



WideTEK® 48C



WideTEK® 36C

Operation Manual

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Introduction

Dear Customer,

The Image Access team congratulates you on the acquisition of this innovative large format scanner.

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® 36C / WideTEK® 48C**, 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® 36C / WideTEK® 48C**.

For this reason, we ask you to read the manual attentively before starting to work with the sanner. 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® 36C / WideTEK® 48C** 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® 36C / WideTEK® 48C** 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.

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

This manual is divided into sections.

Section A contains the safety notes and the safety precautions. These safety precautions must be followed carefully to avoid injury to the user while working with the scanner.

Section B describes the scanner hardware and the first steps to take after the device has been delivered. It contains also some maintenance information.

Section C describes touchscreen operation and the functions of the applications.

Section D gives a short introduction and basic information about the user interface ScanWizard Web. All details about the interface can be found in the integrated "Help" texts in the scanner.

Section E informs about the setup levels in general and describes the access level **User** in detail.

Section F describes test and troubleshooting procedures.

Section G contains all technical data of the scanner and the manufacturer declarations concerning safety and electromagnetic compatibility (EMC).

Version History

Version	Published in	Content/Changes/Supplements
A	May 2011	Preliminary version.
A2	July 2011	Information after EMC and safety testing and certification added.
A3	September 2011	Chapter C.3.9: New content, former chapter C.3.9 renumbered to C.3.10. Content of chapter C.5.2 revised, new screenshots added.
A4	October 2011	Chapter B.6.3.1 added. In Chapter C.3.3 additional information about "Container" format for multipage output. Chapter C.3.7.2 added. FCC note added in chapter E.6.
A5	December 2011	Update Technical Data
B	April 2012	Update of content of User Settings (FW Vers. 5.71). New structure in chapter C.3.5 and its subfolder.
B1	March 2013	Valid with firmware 5.8. Copyright note with updated trademark information. The new WideTEK® 36C logo has been introduced. New: Chapter B.5.1. Zonal OCR Previous chapter B.5.1 and all following chapters renumbered. New screen screenshots of some kiosk application screens.
B2	June 2013	Section D describes now the "Setup Level". Former chapter D and E have been renumbered.
C	December 2013	Section C: Content change because of introduction of the new user interface ScanWizard.
D	April 2014	Combination of the WideTEK® 36C / WideTEK® 48C operation manuals in one manual. Differences between the scanner models will be highlighted. Chapter B.3.2, B.3.3, B.3.5 and B.3.6 with new content. Chapter B.1.1, chapter D.1.3.2, chapter D.1.3.4 added.
D2	September 2014	Chapter C.1.1 and C.1.1 added. Table in chapter E.1 modified.
E	December 2015	Chapters in new order. Description of the ScanWizard touchscreen interface added.

EMC information according to the standard EN 55022

Warning!

This is a class A device. Operation of these equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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A Safety Notes

A.1 General Notice

This manual describes a complete equipped scanner. If your scanner is not equipped with all features, deviations are possible.

Because of the identical content of the touchscreen menus and ScanWizard menus, the pictures are valid for both scanner versions.

A.2 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.2.1 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.3 Certification

The WideTEK® 36C / WideTEK® 48C scanners fulfill all requirements of the following standards:

IEC 60950-1, International Safety Standard for Information Technology Equipment

UL 60950-1, Safety for Information Technology Equipment (US standard)

CAN/CSA C22.2 No.60950-1, Safety for Information Technology Equipment
(Standard for Canada)

EN 60950-1, Safety for Information Technology Equipment (European standard)

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.



Danger of **moving transmission parts** when opening the upper unit of the scanner.

This device is not suitable for use in locations where children are likely to be present.

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 place objects containing liquids on the scanner. If liquid spills into the scanner it can cause damage. If this occurs, turn the scanner off and unplug the external power supply. Contact the Image Access Technical Support.
7. Do not put any objects into any scanner housing openings unless specifically instructed to do so by Image Access Technical Support.
8. Do not disassemble the scanner. If there is a need to disassemble the scanner, please contact the Image Access Technical Support.
9. Do not use the scanner if it has been physically damaged. If this occurs, turn the scanner off, unplug the external power supply and contact the Image Access Technical Support.
10. The scanner should be used only with the external power supply that is delivered with the scanner. If you have any question about the power supply, please contact the Image Access Technical Support.
11. Before cleaning the scanner turn the power off and unplug the external power supply.
12. 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.
13. Use a dry or damp lint free cloth for cleaning the scanner.
14. 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.

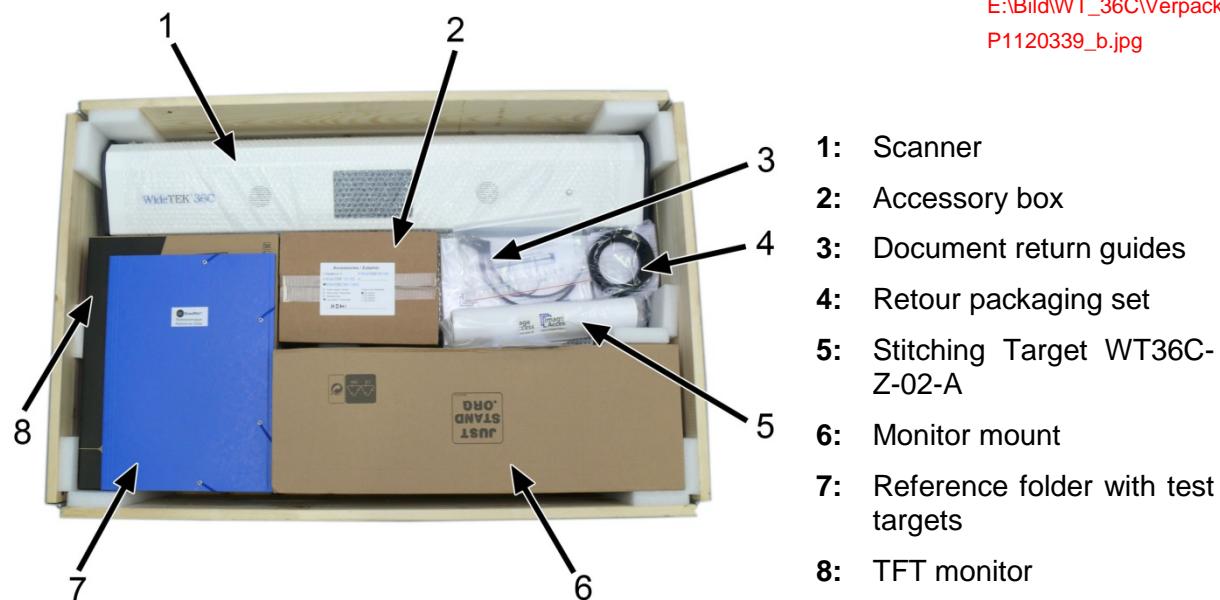
B Hardware

B.1 Content on Delivery

B.1.1 WideTEK® 36C

When delivered, the scanner is placed at a Euro pallet, bordered at all sides by a stable wooden frame and covered with a wooden top cover.

After removing the top cover of the transport box the paper output tray is visible.



Picture 1: Transport box opened

The WideTEK® 36C scanner as well as the components is held in the transport box with a total of six foam inserts.



Picture 2: Floor stand box

Take the monitor mount box, the reference folder and the monitor box out of the transport box.

A label on top of the accessory box lists the components contained in.



The floor stand in its box is now accessible.

Pull up the six foam inserts at the corners and at the narrow sides out. Remove them all.

Once the scanner is lifted down from the pallet, additional accessories will be accessible.

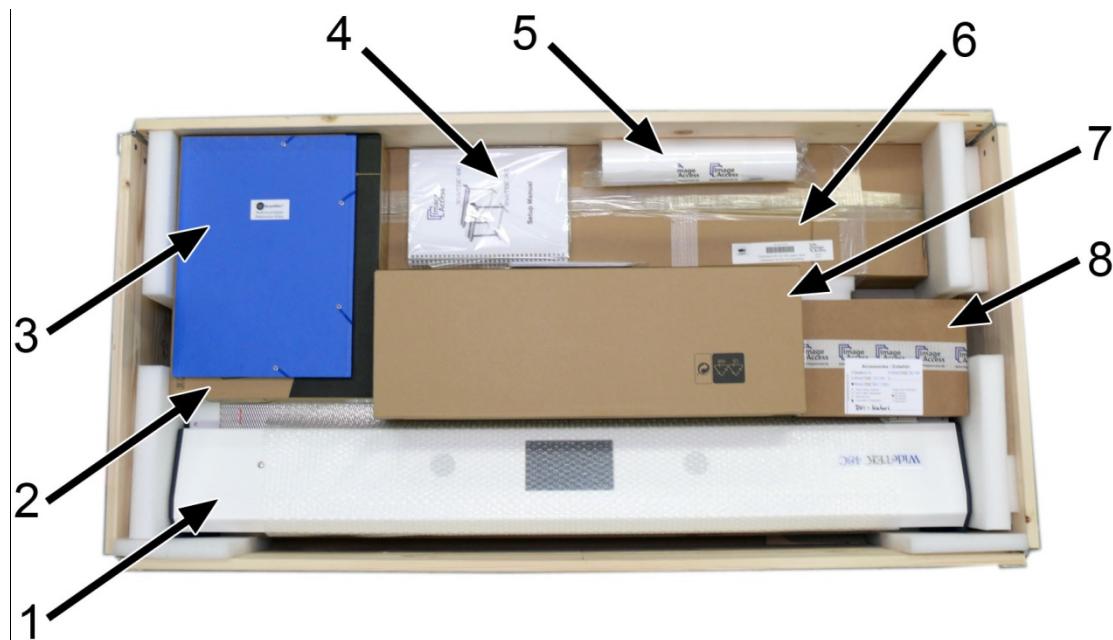
Lift the wooden frame from the pallet to get access to the scanner and to the floor stand cardboard box.

B.1.2 WideTEK® 48C

When delivered, the scanner is placed at a Euro pallet, bordered at all sides by a stable wooden frame and covered with a wooden top cover.

After removing the transport box top cover the scanner and all accessories are visible.

The WideTEK® 48C scanner and all other components are held in the transport box with foam inserts in the corners and at the long sides.



Picture 3: Content of transport box with WT48C-600-BDL

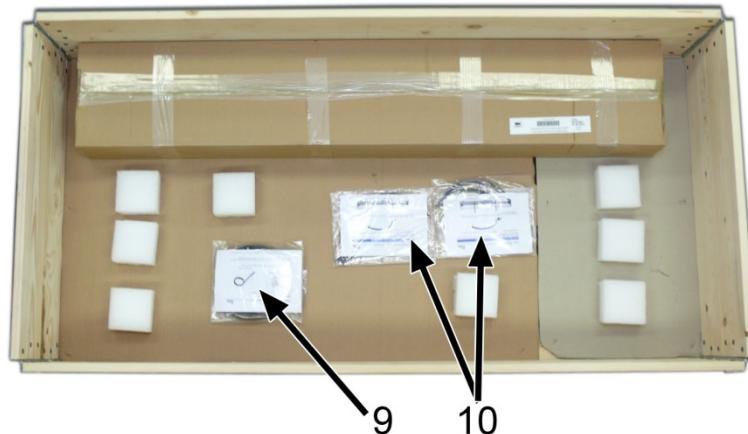
- 1: Scanner
- 2: External 19" monitor. (Optional. Contained in bundle)
- 3: Reference folder with test targets, e.g. CSTT- and IT8 test target.
- 4: Operation manual.
- 5: Stitching and White Reference targets.
- 6: Floor stand. (Optional. Contained in bundle)
- 7: Monitor mount for external monitor. (Optional. Contained in bundle)
- 8: Accessory box with external power supply, patch cable and foot pedal.

Take the parts out of the transport box.

Pull up the foam inserts and remove them. Sometimes a little strength is necessary.

Note: **High scanner weight.** Lift the scanner with **two persons** from the pallet.

Once the scanner has been lifted up from the pallet, further accessory parts are accessible.



Picture 4: Further accessory parts

9: Retour packaging set

10: Two sets of document return guides.

B.1.3 Keeping the Transport Box for later use

All elements used with the transport box can easily be stored.

The wooden frame can be folded. The foam inserts can be placed between the base plate and the cover plate.

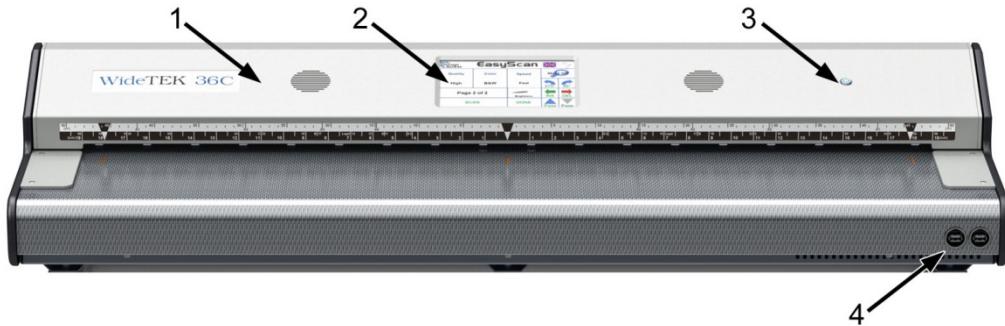
The wooden frame can be place on top of the cover plate.



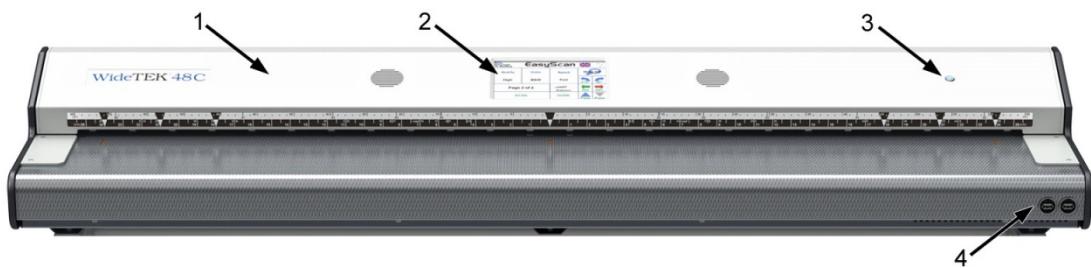
Picture 5: Transport box elements ready to store

B.2 Device Overview

B.2.1 Front Side Elements



Picture 6: WideTEK 36C front view



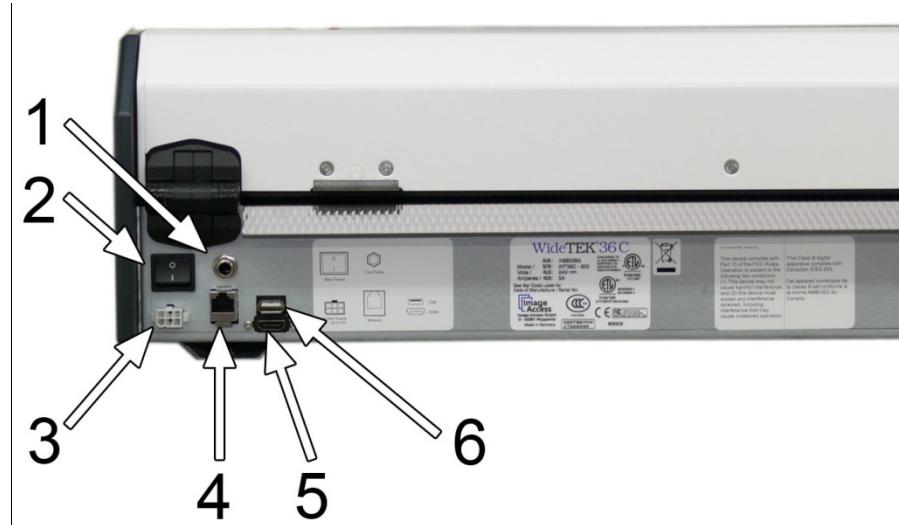
Picture 7: WideTEK 48C front view

The main elements are:

- 1: Upper unit. The upper unit contains the cameras and the paper transport rolls.
- 2: Touchscreen. The touchscreen shows all menus to set up and control the scanner
- 3: "Power" button. Push this button to start the scanner from standby mode. Push and hold for at least three seconds to set the running scanner to standby mode.
- 4: USB connectors. Enable the user to connect qualified USB storage media to the scanner.

B.2.2 Rear Side Connectors

Seen from the operators view (i.e. from the front of the scanner), the connectors are positioned at the right back side of the housing.



Picture 8: Main power switch and connectors on rear side

A label beside the connectors shows and names each connector.

- 1: Foot pedal connector.
- 2: Main power switch.
- 3: Power supply connector
- 4: Network cable connector
- 5: HDMI (video) connector
- 6: USB connector

B.2.3 Recovery Key Connector

Seen from the operators view (i.e. from the front of the scanner), the Recovery Key connector is positioned at the left back side of the housing.



Picture 9: Recovery Key connector, covered with plastic cap

Detailed information about the recovery function can be found in the separate Setup Manual.

Please note: The recovery function should only be activated by an administrator!

B.3 Connecting to the Power Source

Before connecting the scanner to the external power supply and the power supply 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.

The connector for the external power supply and the main power switch are both located at the right side of the back of the document bed.

After the power source is connected and the main power switch is turned on, the symbol in the „Power” buttonlights up.

Red illumination of the „Power” buttonsignals that the scanner is in standby mode.

B.4 Powering up the Scanner

The main power switch is located at the back of the scanner.

Picture 8 shows the position of power supply connector and main power switch.

After connecting the scanner to the external power supply, switch the main power switch to position I. When the main power switch is in position I, the “Power” button will be illuminated and the scanner is in standby mode.

B.4.1 Starting the Scanner from Standby Mode

Push the red illuminated “Power” button to start the scanner.

The button illumination changes to blue.

The scanner starts with self-test routines and verifies all system components. Status messages will be displayed on the touchscreen and (if connected) on the external TFT monitor.

At the end of the start-up sequence, the touchscreen displays the start screen.

B.4.2 Switching the Scanner to Standby Mode

Note: Always turn off the scanner with the “Power” button at the right side of the front panel!

The main power switch should only be used when the scanner is in standby mode and **before** the scanner is disconnected from the external power supply.



To turn off the scanner, press and hold the “Power” button for at least three seconds. While pressing the button, a “click” sound is audible.

The content of the TFT flat screen and the touchscreen changes and display the message: **Going to shut down now ...**

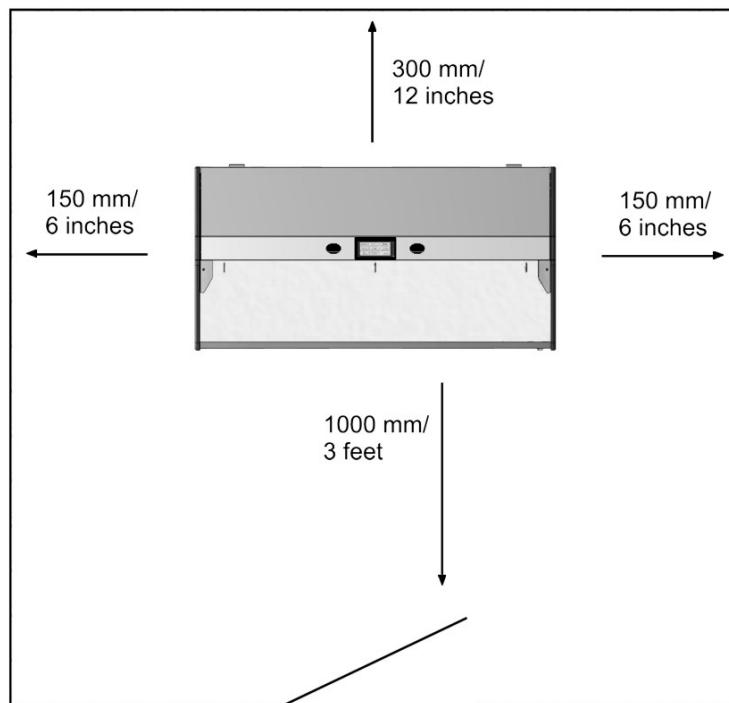
Finally the TFT flat screen and the touchscreen switch off and the “Power” button will be illuminated red.

B.5 Device Location

The installation location must have

- a minimum distance of not less than 150 mm (6 inch) between the sides of the scanner and the wall,
- a minimum distance of not less than 300 mm (12 inch) between the backside of the scanner and the wall,
- a minimum distance of not less than one meter (3 feet) from any door or entrance way and the scanner.

Use illustration below as a guide.



Picture 10: 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 scanner 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 scanner 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, chapter G.3.

Note: Before using the 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.

B.6 Maintenance

Important: Ensure that no liquids will penetrate into the device housing.

B.6.1 Touchscreen

Before cleaning the touchscreen, switch the scanner off and set the main power switch to position **0**.

The touchscreen can be cleaned with a micro fiber cloth.

B.6.2 Surfaces

Use a soft, dampened cloth to clean the housing of the scanner. Recommended is a micro fiber cloth.

B.6.3 Camera Modules Glass Plates

Important: Do not use any cleanser with solvents to clean the glass plates!

The camera module glass plates have a special surface coating.

It is recommended to clean the glass plates always with a micro fiber cloth.

Dampen the micro fiber cloth slightly before cleaning.

Clean the glass plates with minimum pressure. Do not rub the glass plates on isolated positions.

After cleaning, dry the glass plate with a soft cloth – micro fiber cloth recommended.

B.7 Repair

Note: There are not any parts or components of the WideTEK® 36C / WideTEK® 48C scanner which can be repaired by the user.

All repairs and service works should be done by a trained technician only.

C Touchscreen Operation

The WideTEK® scanners can be controlled in two ways.

- Via the integrated touchscreen and its applications.
The functions of the applications available from the touchscreen are described starting with chapter C.1.
- Via a standard browser and the integrated ScanWizard Web user interface. A short introduction of the functions of the integrated ScanWizard user interface starts in chapter D.

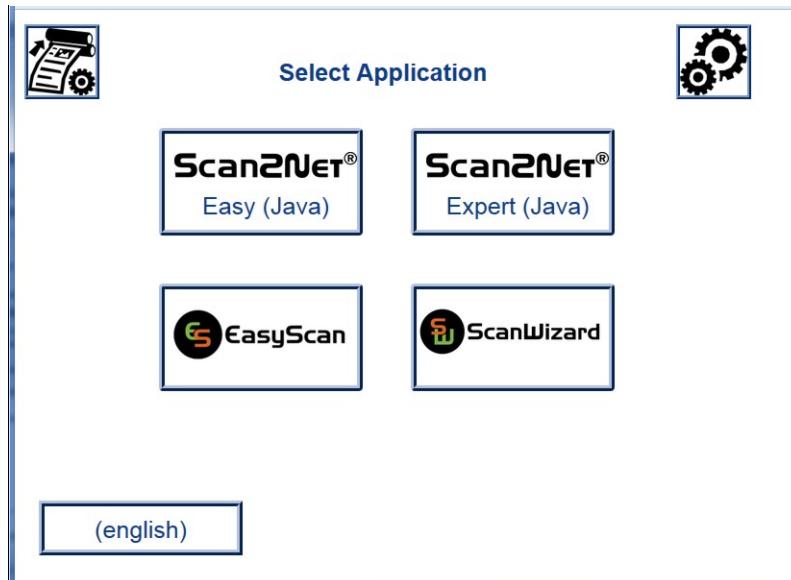
Please note: All screenshots are taken from a fully equipped device with all options and functions activated. Depending on the selected mode, the menus displayed on the screen can vary.

GENERAL NOTICE

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

C.1 Select Application Screen

When the WideTEK® scanner starts from standby mode and finishes the startup procedure, the touchscreen displays the **Select Application** screen.



Picture 11: Select application screen after start-up

Scan2Net®
Easy (Java)

Touching one of these buttons activates the **Scan2Net®** kiosk application.

Scan2Net®
Expert (Java)

The **Easy** mode differs from the **Expert** mode by a reduced number of available parameters.

The description of the **Scan2Net®** user interface describes the **Expert** mode with all parameters. See chapter C.3 and subchapters.

 **EasyScan**

Touching this button will switch to a user programmable application. As factory default the **EasyScan** application is integrated.

To leave the application, touch a free section in the title line of the application. Confirm the request by touching the STOP button.

 **ScanWizard**

Touching this button switches to the start screen of the integrated ScanWizard application.

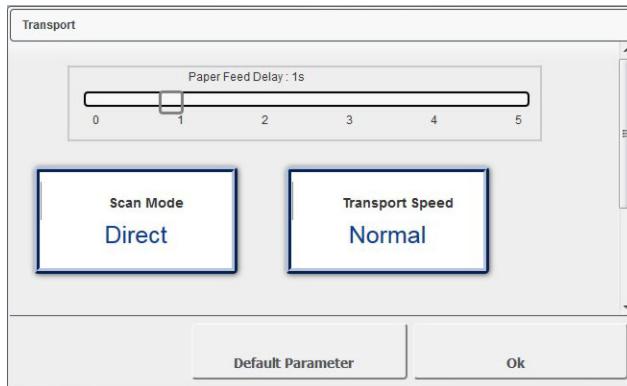
C.1.1 Document Transport Settings



Touch the icon in the upper left corner in order to open the document transport settings.

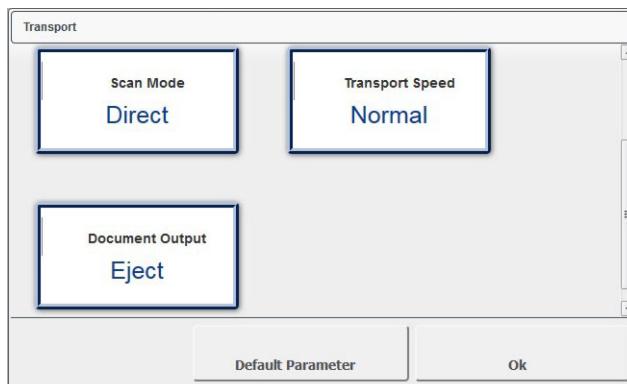
An additional window placed in front of the select application screen will open.

It contains a slider to set the **Paper Feed Delay** ...



Picture 12: Document Transport Settings, part 1

... and three buttons to set **Scan Mode**, **Transport Speed** and **Document Output**.



Picture 13: Document Transport Settings, part 2

C.1.1.1 Paper Feed Delay

Paper Feed Delay Defines the delay between inserting the document into the transport path and the transport start.

C.1.1.2 Scan Mode

- Direct:** Feeds the document in the scanner until the camera recognizes the document edge; then the document returns to the start position.
(Default)
- Always Ready** The document transport start directly after the application sends the stat command. This mode is recommended for documents with irregular document edges.
- Quick:** Transports the document into the scanner until the photo sensor in the transport path detects the paper edge.

C.1.1.3 Document Output

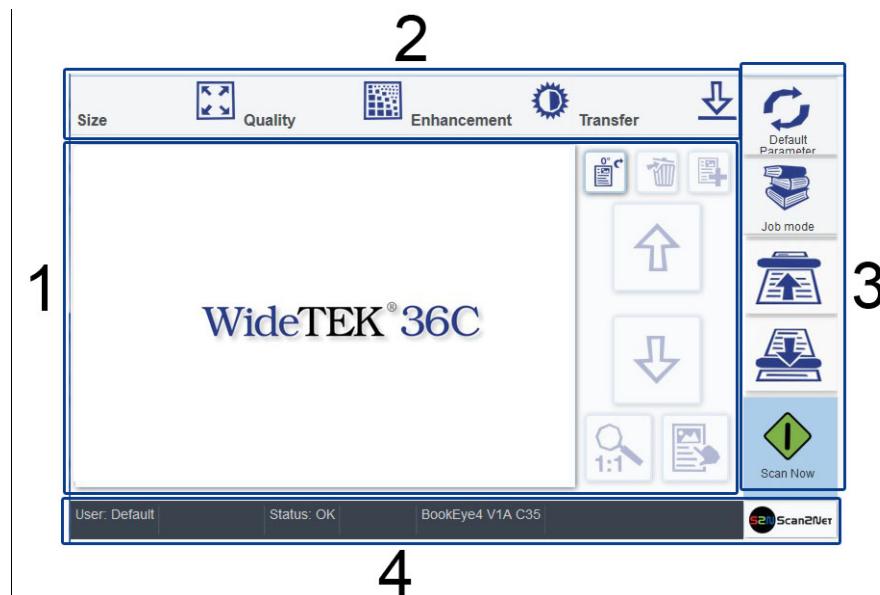
- Eject:** Transports the document out of the scanner after terminating the scan sequence.
- Hold:** Holds the document after terminating the scan sequence at the output side of the transport path.

C.1.1.4 Transport Speed

- Normal** The transport speed depends on the selected resolution. Valid is: The higher the resolution, the slower the transport sped.
- Slow** Reduces the transport speed to a half of the normal speed. This mode is recommended for delicate or antique documents.

C.2 ScanWizard Application

ScanWizard is an intuitive user interface for your Scan2Net® scanner, which enables the user to control the scanner and all scanning parameters by clearly structured menus.



Picture 14: ScanWizard application main screen

- 1: Preview section. The scanned image is displayed here as preview. The buttons beside the preview window have the following function:



Turns the image in clockwise direction.



Deletes the selected image. Only active in **Job Mode**.



Marks where in the list an image should be inserted.
Only active in **Job Mode**.



Moves upwards through the list of images.
Only active in **Job Mode**.



Moves downwards through the list of images.
Only active in **Job Mode**.



Displays the image in 100% size.



Fits the image size to the screen size. Alternates with the above displayed icon. Available, if the image is displayed in 100%.



Marks an image.

- 2: Menu button bar. Used to select scanning parameters and in order to set the parameters in detail.

3: **Button Function**



Returns the scanner to default parameter settings.



Activates the job mode.



Touch this icon to end the job mode and to return to single mode. Only active in **Job Mode**.



Touch this icon to transport the document forward through the document path.



Touch this icon to transport the document reverse through the document path.



Starts the scan sequence.



This icon is displayed if an image has been marked in the list for rescanning. Only active in **Job Mode**.

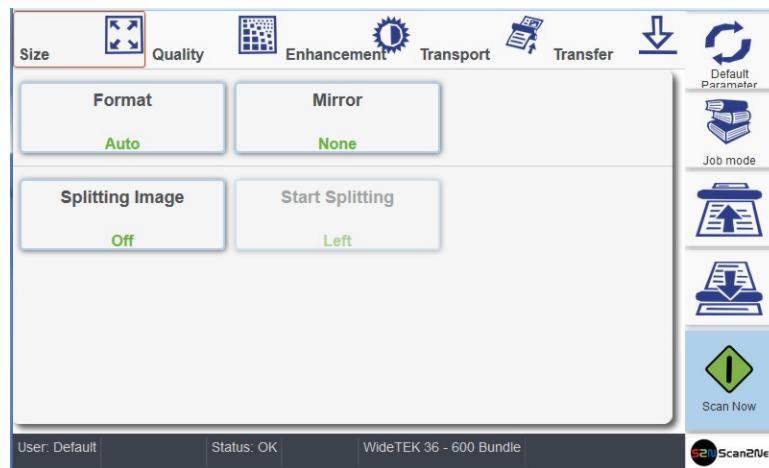
- 4: Status line. Shows some information of the scanner.



Touch the Scan2Net symbol to return to **Select Application** screen.

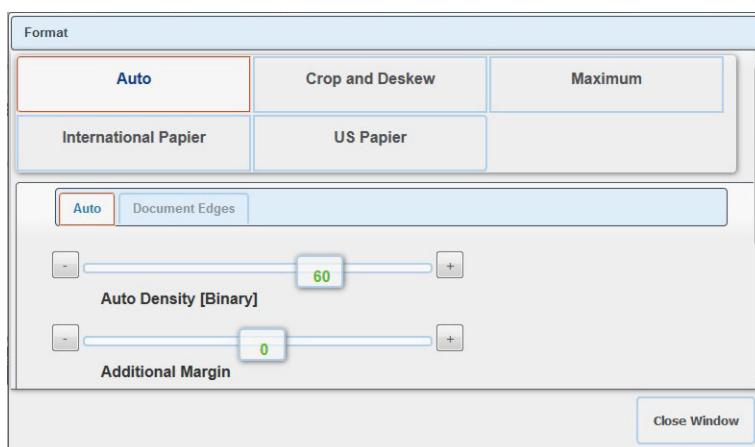
C.2.1 Size

Select here the parameters which define the resulting image size and activate special features.



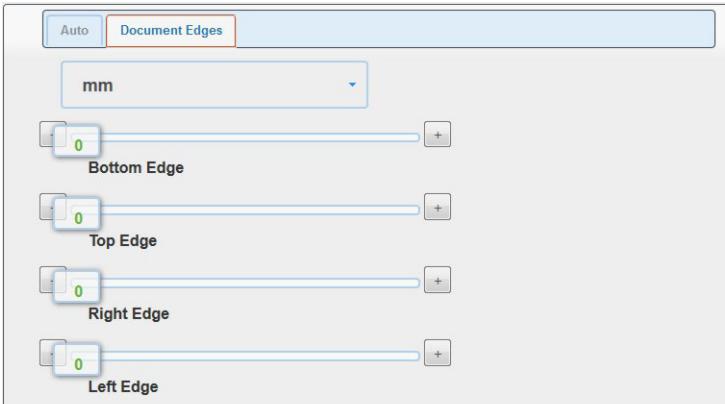
Picture 15: Menu with Size parameters

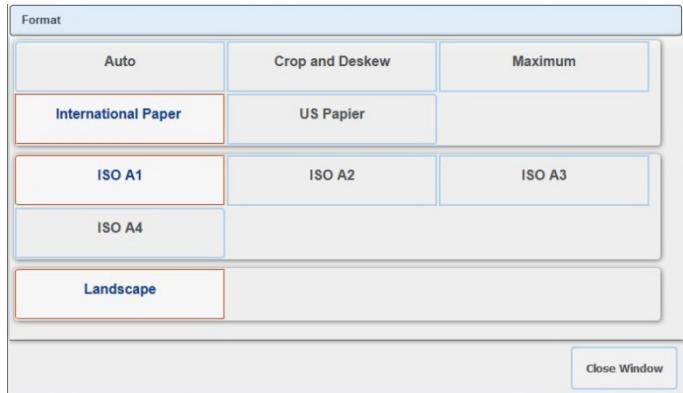
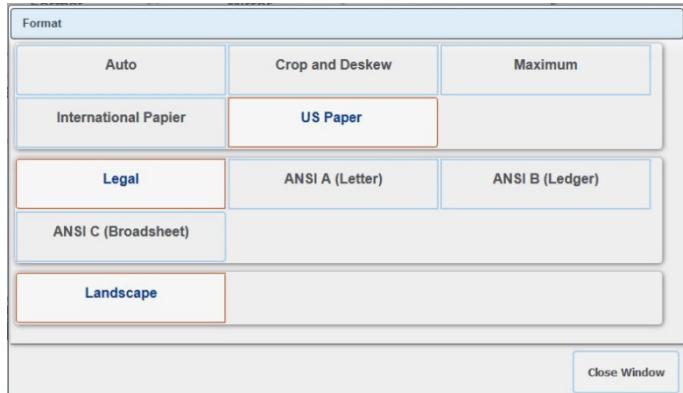
C.2.1.1 Format



Picture 16: Select document mode

Depending on the **Format** selected further parameters appear in the area below the **Format** selector buttons.

Format	Function
Auto	<p>The complete scan area will be scanned.</p> <p>The resulting image will be reduced to the document size. If the document is not exactly aligned horizontally, the resulting images will have the smallest possible black margin.</p> <p>Auto Density (Binary)</p>  <p>When scanning dark documents, the value should be reduced in small steps until the desired result is achieved.</p> <p>Note: The higher the numeric value, the more contrast must be between background and scanned document.</p> <p>Document Edges</p>  <p>Unit of measurement</p> <p>Touch the selection arrow to open the list of available parameters.</p> <p>Bottom / Top / Right /Left Edge</p> <p>Move the slider to set the additional edge which should be added to the resulting image after scanning.</p>

Format	Function
Crop and Deskew	The complete scan area will be scanned. The resulting image shows the document aligned and cropped to its real size.
Maximum	Landscape: Scans the maximum scan area in landscape orientation.
International Paper	When selecting International Paper the window will be extended and shows the available ISO (=DIN) document sizes and the Landscape button.
	 <p>All formats are positioned symmetrically to the horizontal middle of the document input.</p>
US Paper	When selecting US Paper the window will be extended and shows the available ANSI document sizes and the Landscape button.
	 <p>All formats are positioned symmetrically to the horizontal middle of the document input.</p>

C.2.1.2 Mirror



Picture 17: Mirror selector

Touch a button to select the mirror axis.

Using this setting can be helpful if scanning transparencies from the back.

C.2.1.3 Splitting Image

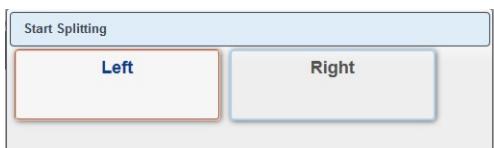


Picture 18: Splitting Image parameters

The **Splitting Image** function splits the scanned image symmetrically in two parts.

- Left** The left part of the split image will be displayed.
- Right** The right part of the split image will be displayed.
- Auto** Both parts of the split image will be displayed successively as separate images.
- Off** Disables the splitting function.

C.2.1.4 Start Splitting



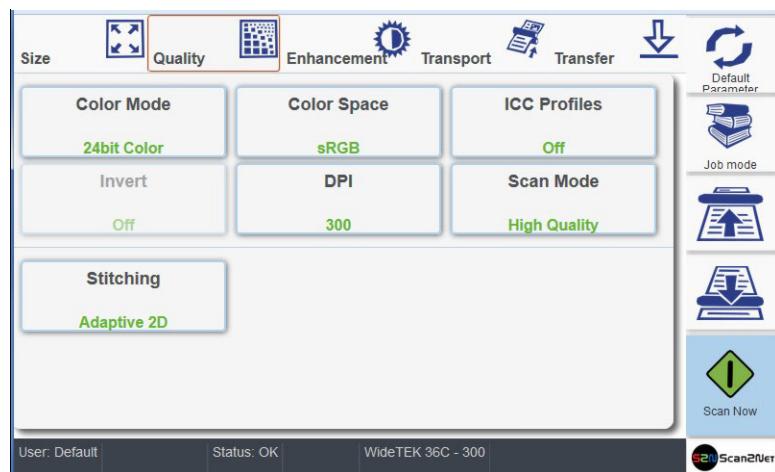
Picture 19: Defines the splitting function start page

Defines the start page if **Splitting Image** is set to **Auto**.

- Left** Sets the left part of the split image as start page.
- Right** Sets the right part of the split image as start page.

C.2.2 Quality

Select here the color parameters, set the resolution and set the scan mode.



Picture 20: Menu with Quality parameters

C.2.2.1 Color Mode



Picture 21: Available color modes

Touch the button of the desired color mode.

Depending at the selected color modes other menu items become active.

For example **Binary** and **Enhanced Halftone** activate the **Invert** button.

C.2.2.2 Color Space



Picture 22: Color Space

Available are three predefined color spaces, which can be used while scanning.

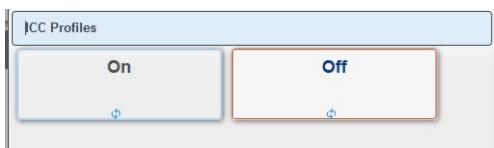
Touch the button to select the color space.

Native Color space determined by the hardware (CCD camera) of the scanner.

AdobeRGB This is an RGB color space, defined by Adobe Systems. It contains half of the colors defined for the Lab color space.

sRGB The standard RGB (sRGB) color space is a color space with a reduced amount of colors.

C.2.2.3 ICC Profiles



Picture 23: Activates ICC profile embedding

Touch **On** to activate the ICC profile for the external monitor.

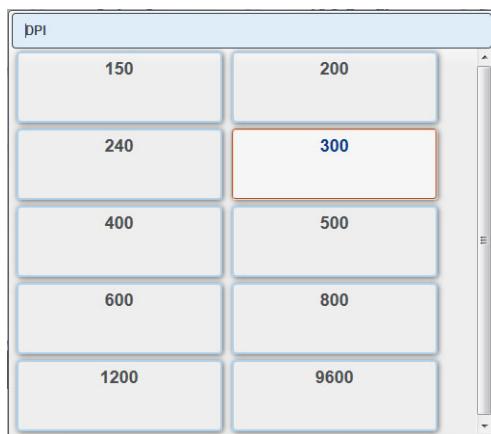
C.2.2.4 Invert



Picture 24: Invert function

This setting is only available with the color modes **Binary** and **Enhanced Halftone**.

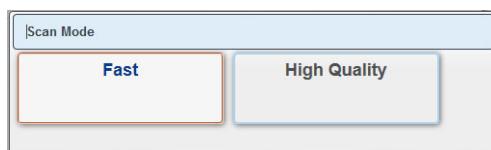
C.2.2.5 DPI



Picture 25: Resolutions available with the scanner

The content of the list can vary, depending on the hardware features of the scanner.

C.2.2.6 Scan Mode



Picture 26: Scan modes of the scanner

Fast Scans with normal speed. The scan speed depends on the selected scan resolution. That means, the higher the resolution, the lower the scan speed.

High Quality Reduces the scan speed to the half but improves the scanning quality.

C.2.2.7 Stitching

Stitching allows selecting one of two stitching methods.



Picture 27: Available stitching methods

The default setting is **Adaptive 2D**.

None: Select this setting when scanning plain documents with the paper transport wings inserted.

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

C.2.3 Enhancement

Set here the values for image enhancement.



Picture 28: Slider for Enhancement parameters

C.2.3.1 Brightness

The **Brightness** slider defines the resulting brightness in the image. Lower brightness values result in darker images, higher values result in brighter images.

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

Touch the slider and move it to the desired position to set the value.

Otherwise touch the buttons + (plus) or – (minus) to modify the value.

C.2.3.2 Contrast

The **Contrast** slider defines the contrast in the image. Lower contrast values result in “smoother” images; higher values show more details and the images become “crisper”.

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

Touch the slider and move it to the desired position to set the value.

Otherwise touch the buttons + (plus) or – (minus) to modify the value.

C.2.3.3 Image Sharpness

The **Image Sharpness** slider invokes an advanced automatic sharpening algorithm which sharpens the image before any other operation is performed.

The value “zero” disables the function. Very high values may produce artifacts depending on the type of document.

Touch the slider and move it to the desired position to set the value.

Otherwise touch the buttons + (plus) or – (minus) to modify the value.

C.2.3.4 Exposure



Picture 29: Exposures modes

Fixed switches the function off.

If **Auto** is selected, the sliders of Enhancement parameters (Picture 28) change.



Picture 30: Black / White Threshold sliders

The sliders **Brightness** and **Contrast** are not displayed.

Two sliders for **Black Threshold** and **White Threshold** are displayed instead.

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

White Threshold: Sets the threshold for **white**. All pixel values found in the image above the selected value are set to white.

C.2.3.5 Threshold



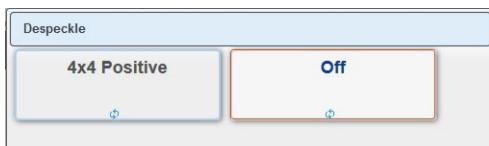
Picture 31: Threshold selector

If color mode is set to either binary or enhanced halftone, **Threshold** is selectable.

Dynamic If threshold is set to **Dynamic**, the result is better on low contrast documents.

Fixed If set to **Fixed**, the function is disabled.

C.2.3.6 Despeckle



Picture 32: Despeckle selector

If color mode is set to either binary or enhanced halftone, **Despeckle** is selectable.

When scanning in binary or enhanced halftone, speckles (small dots which are actually extra pixels visible to the scanner) may appear on the image. Speckles can be caused by dust, scratches or imperfections in the print of the source document.

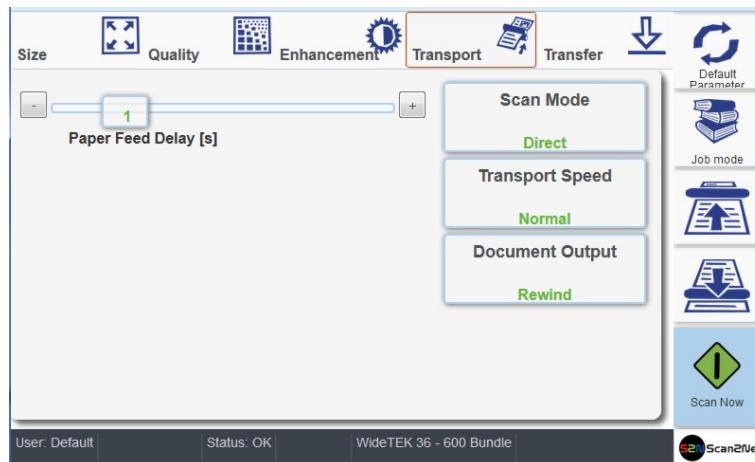
Selecting **Despeckle** removes these imperfections from the scanned image.

4x4 Positive Activates the function.

Off Disables the function.

C.2.4 Transport

The settings available here are similar as described in chapter C.1.1 to C.1.1.4.

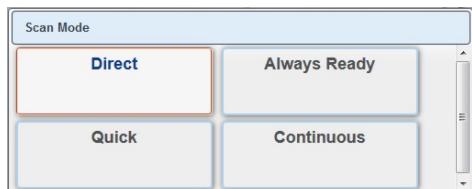


Picture 33: Transport parameters

C.2.4.1 Paper Feed Delay

Paper Feed Delay Defines the delay between inserting the document into the transport path and the transport start.

C.2.4.2 Scan Mode

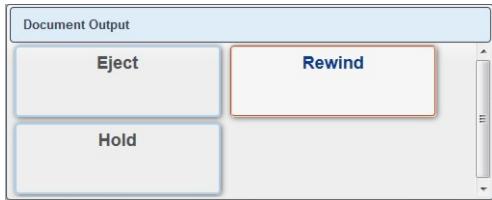


Direct: Feeds the document in the scanner until the camera recognizes the document edge; then the document returns to the start position.
(Default)

Always Ready The document transport start directly after the application sends the start command. This mode is recommended for documents with irregular document edges.

Quick: Transports the document into the scanner until the photo sensor in the transport path detects the paper edge.

C.2.4.3 Transport Speed



- Normal** The transport speed depends on the selected resolution. Valid is: The higher the resolution, the slower the transport sped.
- Slow** Reduces the transport speed to a half of the normal speed. This mode is recommended for delicate or antique documents.

C.2.4.4 Document Output

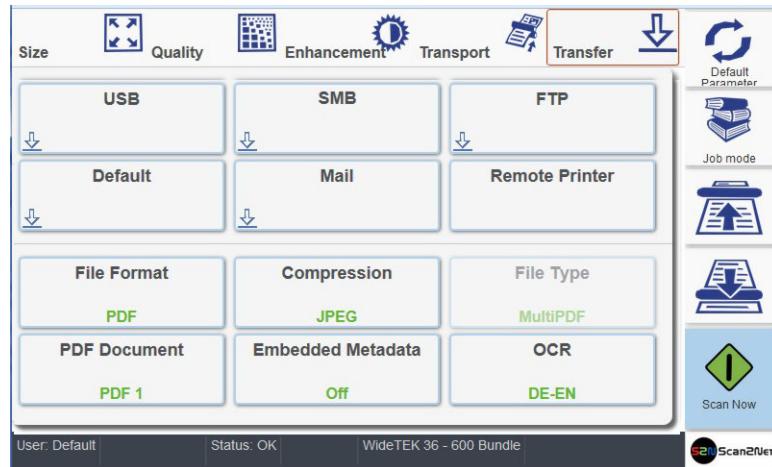


- Eject:** Transports the document out of the scanner after terminating the scan sequence.
- Rewind:** Returns the document to the front side after scanning.
- Hold:** Holds the document after terminating the scan sequence at the output side of the transport path.

C.2.5 Transfer

Select here in the upper row the targets, whereto the image should be transferred.

In the second and third row select the parameters of the file format and all parameters associated with the file format.



Picture 34: Transfer targets and specific file parameters

If the buttons have a blue arrow symbol in the lower left corner, touch this symbol to open the touchscreen with the settings of the selected transfer target.

The content depends on the selected transfer target.

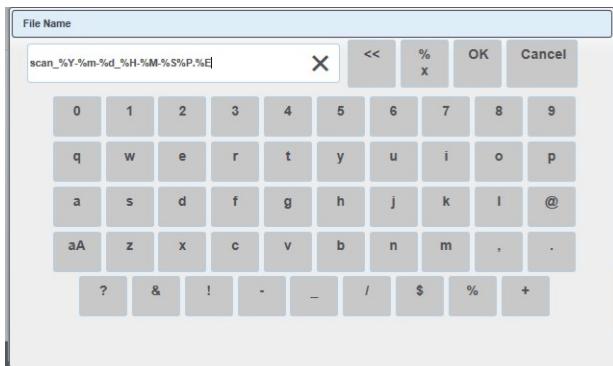
Chapter C.2.5.1 describes how an entry can be changed.

C.2.5.1 Modifying an entry of the transfer target

To change a file name, to select a subdirectory or to modify other entries for the transfer target, click the blue symbol. The touchscreen shows the current settings.

To change an entry, click in the respective line, for example “File name”.

The touchscreen changes and shows a keyboard. The cursor is positioned behind the entry to be changed.



Picture 35: Keyboard, displayed on the touchscreen

Key	Function
	Delete character.
	Confirms changes and returns to former screen.
	Cancel changes and returns to former screen.
	Shift button for upper/ lower case writing.
	Switches the keyboard and shows all variables which could be used in the name.

Use the keyboard to modify the entry.

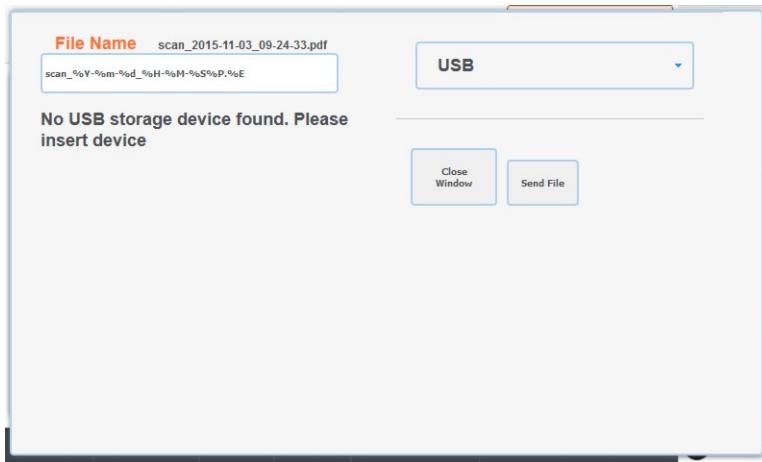
To confirm changes, touch the **OK** button.

The return to former screen without changes, touch the **Cancel** button.

C.2.5.2 USB

Transfers the scanned images to a USB storage device connected with the scanner.

If there is no USB storage device connected, you will see an error message otherwise the file name and the directory will be displayed.

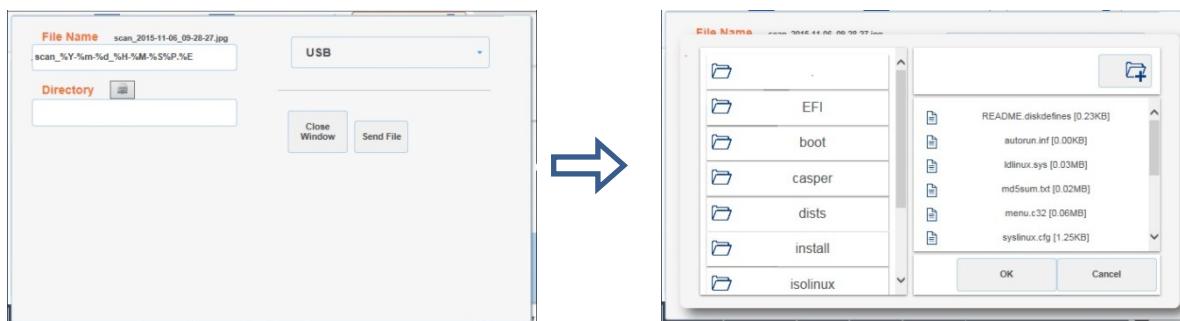


Picture 36: Error message if USB device is missing

If you want to change the file name, touch the line with the file name entry.

Modify the entry as described in chapter C.2.5.1.

If you want to save your image to a subdirectory on the USB storage device, click the icon beside **Directory**. The directories will be listed.



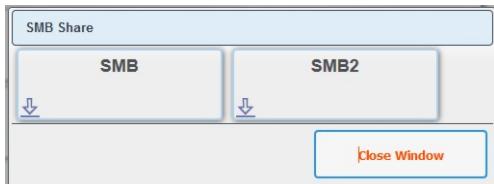
Select the directory. Touch **OK** to confirm or touch **Cancel** to return without changes.

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 14).
Send File	Touch here to send the file to the selected transfer target.

C.2.5.3 SMB

Touch this button in order to upload the scanned images directly to a previously defined network drive and directory or subdirectory or to a workstation drive and directory.

Click the **SMB** button to see the current settings.



Picture 37: SMB pre-sets

The number of available SMB presets depends on the setting defined by the administrator in the **Poweruser** setup menu.

Click at the blue arrow symbol to open the parameter list of the respective preset.

If necessary, change the entries for **SMB Path** and/or **File Name**.

Chapter C.2.5.1 describes how the entries can be modified.



Picture 38: Entries for SMB path and file name

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 14).
Send File	Touch here to send the file to the selected transfer target.

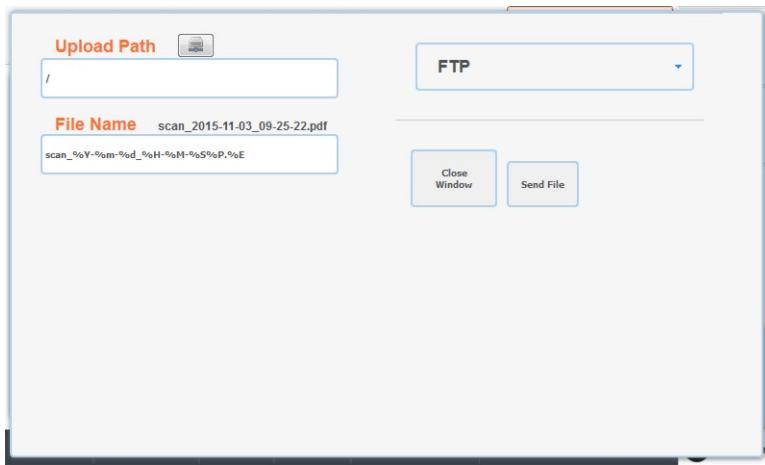
C.2.5.4 FTP

Scans directly to an FTP server.

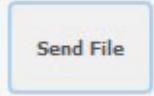
Click the **FTP** button to see the current settings.

If necessary, change the entries for **Upload Path** and/or **File Name**.

Chapter C.2.5.1 describes how the entries can be modified.



Picture 39: Entries for FTP path and file name

Key	Function
	Touch here to close the window and to return to the main screen (Picture 14).
	Touch here to send the file to the selected transfer target.

C.2.5.5 Default

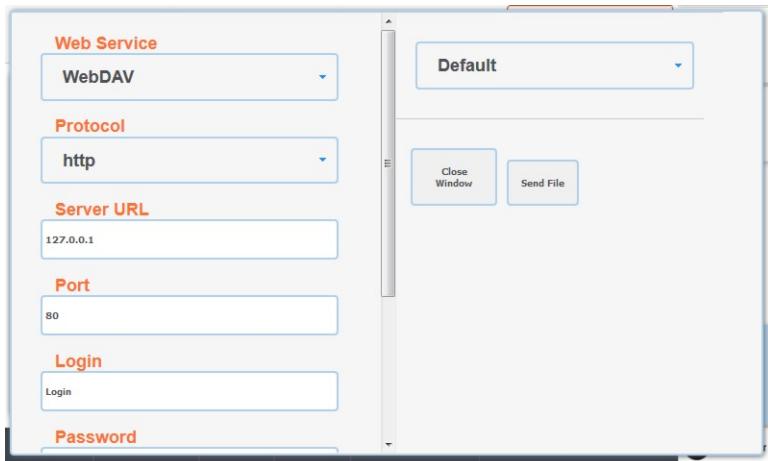
Scans directly to a defined directory in a cloud service.

Click the **Default** button to see the current settings.

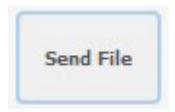
All parameters can be defined from the touchscreen.

Click on the selection arrow beside the entries of **Web Service** and **Protocol** to see the list of available settings.

All other entries can be changed as described in chapter C.2.5.1.



Picture 40: List of cloud parameters

Key	Function
	Touch here to close the window and to return to the main screen (Picture 14).
	Touch here to send the file to the selected transfer target.

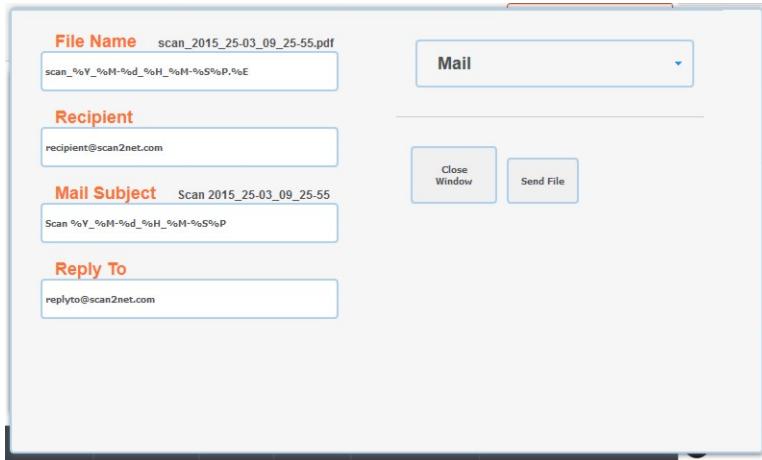
C.2.5.6 Mail

Sends scanned images via email to a defined email recipient.

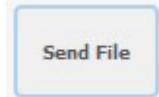
Click the **Mail** button to see the current settings.

The mail server information, the sender's name, the email address and the reply-to address can all be configured by clicking in the respective line.

Chapter C.2.5.1 describes how the entries can be modified.



Picture 41: Mail transfer settings

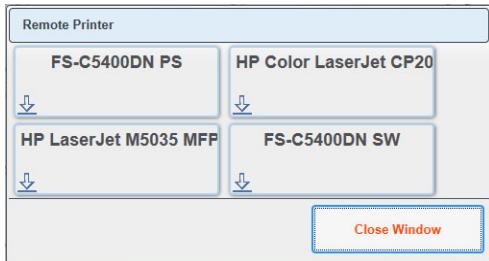
Key	Function
	Touch here to close the window and to return to the main screen (Picture 14).
	Touch here to send the file to the selected transfer target.

C.2.5.7 Remote Printer

Prints the images on a network printer to which the user has access.

Click the **Remote Printer** button to see the available pre-defined printer settings.

The number and names of the available printers depend on the administrator settings in the **Poweruser** setup.

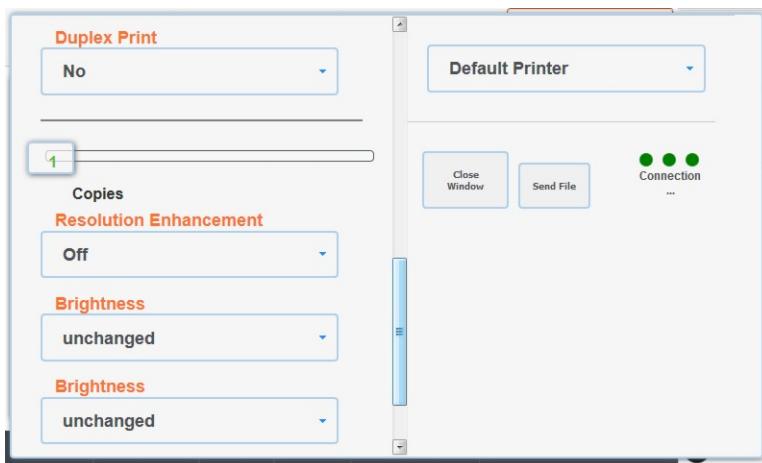


Picture 42: Available printers (example)

Click on a button to select a printer.

To list the settings of the selected printer, tap on the arrow symbol in the lower left corner of the button. This opens the parameter list.

The available parameters to be modified depend on the printer.



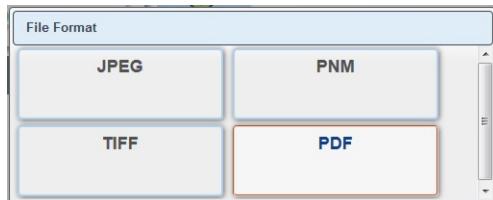
Picture 43: List of printer parameters

Click on the selection arrow (if displayed) beside the entries to see the list of available settings.

Key	Function
	Touch here to close the window and to return to the main screen (Picture 14).
	Touch here to send the file to the selected transfer target.

C.2.5.8 File Format

Allows the user to select the file format in which scanned images are saved.



Picture 44: Select file format

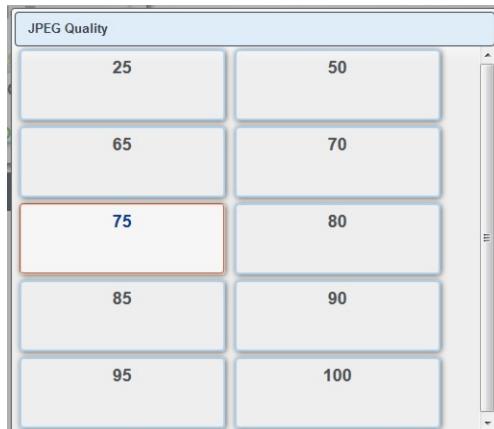
Touch the button with the desired file format.

The current file format is displayed in the bottom line of the button.

C.2.5.9 Compression

Allows the user to select the compression factor used when saving the file in the specified format. The compression factor will vary, depending on the file format selected.

If JPG is selected as file format, a list with values is displayed.



Picture 45: JPEG compression

If TIFF is selected as file format, two compression methods are available.



Picture 46: TIFF compression

C.2.5.10 File Type

Only active if the scanner is operated in **Job Mode**.

The file type can vary, depending on the file format selected.

File Format File Types

JPEG



TIFF



PNM

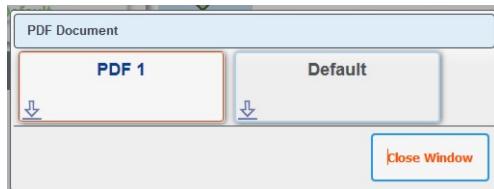


PDF



C.2.5.11 PDF Document

Defines the PDF format to be used when saving scanned images as PDF file.



Picture 47: Predefined PDF settings

Touch the button with the desired setting. A list with available PDF formats will be displayed.

Select between PDF and PDF/A format.

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 14).

To list the settings, tap on the arrow symbol in the lower left corner of the button.

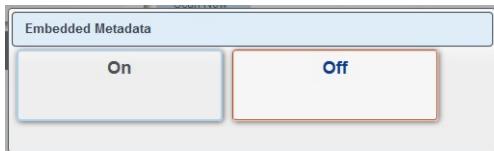
Available are PDF and PDF/A.



Picture 48: List of available PDF formats

C.2.5.12 Embedded Metadata

Activates the embedding of metadata to the scanned image.



Touch the button and select **On** embedding metadata.

Select **Off** to disable the function.

C.2.5.13 OCR

Select the OCR settings here.



The number of available OCR presets depends on the setting defined by the administrator in the **Poweruser** setup menu.

Currently available is the setting **Default**.

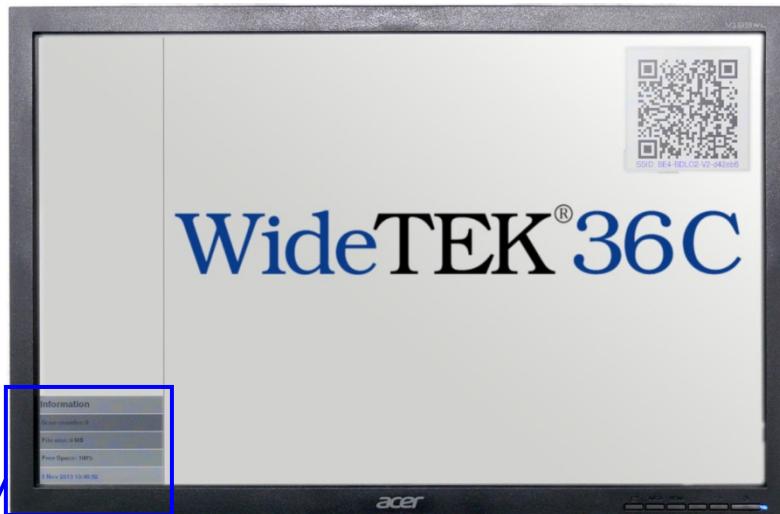
C.2.6 Job Mode in ScanWizard application

The default scan mode is **Single**.



Touch this icon in order to switch to **Job mode**

After selecting **Job mode** the external TFT monitor displays an “Information Panel” at the left margin.



Picture 49: TFT flat screen after selecting “Job mode”



The information panel contains:

Scan counter: Number of images since starting **Job mode**.

File size: Size of all scanned images since starting **Job mode**.

Free space: Available memory in percent

<Date Time>: Current date and time

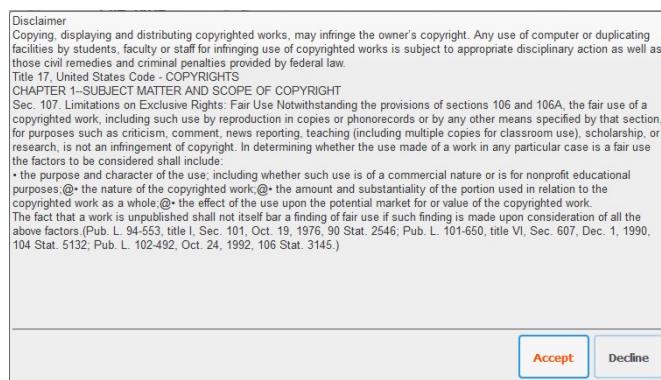
If the **Job Mode** is active, the ScanWizard start screen changes in one detail.



Picture 50: Startscreen Job Mode

After touching **Scan Now** the screen shows in a separate window a disclaimer with information about copyright and the legal situation while scanning documents.

This disclaimer must be accepted. Touch the respective button below the disclaimer text.



Picture 51: Disclaimer with copyright notes

While scanning in job mode, some icons right beside the preview section will be activated.



Deletes the selected image.



Marks where in the list an image should be inserted.



Moves upwards through the list of images.
Moves a selected image upwards in the list.



Moves downwards through the list of images.
Moves a selected image downwards in the list.



Selects an image from the list. A frame marks the image in the list of images displayed on the TFT monitor.

The image scanned at last is marked with a “pencil” symbol in the list on the external monitor.

The menu button bar (Picture 14, item 2) remain the same.

C.2.6.1 Job mode, move image



Use the upwards / downwards buttons to move the blue frame at first to the desired image.



Then touch the button. The image is marked with a red frame; the button itself and the up-/downwards buttons are marked with a red dotted frame.



Use the upwards / downwards buttons to move the selected image to its new position.



Press this button again to lock the image at the new position.

C.2.6.2 Job Mode, rescanning an image



Use the upwards / downwards buttons to move the blue frame to the image which should be rescanned.



The **Scan Now** button changes to **rescanimage**.

Touch the button to start the scan sequence.

The image will be inserted at the marked position.

C.2.6.3 Job Mode, adding an image to the list at any position



Use the upwards / downwards buttons to move the blue frame to the image where an image should be added.



Mark the image prior to the position where the image is to be inserted.



Touch this button. An empty frame will be inserted prior to the marked image.



Touch the button. The scanned image will be inserted at the desired position.

C.2.6.4 Job Mode, deleting an image



Use the upwards / downwards buttons to move the blue frame to the image which should be deleted.



Touch the button to select the image. The image is marked with a red frame; the button itself and the up-/downwards buttons are marked with a red dotted frame.



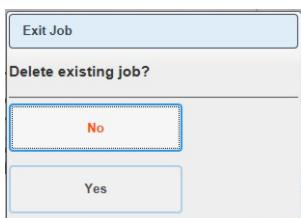
Touch the button. The image will be deleted. The images, which follows in the list, will be moved upwards.

C.2.6.5 Quit Job Mode



Touch this button in order to exit the **Job Mode** and to return to single mode scanning.

On the touchscreen a window opens.



Picture 52: Exit Job Mode request

Touch **Yes** to confirm the end of the **Job Mode**.

Otherwise touch **No** to continue the scanning in **Job Mode**.

C.2.7 Return to Select Application Screen



Touch the button to leave the ScanWizard application. This will return the touchscreen to the **Select Application** screen (Picture 11).

Chapter C.3 to chapter C.7 and the corresponding subchapters describe the available functions of the Scan2Net application.

To leave the application, touch a free section in the title line of the application. Confirm the request by touching the **STOP** button.

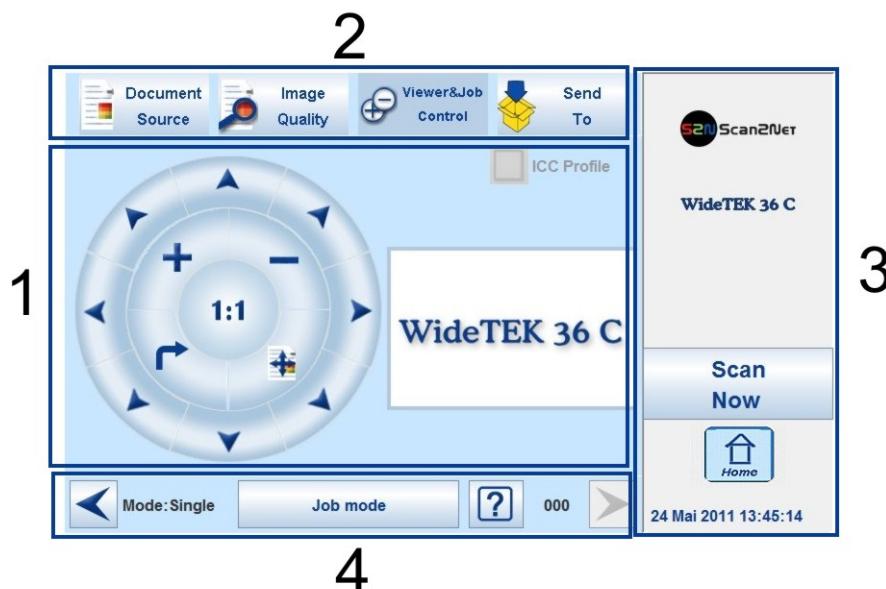
C.3 Scan2Net® Start Screen

In general: The description of the Scan2Net application refers to the **Scan2Net Expert** version.

The **Scan2Net Easy** version has reduced parameters.

Note: All screenshots are taken from a **WideTEK® 36** scanner. The content is – except of the scanner name – identical for all scanners.

After touching the **Scan2Net** button the **Viewer&Job Control** screen is displayed on the touchscreen.



Picture 53: Viewer & Job Control screen

The touchscreen is structured in four sections, which allow operators to control and select various functions of the scanner.

- 1: This section shows the main controls or parameters depending on the selected control field in section 2.
- 2: Control fields to select the menu screens directly.
- 3: This section shows the status of the scanner, e.g. “Ready to scan”, allows starting the scan sequence by touching **Scan Now**, allows returning to the start screen, and displays date and time.
- 4: The content of this section changes dependent on the selected control field in section 2. More specific information can be found in the respective chapters.

C.3.1 Touchscreen Control Fields

By touching the buttons in section 2 each menu screen can be reached directly.



The chapters C.4 to C.7 describe the functions of the menus in detail.

**Scan
Now**

Touch this button to start the scan sequence.



Touch this button to return to the start screen from every other menu.



If available, this two arrow buttons switch to the next or to the previous menu screen.

< Back

Touch this button to return to the main menu.

default

Touch this button to set all parameters to default values.



Touching this button opens an additional window. The additional window contains short information about the available functions.

C.3.2 Return to Select Application Screen

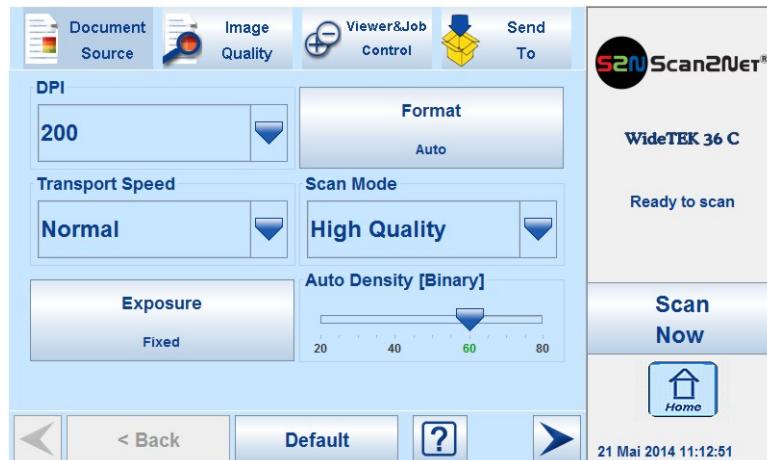


Touch the button to leave the Scan2Net application. This will return the touchscreen to the **Select Application** screen (Picture 11).

C.4 Touchscreen – Document Source

The number of buttons and controllers in each screen can vary depending on the selected setup. The setup can be changed by the administrator in the Poweruser menu.

The **Document Source** screen allows selecting from a wide range of scan parameters.



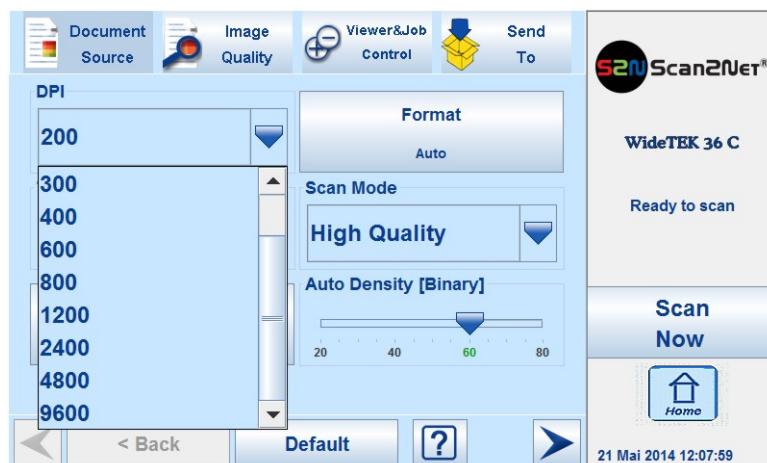
Picture 54: Document Source screen

If the content of a screen is too large to be displayed in the touchscreen completely, a scrollbar is displayed at the right side. Touch the scrollbar and move it to see all menu items.

The content of some menus which open after touching can vary.

C.4.1 DPI

The **Resolution** setting allows selecting a resolution from a list of resolution values supported by the scanner.

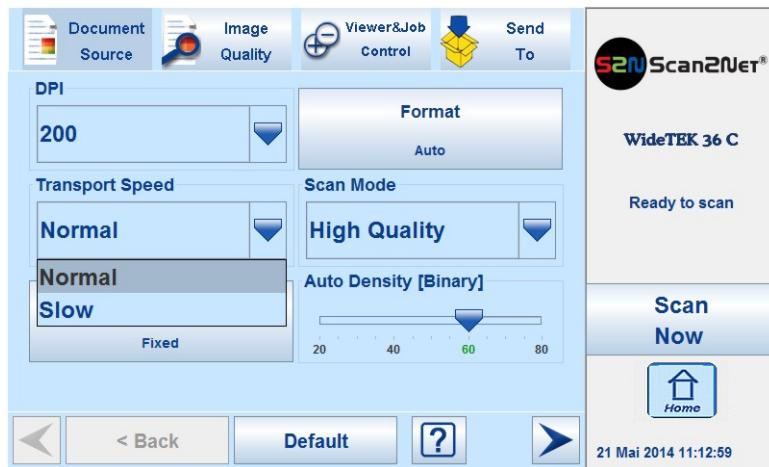


Picture 55: List of Resolutions

The list can be opened by touching the blue arrow symbol beside the currently selected value. Select a new resolution by touching the preferred value.

C.4.2 Transport Speed

The **Transport Speed** selector allows the user to select from two speed settings.



Picture 56: Available Scan Modes

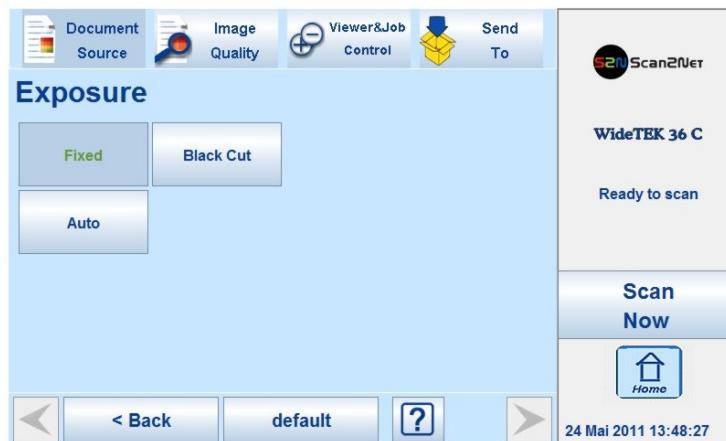
This setting determines the transport speed when feeding a document into the scanner.

- Normal** Transports the document with default speed; recommended for most documents.
- Slow** Transports the document with reduced speed; recommended for fragile documents, e.g. old paper or very delicate material.

C.4.3 Exposure

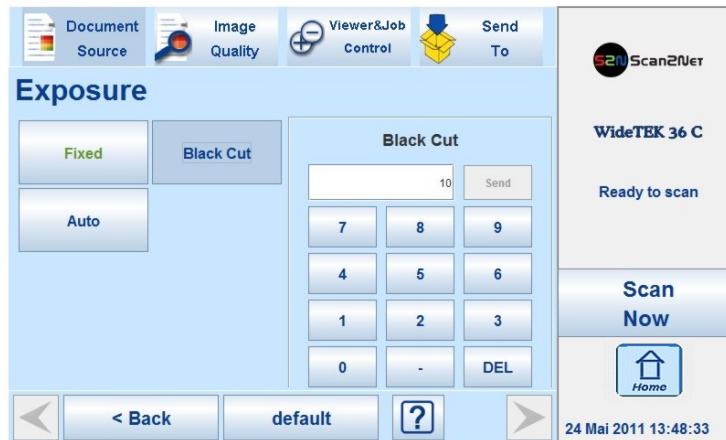
The **Exposure** screen allows selecting the functions **Black Cut** and **Auto**.

Fixed switches the function off.



Picture 57: Exposure Modes

When **Black Cut** or **Auto** is selected a numeric key pad opens.



Picture 58: Numeric key pad to set threshold value

Black Cut

0 (zero) to 100

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

Result: The image contrast is improved.

Auto

0 (zero) to 100

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

This function analyzes the image and detects the brightest and the darkest area. The detected brightness range is expanded to the maximum range of the scanner. Otherwise all values below the threshold are defined as "black".

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

To set a new value, touch in the line of the displayed value and erase the value with the **DEL** button.

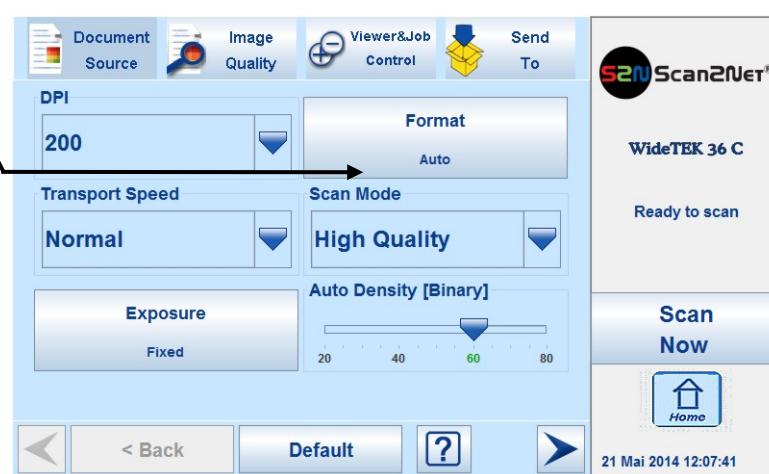
Enter the new value with the key pad and touch **Send** to send the new value.

C.4.4 Format

The **Format** button allows selecting the scan area size.

Depending on the **Document Mode** selected, the available formats will vary.

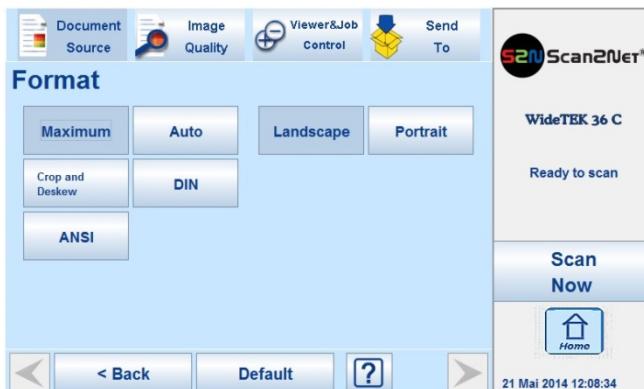
The bottom line of the button **Format** shows the current format setting.



Picture 59: Selector for Format settings

The following subchapters describe the available combinations of document mode and format.

C.4.4.1 Maximum



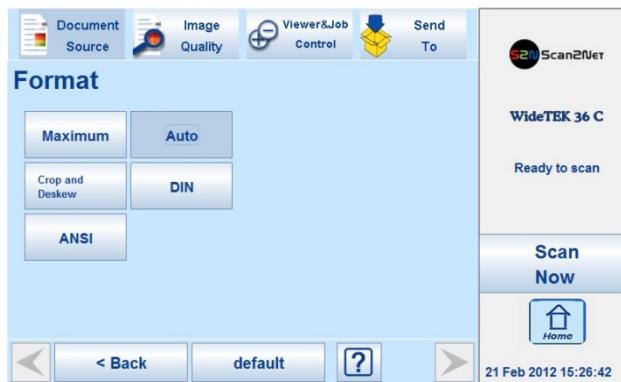
Picture 60: Format mode Maximum

Landscape: Scans the maximum scan area in landscape orientation.

Portrait: Scans the maximum scan area in portrait orientation.

C.4.4.2 Auto

The complete scan area will be scanned.



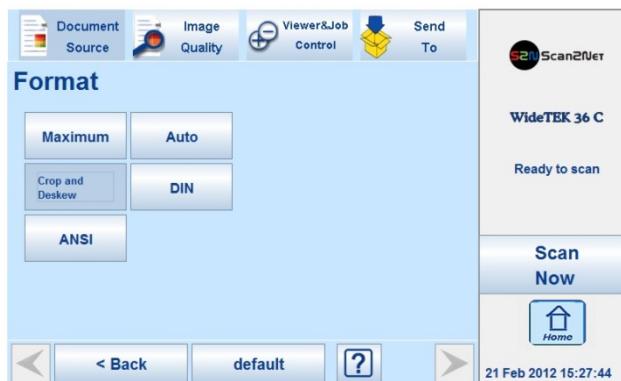
Picture 61: Format mode Auto

The resulting image will be reduced to the document size. If the document is not exactly aligned horizontally, the resulting images will have the smallest possible black margin.

The black margin depends on the size of rectangle which covers the complete document.

C.4.4.3 Crop and Deskew

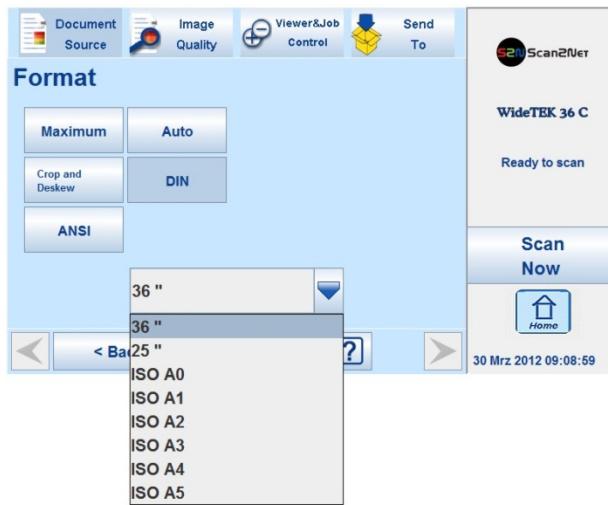
The complete scan area will be scanned.



Picture 62: Format mode Crop and Deskew

The resulting image shows the document aligned and cropped to its real size.

C.4.4.4 DIN



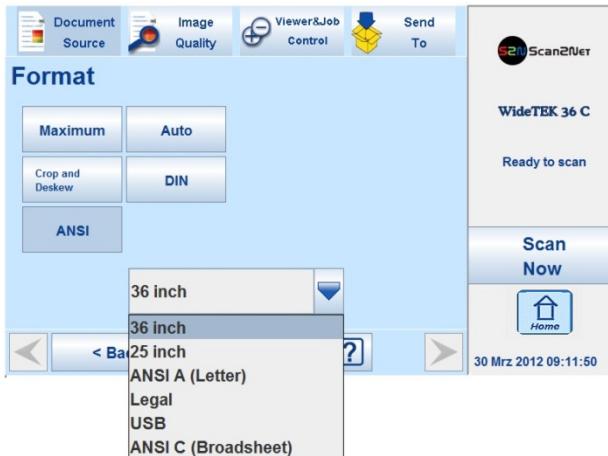
Picture 63: Format mode DIN

When selecting DIN, an additional small window opens.

It shows the available DIN (=ISO) document sizes as well as 25 inch and 36 inch width as scan area dimension.

All formats are positioned symmetrically to the horizontal middle of the document input.

C.4.4.5 ANSI



Picture 64: Format mode ANSI

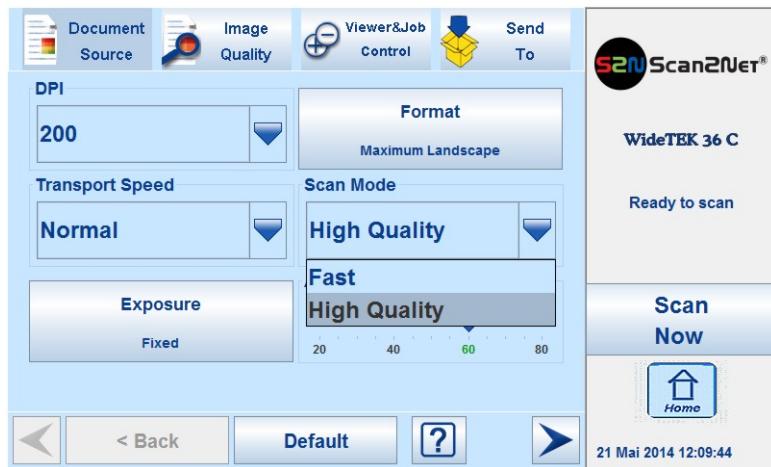
When selecting ANSI, an additional small window opens.

It shows the available ANSI document sizes as scan area dimension.

All formats are positioned symmetrically to the horizontal middle of the document input.

C.4.5 Scan Mode

The **Scan Mode** selector allows the user to select between two scan quality settings.



Picture 65: Scan Mode selector

In general, the scan resolution has always an impact at the scan speed.

The higher the resolution, the lower the resulting scan speeds.

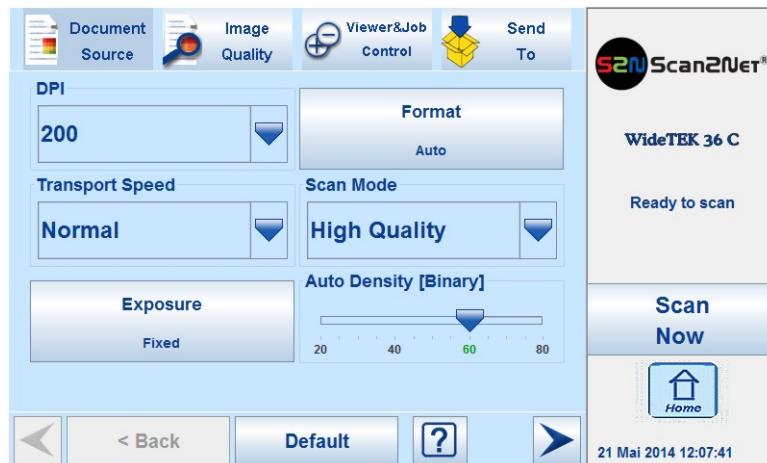
Fast Scans with normal scan speed, depending from the selected resolution.

High Quality Reduces the scan speed to the half.

C.4.6 Auto Density

The **Auto Density** controller is used to set the scanner's sensitivity for the automatic format detection.

Default value: 60



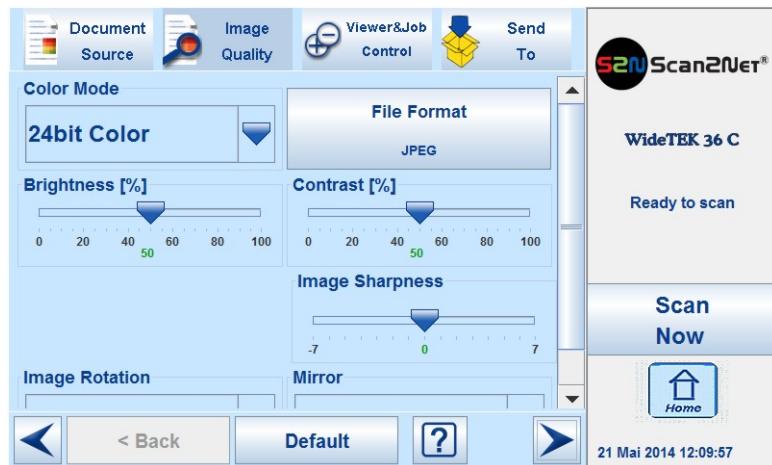
Picture 66: Auto Density controller

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

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

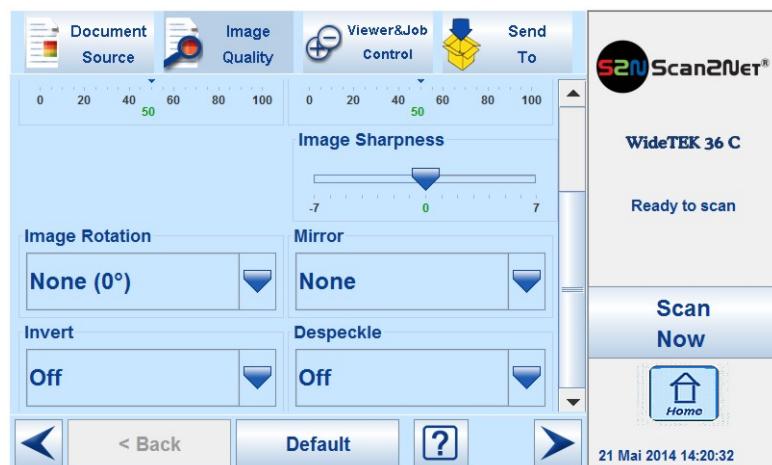
C.5 Touchscreen – Image Quality

The **Image Quality** screen allows setting a wide range of image quality parameters.



Picture 67: Image Quality, screen 1

In color mode **Binary**, the menu will be extended by two more menu items.



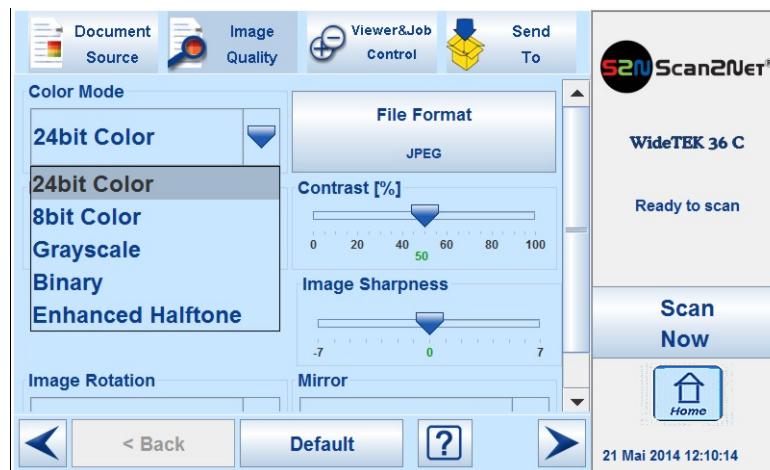
Picture 68: Image Quality 2

The additional menu items are **Invert** and **Despeckle**.

See chapter C.5.8 and C.5.9

C.5.1 Color Mode

By touching the selection arrow of the **Color Mode** section the list of available color modes opens.



Picture 69: List of Color Modes

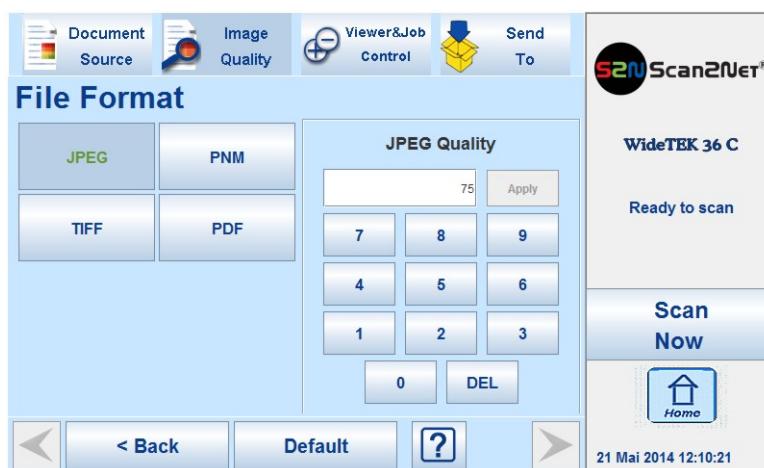
Touch the title of the desired color mode to select the mode. The list closes subsequently.

Picture 69 shows the available color modes.

C.5.2 File Format

Press the **File Format** button to select a file format for the images.

C.5.2.1 JPEG



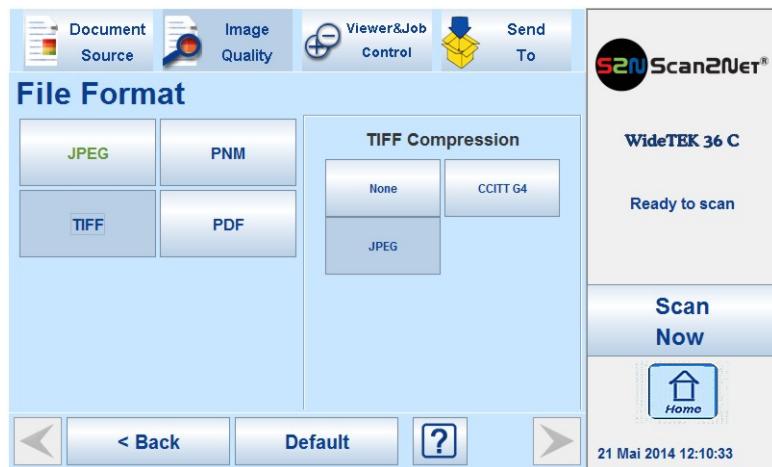
Picture 70: Submenu File Format “jpeg”

Depending on the file format selected, some additional parameters will be displayed.

With the **JPEG** file format, a value for the image quality can be entered by the numeric key pad.

This value determines the compromise between quality and compression rate. A higher quality factor produces larger files. The default setting of 75 is a good compromise for most documents.

C.5.2.2 TIFF



Picture 71: Submenu File Format TIFF

With the **TIFF** file format, the compression method of the file can be selected with the **TIFF Compression** buttons.

- | | |
|-----------------|--|
| CCITT G4 | Recommended with color mode "Binary". |
| JPEG | Recommended for all other color modes. |
| None | Disables the data compression. |

C.5.2.3 PNM

With the **PNM** file format, no additional parameters are available.

C.5.2.4 PDF

With the **PDF** file format, the same compression methods are available as with the **TIFF** format (see Picture 71).

 < Back

Press this button to return from a submenu to the main menu.

C.5.3 Brightness



Picture 72: Brightness slider

The **Brightness** slider defines the resulting brightness in the image. Lower brightness values result in darker images, higher values result in brighter images.

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

Move the slider indicator to the desired position to set the value.

C.5.4 Contrast



Picture 73: Contrast slider

The **Contrast** slider defines the contrast in the image. Lower contrast values result in “smoother” images, higher values show more details and the images become “crisper”.

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

Move the slider indicator to the desired position to set the value.

C.5.5 Image Sharpness



Picture 74: Image Sharpness

The **Image Sharpness** slider invokes an advanced automatic sharpening algorithm which sharpens the image before any other operation is performed.

The value “zero” disables the function. Very high values may produce artifacts depending on the type of document.

Move the slider indicator to the desired position to set the value.

C.5.6 Image Rotation



Picture 75: Image Rotation

The value selected from the list defines the rotation of the image in a clockwise direction. The image will be rotated directly after scanning and before display

C.5.7 Mirror

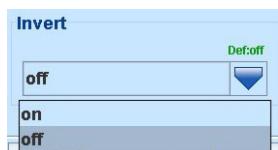


Picture 76: Mirror

This control mirrors the image along the selected mirror axis.

Using this setting can be helpful if scanning transparencies from the back.

C.5.8 Invert

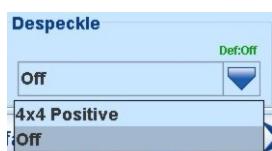


Picture 77: Invert

This control is only available with the color modes **Binary** and **Enhanced Halftone**.

If set to **on**, the color of the resulting image will be inverted.

C.5.9 Despeckle



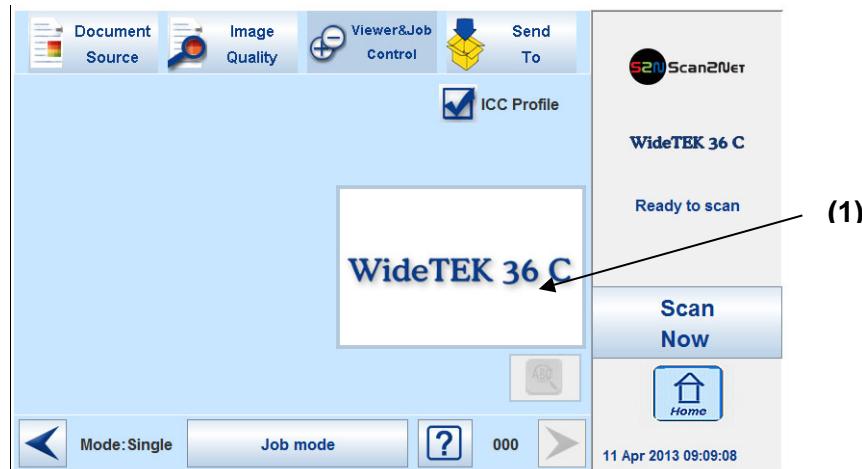
Picture 78: Despeckle

This control is only available with the color modes **Binary** and **Enhanced Halftone**.

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

C.6 Touchscreen – Viewer&Job Control

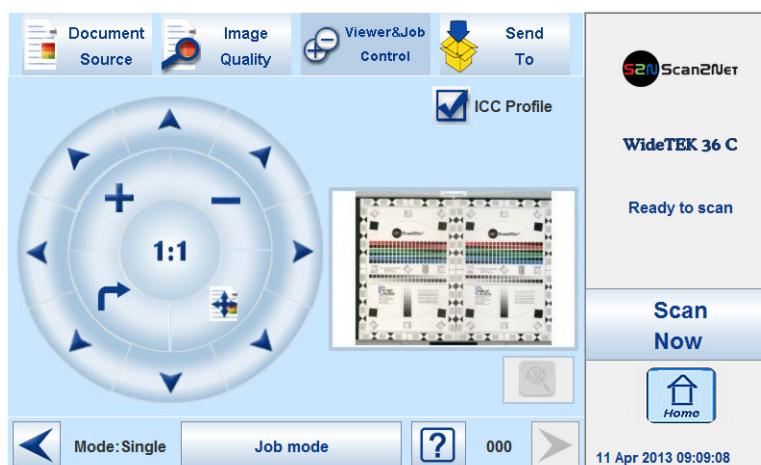
The **Viewer Control** screen allows the operator to control and modify the image on the TFT flat screen.



Picture 79: Viewer & Job Control screen

The preview section (1) represents the TFT flat screen.

The scanned image is displayed on the TFT flat screen and with reduced quality in the preview section right beside the controller elements.

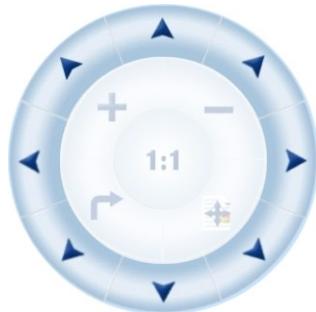


Picture 80: Scanned image in preview area



The **ICC Profile** checkbox is displayed when the resolution for the scan is 300 dpi or higher or when the **High Quality** scan mode is active.

The controller is structured in three round elements (circles).



The outer circle contains the keys to move the zoomed area across the image.

The middle circle contains the keys to



zoom in



zoom out



rotate the image in clockwise direction in steps of 90 degrees



scale the image to the real size of the source document. A centered cutout of the image is displayed on the TFT flat screen.



The inner circle symbol allows selecting between two settings. It shows the selectable setting, not the selected setting.

Touching this symbol displays the image with its genuine dimensions (100%), depending on the resolution selected for scanning.



Touching this symbol displays the complete image on the TFT flat screen. The image will be scaled to a size that matches the screen size.

Table 1: Controller circles and their functions

C.6.1 Zonal OCR

The scanner offers a zonal OCR function. This function can be activated by the button positioned right below the preview section.

Zonal OCR means, that only the marked area will be processed by the OCR function. Text and line feed will be found only. A layout analysis will not be executed.

Prior using the zonal OCR it is required to set the scan parameters as follows:

Format: Crop and deskew

Resolution: Between 300 dpi and 600 dpi.

Note: With resolution higher than 600 dpi the OCR button will not be activated.

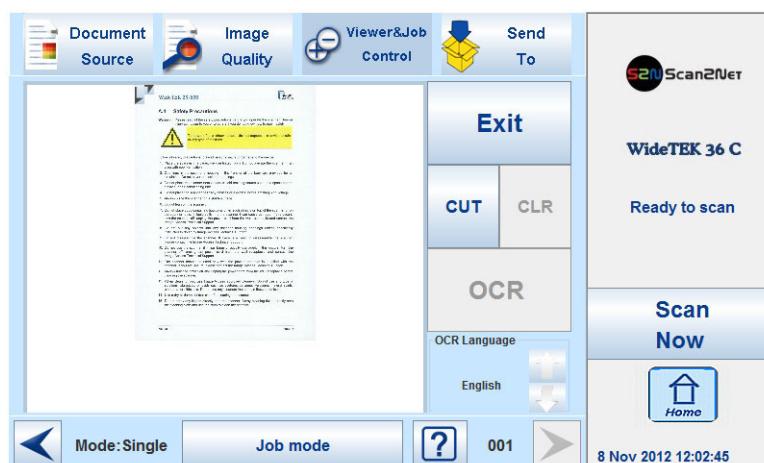
File format: PDF

Scan the document. The preview section of the touchscreen shows the image with reduced resolution. After scanning, the OCR button below the preview section is active.



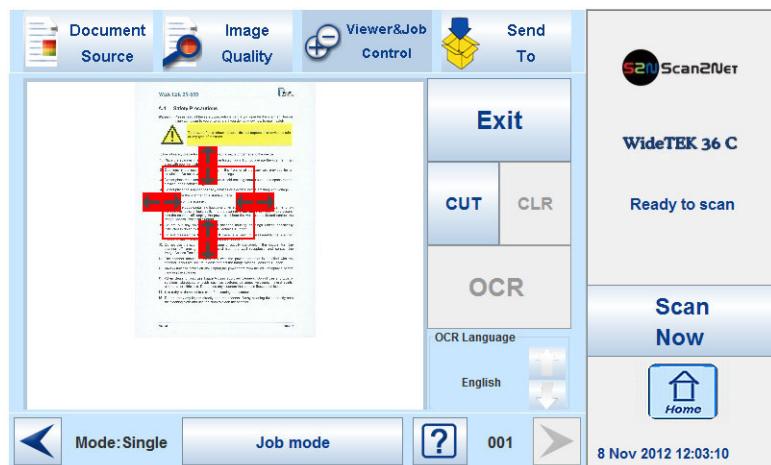
Picture 81: OCR button activated

Press the OCR button. The touchscreen change and shows the image and the control buttons for the OCR function.



Picture 82: OCR touchscreen

Touch the image at an arbitrary position. A red rectangle will be displayed.



Picture 83: Rectangle defines the area for OCR function

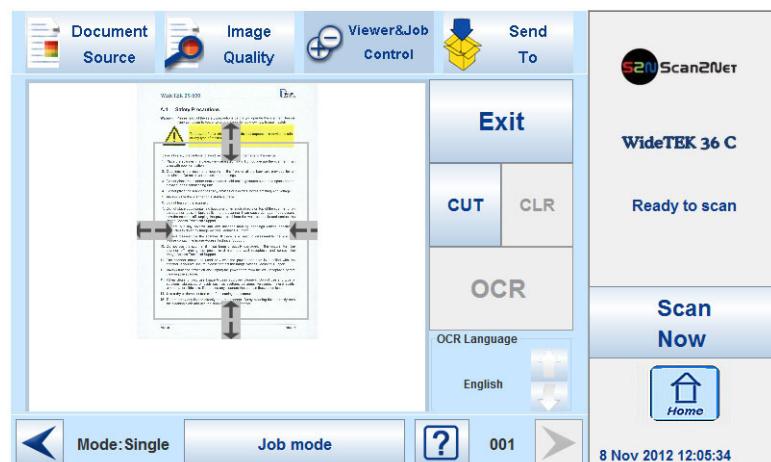
- Exit:** Press **Exit** to return to the former screen.
- CUT:** Press the **CUT** button. The next screen will display the defined area more detailed.
- CLR:** Press **CLR** to delete the defined area.
- OCR:** Press **OCR** to start the OCR process.
- OCR Language:** Press the Up/Down arrows to select a language which is used for the OCR process.

At first, only **CUT** is active.

Touch the arrows at the sides of the rectangle to define the dimension and the position of the area where the OCR function should be executed.

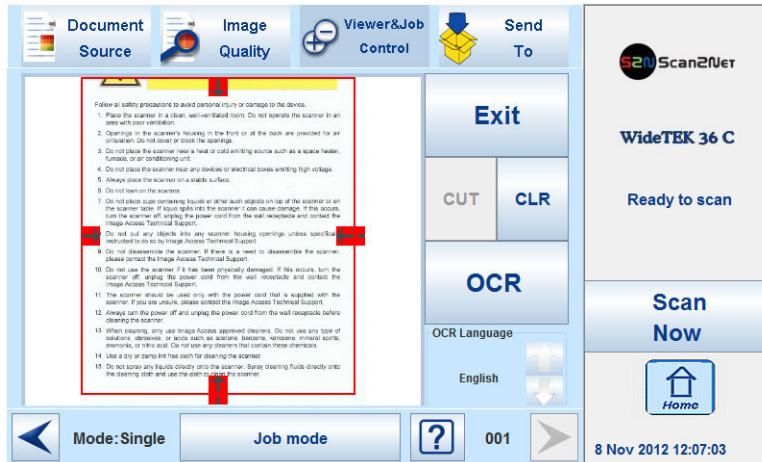
This is the first step and can be understood as a “pre”-selection.

Whenever the dimensions of the rectangle have been modified, it changes the color from “Red” to “Gray”.



Picture 84: Pre-selection area selected

Press **CUT** to separate the previously defined area from the complete image and to display it in detail.



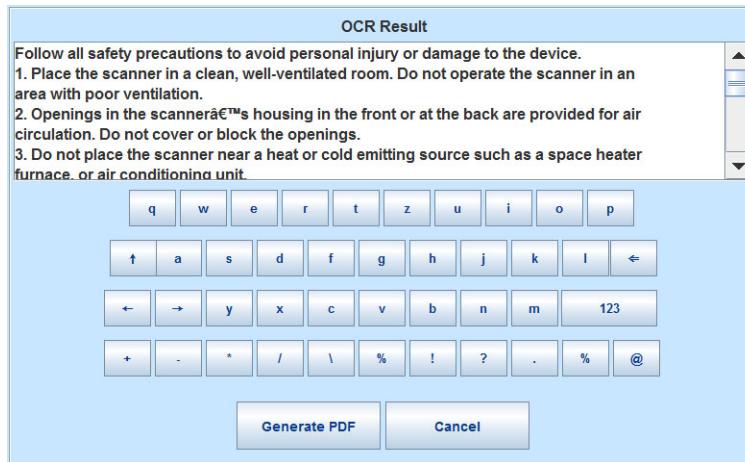
Picture 85: Selected area magnified

The next screen shows the selected area magnified and allows again defining an area for the OCR process.

Press **CLR** to return to the former screen and to repeat the definition of the OCR area.

Press **OCR** to start the OCR process.

The result of the OCR process will be displayed in the touchscreen.



Picture 86: OCR result

The OCR result shows only the plain text with line feeds, a layout analysis will not be offered.

The text can be edited by the user with the keyboard displayed at the touchscreen.

Generate PDF: Generates the PDF file of the text, detected by the OCR analysis.

The touchscreen will return to the **Viewer&Job control screen** (Picture 79).

Press the **Send to** button to save the image together with the text as PDF file.

For more details see chapter C.7 and its subchapters.

C.6.2 Job Mode

The bottom line of the **Viewer & Job Control** screen is different to the bottom line of the other screens.



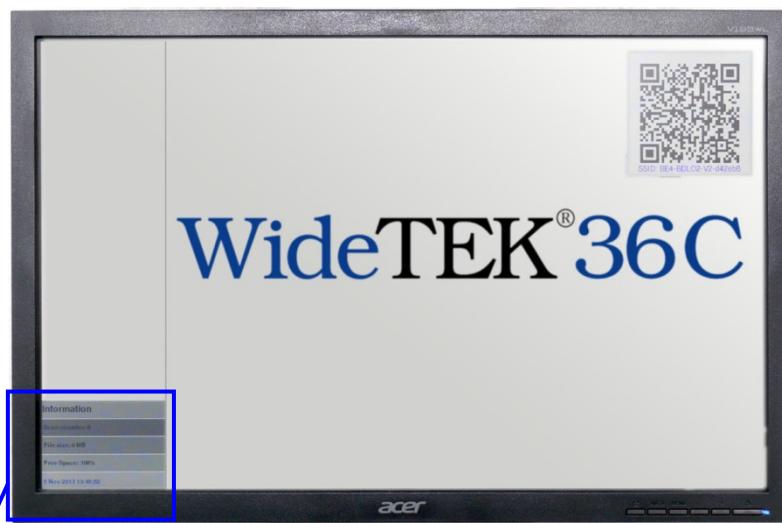
Picture 87: Bottom line with status

The bottom line shows

- the current scan mode status,
- the button to switch the job mode between **Single** and **Job mode**
- a scan counter between the question mark symbol and the “arrow right” symbol.

The default scan mode is **Single**. The button shows the selectable scan mode.

After selecting **Job mode** the TFT flat screen displays an “Information Panel” at the left margin.



Picture 88: TFT flat screen after selecting “Job mode”



The information panel contains:

Scan counter: Number of images since starting **Job mode**.

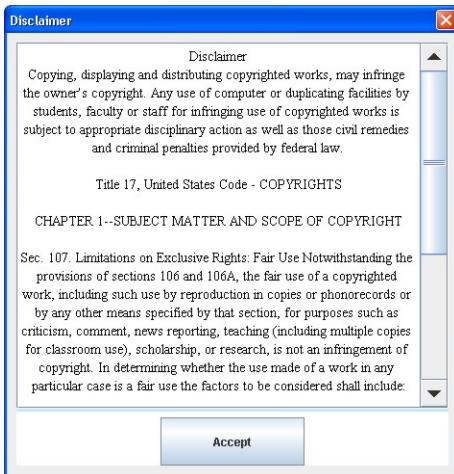
File size: Size of all scanned images since starting **Job mode**.

Free space: Available memory in percent

<Date Time>: Current date and time

When **Job mode** is selected, the contents of the touchscreen change.

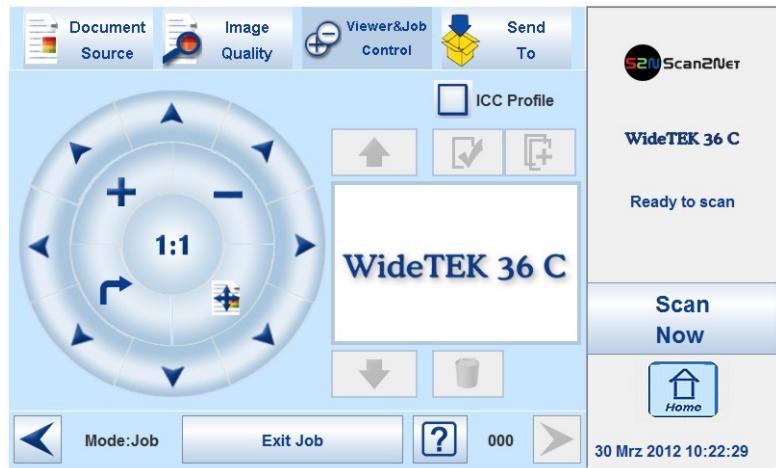
At first a disclaimer opens, which has to be accepted.



Picture 89: Disclaimer when staring the Job mode

After accepting the disclaimer, the **Viewer&Job Control** screen opens.

It contains some additional control buttons above and below the preview section.



Picture 90: Job mode start screen

C.6.2.1 Navigating through the list of images

The control buttons allow navigation through the list of scanned images and image handling while working in **Job mode**.

The currently scanned image is always displayed in the preview section of the touchscreen and will be added as last image to the list displayed at the TFT flat screen.

The control buttons allow



moving upwards and/or downwards through the list of images to mark an image or

moving a selected image upwards and/or downwards to another position,



selecting an image from the list,



adding an image at the selected position,



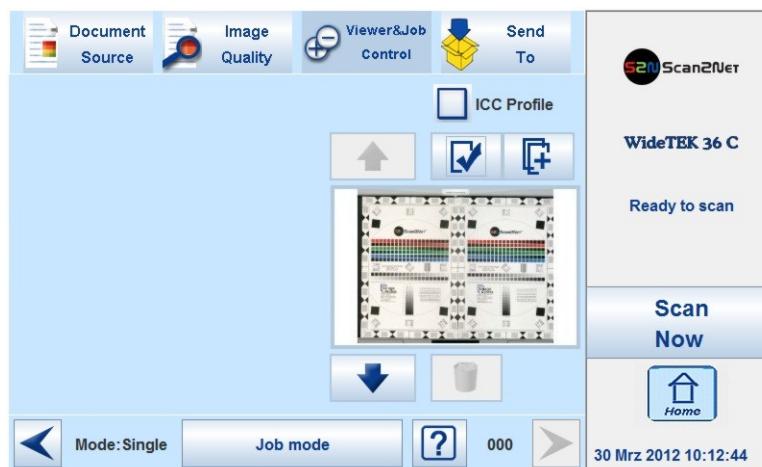
deleting a selected image.

After an image has been selected from the list, it is marked in the list with a red frame.

The control buttons for available action will be activated, i.e. they will be displayed in full color.

The image which was scanned last is marked with a “pencil” symbol in the list. This symbol signalizes that the image can be modified with the functions in section **Image Quality**.

The controller circles will be blanked out if another image than the last one scanned is selected.



Picture 91: Controller circles blanked out

After selecting an image, the

Scan Now

button changes to

Rescan

C.6.2.2 Moving an image to another position



Use the upwards / downwards buttons to mark the image to be moved.



Press this button to select the image. The image now can be moved with the upwards / downwards buttons to the new position.



Press this button again to place the image at the new position.

C.6.2.3 Adding an image at an any position to the list

Use the upwards / downwards buttons to mark the image to be moved.



This control button inserts an empty frame in the list before the selected image.



Press the **Rescan** button to start the scan sequence and to add a new image to the list at the selected position.

C.6.2.4 Deleting an image from the list

Use the upwards / downwards buttons to mark the image to be deleted.



Use this button to select the image to be deleted.



Press this button to delete the selected image.

C.6.2.5 Rescan an image

Use the upwards / downwards buttons to mark the image to be rescanned.



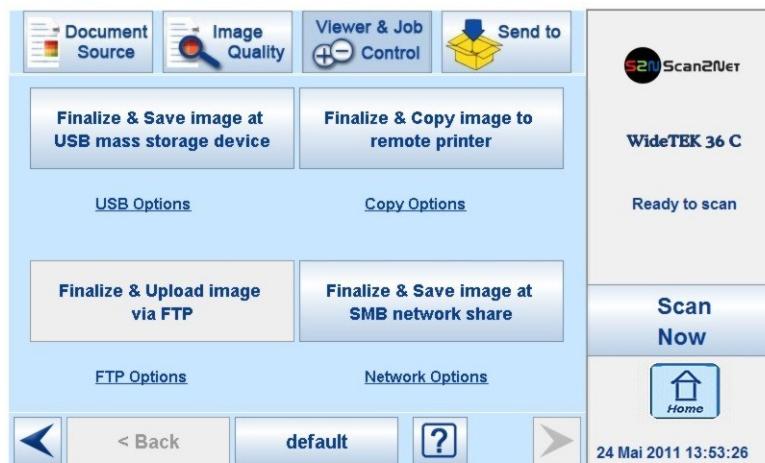
Use this button to select the image.



Press this button to rescan the image. The image will be inserted at the selected position.

C.6.2.6 Finalizing the Job mode

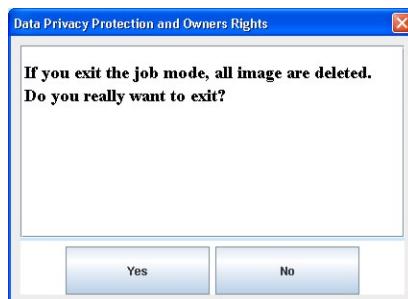
Before finalizing the **Job mode** the scanned images can be transferred to different destinations.



Picture 92: Destination to finalize Job mode

The destinations are identical to the destinations described in chapter C.7 and its subchapters.

Before the **Job mode** will be finalized, a message is displayed at the touchscreen.



Confirm the message to finalize the **Job mode** or select **No** to return to the menu.

C.6.2.6.1 Job mode time out

After two minutes of inactivity the **Job mode** is finalized automatically.

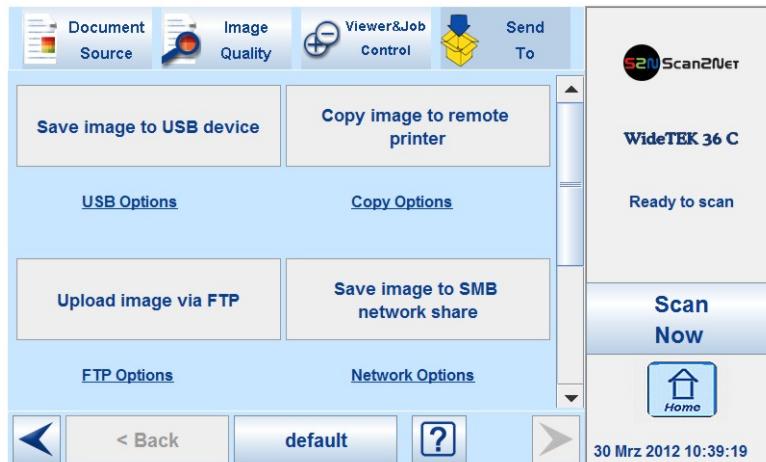
A message box pops up and a warning sound is audible.



Picture 93: Information when time out ends

C.7 Touchscreen – Send To

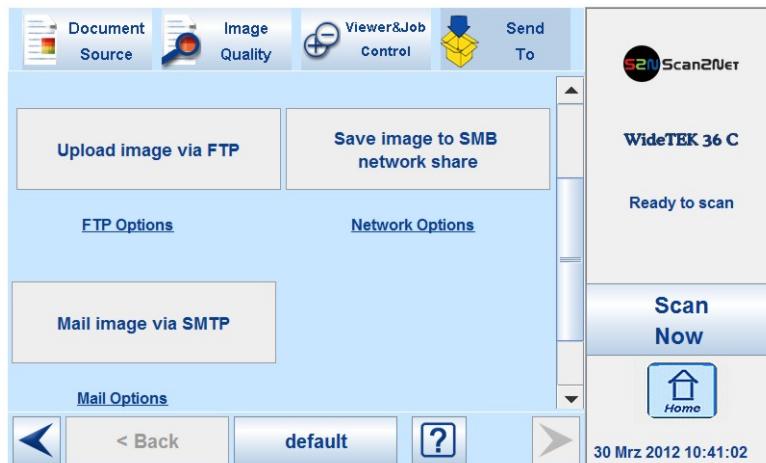
This menu provides five output options in order to store the scanned images.



Picture 94: "Send To" screen #1

Due to the dimension of the touchscreen, not all output options can be displayed at the same time. By using the scrollbar at the right side, the content of this menu can be moved.

Move the scrollbar down to display the fifth output option on the touchscreen.



Picture 95: "Send To" screen #2

When pressing the link below the respective button, the touchscreen content changes and displays the option screen.

The chapters C.7.2 to C.7.6 describe the options to be changed or set from the touchscreen.

C.7.1 Changing a file name or other entries

In some of the option menus the file name can be changed.

To change the file name, touch the respective line.

The screen changes to an alphanumeric keyboard.



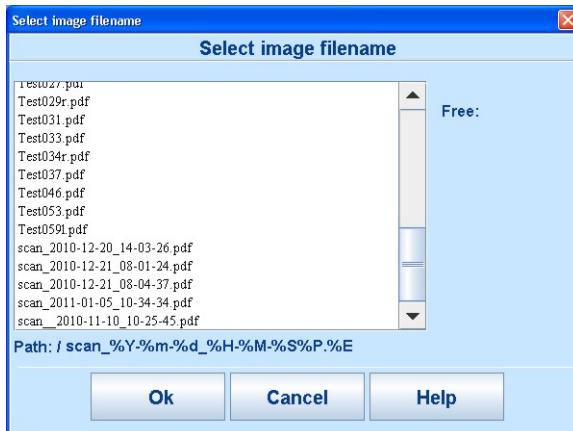
Picture 96: Alphanumeric keyboard

- 1: Use the arrow keys to position the cursor in the line.
 - 2: Use this key to delete characters.
 - 3: Use this button to switch between the keyboard layouts.
- Ok:** Touch this button to confirm the new entries and to return to the former screen.
Cancel: Touch this button to discard the new entries and to return to the former screen.

C.7.2 USB Options

Two USB connectors are available at the front of the scanner to connect suitable USB data carriers, for example USB sticks.

Touching **USB Options** displays the directory of a connected USB data carrier.



Picture 97: Directory of connected USB data carrier

While the directory of the USB data carrier is displayed, the LED indicator of the respective connector is continuously illuminated.

Touch **Ok** or **Cancel** to stop displaying the directory of the USB stick.

When data is transferred between the USB data carrier and the scanner the LED indicator blinks.

Note: When the blue indicator LED stops blinking, data transfer may still be in progress. Before unplugging the USB media, wait a few seconds to avoid loss of data.

C.7.2.1 List of suitable USB storage media

The criteria in the following list have been defined as a guide line for the storage media that can be connected to the USB connectors.

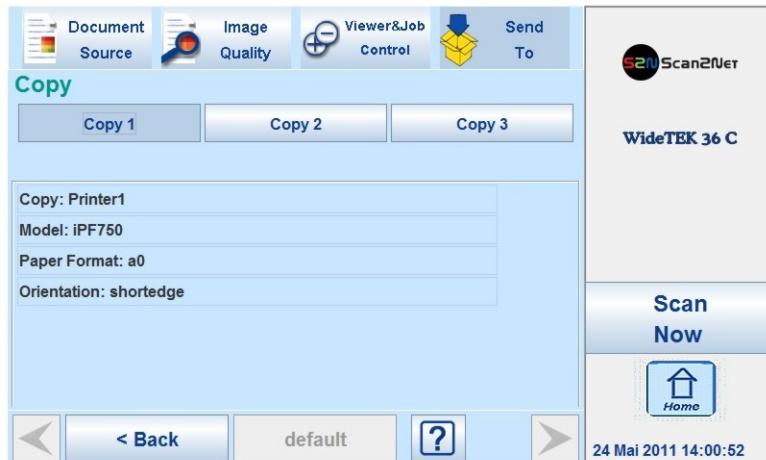
- USB memory sticks,
- USB hard disks,
- USB hard disks without partition, with one or with multiple partitions,
formatted with the file systems UDF, FAT, FAT16, VFAT, FAT32, NTFS, EXT2, EXT3 or ReiserFS

The file system EXT4, BTRFS, UFS, ZFS or exFAT currently will not be supported.

C.7.3 Copy Options

Touch **Copy Options** to switch to the screen with the preset copy option configurations.

Three preset options can be stored and activated with the buttons **Copy1** to **Copy3**.

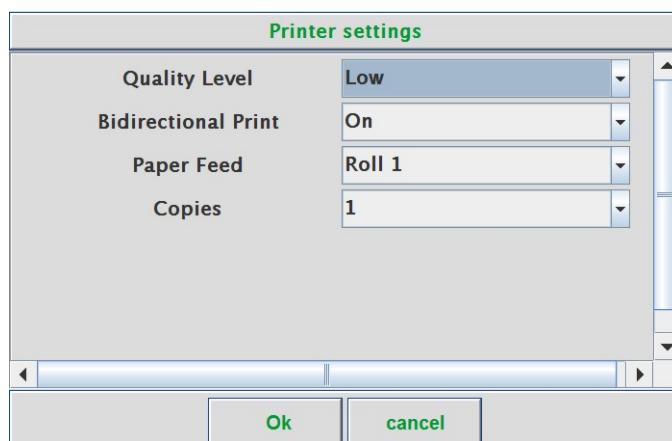


Picture 98: Parameters of Copy Options

The parameters displayed in the above picture can only be changed from the Scan2Net® setup interface, user level **Poweruser**.

C.7.3.1 Printer Settings

After pressing the button **Copy image to remote printer** an additional window opens.



Picture 99: Printer settings window

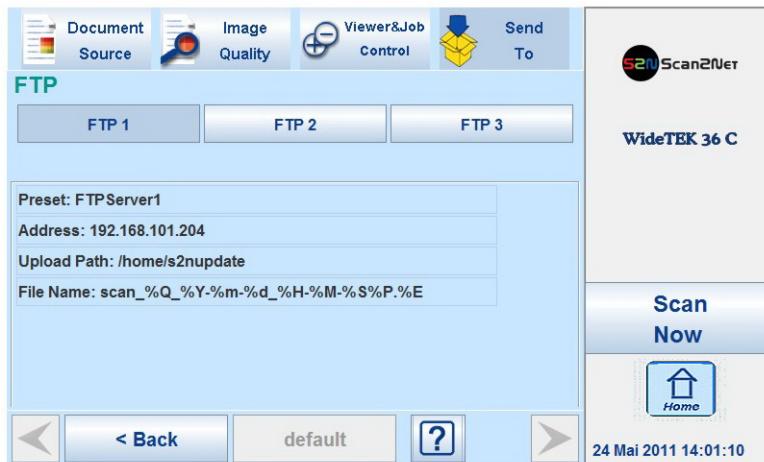
Here the user can select scaling of the image, the paper source and the number of copies.

The content of each line depends on the features of the connected printer.

C.7.4 FTP Options

Touch **FTP Options** to switch to the screen with the preset FTP server configurations.

Three preset FTP servers can be stored and activated with the buttons **FTP 1** to **FTP 3**.



Picture 100: Parameters of FTP Options

From the touchscreen, only the entry for **File Name** can be changed.

To change the entry, touch the respective line.

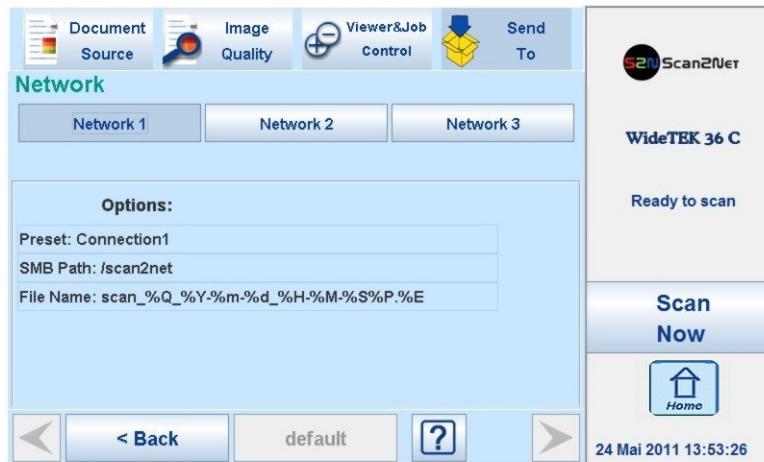
Chapter C.7.1 describes how the entry can be changed.

All other parameters must be changed from the Scan2Net® setup interface, user level **Poweruser**.

C.7.5 Network Options

Touch **Network Options** to switch to the screen showing the preset network configurations.

Three preset configurations can be stored and activated with the buttons **Network 1** to **Network 3**.



Picture 101: Parameters of Network Options

From the touchscreen, only the entry for **File Name** can be changed.

To change the entry, touch the respective line.

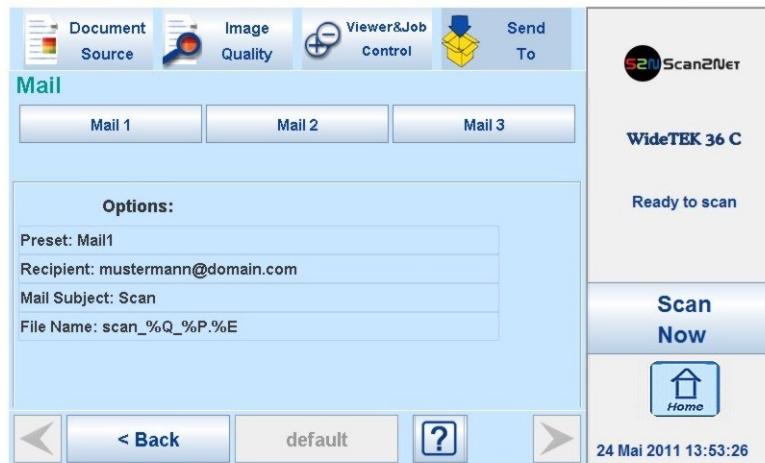
Chapter C.7.1 describes how the entry can be changed.

All other parameters must be changed from the Scan2Net® setup interface, user level **Poweruser**.

C.7.6 Mail Options

Touch **Mail Options** to switch to the screen showing the preset email configurations.

Three preset configurations can be stored and activated with the buttons **Mail 1** to **Mail 3**.



Picture 102: Parameters of Mail Options

To change an entry, touch the respective line. From the touchscreen the values for

- Recipient
- Mail Subject
- File Name

can be changed.

Chapter C.7.1 describes how the entry can be changed.

More parameters can be changed from the Scan2Net® setup interface, user level **Poweruser**.

C.7.6.1 Transaction modes

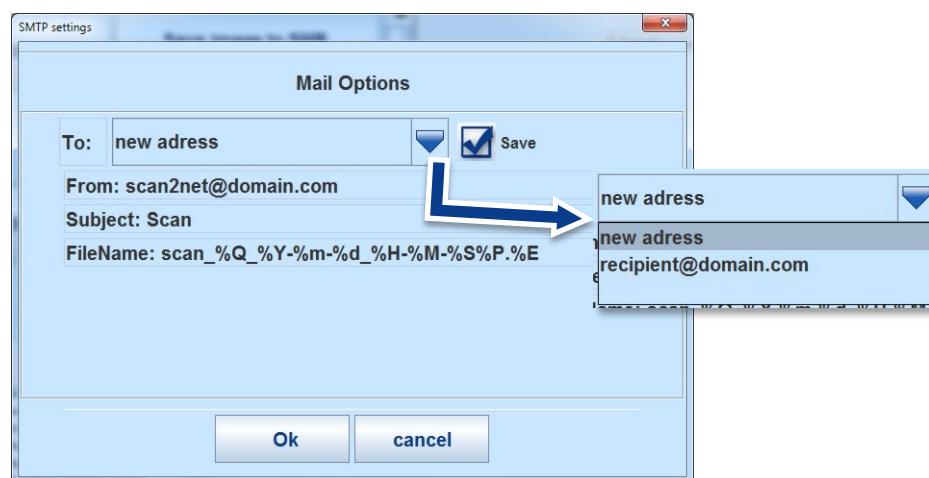
Two transaction modes are available for the mail transfer. The parameters for the transaction modes can be set from the Scan2Net setup interface.

The mode, selected in the Scan2Net user interface, influences the process when a scanned image should be mailed.

Automatic When pressing the button **Mail image via SMTP** at the touchscreen, the image will be sent to the address defined in the screen **Mail Options** (Picture 102). The status area of the touchscreen above the **Scan Now** button shows the message: **Mail image via SMTP**.

Interactive When pressing the button **Mail image via SMTP** at the touchscreen, another window opens in the touchscreen. It is titled **Mail Options** and allows entering another address for the recipient than the prescribed address. All other settings remain the same.

To enter another address, click in the topmost line.



Picture 103: Interactive mode, mail options

All entered addresses will be saved in a list when **Save** is selected with the checkbox. Click at the selection arrow to see the list.

Using **Interactive** is recommended when transferring image to often changing addresses.

D The User Interface ScanWizard Web

Essentially, the scanner is a web server and comes with its own HTML based user interface, named ScanWizard.

A basic requirement before working with the integrated ScanWizard user interface is to configure the browser as follows:

- Force the browser to reload the page 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.

ScanWizard is a simple and intuitive user interface for your Scan2Net® scanner, which can be accessed using any standard web browser. ScanWizard is operating system independent and requires no installation of any kind on the user's client PC.

Once your network administrator has assigned the scanner an IP address and installed it in your network, any user can access the scanner and operate it using ScanWizard.

Start your browser.

Enter the IP address which has been assigned to the scanner.

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

The Scan2Net® main menu will be displayed in the browser.



Picture 104: Scan2Net® main menu

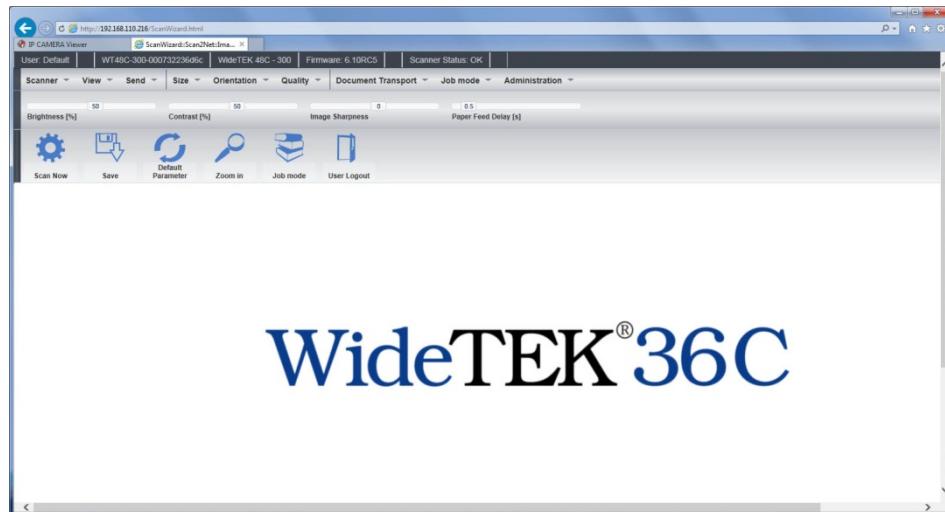
Launch Scan Application switches to the ScanWizard interface. Information about the ScanWizard interface will be found starting in chapter D.1.

Setup Device switches to the setup menu. If you have access rights to the administrative parts of the Scan2Net® system, press this button to set up the device and access information about the scanner. Information about the setup level **User** can be found in chapter E.

Information gives a short summary of the device parameters. Information will be found in chapter D.2.

D.1 The ScanWizard User Interface

After pressing the **Launch Scan Application** button the browser will show the ScanWizard interface.



Picture 105: ScanWizard interface

You can bookmark the address of the ScanWizard interface in your browser for easy access later.

ScanWizard is a function rich software which allows the user configuring and operating the scanner easily without any additional software.

Even advanced functionality such as job management and color profiling are available in ScanWizard.



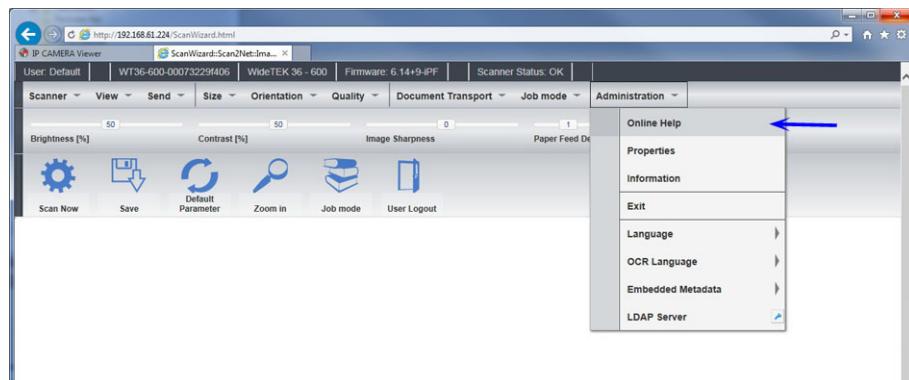
Picture 106: ScanWizard interface layout

Using the four toolbars shown in Picture 106, the user

- selects the scanning parameters and scans,
- manipulates the images without having to rescan,
- processes large volume jobs or saves individual images to the destination of their choice.

D.1.1 Online Help

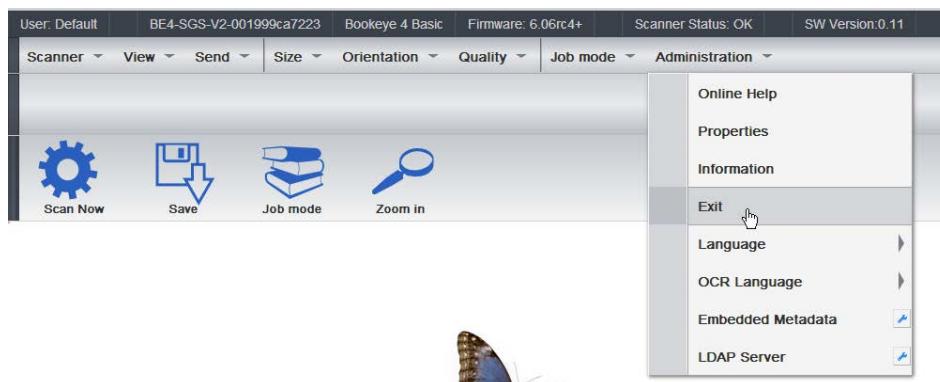
These tool bars are described in detail in the online help function included in the ScanWizard interface. Click in the “Administration” menu, item “Online Help”.



Picture 107: Online Help

D.1.2 Exit ScanWizard

To exit the ScanWizard interface click on the main menu item “Administration”. Then click on “Exit”.

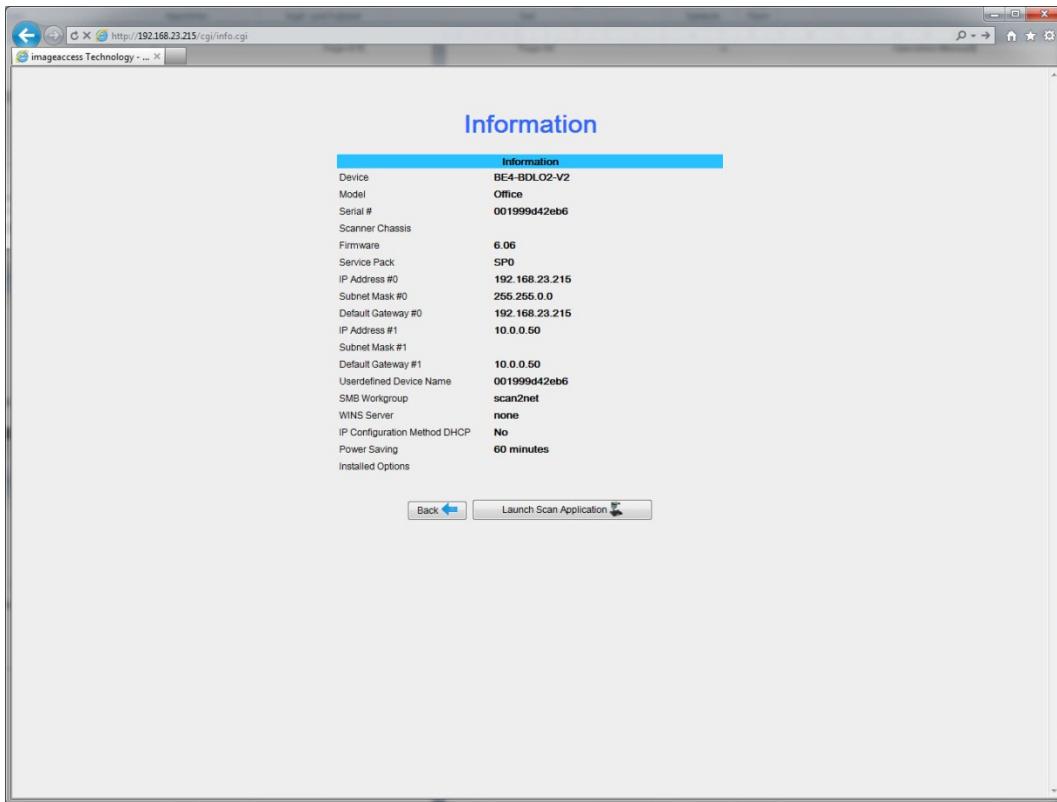


Picture 108: “Exit” returns to Scan2Net® main menu

The browser will return to the Scan2Net® main menu (Picture 104).

D.2 Information

Click on the button **Information** in the Scan2Net® main menu (Picture 104) to get a short summary of the device parameters.



Picture 109: Summary of device parameters

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 Scan2Net® main menu (Picture 104).

E The Setup Level

The setup 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.

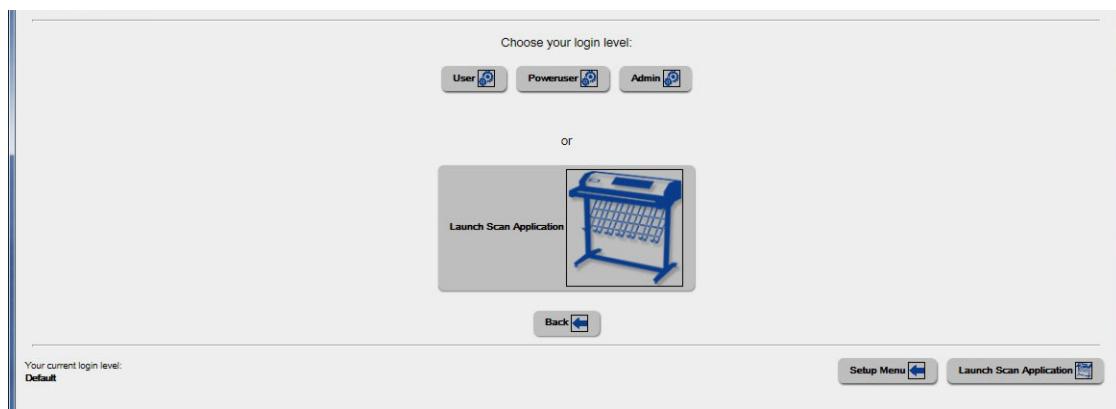
Furthermore the access level **User** allows setting some basic parameters.

Start your browser and enter the IP address of the scanner to get access to the scanner. The Scan2Net® main menu will open (see Picture 104).

The Login Screen

On the start screen, click the button **Setup Device**.

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



Picture 110: Login screen

Note: The login levels **Poweruser** and **Admin** are password protected.

Only trained technicians should use these levels.

Note: Further login levels can be displayed, depending at installed options.

E.1 Access Level User

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



Picture 111: User screen

The user screen is divided into two sections.

The section **Device Information** shows some details of the scanner and gives 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.

E.1.1 Device Info

In the section **Device Information**, click the button **Device Info** and the following list (**Fehler! Verweisquelle konnte nicht gefunden werden.**) will be displayed.

Click the buttons below the headline **Device Info** to get specific scanner information.



The screenshot shows the 'Device Info' screen with the following details:

Device	
Device Type	WT36-600 (74)
Model	WT36-600-BDL (01)
Scanner Chassis	Version A
Date of Build	Thursday 19 February 2015
Language	english
Skin	classic

Showing 1 to 7 of 7 entries

Buttons at the bottom: Back to Main Menu, User Logout, Setup Menu, Launch Scan Application

Picture 112: Device Info screen

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

The most important information for users is the firmware version in the second table.



The screenshot shows the 'Firmware' screen with the following details:

Firmware	
Version	4.20B
Service Pack	SP1
Last Update	Tuesday, 28 April 2015

Showing 1 to 4 of 4 entries

Buttons at the bottom: Back to Main Menu, Setup Menu, Launch Scan Application

Picture 113: Firmware information

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 111) scroll down completely and click the **Back to Main Menu** button.

To return to the **Login** screen (Picture 110) click the button **Setup Menu**.

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

E.1.2 Operation Info

In the section **Device Information** click the button **Operation Info** and the following list will show various scan counters and elapsed times.



Picture 114: Operation Info screen

The following table gives a brief description.

Field	Description
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.
Power Up Cycles	The total number of power up cycles performed since the scanner left the factory. Only the power-up cycles are counted, which were invoked by the on/off button.
Job count	The total number of activating the job mode for scanning.
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.
Remaining Lamp Operating Time	The typical remaining lifetime of the lamps. With normal working conditions the lamp life is sufficient for the lifetime of the device.

To return to the **USER** screen (Picture 111), click the button **Back to Main Menu** or click on the "Return" button in your browser.

To return to the **Login** screen (Picture 110) click the button **Setup Menu**.

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

E.2 User Settings

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



Picture 115: Start screen User Settings

The **Power Saving** screen will be displayed as start screen of the **User Settings** section.

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

To return to the **Login** screen (Picture 110 click the button **Setup Menu**.

To return to the **USER** screen (Picture 111) click the button **Back to Main Menu**.

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

E.2.1.1 Language Selector

Use the function **Language Selector** to set the language for the user interface and the OCR language of the scanner.



Picture 116: Language Selector of the setup menu

Click on the selection arrow beside **Language** and a list of available languages opens.

Select the desired language for the user interface with a mouse click.

The setting changes immediately after the selection.

Click the button **Back to Main Menu** to return to the **USER** screen (Picture 111) respectively the button titled in the selected language.

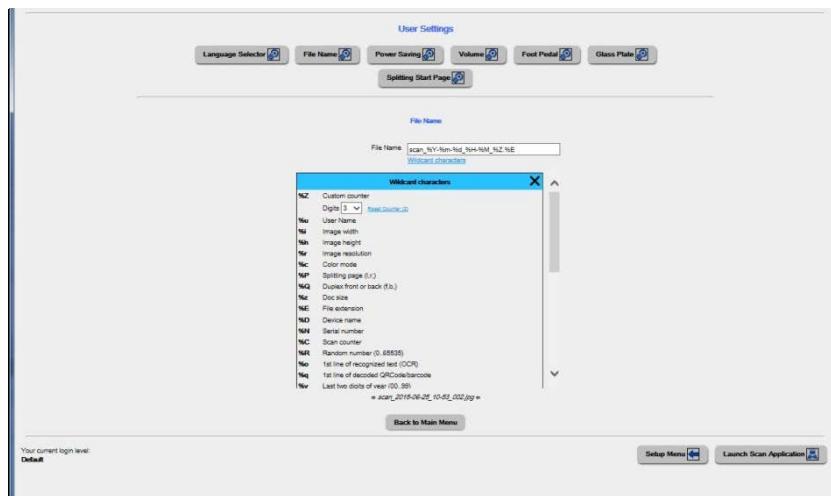
E.2.1.2 File Name

Use the function **File Name** to define a default name.



Picture 117: File name

When defining the default name, variables can be used. To get a list of the variables, click at the link [Wildcard characters](#).



Picture 118: List of wildcard characters

Below the field "File Name" the defined file name is displayed. To show the file name with the defined variables, reload the page.

E.2.1.3 Power Saving

Use the function **Power Saving** to set the timers for the standby modes and the standby method. The available settings are displayed on the screen.

Click on the link [Power Saving](#).



Picture 119: Power Saving

Click on the selection arrow to open the list of available values for the respective standby mode. The list of available values varies with the selected standby mode.

Standby mode	Available values
Device standby after	5 minutes 10 minutes 15 minutes 20 minutes 30 minutes 45 minutes 1 hour 2 hours 3 hours 4 hours Never
Display standby after	
Screen Saver after	
Standby Method	Suspend to RAM Power off

Never disables the power save function of the respective menu item.

To return to the previous screen click the button [Back to Main Menu](#).

E.2.1.4 Transport Speed

Two transport speeds are available. They can be selected in the touchscreen as well as in the ScanWizard interface.

Use the function **Transport Speed** to set the values.



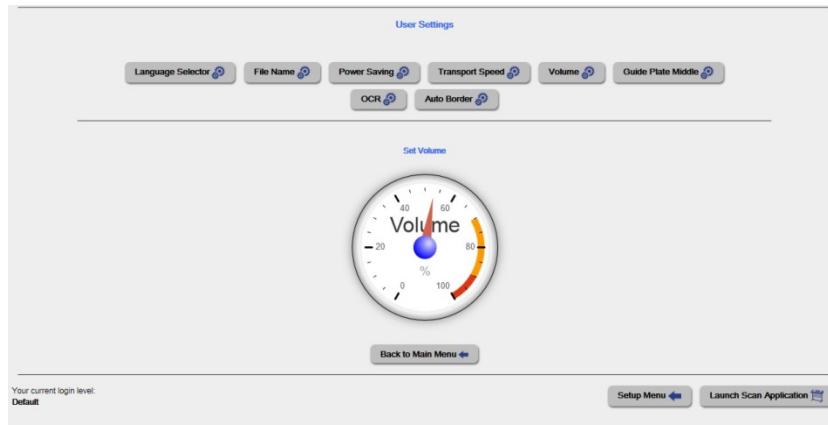
Picture 120: Transport speeds

Click at the selection arrows to display the speeds available for the setting **Slow** and **Normal**.



E.2.1.5 Volume

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



Picture 121: Volume level

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

Click at the scale to set the volume level or right-click with the mouse at the arrow and move it to the desired value

To return to the **Login** screen (Picture 110) click the button **Setup Menu**.

To return to the **USER** screen (Picture 111) 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.

F Tests and Troubleshooting

F.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
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.

G Technical Data

Note: Differences between the scanners WideTEK® 36C and WideTEK® 48C will be marked in the headline of the tables.

G.1 Scanner Specifications

WideTEK® 36C Optical System

Document width	38 inches / 965 mm
Scan width	36 inches / 915 mm
Maximum document thickness	0.1 inch / 2.5 mm
Scan direction	Face up
Scanner resolution	1200 x 1200 dpi (optionally 9600 x 9600 dpi interpolated)
Optical resolution	1200 x 600 dpi
Pixel dimension	42 x 42 µm
Sensor type	Three dual light CIS modules
Grayscale digitization	12 bit
Color digitization	36 bit
Scan modes	24 bit color, 8 bit color, 8 bit grayscale, bitonal, enhanced halftone

WideTEK® 36C Illumination:

Light Source	Approx. 1000 LEDs on two sides
Warm-up Time	None
Temperature Dependency	None
UV / IR Emission	None
Lifetime	50.000 hours (typ.)

WideTEK® 48C Optical System

Document width	50 inches / 1270 mm
Scan width	48 inches / 1219 mm
Maximum document thickness	0.1 inch / 2.5 mm
Scan direction	Face up
Scanner resolution	1200 x 1200 dpi (optionally 9600 x 9600 dpi interpolated)
Optical resolution	1200 x 600 dpi
Pixel dimension	42 x 42 µm
Sensor type	Four dual light CIS modules
Grayscale digitization	12 bit
Color digitization	36 bit
Scan modes	24 bit color, 8 bit color, 8 bit grayscale, bitonal, enhanced halftone

WideTEK® 48C Illumination:

Light Source	Approx. 1350 LEDs on two sides
Warm-up Time	None
Temperature Dependency	None
UV / IR Emission	None
Lifetime	50.000 hours (typ.)

Scan accuracy

Accuracy in scan direction	± 0,08% at 48 inch scan width
Accuracy in transport direction	± 0,08% with new transport rollers

G.2 Electrical Specifications

External Power Supply

Voltage	100 – 240 V AC
Frequency	47 – 63 Hz
Inrush current	120 A max / 264 V AC
Efficiency	85 %
Operating temperature	5 to 40 °C / 41 to 104 °F
Operating humidity	10 ... 90 % RH, non-condensing
ECO standard	CEC level V

Scanner

Voltage	24 V DC
Current	Max. 5 A

WideTEK® 36C Power Consumption

Sleep	≤ 0.5 W
Standby	4.8 W
Ready to scan	35 W
Scanning	Max. 55 W

WideTEK® 48C Power Consumption

Sleep	≤ 0.5 W
Standby	4.8 W
Ready to scan	35 W
Scanning	Max. 55 W

G.3 Ambient Conditions

Operating temperature	5 to 40 °C / 40 to 105 °F
Storage temperature	0° to 60 °C, 32° to 140 °F
Relative humidity	20 to 80% (non-condensing)
Noise level	< 35 dB(A) (Operating) < 25 dB(A) (Standby)

G.4 Dimensions and Weight

WideTEK® 36C

Scanner outer dimensions	195 x 1100 x 410 mm (H x W x D) 7.7 x 43.3 x 16.1 inches
Scanner outer dimensions (incl. floor stand)	1045 x 1100 x 410 mm (H x W x D) 41.2 x 43.3 x 16.1 inch
Weight of scanner	30 kg / 66 lbs.
Weight of floor stand incl. paper catch and monitor table	20 kg / 44 lbs.

Wooden Transport Box:

Transport dimensions on a pallet	450 x 1200 x 800 mm (H x W x D) 17.7 x 47.2 x 31.5 inch
Total shipping weight	85 kg / 187 lbs.

WideTEK® 48C

Scanner outer dimensions	195 x 1430 x 410 mm (H x W x D) 7.7 x 56.3 x 16.1 inches
Scanner outer dimensions (incl. floor stand)	1045 x 1430 x 410 mm (H x W x D) 41.2 x 56.3 x 16.1 inch
Weight of scanner	36 kg / 80 lbs.
Weight of floor stand incl. paper catch and monitor table	31 kg / 68 lbs.

Wooden Transport Box:

Transport dimensions on a pallet	450 x 1600 x 800 mm (H x W x D) 17.7 x 63 x 31.5 inch
Total shipping weight	114 kg / 251 lbs.

G.5 CE Declaration of Conformity

The undersigned, representing the manufacturer:

Image Access GmbH
Hatzfelder Strasse 161 – 163
42281 Wuppertal, Germany



herewith declares that the

Products: **WideTEK 36C / WideTEK 48C Scanner**

Model Designation: **WT36C – XXX / WT48C-XXX**
(XXX represents the device version number and configuration details)

Serial number: All

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

Safety:

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

IEC 60950-1:2005 (2nd Edition) + A1:2009-12

EN 60950-1:2006 + A11:2009 + A1:2010

ANSI/UL 60950-1-2007, 2nd Edition, Issued 2007/03/27

CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, Issued 2007/03/27

EMC:

EMC Directive 2004/108/EC as per
EN 55022 :2006 + A1 :2007
EN 61000-3-2:2006 + A1 :2009 + A2 :2009
EN 61000-3-3 :2008

EN 55024 :1998 + A1:2001 + A2:2003
EN 61000-4-2:2009
EN 61000-4-3:2006 + A1 :2008
EN 61000-4-4:2004 + A1 :2010
EN 61000-4-5:2006
EN 61000-4-6:2009
EN 61000-4-11:2004

Wuppertal, April 2014



Thomas Ingendoh , President and CEO

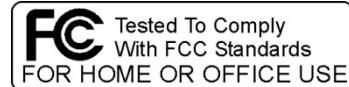
G.6 FCC Declaration of Conformity

Responsible party:

Image Access GmbH

Hatzfelder Strasse 161 – 163

42281 Wuppertal, Germany



Product: **WideTEK 36C / WideTEK 48C Scanner**

Model Designation: **WT 36C-XXX / WT48C-XXX**

(XXX represents the device version number and configuration details)

Serial number: All

This devices comply with FCC, Part 15, Class B and ICES-003.

The test setup F≤ 1000 MHz and test was done according to

ANSI C63.4: 2009 and CISPR 22: 2006+A1:2007

Compliance with CISPR 22 is being used to demonstrate conformity with FCC DoC requirements. This conforms with FCC Part 15.107(e) and 15.109(g).

The test setup F> 1000 MHz and test was done according to

ANSI C63.4: 2009

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

For your notes