a parameter requires an alphanumeric value, the touch panel display changes and shows a keyboard with which text and numeric values can be entered.



Picture 14: Keyboard with capital letters

The keyboard enables the user to enter capital letters, lower case letters, special characters as well as numbers.

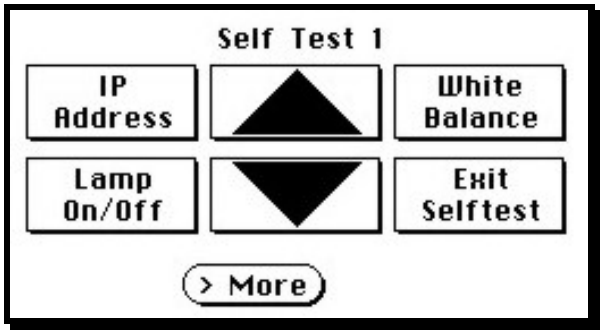
The content of the keys is switched with this key: ↑



Picture 15: Keyboard with lower case letters

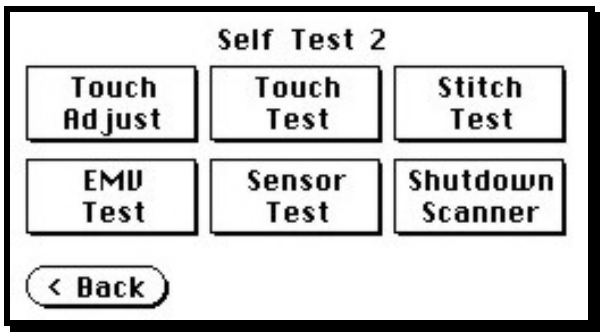
A.11.6 Self Test Mode

While the start sequence is running the WideTEK 36 can be switched to Self Test mode. Tapping on the touch panel **at least three times** starts the setup mode. After the start sequence is finished, the touch panel shows the **Self Test 1** screen.



Picture 16: Self Test 1

To move forward to the **Self Test 2** screen touch the button > More.

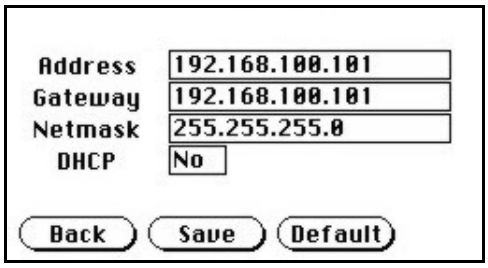


Picture 17: Self Test 2

To return to the former screen touch < Back.

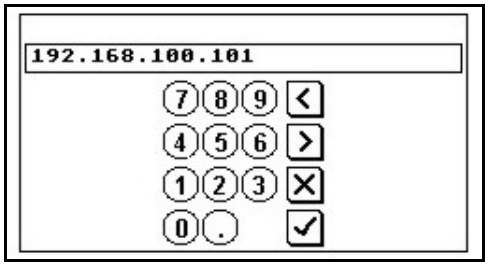
A.11.6.1 IP Address

Touch the control field **IP Address**. The touch panel changes to a mask where IP Address, Gateway, and Netmask can be entered. Also the DHCP mode can be selected.



Picture 18: Network setup

Touch on the line to be changed, e.g. the **Address** line. The touch panel shows:

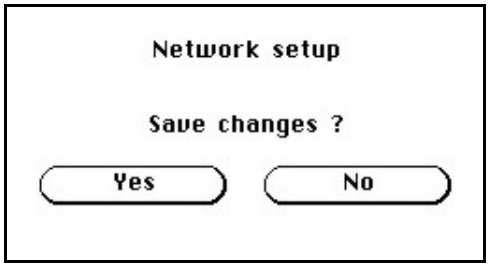


Picture 19: Numeric key pad

Enter the new values. The **<** and **>** keys move the cursor, the **X** key deletes the number at the cursor position.

To finalize the input tap on the checkmark key.

If entries have been changed, a screen opens where the changes must be confirmed. **Yes** confirms the changes, **No** discards the changes.

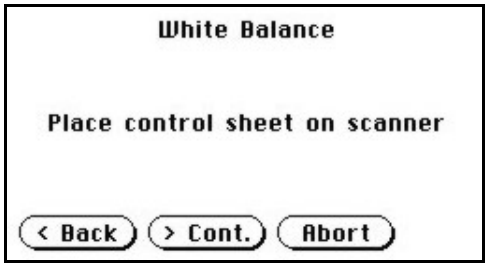


Picture 20: Confirm changes

After the changes have been saved, the setup screen is displayed again.

A.11.6.2 White Balance

Note: The paper transport wings must be inserted before starting the white balance.

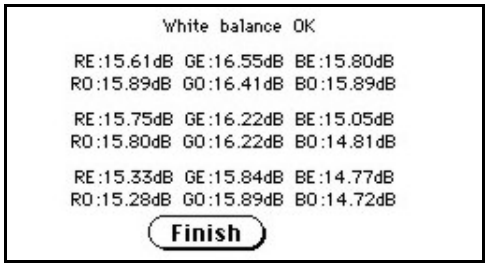


Picture 21: Insert control sheet

Touch the **White Balance** button to switch to the next screen. Now insert the control sheet. It must be transported forward and reverse. Then touch the **Cont.** button.

The control sheet will be pulled in and the measurement starts. While the measurement is running a graphic symbol shows the progress.

The **Abort** button returns to the previous screen.



Picture 22: Results of White Balance

After the white balance has been finished, the result is displayed.

Touch the **Finish** button to return to the **Self Test 1** screen.

A.11.6.3 Lamp On / Off

Touch the **Lamp On / Off** button to switch the lamps on. As long as the button is touched, the lamps will shine.

A.11.6.4 Exit Selftest

Touching **Exit Selftest** finalizes the setup mode, switches to the operation mode and shows the start menu.

A.11.6.5 Touch Adjust

This function defines the dimension of the writing area of the touch panel. The first step after selecting this function must be done very quickly to activate the adjustment procedure.

Note: It is recommended to **read first, then act**.

It is recommended to use for the following adjustment steps an appropriate pen, e.g. as used with a PDA.

Touch the **Touch Adjust** button, then press and hold the touch panel. The first message on the screen can be ignored.

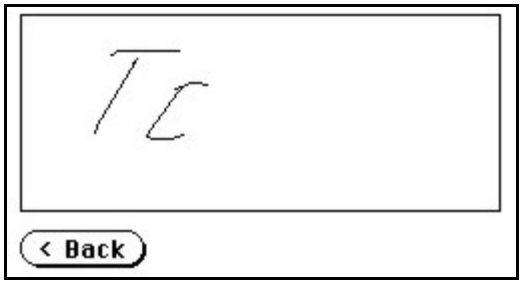
After a short moment a blinking dot appears at the upper left corner of the touch panel and the instruction **Touch this blinking dot** is displayed. Touch the blinking dot with the tip of a suitable pen.

In the next step the instruction changes to the lower right corner. Repeat touching the blinking dot in the lower right corner. After this, the touch panel returns to the **Self Test 2** screen and the setup procedure is finished.

It is recommended to check the adjustment with the **Touch Test** function.

A.11.6.6 Touch Test

Touch Test is used to check the correct function of the touch screen.



Picture 23: Testing the touch screen

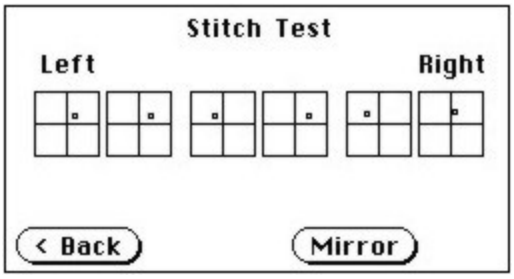
After selecting this function the display changes to a blank area.

By using an appropriate pen, e.g. as used with a PDA, write some symbols or lines on the touch panel. While writing, check the correlation between the pen's position and the position of the signs that have been written.

If the difference is to large, repeat the adjustment as described in chapter A.11.6.5.

To return to the prior screen, touch the button Back

A.11.6.7 Stitch Test



Picture 24: Stitch Test screen

Press the **Stitch Test** button to start the stitch test. This starts a program in which you can see an automatically updated view of the stitching indicators for each camera. The measurement will be executed continuously, once every second.

The cameras left, middle and right are identified as the left, middle and right cameras when looking at the scanner from the operator's view (i.e. from the front of the scanner). Each camera has a set of two stitching coordinate boxes. A stitching coordinate box exists of four quadrants.

Picture 24 shows a typical situation of the stitching indicators. That means, that the setting of all cameras are in the specified tolerances.

Ideally, the stitching indicators (the small dots inside the four-quadrant boxes) should be positioned close to the center of the crosshairs.

If a stitching adjustments is necessary, it has to be done by a trained technician.

A.11.6.8 EMV Test

This function is used for Electromagnetic Compatibility (EMC) tests.

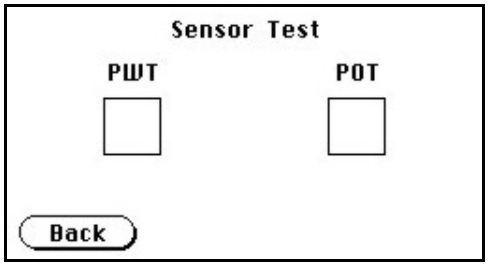
After inserting a test document into the scanner, the scan sequence is repeated until the **STOP** button is pressed.

A.11.6.9 Sensor Test

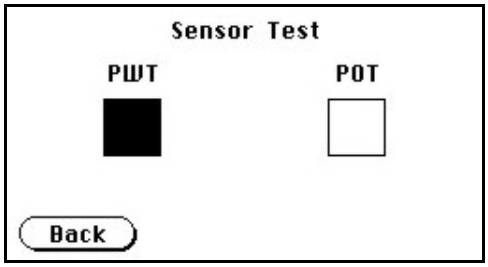
The **Sensor Test** function is used to test the sensors of the paper input and paper output.

Insert a paper sheet which covers the whole width of the document input.

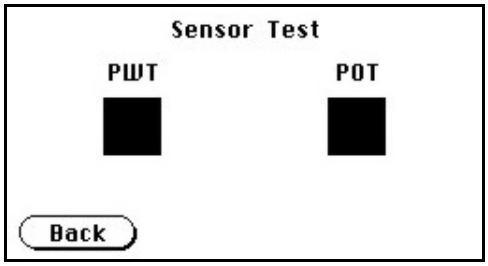
The touch screen shows the function of the sensors in three ways.



No paper detected by the sensors.



Paper detected at input side (PWT).



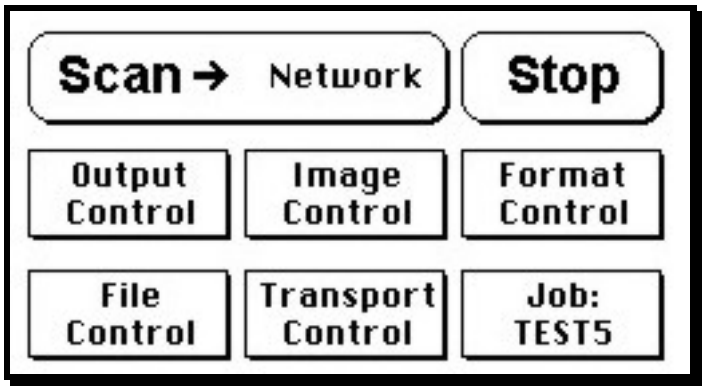
Paper detected at input side (PWT) and at output side (POT).

Picture 25: Sensor status

A.11.6.10 Shutdown Scanner

Switches the WideTEK 36 scanner off.

A.11.7 Start Menu Screen



Picture 26: Start menu screen

When all initial tests are finished, the display shows the start menu screen.

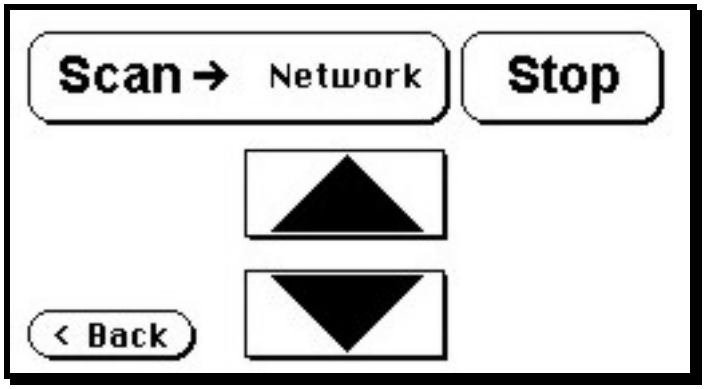
At the top of the start menu, the main controls to start a scan sequence and to stop the current action are displayed.

The scanned image can be directed to different targets.

The selected target is named in the upper line between the **Scan** and the **Stop** buttons. Picture 26 displays as selected target the network in which the scanner is integrated.

The controls in the middle and on the lower line of the menu are used to configure the parameters in detail.

After inserting a document, the touch panel changes and shows the document transport controls.

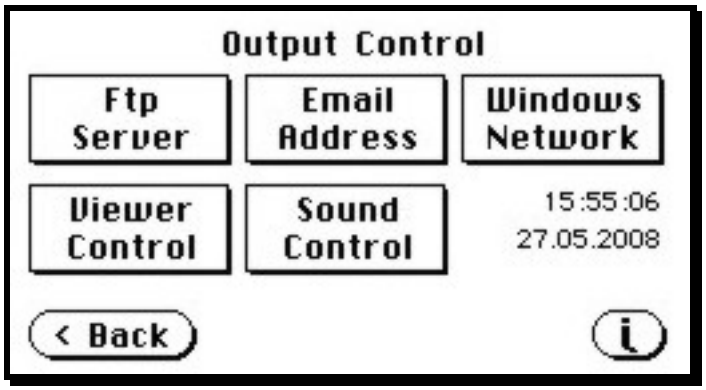


Picture 27: Document transport controls

Touching the **Back** button returns to the start menu. Touching the arrow buttons will move the document forward or backward.

When a document is inserted and the touch panel shows the start menu, pressing the **Stop** button switches back to the transport controls.

A.11.8 Output Control Screen



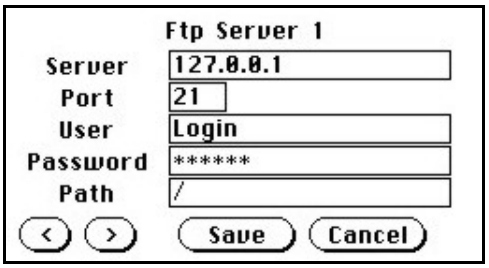
Picture 28: Output controls

A.11.8.1 FTP Server

The **Ftp Server** button enables the user to enter all necessary information for data transfer to a dedicated FTP server. The parameters are entered in two screens named **Ftp Server 1** and **Ftp Server 2**.

A.11.8.1.1 Ftp Server 1

This screen contains the server IP address and the port, the user name and the password for the server access. Additionally a path to an existing directory on the FTP server where the files should be stored can be entered.



Returns to the previous screen.

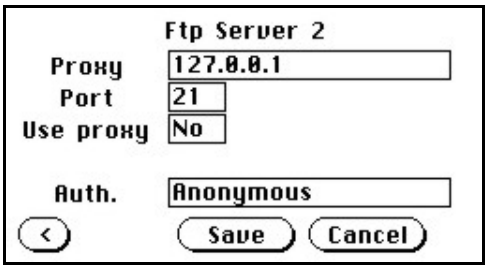
Changes to the **Ftp Server 2** screen.

Picture 29: Ftp Server 1

Note: The IP address 127.0.0. 1 (as shown in the above picture) does not represent a real existing FTP server. This IP address is typically used in networks to make the own system, the so-called “localhost”, available for TCP/IP applications.

A.11.8.1.2 Ftp Server 2

This screen contains all data for the connection with a FTP server.



Save — Stores all parameters.

Cancel — Erases all changes.

Picture 30: Ftp Server 2

Use proxy Select **Yes** to use a proxy server for the connection.

Auth. Defines the type of aut hentication at the FTP server. By t apping on the field the methods will be switched.

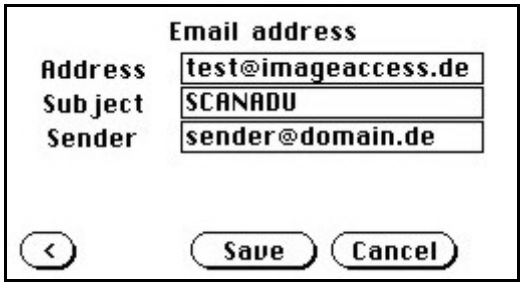
Anonymous: An anonymous connect ion will be used. The data in the fields **User** and **Password** from the **FTP Server 1** m ask will be ignored.

Login/Password: To save the images o n the FTP server a lo gin name and a password must be entered.

Ask the ad ministrator of your FTP server for the necessar y informatio n to get access to the designated FTP server.

A.11.8.2 Email Address

This menu item enables the user to send the scanned image to any arbitrary e-mail address.



Save — Stores all parameters.

Cancel — Erases all changes.

Picture 31: E-mail address parameters

A.11.8.2.1 Input an E-mail Address

Tap on the line of the e-mail address. The screen changes to input mode as shown in Picture 14 and Picture 15. Enter the desired e-mail address. The @ symbol is found on the keyboard in the capital letter layout in the bottom line.

To delete a character place the cursor below the character and tap on the **X** key.

When the complete e-mail address is entered, tap on the checkmark to return to the previous screen.

To store all entries of this menu touch the button Save.

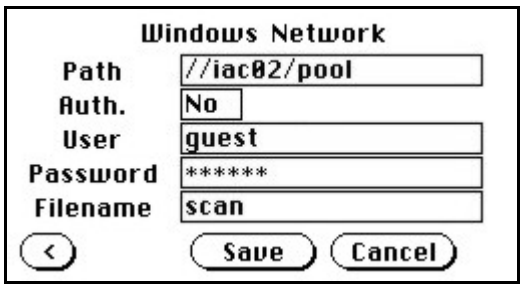
To return to the former menu, touch the button <.

If entries have been changed, a screen opens where the changes must be confirmed. **Yes** confirms the changes, **No** discards the changes.

A.11.8.3 Windows Network

Allows the user to

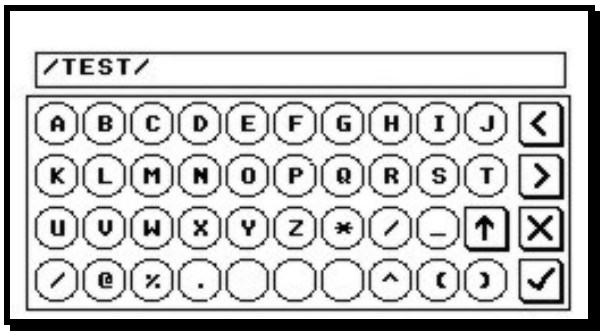
- define the network path where the image should be stored,
- the define the authentication method,
- define the user name,
- define the password,
- define the filename



Picture 32: Network parameters

To store all entries of this menu touch the button Save .

A.11.8.3.1 Input a Network Address



Picture 33: Input a Network Address

Tap on the line of the network path name. Th e touch panel changes and displays the keyboard layout.

The slash symbol **/** is found on the keyboard in the capital letter layout in the bottom line.

To delete a character place the cursor below the character and tap on the **X** key.

When the complete network address is entered, tap on the checkmark key to return to the previous screen.

To store all entries of this menu touch the button Save .

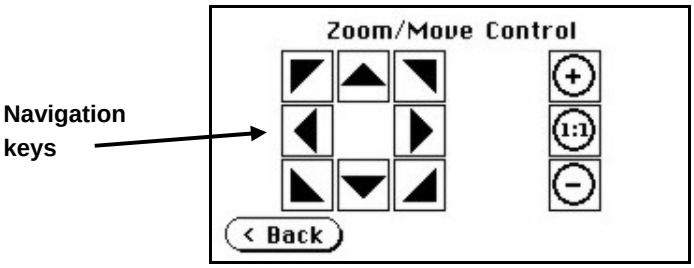
To return to the former menu, touch the button < .

If entries ha ve been changed, a screen opens where the changes must be confirmed . **Yes** confirms the changes, **No** discards the changes.

A.11.8.4 Viewer Control

An external monitor can be connected to the WideTEK 36 to show the scanned image directly.

Touching the **Viewer Control** button starts the Zoom/Move Control mode. When this mode is active, the displayed image on the screen can be moved and the zoom factor can be changed.

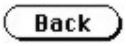


Picture 34: Viewer Control

 Increases the zoom factor.

 Decreases the zoom factor.

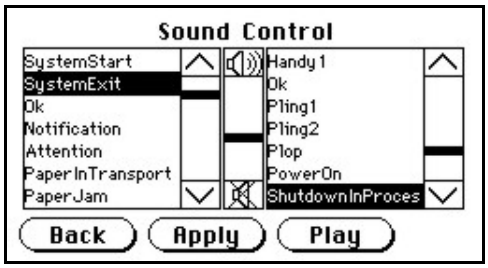
 Zooms the image to its genuine dimension (100%) without scaling.

 Returns to the prior menu.

If the image dimension overlaps the monitor dimension, the navigation keys can be used to scroll the displayed area on the monitor.

A.11.8.5 Sound Control

The menu item **Sound Control** allows the user to link sounds to system events.

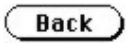


Picture 35: System events and sound files

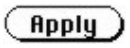
To select a system event, touch the scroll bar in the left window or the up/down arrows. The currently selected sound file associated with this system event will be displayed in the right window.

To select a different sound file from the list, touch the up/down arrows or the scroll bar in the right window until the sound file to be used is marked in reverse color.

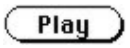
To modify the sound volume, move the scroll bar between the loudspeaker symbols up- or downwards.



Returns to the prior menu.



Links the system event and the marked sound.

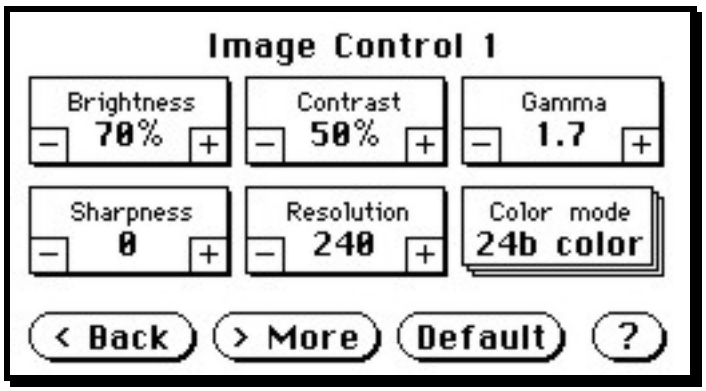


Plays the sound which is marked in reverse color.

A.11.9 Image Control Screen

The parameters are set in the screens named **Image Control 1** and **Image Control 2**.

A.11.9.1 Image Control 1



Picture 36: Image Control 1

In general:

- Tap the **+** or **–** to change the values in steps of one.
- Tap the **+** or **–** and hold for at least five steps, then the value changes in steps of five.

A.11.9.1.1 Brightness

The brightness control defines the resulting brightness of the image. A lower value results in darker images, a higher value results in brighter images.

Values close to 0% or 100% may result in unwanted artifacts.

A.11.9.1.2 Contrast

The contrast control defines the contrast of the image. A lower value results in an image that is smoother, a higher value shows more details and the image will become crisper.

Values close to 0% or 100% may result in unwanted artifacts.

A.11.9.1.3 Gamma

The gamma control defines the gamma correction used by the scanner camera. A value of 1,6 is a good approximation. The range of values are from 0 (no gamma) to 2,5 (maximum gamma).

A higher gamma value shows more details in darker areas and compresses bright areas.

A.11.9.1.4 Sharpness

An automatic sharpening algorithm is applied to the image before any other operation is performed.

The value zero disables the function. Very high values may produce artifacts, depending on the document characteristics.

A.11.9.1.5 Resolution

This parameter defines the scanner's resolution. This button offers three ways to set the desired value:

- Tap the **+** or **–** to change the resolution in steps of one DPI.
- Tap the **+** or **–** and hold for at least five steps, then the value changes in steps of five DPI.

Tap the numeric value in the middle of the button. This will step through the list of available resolutions.

A.11.9.1.6 Color mode

The color mode parameter defines the color mode if scanning in color or the algorithm used for binarization in binary mode.

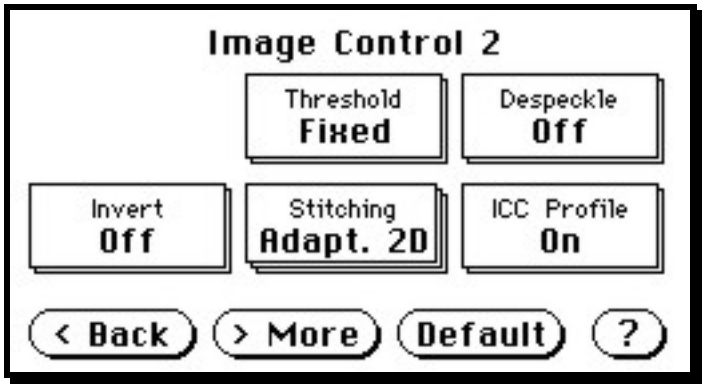
- 24b color 24 bit color mode
- 8b color 8 bit color mode
- Grayscale 8 bit grayscale mode
- Binary 1 bit black/white mode
- Photo 1 bit black/white mode with dithering. Dithering means that finest details in the image are optimized by rastering.

This control also influences the compression method that is offered in the **File Control** screen.

Chapter A.11.4 gives information about the buttons < Back > More Default.

Chapter A.11.3 gives information concerning the help function, which is activated by the **Question Mark** symbol.

A.11.9.2 Image Control 2



Picture 37: Image Control 2

Note: Depending on the selected color mode, some buttons may not be displayed.

A.11.9.2.1 **Threshold** (only in Binary mode)

Defines the contrast control mode.

Available modes are **Fixed** and **Auto**.

Fixed: The contrast is fixed to defined value.

Auto: The contrast of the image set dynamically, depending on th e values found in the image. This can be used to improve delicate details in the image.

A.11.9.2.2 **Despeckle** (only in Binary mode)

Removes isolated pixel in the images.

Available modes are **4x4p** and **Off**.

A.11.9.2.3 **Invert** (only in Binary and Photo mode)

Inverts the displayed image.

A.11.9.2.4 Stitching

Defines the stitching method which is used to merge the image data to one image.

Fixed: Merges the image data at a specified offset area, resulting from the camera calibration.

Adapt.1D Recommended for all documents with good paper quality and plain surface. High throughput with large-sized documents.

Adapt.2D: Default setting. Recommended for all documents with crumpled and uneven surface. Merges the image data of the cameras dynamically. Reduces the throughput but improves the results with problematic documents.

A.11.9.2.5 ICC Profile

ICC profiles add color correction values to each scanned image.

Chapter A.11.4 gives information about the buttons 

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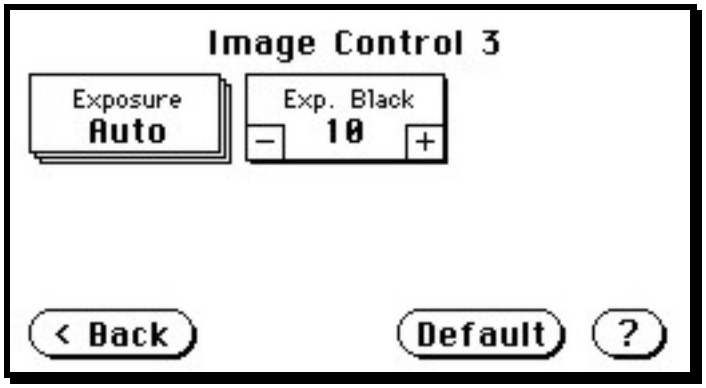
Chapter A.11.3 gives information concerning the help function, which is activated by the **Question Mark** symbol.

A.11.9.3 Image Control 3



Picture 38: Image Control 3

Note: Only in the color modes **24b color**, **8b color**, and **Grayscale**.

A.11.9.3.1 Exposure

Defines the exposure correction mode.

Available are **Black Cut, Auto** and **Fixed**.

Black cut All color values in the image which are below the threshold for black are displayed as black.

Auto Activates the threshold for black and the automatic brightness control. Automatic brightness control means the brightness range of the image is expanded to the maximum range of the scanner. This converts the darkest areas of the image to solid black and the brightest areas to solid white.

Fixed Switches off the exposure correction mode.

A.11.9.3.2 Exp. Black

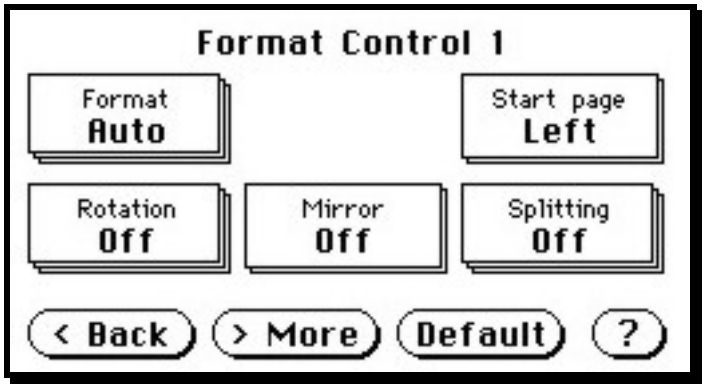
Defines the value for the threshold for black.

A.11.10 Format Control Screen

The parameters are set in three screens; **Format Control 1** to **Format Control 3**.

To switch between the **Format Control** screens use the buttons < Back and > More.

A.11.10.1 Format Control 1



Picture 39: Format Control 1

A.11.10.1.1 Format

This control specifies the format of the document. In most cases the setting **Auto** should be selected.

The format list includes the well known DIN A formats as well as US ANSI formats, e.g. Letter or US C. Some formats are specified with an additional **L**(etter) or **P**(ortrait).

A.11.10.1.2 Start Page

This defines the start page if **Splitting** is activated.

A.11.10.1.3 Rotation

The value set here defines the rotation of the image in a clockwise direction after scanning.

A.11.10.1.4 Mirror

This control activates the horizontal mirroring of the image.

It can be useful if scanning a transparency or a blueprint from the back side.

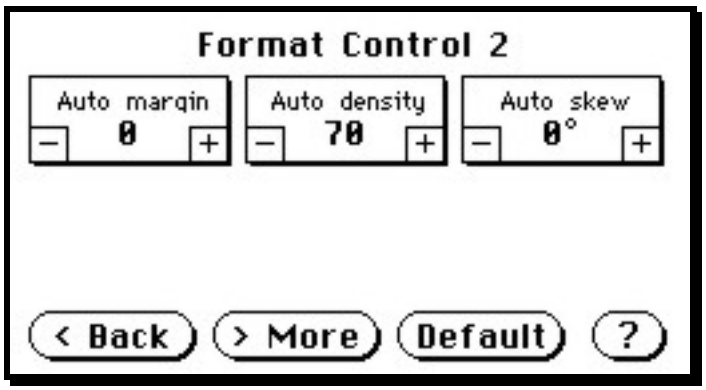
A.11.10.1.5 Splitting

The following options are valid:

- **Left**: The image is taken from the left side of the specified area.
- **Right**: The image is taken from the right side.
- **Auto**: Divides the specified scan area symmetrically into two sides and sends the images consecutively. The second image will be sent without scanning the document again.

The start is defined in **Start Page** (see chapter A.11.10.1.2).

A.11.10.2 Format Control 2



Picture 40: Format control 2

A.11.10.2.1 Auto margin

The **Auto margin** control detects the edges of a document and cuts it out of the scanned image.

If the value (in pixels) is negative, the resulting image will be smaller than the document. If the value is positive some of the background will remain in the scanned image.

A.11.10.2.2 Auto density

The **Auto density** function detects the edges of a document only if they are surrounded by a dark background.

This control specifies the density level used to decide whether a pixel belongs to the background or not. A value of 40 is a proper setting in most cases.

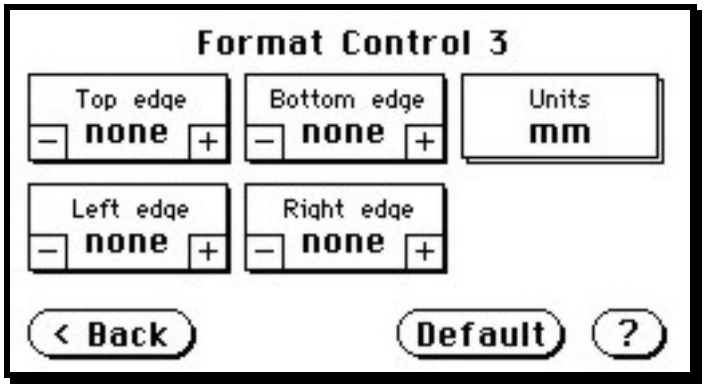
A.11.10.2.3 Auto skew

Auto skew enables the deskew function and defines the maximum angle of the document to be deskewed.

Chapter A.11.4 gives information about the buttons < Back > More Default.

Chapter A.11.3 gives information concerning the help function, which is activated by the **Question Mark** symbol.

A.11.10.3 Format Control 3



Picture 41: Format Control 3

In general: The units can have various units of measurement.

Only positive values can be entered.

A.11.10.3.1 Top edge

Defines a zone on the document that is not scanned.

The zone starts from the top of the document to the value specified via this function.

A.11.10.3.2 Bottom edge

Defines a zone on the document that is not scanned.

The zone st arts from the actual bot tom of the document to the value specified via thi s function.

A.11.10.3.3 Units

Specifies the units used for the margin controls.

The units can be various units of measurement. The unit of measurement **mils** is defined as 1/1000 of an inch.

A.11.10.3.4 Left edge

Defines a zone on the document that is not scanned.

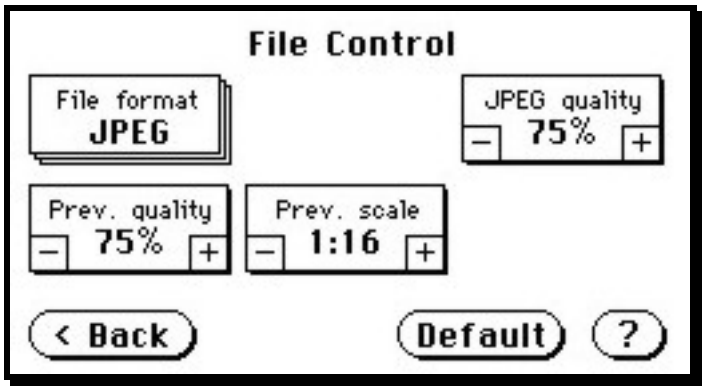
The zone starts from th e actual left edge of the document t o the value specified via this function.

A.11.10.3.5 Right edge

Defines a zone on the document that is not scanned.

The zone starts from th e actual right edge of th e document to the value specified via this function.

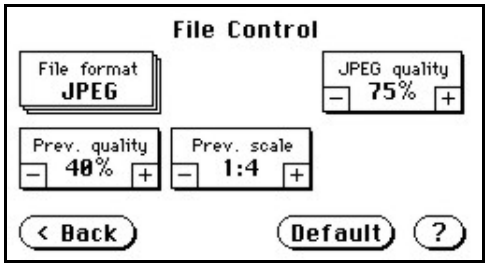
A.11.11 File Control Screen



Picture 42: File Control

The control **File format** specifies the file format of the image file. Depending on the selected file format, the number and the content of the controls in this screen can vary. The list of formats includes **JPEG**, **TIFF**, **PNM**, and **PDF** (if the option is installed).

A.11.11.1 JPEG



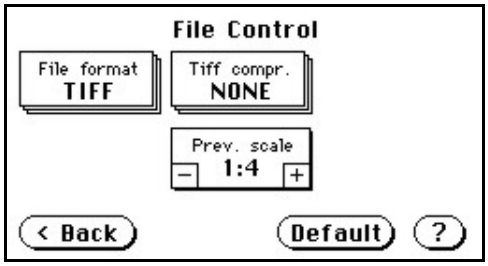
When selecting the file format **JPEG** the functions of the controls are:

- **JPEG quality**: Defines the compression rate. The JPEG quality level is defined with this control. A higher percentage gives better quality but the file size will increase. A lower factor will show some artifacts in the image but the file size will be reduced.
- **Prev. quality**: The JPEG quality level used for the preview is selected here. A higher percentage gives better quality but the file size will increase. A lower factor will show some artifacts but the file size will be reduced.
- **Prev. scale**: This control defines the preview scale factor. Higher values result in smaller previews; lower factors will produce larger previews but take more time to send and display.

Chapter A.11.4 gives information about the buttons < Back > More Default.

Chapter A.11.3 gives information concerning the help function, which is activated by the **Question Mark** symbol.

A.11.11.2 TIFF



When selecting the file format TIFF the functions of the controls are:

Note: Depending on the selected color mode in **Image Control** the available compression methods vary.

- **TIFF compr.**

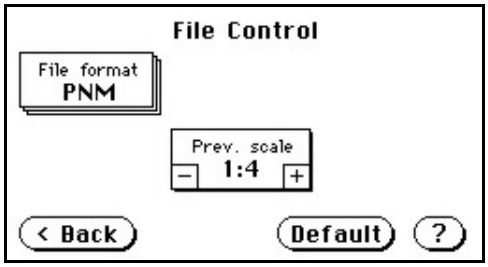
  None: Available with all color modes.

  JPEG: Available with “24b color” and “Grayscale”. Additionally the controls “JPEG quality” and “Prev. quality” will be displayed.

  CCITT G4: Available with “Photo” and “Binary”.

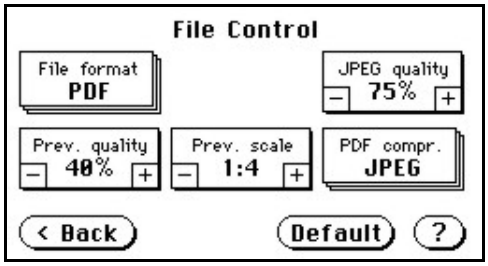
- **Prev. scale**: This control defines the preview scale factor used. Higher values result in smaller previews; lower factors will produce larger previews but take more time to send and display.

A.11.11.3 PNM



When selecting the file format PNM only the preview scale can be selected.

A.11.11.4 PDF



When selecting the file format PDF the functions of the controls are:

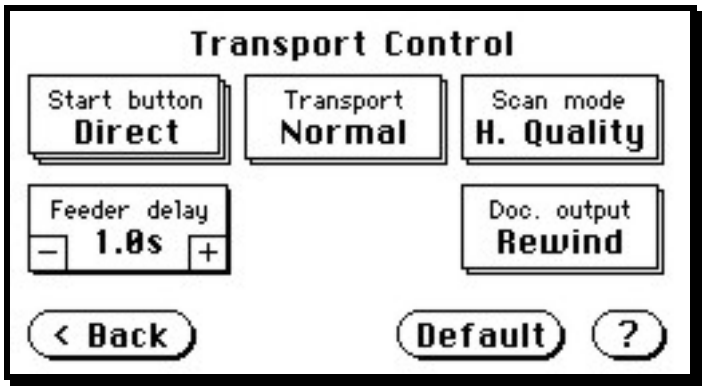
- **JPEG quality**: Defines the compression rate. The JPEG quality level is defined with this control. A higher percentage gives better quality but the file size will increase. A lower factor will show some artifacts in the image but the file size will be reduced.
- **Prev. quality**: The JPEG quality level used for the preview is selected here. A higher percentage gives better quality but the data size will increase. A lower factor will show some artifacts but the data size will be reduced.
- **Prev. scale**: This control defines the preview scale factor. Higher values result in smaller previews; lower factors will produce larger previews but take more time to send and display.
- **PDF compr**: "None" disables the data compression. The controls "JPEG quality" and "Prev. quality" will not be displayed.

  "JPEG" enables the data compression. The controls as shown above will be displayed.

Chapter A.11.4 gives information about the buttons < Back > More Default.

Chapter A.11.3 gives information concerning the help function, which is activated by the **Question Mark** symbol.

A.11.12 Transport Control Screen



Picture 43: Transport control

A.11.12.1 Start button

Defines the start method of the scanner.

Direct: The scan starts when the scanner receives the start command from the application.

Wait: The scan will only start if the start button in the touch panel is pressed. The start button can also be a foot pedal.

Always The document transport starts immediately after the start command is sent from the application.

A.11.12.2 Transport

Defines the transport speed of the scanner.

Normal Standard transport speed depending on the selected scan resolution, i.e. the higher the scan resolution, the slower the transport speed.

Slow The scanning speed is reduced and the paper handling is relaxed, in order to make the handling of sensitive documents safer. This can also be helpful for untrained operators.

A.11.12.3 Scan mode

Defines the scanning mode.

H. Quality: Reduces the scanning speed to achieve the best quality.

Fast Reduces the exposure time but the resolution as well as all as other parameters remain the same.

A.11.12.4 Feeder delay

Defines the time delay the scann er waits between when it has dete cted paper in the transport and when it starts moving the paper.

A value of zero disables the delay.

The time delay is specified in seconds.

A.11.12.5 Doc. Output

Defines the paper handling after the scan sequence is finished.

Eject: The paper will be transported through the scanner and ejected at the back side.

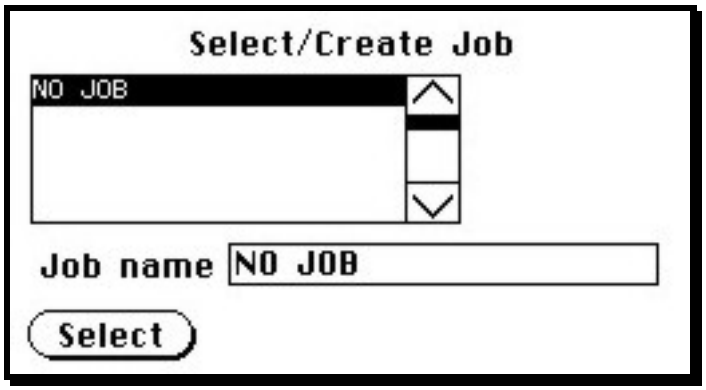
Rewind: The paper will be transported through the scanner and after finishing the scan sequence, it will be returned to the front s ide. At the front side it will be held in the start position.

Exception: If the start method “Always” is selected, the document will not be held in start position.

Chapter A.11.4 gives information about the buttons < Back > More Default.

Chapter A.11.3 gives information concerning th e help funct ion, which is activated by th e **Question Mark** symbol.

A.11.13 Job



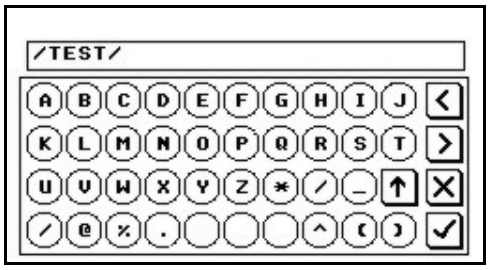
Picture 44: List of available jobs

The control **Job** allows the user to create and store specific settings of t he scanner. This is useful if the scanner is operated by several users with different settings for do cument size, resolution or other parameters.

A.11.13.1 Creating a Job

Creating a “job” is done in a few steps.

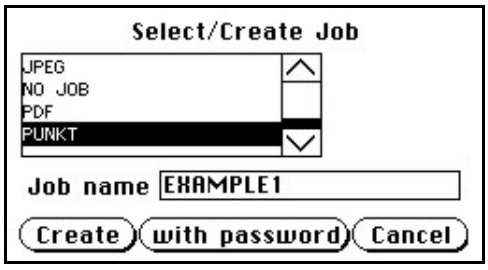
First, the job settings have to be specified; i.e. definition of document size, re solution, file format etc. When all settings have been specified, tapping on **Job** in the **Start Menu Screen** opens the screen displayed in the picture above.



Tapping in the line **Job name** will o pen the in put screen with an alphanumeric keybo ard. Here th e job name can be enter ed. The ne w job name must be confirmed with the checkmark button.

Picture 45: Keyboard of input screen

Refer to chapter A.11.5 for get more information how to handle the keyboard.

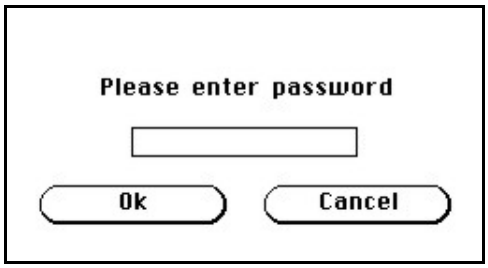


Tap on **Create** to save the job.

Tap on **with password** to save the job in combination with a password.

Tap on **Cancel** to cancel the procedure.

Picture 46: Creating a job



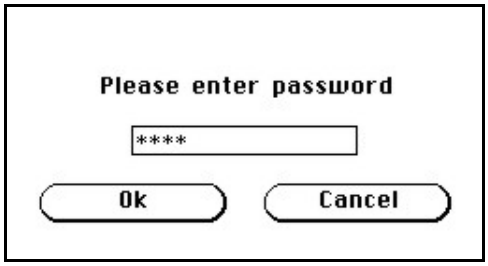
If a password should be used, tapping on the button **with password** opens a screen as shown in the picture on the left.

Picture 47: Entering the password

Tapping in the empty field opens the screen with the alphanumeric keyboard (Picture 45).

Enter the password.

Tap on the checkmark button in the alphanumeric keyboard to confirm the password and to return to the former screen.



The screen now shows the number of elements of the password.

Tapping on **Ok** returns to the list of available jobs (Picture 44).

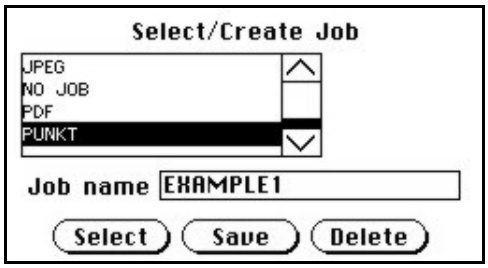
The job is now active.

Picture 48: Number of password elements

If no password for the job is necessary, tapping on **Create** opens a screen where the operator is asked to confirm the new job name. This is easily done with the **Yes** button.

A.11.13.2 Selecting a Job

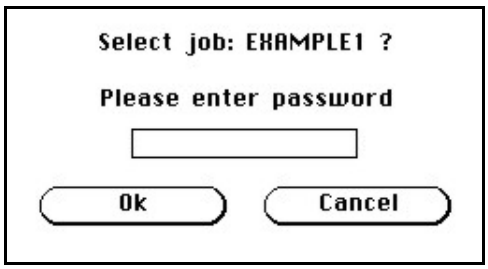
New job names are added to the list of available jobs.



Jobs can be selected from the list of available jobs by tapping on the selection arrow or directly on the job name.

Tapping the **Select** button activates the job.

Picture 49: Selecting a job from the list



Selecting a password protected job opens a screen where the operator must enter the password. Tapping in the empty field opens the alphanumeric keyboard and the password can be entered.

Tapping on the checkmark button finalizes the input sequence.

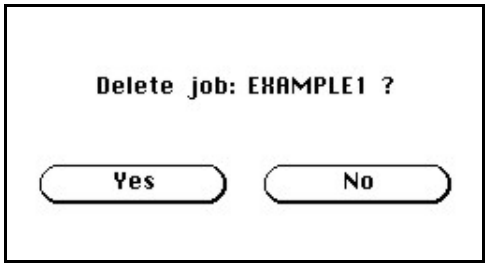
Picture 50: Request for password

After the password is entered, the screen shows the **Select job** screen (see above) again. Tapping on the **Ok** button finally selects the job and returns to the **Start Menu Screen**.

A.11.13.3 Deleting a Job

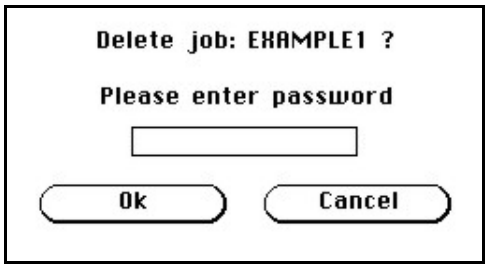
Select the job to be deleted from the list of available jobs.

Tap on the **Delete** button.



Picture 51: Confirming to delete the job

In the next screen tap on the **Yes** button to delete the job.



Picture 52: Enter password to delete job

If the job is password protected, the password must be entered first. After selecting the job to be deleted, a screen opens where the password must be entered.

Tap on the empty field. The screen with the alphanumeric keyboard opens. Enter the password and tap on the checkmark button to finalize the input sequence.

In the next screen tap on the **Ok** button.

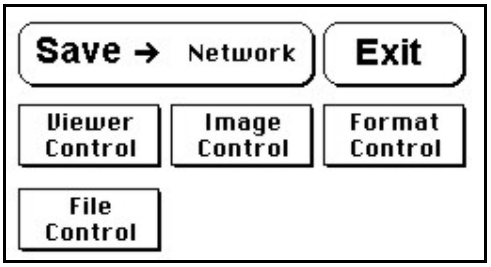
The screen returns to the **Start Menu Screen.**

A.11.14 Software Option: Scan2VGA

An external monitor can be connected to the WideTEK 36 to show, edit and save the actual scanned image on the fly.

When the scan sequence has been finished the menu in the touch panel changes.

By tapping at the respective buttons the menus can be selected.



Picture 53: Touchpanel after scanning

Scan settings which made before can be changed here again and the results are shown directly at the external monitor.

The edited image can be saved by touching the **Save** button. Available targets are:

- Network
- USB
- Printer
- FTP
- Email

With touching the **Exit** button the mode will be left.

B Software

Essentially, the scann er is a web server and comes with its own HTML-base d user interface. To access a Scan2Net scanner, any standard web browser can be utilized.

A basic requirement be fore using the integrated user interface is to configure the browser as follows:

- Force the browser to reload the pag e content every time directly from the scanner and not to load from the cache memory.
- Enter the scanner's IP address in the exception list.

B.1 The Integrated User Interface

Start your browser.

Enter the IP address of the scanner.

The default IP address of the scanner: **192.168.1.50**

The following start screen of the integrated user interface will be displayed.

Picture 54: Start screen

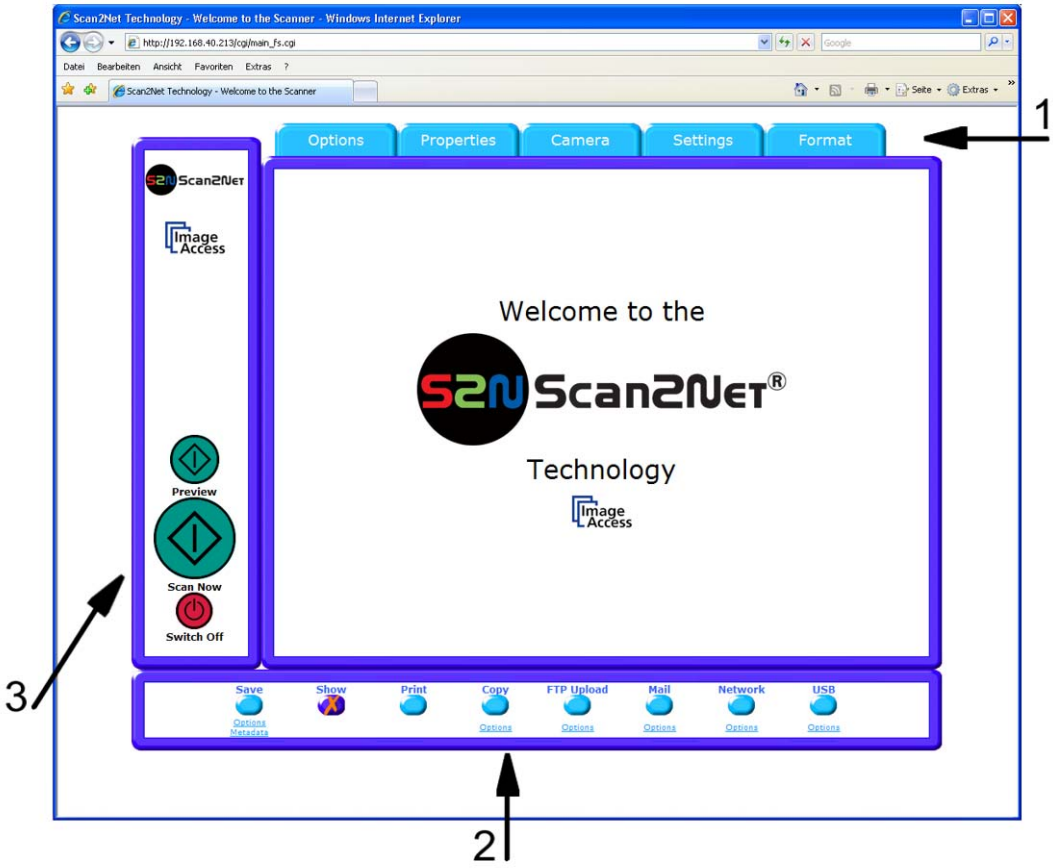
Launch Scan Application switches to the main screen. Detailed information will be found starting in chapter B.2.

Setup Device switches to the setu p menu. Detailed information will be found starti ng in chapter B.5.

Information gives a short sum mary of t he device param eters. Information will be found in chapter B.4.

B.2 The Main Screen

After launching the scan application, the main screen of the integrated user interface will open. The main screen is structured in three parts. Switching between the sections is done with a mouse click.



Picture 55: Main screen

1: The menu bar of the large frame on the upper right part has five menu items:

- Options
- Properties
- Camera
- Settings
- Format

Click at a menu item to select and set parameters of the scanner.

2: The eight control buttons in the lower part of the screen control the output modes.

As default the output mode **Show** is selected. After clicking onto the button **Preview** or onto the button **Scan Now** a window opens and shows the image.

When selecting **Save** the scanned image will not be displayed. Instead of the second window a box opens where the desired directory can be set.

Selecting **Print** will display the scanned image in a second window and direct the scanned image to locally available printers.

Selecting **Copy** prints directly to a previously installed network printer.

Selecting **FTP Upload** scans directly to a FTP server.

Selecting **Mail** sends the scanned image directly to a previously defined e-mail address.

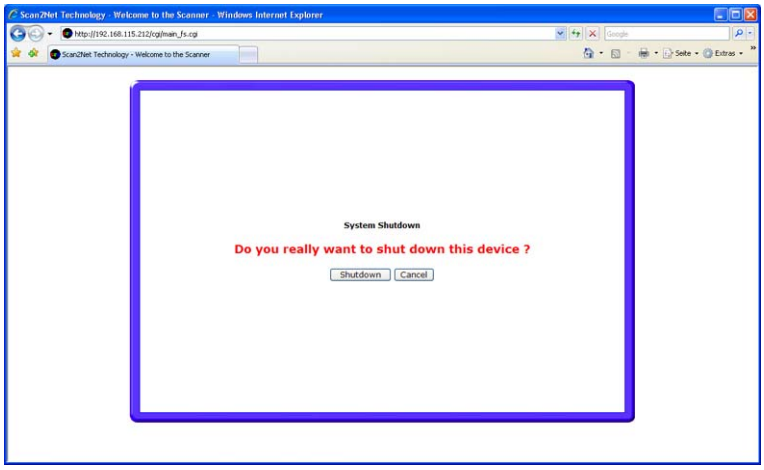
Selecting **Network** uploads the scanned image directly to a previously defined workstation in the network.

Selecting **USB** the scanned image is stored on an USB stick. A USB stick can be connected to the scanner at the connector at the front side.

3: The frame on the left side shows the buttons for preview scan (**Preview**) and main scan (**Scan Now**).

Pressing this button switches the scanner off.

If the red button is pressed, the following window will appear.



Picture 56: Shutdown confirmation

Click on the button Shutdown and the scanner switches off.

B.2.1 The Options Screen

Picture 57: Options screen

Paper Feed Delay — Allows the operator to define a dela y time for th e paper transport when a new document is placed in the paper transport.

Transport Speed — Reduces th e transport speed to h alf of the n ormal speed. With sensitive do cuments it is recomme nded to select **Slow** from the list.

Document Output — Allows to select between **Eject** and **Rewind**.

If **Rewind** is select ed, the document will be transported backwards to the document desk after it has been scanned.

Scan Mode — Allows to select between **High Quality** mode with a re duced scanning speed or **Fast** with normal speed.

Preview Scale

Allows to set the previe w relation. If set to **Auto**, the function will perform a best fit before the i mage is displayed on the screen.

Preview Quality [%]

Determines the compromise between quality and compression rate. A high er quality fa ctor produces larger files. The def ault setting is a good compromise for most documents.

Image Rotation

The rotation can be any degree of rotation out of 90°, 180°, 270° or none. The angle is defined in the clockwise direction.

Embedded ICC Profiles

If set to **Yes** an ICC profile is embedded into every image after scanning.

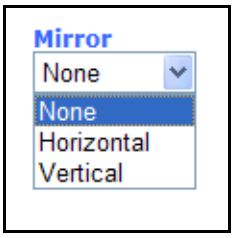
Embedded Metadata

Select **Yes** to add metadata information to the image.

Clicking the **Option** link opens a window, where the embedded metadata can be entered.

To close the option window click the button Close Window

Mirror

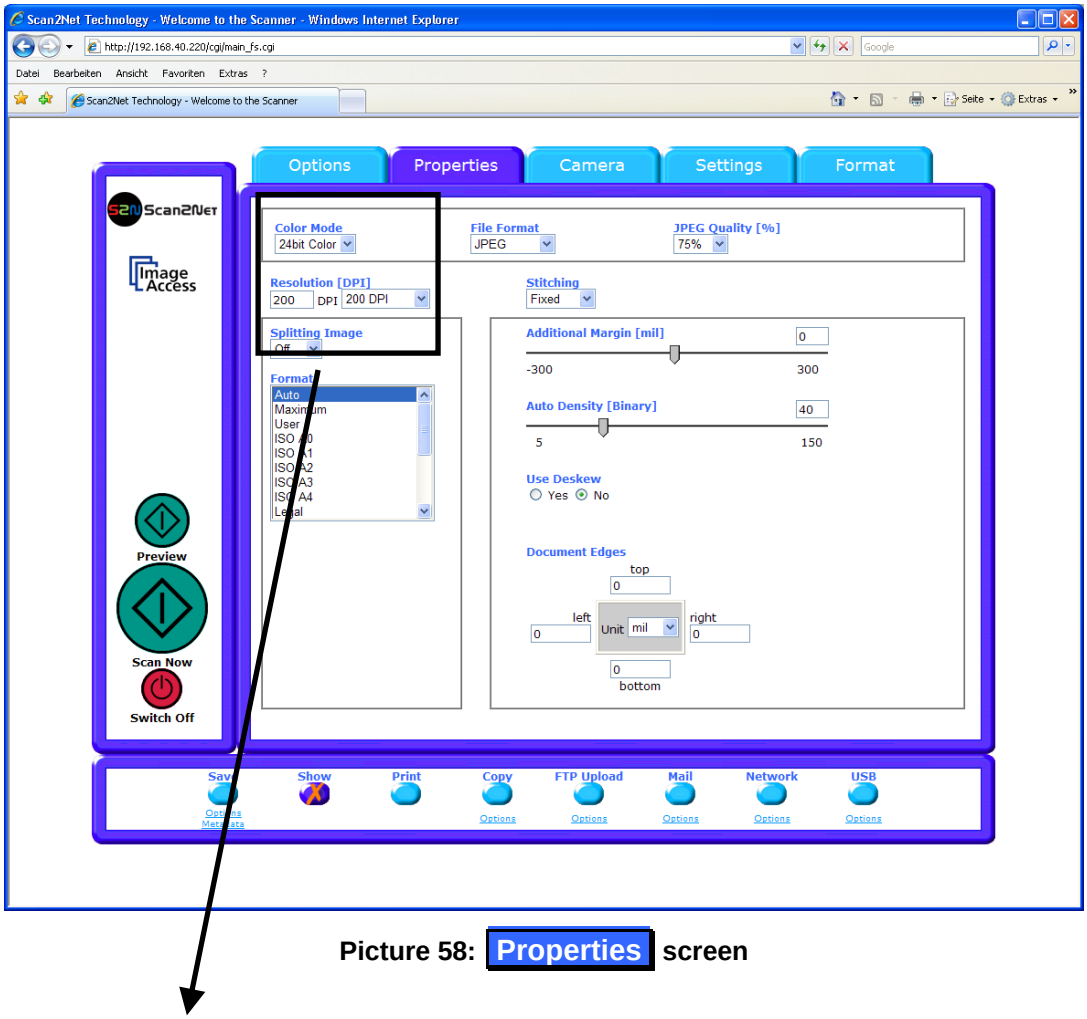


The image can be mirrored before displaying.

Click on the selection arrow and set the desired mirror axis. Available are **Horizontal** or **Vertical**.

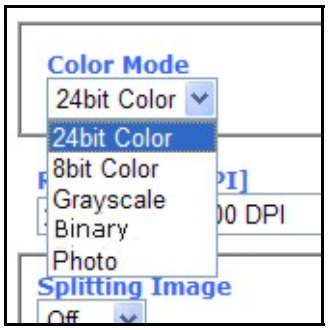
Select **None** to display the image without mirroring.

B.2.2 The Properties Screen



Picture 58: Properties screen

The **Color Mode** allows the operator to select various different color modes.



The available color modes are displayed in the picture on the left.

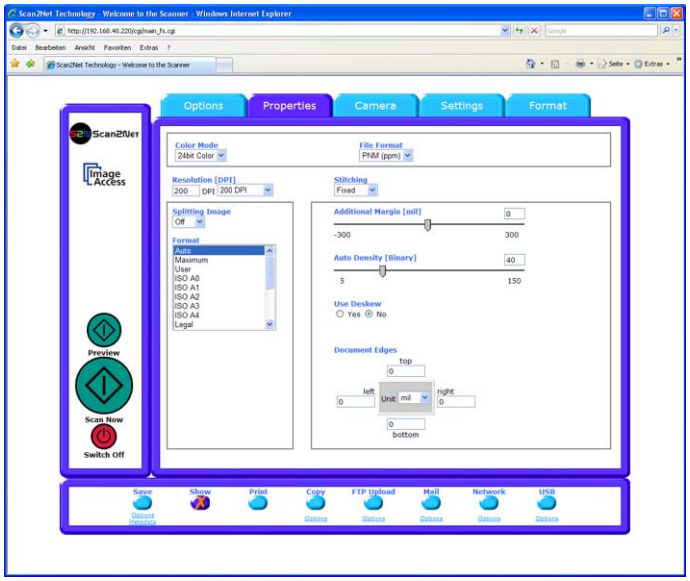
To select a color mode first click on the selection arrow, then select a mode from the list.

The **File Format** defines the file format that is used to store a scanned document.

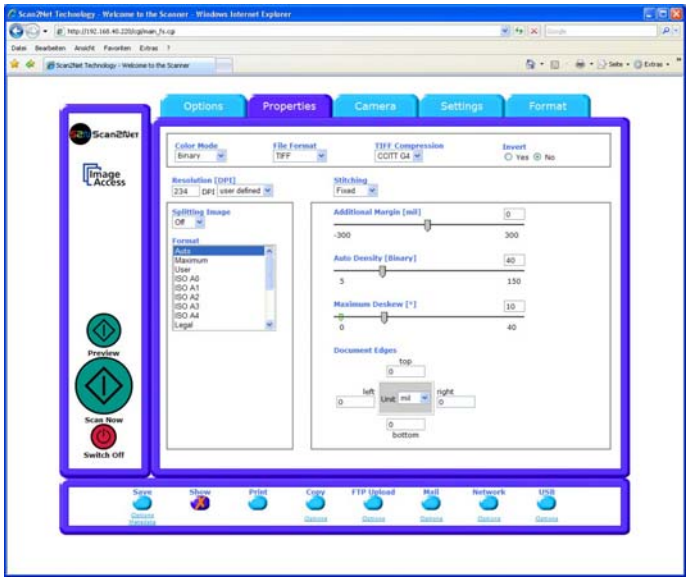
Note: There are some interdependencies between **Color Mode** and **File Format**. That means, it is not possible to co mbine all color modes with all file f ormats. For exa mple, if an ima ge is scann ed in “24bit Color” it can not be stored in TIFF G4 file format.

Depending on the selected file format the control right beside can vary:

Some examples:



Picture 59: 24Bit Color, File Format: PNM



Picture 60: Binary, File Format: TIFF with G4 compression

The **Resolution [DPI]** field allows the operator to set the desired resolution in two ways.

Selecting the resolution: Click the selection arrow beside the right field. Select the desired value from the list.

Entering the resolution: Enter any value between 150 dpi and 1200 dpi into the left field. Confirm the input with the ENTER key or the TAB key on the PC keyboard.
If the entered resolution differs from the values offered in the list, **user defined** is displayed in the right field.

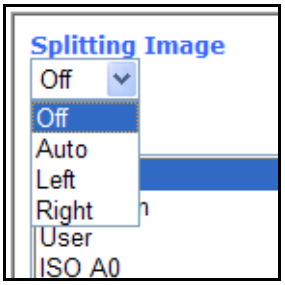
The **Stitching** field switches allows to select one of three stitching methods.
The default setting is **Adaptive 2D**.

Fixed: Select this setting when scanning plain documents with the paper transport wings inserted.

Adaptive 1D: Select this setting when scanning large documents with a plain surface or when the paper transport wings are not used.

Adaptive 2D Default setting.
Select this setting when scanning documents with uneven structured surface, e.g. multiple folded paper. The image data will be merged dynamically. The time until the image is displayed will increase a little.

The **Splitting Image** function allows the operator to split the image of the scanned document.



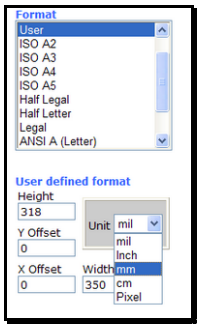
Off: No page splitting.

Auto: The first image is taken from the side which is defined in the setup menu as start page. Click on **Preview** or **Scan now** again to get the other half.

Left: The first image is taken from the left side of the specified area.

Right: The first image is taken from the right side of the specified area.

The **Format** list offers various standard paper formats.

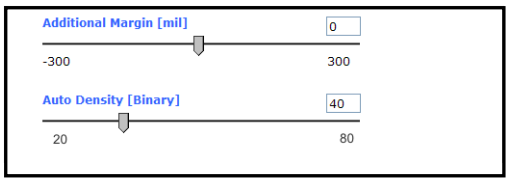


Picture 61: Format list

With **Auto** the scanner scans the complete document. After scanning the document is cropped to its real size and displayed. This function is highly advanced and works properly with default values.

If **Maximum** is selected, the size of the scanned area depends on the scanner specification.
WideTEK 36: Maximum scan area size 36 inches.

If **User** is selected the **User defined format** control opens. It allows to set the values for **Height** and **Width** of the area to be scanned. It also allows to define the position of the area to be scanned. **X Offset** and **Y Offset** set the position of the scan area.



Picture 62: Additional Margin/Auto Density slider

An **Additional Margin [mil]** can be added to or taken away from the image.

The margin is defined in **mil** (1/1 000 inch). The desired value can be entered as a numeric value or by clicking on the slider and moving it to the desired value.

If a numeric value us entered, confirm the input with the ENTER key or the TAB key on the PC keyboard.

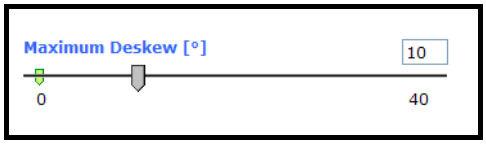
The **Auto Density (Binary)** parameter defines the scanner's sensitivity for the automatic format detection. Default value: 60

When scanning dark documents, the value should be reduced in small steps until the desired result is achieved.

In some cases, the Paper Transport Wings (chapter A.9) may be seen by the scanner as part of the scanned document and the automatic format detection will fail. If this occurs, it is recommended to remove the Paper Transport Wings and to scan again.

In general: The higher the numeric value, the more contrast must be between background and scanned document.

The **Use Deskew** control activates the automatic deskew function.

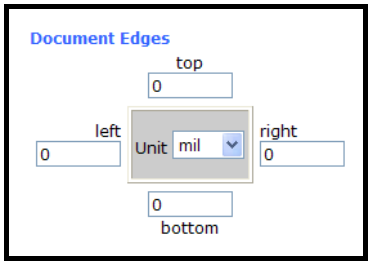


If **Yes** is selected, a slider is displayed which allows to set the maximum corrected angle.

Picture 63: Set deskew angle

The desired value can be entered as a numeric value or by clicking on the slider and moving it to the desired value.

If a numeric value us entered, confirm the input with the ENTER key or the TAB key on the PC keyboard.

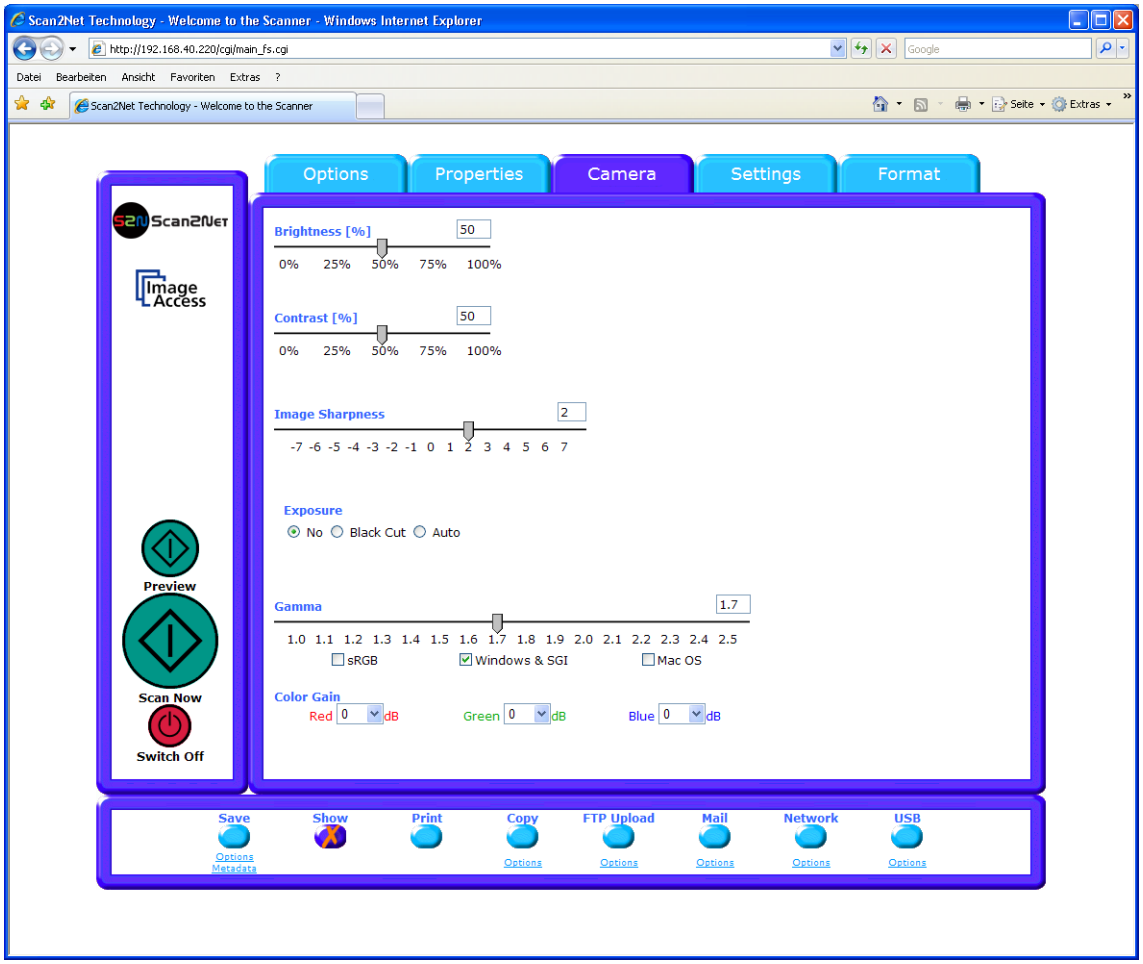


Picture 64: Document edges

The **Document Edges** function enables the user to define an area on every side of the scanned image. This area is cut from the image. Various units of measurement are available by clicking the selection arrow.

To enter the desired value click in the respective field and enter the value. Confirm the input with the ENTER key or the TAB key on the PC keyboard

B.2.3 The Camera Screen



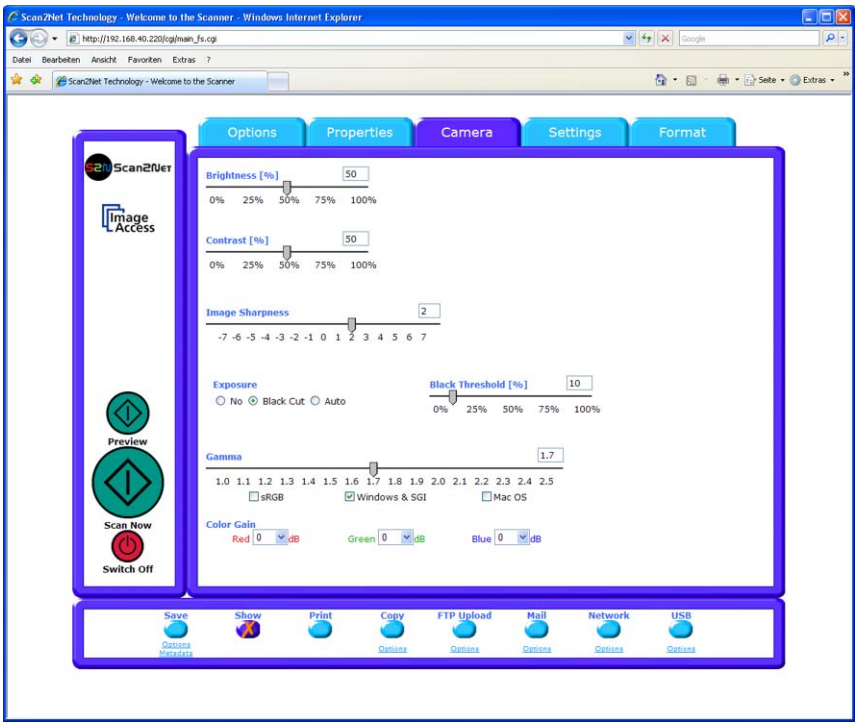
Picture 65: Camera screen

The **Brightness** slider defines the brightness of the resulting image. Lower brightness values make the image darker.

The **Contrast** slider defines the contrast of the resulting image. Higher contrast values show more details. If scanning in binary (i.e. Binary, Photo Mode), the behavior of the contrast slider changes.

The **Image Sharpness** slider invokes an advanced algorithm which sharpens the image according to the local content of a given area.

The **Exposure** control sets the threshold value for the black cut function or for the auto exposure function.



Picture 66: Exposure control slider

No

Function disabled.

Black Cut

Value range from 0 (zero) to 100.

Sets the threshold for **black**. All pixel values found in the image below the selected value are set to black.

Result: The image contrast is improved.

Auto

Value range from 0 (zero) to 100.

Sets the threshold for **black** and activates the **automatic exposure** control.

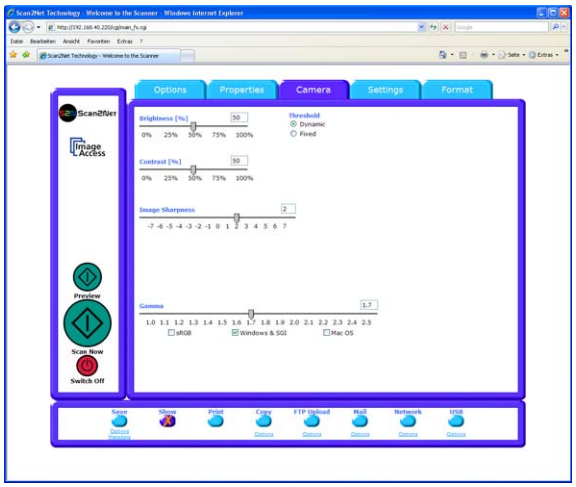
These function searches the image for the highest and the lowest pixel value. The highest pixel value is defined as "white". Is the lowest pixel value higher than the threshold it is defined as "black". Otherwise all values below the threshold are defined as "black".

Result: Automatic contrast control and the image contrast is improved.

The **Gamma** slider does the gamma correction directly inside the camera electronics. Three typical settings (sRGB, Windows & SGI and Mac OS) are available through the check boxes directly below the slider.

The **Color Gain** drop down list changes the gain on a specific channel. This function is used to eliminate any color shift or tints from the background.

B.2.3.1 Threshold Dynamic / Threshold Fixed



Picture 67: Threshold method selector

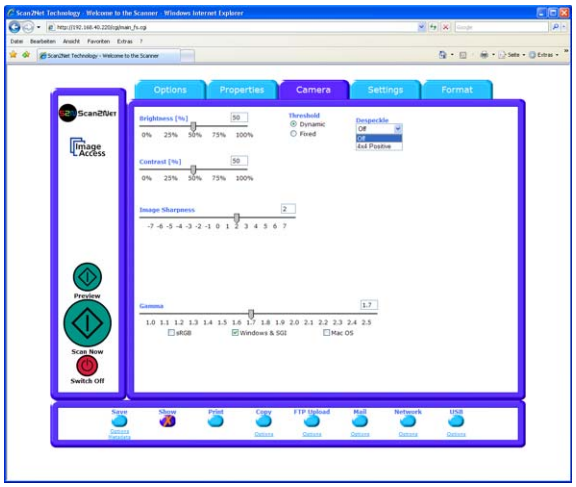
In the color mode **Binary** an additional button allows to select between **Dynamic** and **Fixed** threshold.

Dynamic The contrast level in the image varies depending on the content of the document. This can help to improve fine details in the image.

Note: In this mode set the setting of the contrast slider carefully because unexpected image artifacts can occur if set to the extremes.

Fixed The contrast level is fixed to a specific value.

B.2.3.2 Despeckle



Picture 68: Despeckle function

The **Despeckle** function is only available in color mode **Binary**.

This function removes isolated speckles in the image. Its use is recommended if old documents on crumpled paper or vellum should be scanned.

B.2.4 The Settings Screen

Picture 69: Settings screen

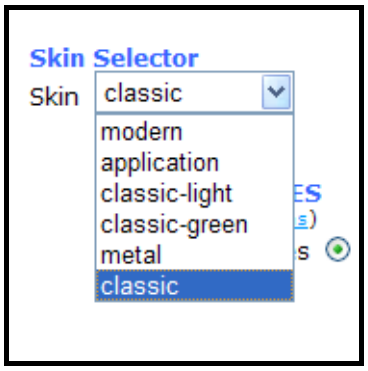
Language Selector

Sets the lan guage of th e user interf ace. Available languag es are English (**english**), German (**deutsch**), French (**francais**), Polish (**polski**), and Russian (Cyrillic script).

Note: After selecting the lang uage the user interface changes immediately to the selected language.

If **Russian** is selected, all text is displayed in Cyrillic script.

Skin Selector Allows the operator to choose between different surfaces (skins) for the user interface. The skins differ in color and in the graphic elements used for the buttons and controls.



The picture on the left shows the currently available surfaces. More skins can be designed and integrated by the user.

Picture 70: Available skins

Tool Tips If activated the user will be informed with short texts about the available functions in each screen. With the drop down list, the delay time can be defined.

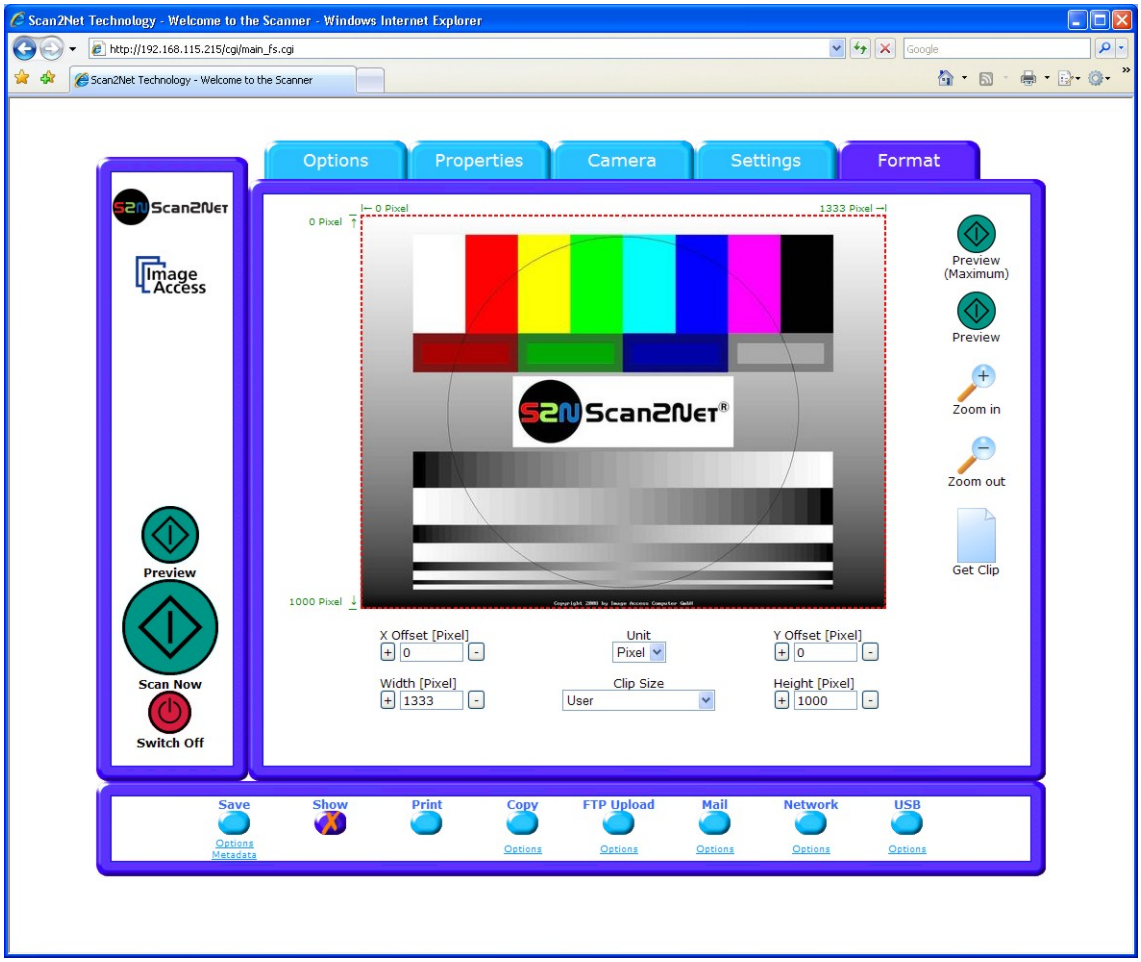
No Tool Tips switches this function off.

Show Status Window If set to is set to **Yes** a small window opens where some scan status information is displayed.

Picture 71: Scan status window

Use IES Opens an additional window where the **Image Enhancement System** is displayed in demo mode. The **IES** allows to modify specific scan parameters.

B.2.5 The Format Screen



Picture 72: Format screen

When selecting the **Format** screen, the test image as shown in the above picture is displayed.

The dimension of the image and the color mode depends on the settings in the **Properties** screen.

The **Preview (Maximum)** button allows to rescans the complete document area. The image will be displayed in the preview area of the **Format** screen.

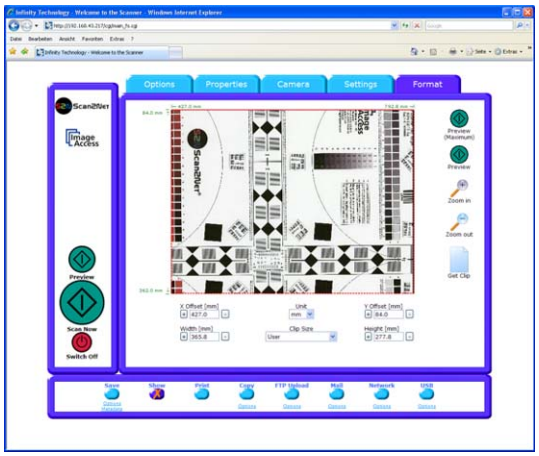
The **Preview** button rescans the document area which is set in the **Properties** screen.

To get a new preview scan, first change to the **Properties** screen, set the new format, and finally return to the **Format** screen. Click on the **Preview** button to display the new image.

To select a specific area of the image, click with the mouse in the preview area and drag a rectangle. Dragging with the mouse the rectangle starts in the upper left corner and ends in the lower right corner.

Click the **Zoom in** button to display the selected area of the image in detail.

Picture 73: Rectangle dragged with mouse

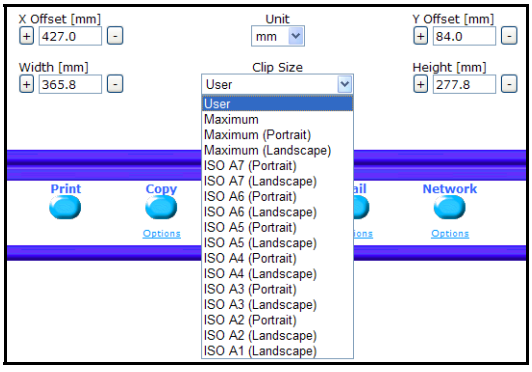


Picture 74: "Zoom in" result

Click the **Zoom out** button to return to the previous dimension of the image.

Click the **Get Clip** button to get the selected area of the image in full resolution in a separate window.

X Offset / Y Offset define the position of the rectangle.



Picture 75: List of available clip size formats

Unit allows the user to select from a list the unit of measurement for the specification of the rectangle.

Width / Height allow the user to set the dimension of the rectangle for the specific area.

Clip Size offers a list of formats for the specific area. The content of the list depends on the size of the preview scan area. I.e. the smaller the preview scan area, the shorter the list of available formats.

B.3 Output Options

Select output option here

There are eight output options available on a Scan2Net scanner, selectable at the bottom part of the main window.

B.3.1 Output Option Save

Select the output mode by clicking with the mouse on the button **Save**.

When the output option **Save** is selected, a preview window will not open.

This output option scans to a local or network disk drive. After the scan is performed, a window opens and the default file name is shown. This window allows to select the directory where the image should be stored and to change the file name.

Options — Click on this link to define the file name. A additional window will open. Enter the desired file name. When defining the file name, variables can be used. To learn more about the variables click on Wildcard characters in the window **Image Output: File name**.

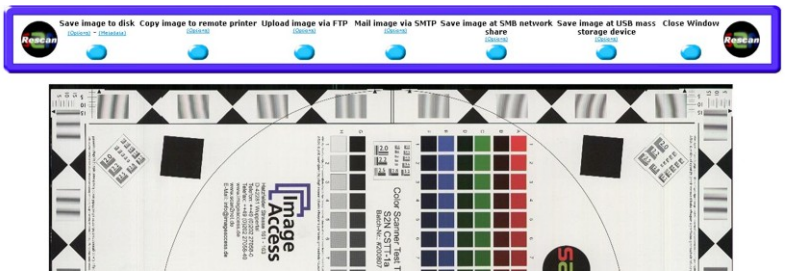
Metadata — Click on this link to change the meta data stored with the image. An additional window will open. Enter the meta data here.

B.3.2 Output Option Show

In most cases, the button **Show** is activated.

Picture 76:Output Option Show

A scan will open a new browser window and display the image on the screen. The output options described in this chapter are accessible via the above menu but are also present in the upper part of each scanned image.



Picture 77: Output Options in Scan Window

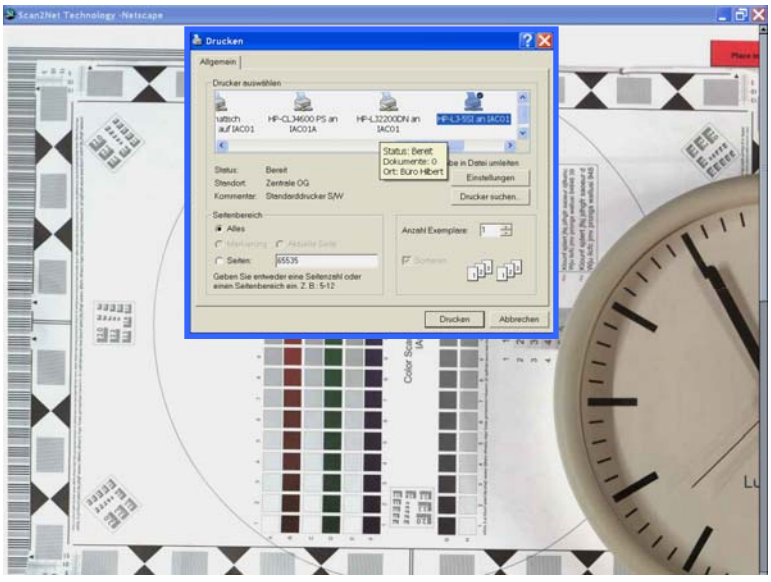
Their functionality is identical, therefore only the output option screen is described here.

B.3.3 Output Option Print

This output option prints the image at a locally configured printers.

Picture 78: Output Option Print

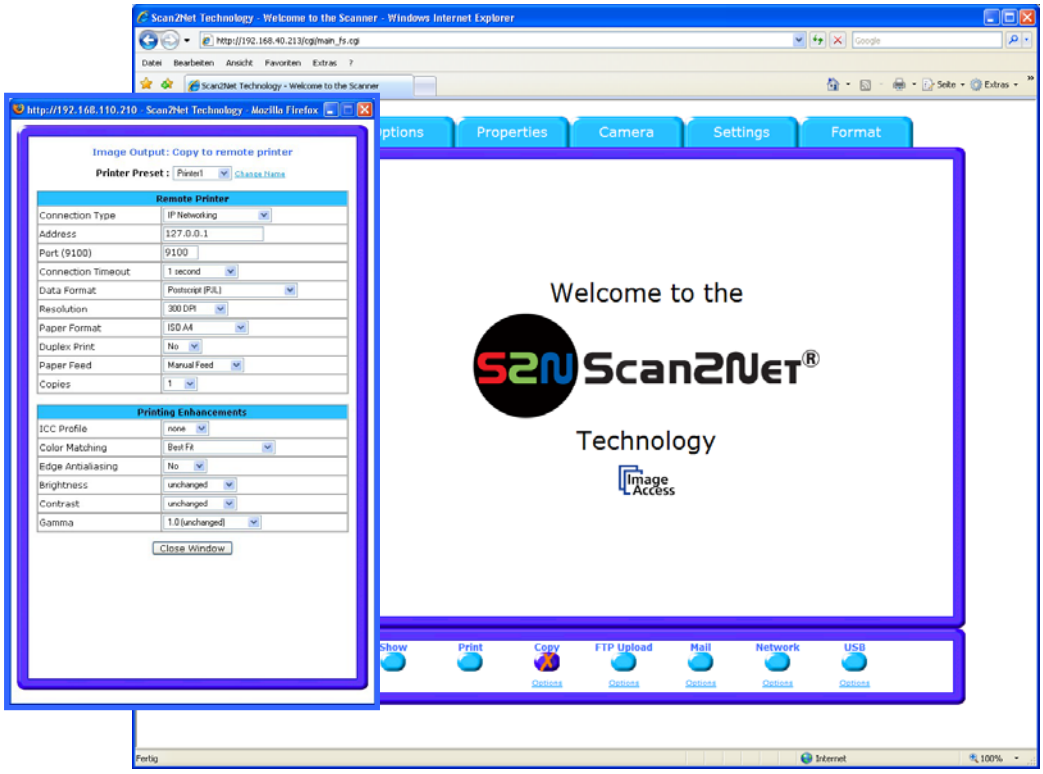
After the scan is executed, the standard printer interface op ens. The user can select one of the available printers.



Picture 79: Available List of Printers for Option Print

B.3.4 Output Option Copy

This output option prints directly to a previously installed net work printer. The **Option** key is used to configure the remotely connected printer.



Picture 80: Output Option Copy

B.3.4.1 Remote Printer

Parameter	Description
Printer Preset	Choose a p rinter conf iguration out of five possible set of parameters. If you click on Change Name you can change the name of this set.
Connection Type	Choose between **IP Networking** and **SMB Printer Queue**.
Address (with IP Networking only)	Enter the IP address of the printer.
Port (9100) (with IP Networking only)	Enter the IP port of the remote printer. Default is port 9100.
Connection Timeout (with IP Networking only)	Choose the timeout for connecting to the remote printe r before the connection is aborted.
Port (139) (with SMB Printer Queue only)	Enter the IP port of the remote printer. Default is port 139.
Server Authentication (with SMB Printer Queue only)	Select **Yes** or **No**

Note: Each change of an entry field is transferred to the scanner immediately.

Parameter	Description
Login (with SMB Printer Queue only)	Enter the login for the printer if Server Authentication is set to **Yes**.
Password	Enter the password for the printer if Server Authentication is set to **Yes**.
SMB Path (with SMB Printer Queue only)	Enter the path of the directory where the printer is established.
Data Format	Choose the data format of the remote printer. Selectable are Postscript, Postscript with framing HP/PJL communication and HP DesignJet (HP/RTL) compliant printers. Changing the data format will change some of the options in this configuration window.
Data Compression (with HP printers only)	Select the data compression of the data to be sent to the printer.
Resolution	Select the printing resolution. If an exact 1:1 copy of the scanned document is required, the scanning resolution and printing resolution must match.
Paper Format (not with HP Design Jet)	Choose the paper format for the output.
Duplex Print	Switch on/off printing on both sides of a sheet (duplex).
Paper Feed	Select the paper feed method for the remote printer. The menu may contain manual paper feed, various paper trays and paper rolls.
Copies	Number of copies of each print

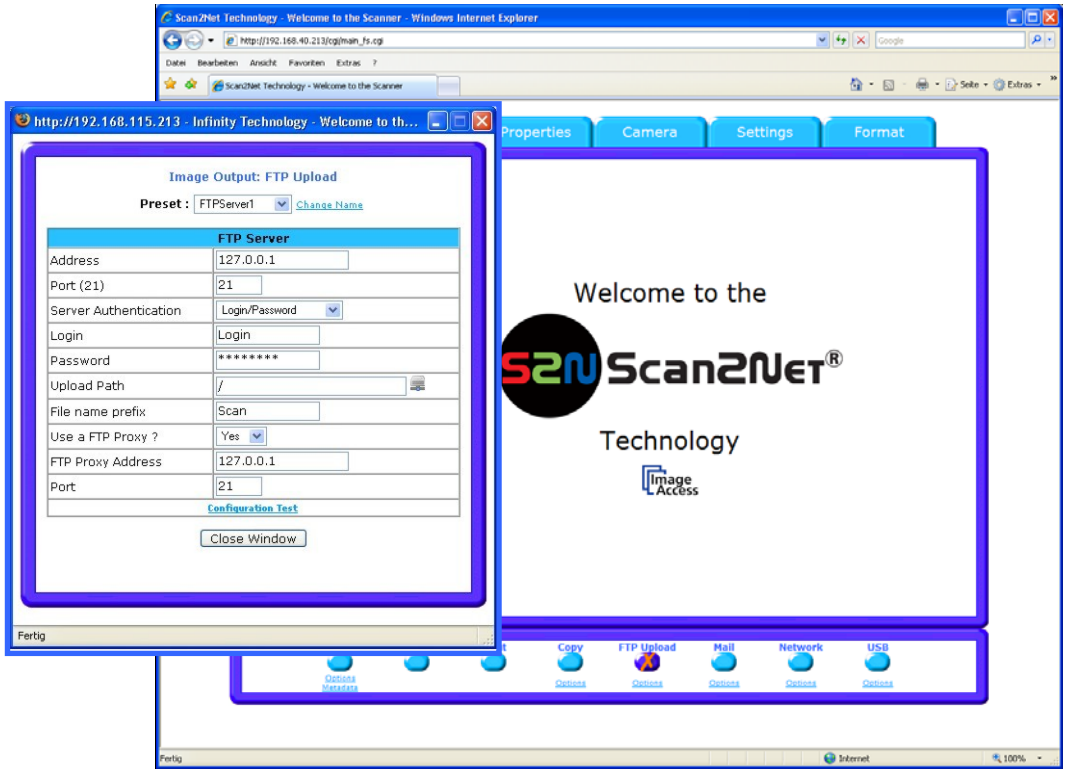
B.3.4.2 Printing Enhancement

Parameter	Description
Quality Level (with DesignJet only)	Toggle the printing quality from draft to high quality. Only available with HP/RTL compliant remote printers.
ICC Profile (not with all printer types)	Select the profile used for printing. One can upload a set of printer ICC profiles in the Poweruser setup. Only available with HP/RTL compliant remote printers.
Color Matching (not with all printer types)	Select the color rendering method for the remote printer. **Best Fit:** The printer uses the nearest matching colors of its own color space. **Printer Color Range**: The printer uses the full range of its color space despite of the color definition of the scanned document. Only available in conjunction with HP/PJL communication framework.
Edge Antialiasing (not with all printer types)	Switch on/off printer featured edge anti aliasing. Only available in conjunction with HP/PJL communication framework.
Brightness	Modify the brightness level of the print. Only available with HP/RTL compliant remote printers.
Contrast	Modify the contrast level of the print. Only available with HP/RTL compliant remote printers.
Gamma	Modify the printer gamma. Only available with HP/RTL compliant remote printers.

Note: Each change to an entry field is transferred to the scanner immediately.

B.3.5 Output Option FTP Upload

The scanner can directly scan to an FTP server.



Picture 81: Output Option FTP Upload

Go to **Options** to configure the FTP interface. A configuration window will pop up.

B.3.5.1 FTP Server

Parameter	Description
Preset	Choose a preset out of five possible sets of parameters. If you click on Change Name you can change the name of this set.
Address	Enter the IP address of the remote FTP server.
Port (21)	Enter the IP port of the remote FTP server. Default is port 21.
Server Authentication	Select the authentication method.
Login	Enter the login name.
Password	Enter the password for the login at the remote FTP server. The password is stored using encryption.
Upload Path	Enter the upload path at the remote FTP server, starting with / (root). Click on the icon, to browse the directory structure of the remote FTP server. Note: You must have a valid login for browsing the directory structure.

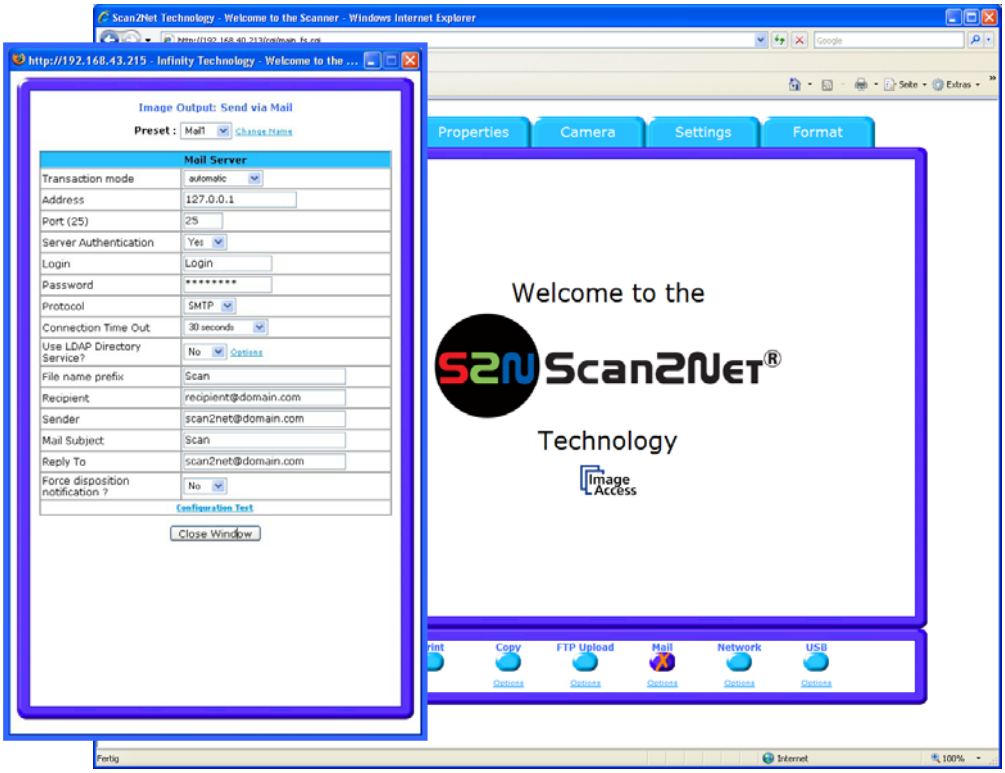
Parameter	Description
File name prefix	Enter the file name pr efix. A time stamp will be added to this prefix to form the complete file name.
Use a FTP Proxy ?	Switch on/off the use of an FTP proxy for connecting to a remote FTP server outside the local network.
FTP Proxy Address	Specify the IP address of the FTP proxy.
Port	Specify the IP port of the FTP proxy.

Configuration Test: Click on this link to te st the settings. A separate window will open and shows the test results.

Note: Each change to an entry field is transferred to the scanner immediately.

B.3.6 Output Option Mail

The scanner can directly send each scan via e-mail.



Picture 82: Output Option Mail

Go to **Options** to con figure the mail interface. The above configuration window will pop up.

B.3.6.1 Mail Server

Parameter	Description
Preset	Choose a p reset out of five possible sets of parameters. If you click on Change Name you ca n change th e name of this set.
Transaction mode	Choose if al l scanned documents will be sent t o the same recipient (a utomatic batch mode) o r if the scanner should ask after every scan (interactive).
Address	Enter the I P address of the outg oing mail (SMTP/L MTP) server.
Port (25)	Enter the IP Port of the outgoing mail server. Default: Port 25.
Server Authentication	Set to **YES** if the mail server requires an authentication.

Paramater	Description
Login	Enter the user name for authentication at the outgoing mail server.
Password	Enter the password for authentication at the outgoing mail server. The password is stored using encryption.
Protocol	Choose the connection protocol. SMTP is the most common protocol.
Connection Timeout	Choose the timeout for connecting to the outgoing mail server before the connection is aborted.
File name prefix	Enter the file name prefix. Variables can be used to complete the file name. To learn more about the variables, click on the link Wildcard characters.
Recipient	Type in the recipient of the e-mail. Format: fully qualified e-mail address.
Sender	Type in the sender of the e-mail. Format: fully qualified e-mail address.
Mail Subject	Type in the e-mail subject. (Optional) Variables can be added to the mail subject. To learn more about the variables, click on the link Wildcard characters.
Reply To	Type in a reply address for answers. (Optional) Format: fully qualified e-mail address.
Force disposition notification?	Request for a notification when the recipient has opened the mail. **Note:** This feature is not supported by all mail servers or clients.

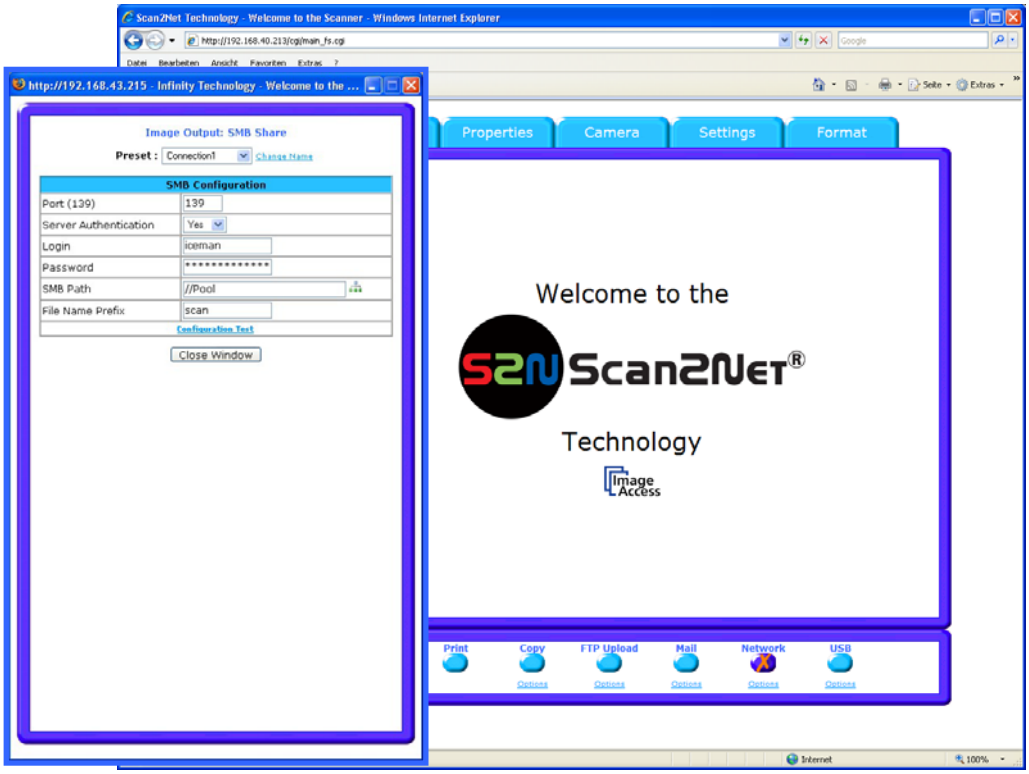
Configuration Test: Click on this link to test the settings. A separate window will open and shows the test results.

Note: Each change to an entry field is transferred to the scanner immediately.

B.3.7 Output Option Network

SMB is a network protocol which is used by Microsoft Windows-based networks.

If output option **Network** is selected, the scans will be stored directly in a network directory.



Picture 83: Output Option Network

Go to **Option** to configure the SMB Upload interface. A configuration window will pop up.

B.3.7.1 SMB Configuration

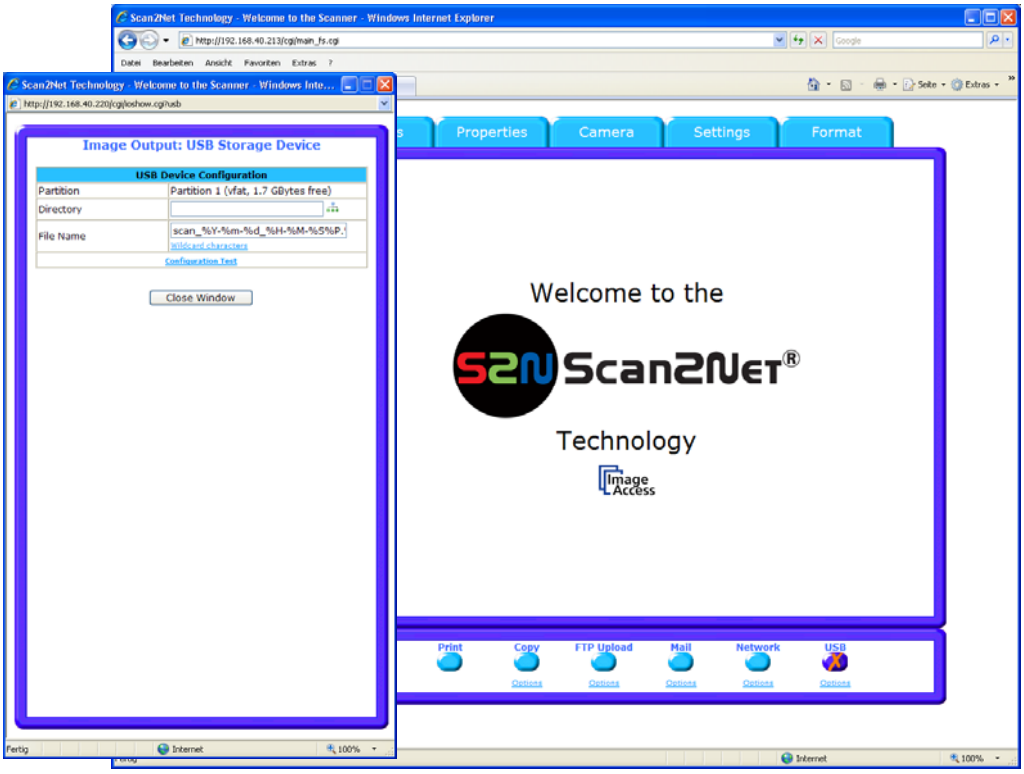
Parameter	Description
Preset	Choose a preset out of five possible sets of parameters. If you click on Change Name you can change the name of this set.
Port (139)	Enter the IP port of the SMB network communication. Default is port 139.
Server Authentication	Select the authentication method.
Login	Enter the user name on the Windows workstation/file server which you want to connect to.
Password	Enter the password associated with the user name for the login at the Windows workstation/file server which you want to connect to. The password is stored using encryption.
SMB Path	Enter the upload path at the Windows workstation. Start with a backslash (**) for the root directory. Click at the icon to browse the workstation/server list and the directory structure of the Windows workstation/file server. **Note:** You must have a valid login for browsing the directory structure.
File name prefix	Enter the file name prefix. A time stamp will be added to this prefix to form the complete file name.

Configuration Test: Click on this link to test the settings. A separate window will open and shows the test results.

Note: Each change to an entry field is transferred to the scanner immediately.

B.3.8 Output Option USB

Universal Serial Bus (USB) is a serial bus standard for interface devices, e.g. storage devices. The output option USB enables direct scanning to a USB Standard-A flash memory data storage device.



Picture 84: Output Option USB

At the front of the WideTEK 36 scanner (right side of the document input) an USB connector can be found, where suitable storage media can be inserted.

Picture 85: USB stick inserted in USB connector

B.3.8.1 USB Storage Device

Go to **Options** to configure the USB interface. A configuration window will pop up.

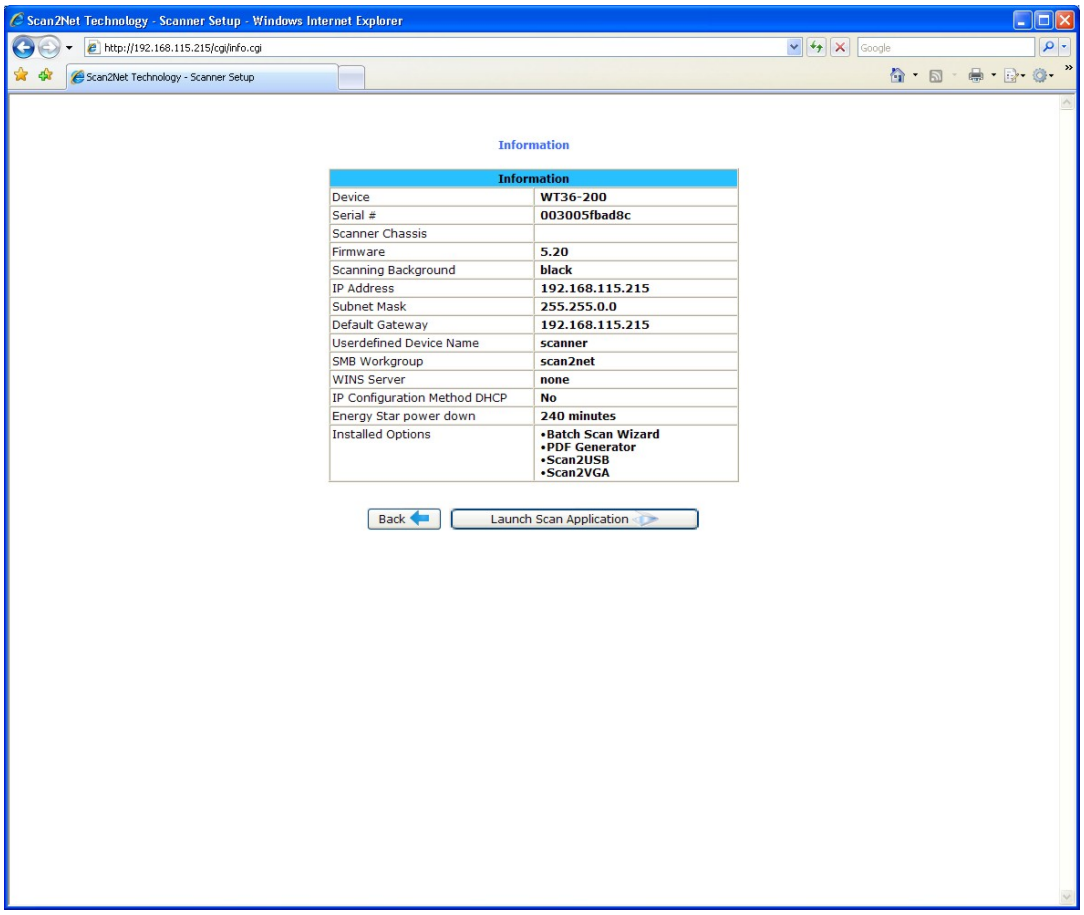
Parameter	Description
Partition	Shows the status and available memory of the actual mounted partition on the connected USB flash device.
Directory	Allows choosing a subdirectory on the connected USB drive for storing the scans.
File name	Shows the actually setting of wildcard characters for the automated naming of each produced image file.
Wild card characters	Offer the complete list of the available wild cards.
Configuration Test	Initiates a short test connection to the connected USB device.

Configuration Test: Click on this link to test the settings. A separate window will open and shows the test results.

Note: Each change to an entry field is transferred to the scanner immediately.

B.4 Information

The start screen (Picture 54) shows three buttons. The button Information gives a short summary of the device parameters.



Picture 86: Information

The screen is helpful if technical support is necessary. It shows e.g. the exact device type, the installed firmware version as well as currently installed options.

Click the button Back to return to the start screen.

Click the button Launch Scan Application to switch to the main screen (Picture 55).

B.5 The Setup Screen

The system level is divided in three access levels. The access levels **Poweruser** and **Admin** are password protected.

The **User** access level allows showing certain information about the system like power up time, remaining lamp life time or firmware version.

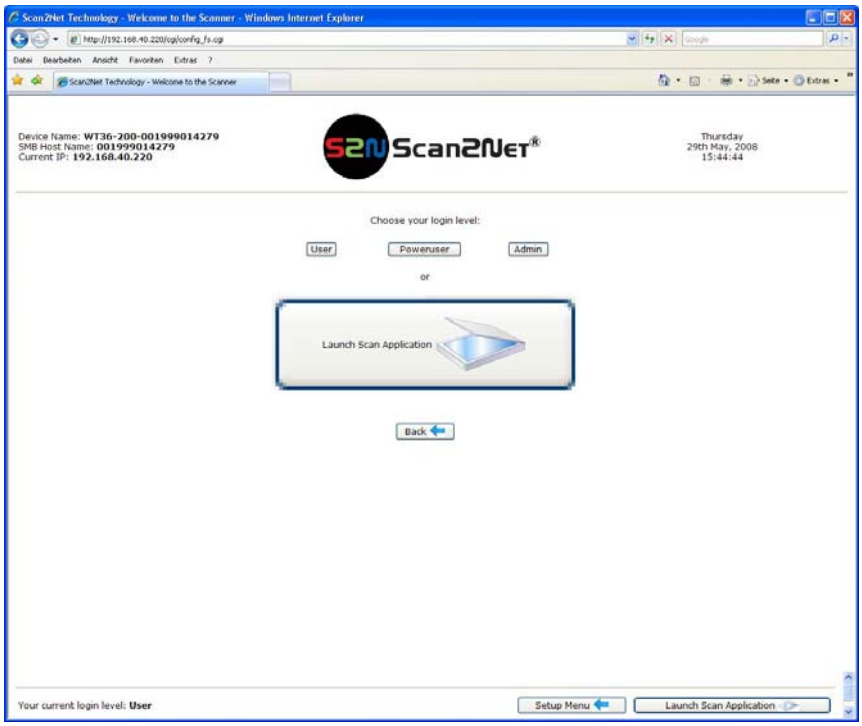
Furthermore the access level **User** allows to set some basic parameters.

Start your browser and enter the IP address of the scanner to get access to the scanner. The start screen (see chapter B.1) will open.

B.5.1 Login Screen

On the start screen, click the button Setup Device.

The next screen shows the login levels User, Poweruser and Admin.

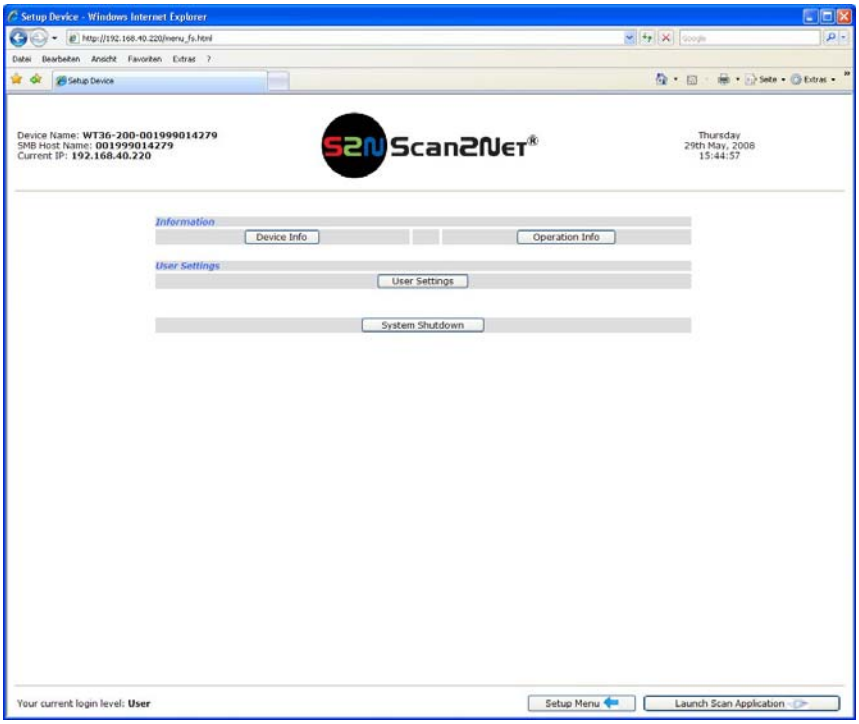


Picture 87: Login screen

Note: The login levels **Poweruser** and **Admin** are password protected. Only trained technicians should use these levels.

B.5.2 Access Level User

Click the button User. This will open the below displayed screen.



Picture 88: User screen

The user screen is divided into two sections.

The section **Information** shows some details of the scanner and gives a general operation information.

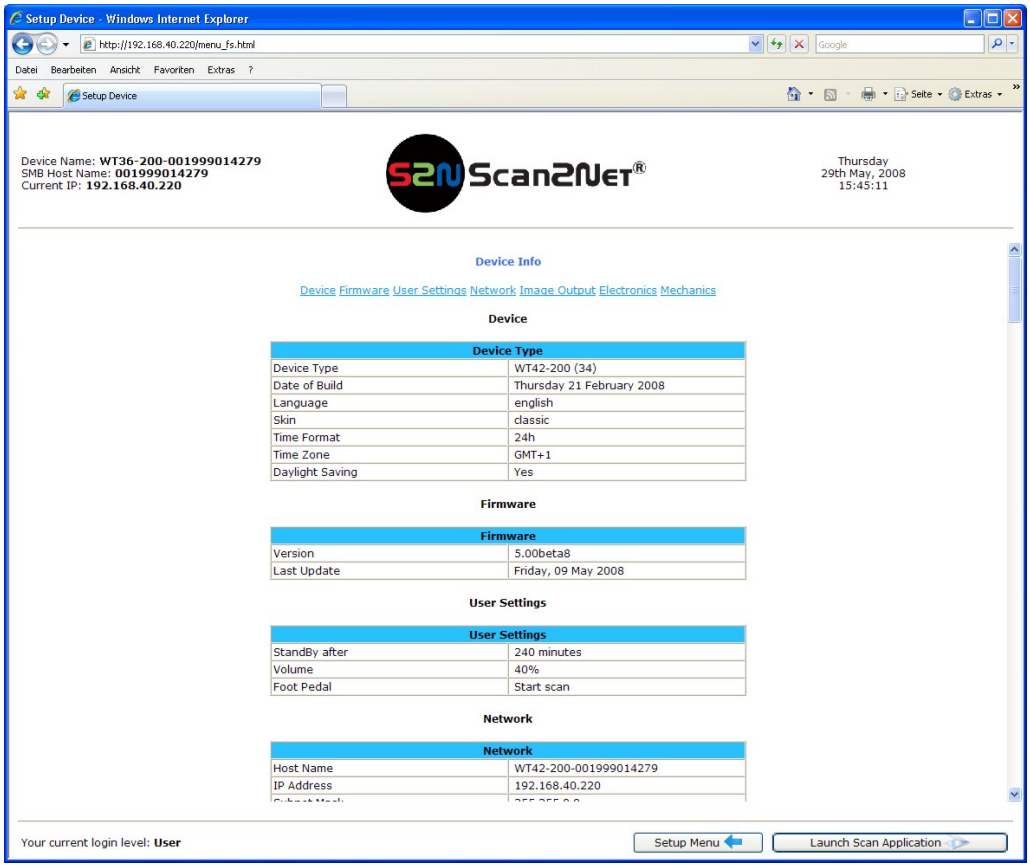
The section **User Settings** allows the user to define some basic parameters of the scanner.

The button System Shutdown switches the scanner off.

B.5.2.1 Device Info Screen

In the section **Information** click the button Device Info and the following list (Picture 89) will be displayed.

Specific information can be reached by clicking the links below the headline **Device Info** or by scrolling through the list.



Picture 89: Device Info screen

The tables following the keyword show the current status of the WideTEK 36 scanner.

The most important information for users is the firmware version in the second table. Other information may be of interest if a service technician is onsite or if the service hotline is called.

To return to the **USER** screen (Picture 88) scroll down completely and click the button Back to Main Menu or click on the “Return” button in your browser.

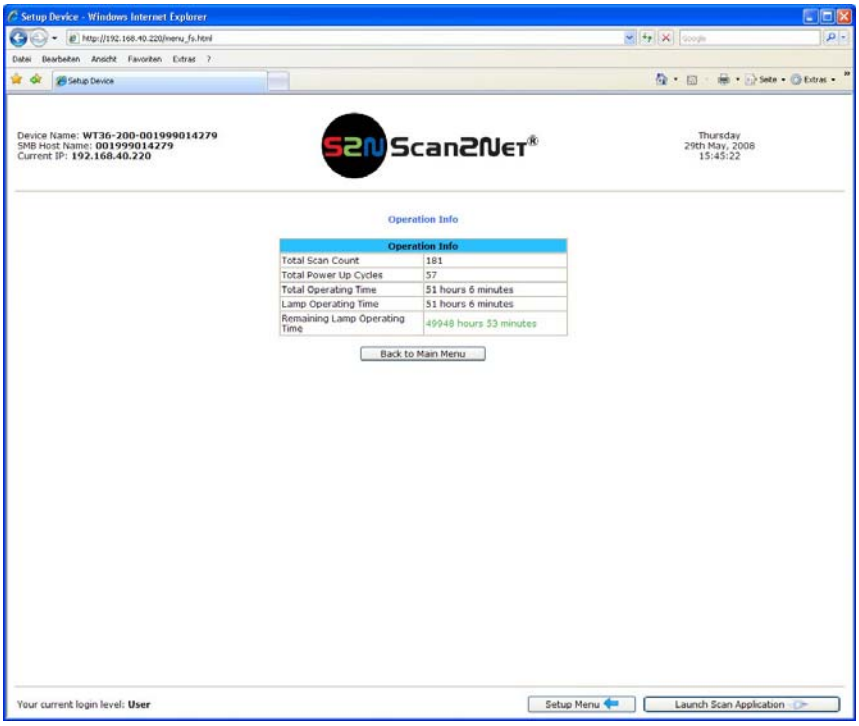
To return to the **Login** screen (Picture 87) click the button Setup Menu.

Click the button Launch Scan Application to switch directly to the main screen of the integrated S2N user interface.

B.5.2.2 Operation Info Screen

In the section **Information** the button Operation Info opens the following list.

It shows various scan counters and elapsed time described in the following table.



Picture 90: Operation Info screen

The following table gives a brief description.

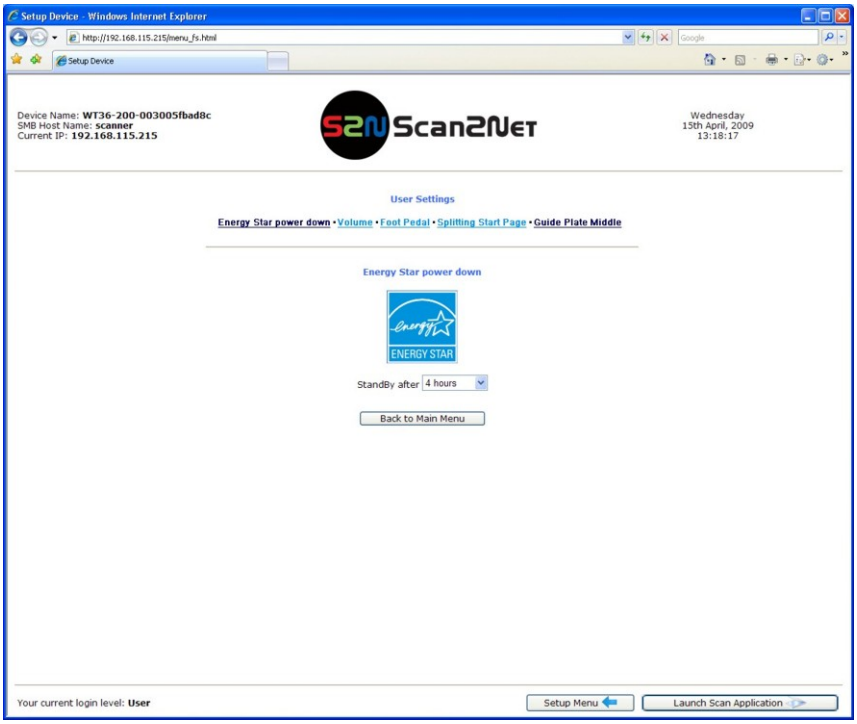
Field	Description
Total Scan Count	The total number of scans performed since the scanner left the factory. Each CCD scan cycle is counted, regardless of it being a pre-scan or a full scan.
Total Power Up Cycles	The total number of power up cycles performed since the scanner left the factory. This function counts the start/stop button invoked cycles only.
Total Operating Time	The total operating time since the scanner left the factory. This is the on-time only, standby time does not count.
Lamp Operating Time	The total lamp operating time since the scanner left the factory. This is the on-time including the dimmed lamp periods.
Remaining Lamp Operating Time	The typical remaining lifetime of the lamps. The lifetime of the lamps of the WideTEK 36 scanner is so long, that they last under normal work conditions for the complete lifetime of the device.

To return to the **USER** screen (Picture 88) click the button Back to Main Menu or click on the “Return” button in your browser.

Click the button Launch Scan Application to switch directly to the main screen of the integrated S2N user interface.

B.5.2.3 User Settings Screen

In the section **User Settings** click the button User Settings and the following screen will be displayed.



Picture 91: Available user settings

Click onto the links below the headline to set the respective parameters.

To return to the **Login** screen (Picture 87) click the button Setup Menu.

To return to the **USER** screen (Picture 88) click the button Back to Main Menu.

Click the button Launch Scan Application to switch directly to the main screen of the integrated S2N user interface.

B.5.2.3.1 Energy Star power down

The WideTEK 36 scanner is Energy Star compliant.

Use the function **Energy Star power down** to set the time until the scanner goes into stand-by mode.

Click on the link **Energy Star power down.**

Picture 92: List of power down times

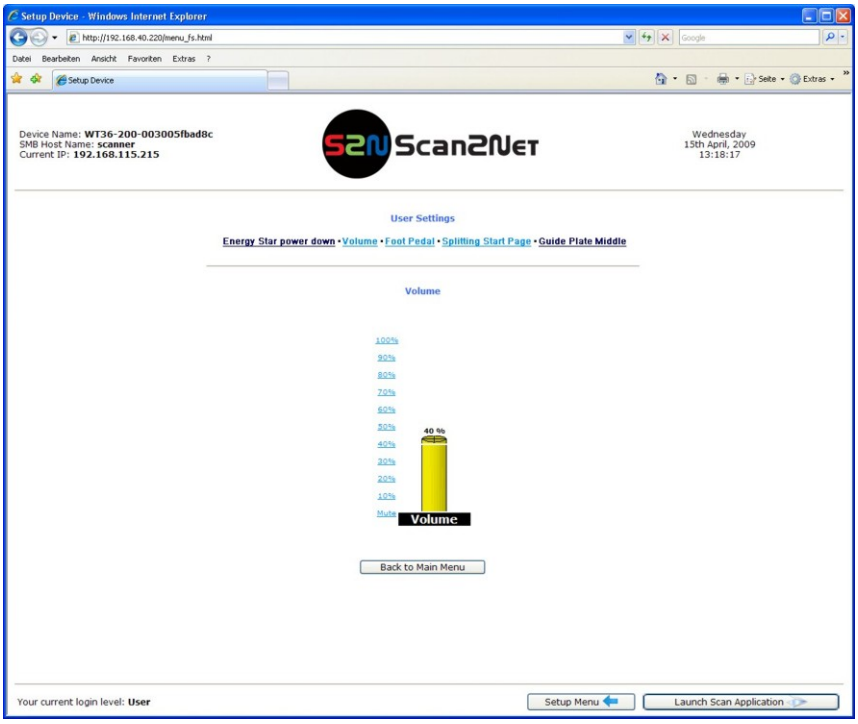
The Energy Star guidelines define the default time until the device goes into standby to be 15 minutes.

In stand-by mode its power consumption is six Watts.

Picture 92 shows the list of available values. The list starts with “5 minutes” and ends with “4 hours”. Four hours is the maximum time period defined through the Energy Star guidelines.

B.5.2.3.2 Volume

Click the button **Volume** to set the loudspeakers volume of the scanner.



Picture 93: Volume level

A screen opens and shows a graphic to symbolize the volume.

Click on the percentage value to change the volume level. The color of the graphic will change depending on the selected volume level.

Volume level	Volume bar color
Up to 30%	Green
40% to 60%	Yellow
70% or higher	Red

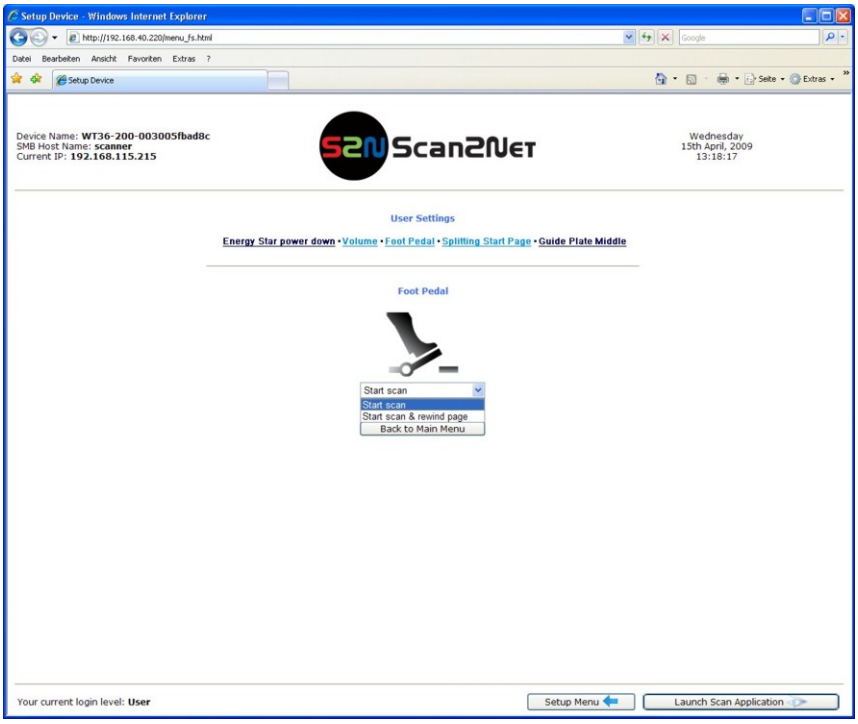
To return to the **Login** screen (Picture 87) click the button Setup Menu.

To return to the **USER** screen (Picture 88) click the button Back to Main Menu.

Click the button Launch Scan Application to switch directly to the main screen of the integrated S2N user interface.

B.5.2.3.3 Foot Pedal

Click the button **Foot Pedal** to define a function for the foot pedal.



Picture 94: Foot pedal settings

The scanner has a foot pedal connector on its left side, seen from the operators position (Picture 3). For the foot pedal a specific action can be defined.

Select from the drop-down list which action should be executed when the pedal is operated.

Drop-down list item	Function
Start scan	Starts the scan with the selected scan area size.
Start scan & rewind page	Starts the scan with the selected scan area size and rewinds it after the scan to its start position.

B.5.2.3.4 Splitting Start Page

Click the button **Splitting Start Page** to define the first page for the splitting function.

Picture 95: Splitting Start Page

In some cases it is necessary to start splitting the documents image in reverse order, i.e. starting with the right side followed by the left side in the second step.

Click the button **Splitting Start Page** and select either the left page or the right page as start page.

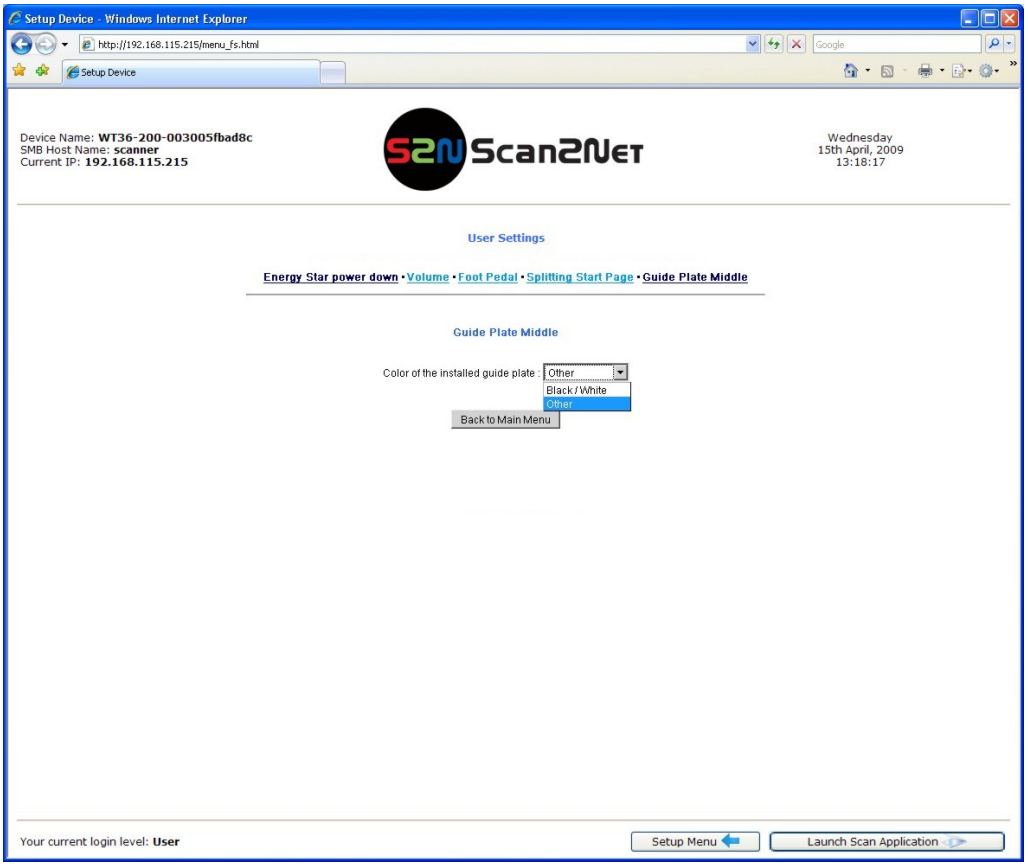
To return to the **Login** screen (Picture 87) click the button Setup Menu.

To return to the **USER** screen (Picture 88) click the button Back to Main Menu.

Click the button Launch Scan Application to switch directly to the main screen of the integrated S2N user interface.

B.5.2.3.5 Guide Plate Middle

Click the button **Guide Plate Middle** to define the type of guide plate which is installed in the scanner.



Picture 96: Guide Plate Middle

The WideTEK 36 scanner can be equipped with different colored types of guide plates.

Black / White: The standard guide plate is black colored.

For transparent documents a white guide plate is available as an option.

Other: When replacing the guide plate with a guide plate colored other than black or white, select this setting

When changing the guide plate from black to white or to any other color or reverse, the scanner must be restarted to detect the changing and to reconfigure its parameters.

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C Tests and Troubleshooting

C.1 Troubleshooting Matrix

Fields with a light blue background need the power user access level. All other fields are available to all users.

Problem	Possible cause	Action
The touch screen does not show the stand-by message.	No power	Check main outlet, power cord, power-on switch on the left side of the device.
Touching the touch screen does not power up the device.	Connector failure, software glitch …	Switch power off for at least 10 seconds. Retry after touch screen is illuminated again.
Touching the STOP button on the touch screen does not power down the device.	Internal software hangs, application hangs …	End all applications and retry. If problem persists, touch the **STOP** button for at least 10 seconds. Power up again.
Image is darker than expected.	The target used for white balance is much brighter than the scanning target.	Go to the Adjustments function and modify the Brightness Correction setting.
Image is brighter than expected.	The document is much brighter than the target used for white balance.	Go to the Adjustments function and modify the Brightness Correction setting.
Image has vertical stripes or streaks.	Improper white balance.	Exercise the White Balance procedure.
Image shows a color shift towards red (tint)	The target used for white balance is more blue than the scanning target.	Go to the RGB adjustments and lower the gain on red.
Image shows a color shift towards blue (tint)	The target used for white balance is more red than the scanning target.	Go to the RGB adjustments and lower the gain on blue.
Image shows a color shift towards red (tint)	The scanner receives significant amounts of infrared light (sun or spot lights) not visible to the human eye.	Change position, close blinds, dim or shut off any bright spotlights.

C.2 Error Codes

The scanner does report error conditions on the display and through the API. Some errors are only sent to the API.

A green problem description signals that operation of the scanner is still possible alt hough the error will have an influence on the behavior or quality of the scanner.

A red problem description signals that a problem occurred which will stop the scanner and further scanning is inhibited.

Note: Problem description text with a red background indicates a critical error.
Text with green background indicate warnings.
White backgrounds indicate that the message is information only.

Error #	Error message shown in the display	Error message sent to application	Problem description
1		Scanner in use.	An attempt to access the scanner was made from a different application.
2		Invalid session ID.	An attempt to access the scanner with an invalid session ID was made.
4	Invali	d password	An attempt to access the scanner with an invalid password was made.
5	E05 S2N BOARD	S2N board failure	The S2N board is either not found or found defective. Make sure board is sitting correctly on the motherboard.
6	E06 POWER SUPPLY FAILED	Power supply failed	A problem with the internal power supply was detected. Operation is not possible.
7	USER BREAK	Stop button pressed.	The stop button was pressed during the operation.
8	User	timeout	The function ended because of a time out
9	Warming	up	The device is still warming up and cannot be used.
10	Invali	d setting value.	The value sent to the device is invalid.
11		Setting does not exist.	The settings does not exist.
12		Invalid user docsize.	The size of the user format is invalid.
14		Invalid resolution or color mode.	Either the resolution or the color mode is invalid.
15	Document feeding error.	Document feeding error.	The document is not inserted correctly. Please insert the document again. Using “Transport speed” = “slow” may help.
16	Paper over exit sensor	Paper over exit sensor.	Paper is found in the exit sensor region. Pull paper out of the device.
17	Paper in transport	Paper in transport Please clear transport	Paper is found in the transport. Clean transport first.
18	Paper jam	Paper jam Please clear transport.	Paper jam occurred. Clear transport first.

Error codes, part 2

Error #	Error message shown in the display	Error message sent to application	Problem description
30		File format not supported.	The specified file format is not supported or it is invalid in combination with the color mode.
31	Previe	w not possible.	The application specified an invalid preview scale. Not all scale factors are allowed with all image sizes.
32		Invalid color conversion	The application changed the color depth between scanning and image transfer and a conversion between these modes is not possible. Example: scan in binary, then changed color mode to truecolor.
33		No image available	The application attempted to get an image from the scanner and there was no scan since the device was turned on.
55	Error 55: Wrong S2N Board (CCD Ports)	Wrong S2N board detected (not enough CCD ports)	The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.
56	Error 56: S2N Board: wrong revision	Wrong S2N Board detected (Revision not OK)	The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.
60	Error 60: General camera error	General camera error.	General error on the CCD camera board. Check power, cables and S2N-PCI board.
61	Error 61: Loading camera 1 failed	Load camera 1 failed.	Initializing of camera 1 failed. Check power, cables and S2N-PCI board.
62	Error 62: Loading camera 2 failed	Load camera 2 failed.	Initializing of camera 2 failed. Check power, cables and S2N-PCI board.
63	Error 63: Loading camera 3 failed	Load camera 3 failed.	Initializing of camera 3 failed. Check power, cables and S2N-PCI board.
65	Error 65: Camera 1 data bus error	Camera 1 data bus error.	Test data transfer to camera failed. Check cables / connectors to camera 1 and S2N-PCI board.
66	Error 66: Camera 2 data bus error	Camera 2 data bus error.	Test data transfer to camera failed. Check cables / connectors to camera 2 and S2N-PCI board.
67	Error 67: Camera 3 data bus error	Camera 3 data bus error.	Test data transfer to camera failed. Check cables / connectors to camera 3 and S2N-PCI board.
69	Error 69: ADC error camera 1	Camera 1 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 1.

Error codes, part 3

Error #	Error message shown in the display	Error message sent to application	Problem description
70	Error 70: ADC error camera 2	Camera 2 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 2.
71	Error 71: ADC error camera 3	Camera 3 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 3.
75		General keyboard error	General keyboard error. Check keyboard and cables.
82	Bad scan background Please clear transport	Bad Scan background	Automatic measurement can not be executed. Remove documents from the transport section.
99	Internal	error.	The firmware has detected an internal error of unknown cause.

C.3 Warnings

Warning #	Warning shown in the display	Warning sent to application	Problem description
83	Scan background was changed	Scan background was changed	The background was changed. Repeat scan sequence to correct the measured value. Warning will disappear.
144		Light level is low	The light level is found to be low during the white balance function.
145	Camera adjustment required	Camera adjustment required	General information about the camera adjustment. Check for details and readjust.
160	W160 NO WHITE BALANCE DATA	No white balance data	No white balance data was found. Perform white balance.
180		Deskew failed	The deskew function failed. Reposition document.
181		Stitching2D: out of memory. Using fixed stitching	There is not enough memory available to complete the stitching function.
182	Stitching	2D: bad matching. Using fixed stitching	2D stitching can not deliver a matching result. Switch to “Fixed” stitching.

C.4 Information

Infor-mation #	Information shown in the display	Information sent to application	Description
200	CREATING RECOVERY PART..	Creating Recovery Partition	While creating the recovery partition, the scanner can not be accessed.

D Technical Data

D.1 Scanner Specifications

Optical System

Maximum Document Width	38 inch / 965 mm
Scan Width:	Max. 36 inch / 915 mm
Optical Resolution	1200 x 600 dpi
Sensor Type:	3x Tri-Color CCD, encapsulated and dust-proof
	12 bit grayscale (internal resolution)
	36 bit color (internal resolution)
Sensor Resolution:	68.400 pixels (3x 22.800)
Scan Modes:	1bit Black/White
	8bit Grayscale
	24bit Color, 8bit indexed

Illumination:

Light Source:	Two lamps with 130 white LEDs each
Warm-up Time:	None. Max. brightness immediately after switch-on.
Temperature Dependence:	None
UV / IR Emission	None
Lifetime	50.000 hours scanning time

D.2 Ambient Conditions

Operating Temperature	+5 to +40° Celsius
Storage Temperature	0 to +60 °Celsius
Relative Humidity	20 to 80% (non-condensing)
Noise Level	< 35 dB(A) (Operating) < 25 dB(A) (Stand-by)

D.3 Electrical Specifications

This device is Energy Star compliant.

Voltage	100–240V AC
Frequency 50/60	Hz

Power Consumption

Stand-by	0.1 W
Start Procedure	190 W
Ready to scan, lamps off	115 W
Scanning 190	W

D.4 Dimensions and Weight

Scanner outer dimensions	220 x 1094 x 555 mm (H x W x D)
Scanner outer dimensions (incl. floor stand)	1070 x 1094 x 555 mm (H x W x D)
Weight of Scanner	45,6 kg
Weight of Floor Stand / incl. Paper Output Tray	17,5 kg / 19,7 kg

Wood Transport Box:

Weight of Transport Box	26 kg
Dimension of Transport Box:	540 x 1300 x 745 mm (H x W x D)
Total shipping weight	96 kg

D.5 CE Declaration of Conformity

The undersigned, representing the manufacturer:

Image Access GmbH

Hatzfelder Strasse 161 – 163

42281 Wuppertal, Germany

herewith declares that the

Product:	**WideTEK 36 Scanner**
Model Designation:	**WT36 –XXX** (XXX represents the device version number and configuration details)
Serial number:	All

is in conformity with the following European standards and IEC directives:

EMC Directive 2004/108/EEC as per:

EN 55022:2006 Class B

EN 61000-3-2:2006

EN 61000-3-3:1995 + A1:2001 + A2:2005

EN 55024:1998 + A1:2001 + A2:2003

FCC 47 CFR Ch.1 Part 15 2007-09-20

Low Voltage Directive (Safety) 2006/95/EEC as per

IEC 60950-1:2001

EN 60950-1:2001

UL 60950-1:2007

CSA C22.2 No 60950-1-03, 1st Ed., 2006-07

Wuppertal, 01.02.2007

Thomas Ingendoh , President and CEO

D.6 FCC Declaration of Conformity

Responsible party:

Image Access GmbH

Hatzfelder Strasse 161 – 163

42281 Wuppertal, Germany

Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

Product: **WideTEK 36 Scanner**

Model Designation: **WT36 –XXX**
(XXX represents the device version number and configuration details)

For unique identification of the product configuration, please submit the 12-digit serial number found on the product to the manufacturer.

This device complies with Part 15, Class B of the FCC Rules. Operation of this product is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For your notes