Image Access

WideTEK® 12

WideTEK® 25

Operation Manual

Introduction

Dear Customer,

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

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

With the WideTEK® 12 / WideTEK® 25, 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 scanner. The WideTEK® 12 differs from the WideTEK® 25 in the mechanical dimensions; the software functions are similar for both scanners.

For this reason, we ask you to read the manual attentively before starting to work with the scanner. 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 your scanner during the entire service life.

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

For your daily work with your new 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 manuals 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	March 2014	**First version with WideTEK® 12 and WideTEK® 25 together in one manual.** The manuals bases on version C of the WideTEK® 25 manual. Scanner model WideTEK 12 added. Model specific chapters for WideTEK 12 added. Table of content reworked.
A1	April 2014	Minor correction in chapter B.3.10.
A2	June 2014	Minor correction in chapters B.3 and B.3.1
A3	July 2014	EMC information: Specific information for WideTEK® 12 added.
A4	November 2014	Technical Data: Order of table modified, additional values added.
B	June 2015	Chapter A.10.2 split in two sub-chapters. Description of connectors on WideTEK® 25 backside.
C	December 2015	Chapters in new order. Description of the ScanWizard touchscreen interface added.

EMC information according to the standard FCC, Part 15:

NOTE:

WideTEK® 25: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interferences when the equipment is operated in a commercial environment.
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.

WideTEK® 12: 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 interferences in a residential environment.

If this equipment does cause harmful interferences to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the device and receiver.
- Reorient or relocate the receiving antenna.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.

Table of Content

Table of Content, part 2

Table of Content, part 3

Table of Content, part 4

Table of Content, part 5

Table of Pictures

Table of Pictures, part 2

Table of Pictures, part 3

Table of Pictures, part 4

A Safety Notes

A.1 General Notice

This manual describes both devices, the WideTEK® 25 as well as the WideTEK® 12.

All functions and assessable menus refer to complete equipped scanner. If your device is not equipped with all features, deviations are possible.

Difference between WideTEK® 25 and WideTEK® 12 will be marked.

A.2 Safety Notes

Read and ensure that you understand the safety notes.

The safety notes have been written to ensure 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.

F-A.1 Notes de sécurité

Lisez ces notes de sécurité et veillez à bien les comprendre.

Ces notes ont été rédigées pour assurer votre protection et votre sécurité.

Respectez toutes les notes de sécurité pour éviter d'endommager le dispositif.

F-A.1.1 Marquage des notes de sécurité

Toutes les notes de sécurité sont marquées par un panneau d'avertissement.

Vous trouverez une description du risque de sécurité à droite, à côté du panneau d'avertissement.

MISE EN GARDE!

<Texte avec description du danger potentiel.>

A.3 Certification

Both scanners fulfill all requirements of the following safety standards:

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)

The WideTEK 25 scanner fulfills all requirements of the following safety standards:

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

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

The WideTEK 12 scanner fulfills all requirements of the following safety standards:

IEC 62368-1:2014 (2nd Ed.), International Safety Standard for Information Technology Equipment

FprEN 62368-1:2013/FprAA:2014: 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.

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

1. 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.
2. Do not place the scanner near a heat or cold emitting source such as a space heater, furnace, or air conditioning unit.
3. Do not place the scanner near any devices or electrical boxes emitting high voltage.
4. Always place the scanner on a stable surface.
5. Do not place cups containing liquids or other such objects on the scanner. If liquid spills into the scanner it can cause damage. If this occurs, turn the scanner off, unplug the power cord from the wall receptacle and contact the Image Access Technical Support.
6. Do not put any objects into any scanner housing openings unless specifically instructed to do so by Image Access Technical Support.
7. Do not disassemble the scanner. If there is a need to disassemble the scanner, please contact the Image Access Technical Support.
8. Do not use the scanner if it has been physically damaged. If this occurs, turn the scanner off, unplug the power cord from the wall receptacle and contact the Image Access Technical Support.
9. The scanner should be used only with the external power supply that is delivered with the scanner. If you are unsure, please contact the Image Access Technical Support.
10. Always turn the power off and unplug the power cord from the wall receptacle before cleaning the scanner.
11. When cleaning, 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.
12. Do not spray any liquids directly onto the scanner. Spray cleaning fluids only onto the cleaning cloth and use the cloth to clean the scanner.

F-A.2 Précautions de sécurité

Mise en garde: Veuillez lire toutes les précautions de sécurité avant de faire fonctionner le scanner. Vous risquez de graves blessures, sur vous-mêmes ou sur autrui, si vous ne savez pas comment vous en servir en toute sécurité.

Pour éviter tout risque d'incendie ou de commotion, **n'exposez pas** cet appareil à la pluie ou à une humidité quelconque.

Respectez toutes les notes de sécurité pour éviter de vous blesser ou d'endommager le dispositif.

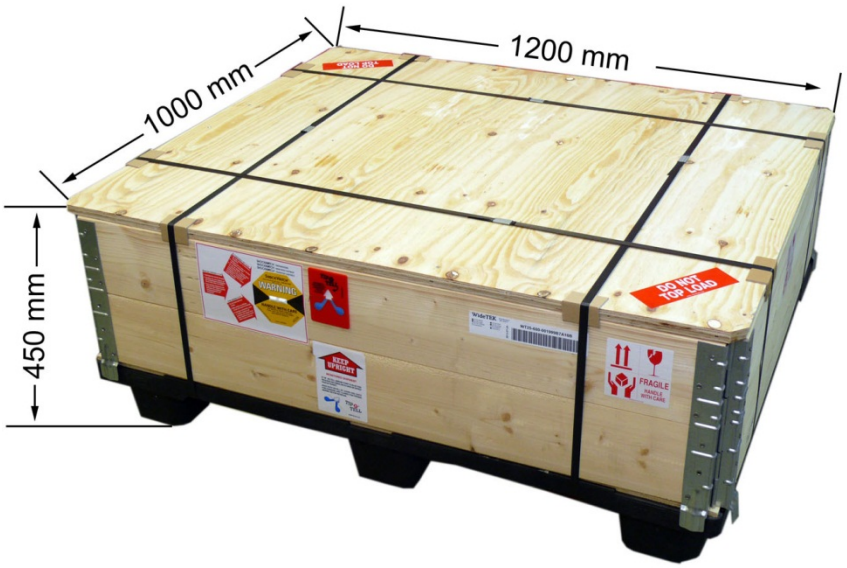
1. Des ouvertures sont pratiquées dans le boîtier du scanner pour la circulation de l'air. Ne couvrez ou n'obstruez pas ces ouvertures.
2. Ne placez pas le scanner à proximité d'une source de chaleur ou de froid telle qu'un radiateur électrique portatif, un poêle ou un appareil de climatisation.
3. Ne le placez pas près d'appareils ou de boîtiers électriques émettant une haute tension.
4. Posez toujours le scanner sur une surface stable.
5. Ne posez pas de tasses contenant des liquides ou d'autres objets similaires sur le scanner. Si un liquide est répandu sur le scanner, il risque de l'endommager. Si cela se produit, éteignez le scanner, débranchez le cordon d'alimentation de la prise de courant murale et contactez l'Assistance Technique de Image Access.
6. N'introduisez pas d'objets dans les ouvertures du boîtier du scanner, sauf si l'Assistance Technique de Image Access vous en donne l'instruction.
7. Ne démontez pas le scanner. Si vous êtes obligé de démonter le scanner, veuillez contacter l'Assistance Technique de Image Access.
8. N'utilisez pas le scanner s'il a été endommagé physiquement. Si cela se produit, éteignez le scanner, débranchez le cordon d'alimentation de la prise de courant murale et contactez l'Assistance Technique de Image Access.
9. Le scanner devrait uniquement être utilisé avec l'alimentation électrique qui est fournie avec le scanner. En cas de doute, veuillez contacter l'Assistance Technique de Image Access.
10. Coupez toujours l'alimentation électrique et débranchez le cordon d'alimentation de la prise de courant murale avant de nettoyer le scanner.
11. Pour ce nettoyage, évitez d'utiliser des solutions, des abrasifs ou des acides quelconques tels que l'acétone, le benzène, le kérosène, des alcools minéraux, de l'ammoniac ou de l'acide nitrique. N'utilisez pas de nettoyants contenant ces produits chimiques.
12. Ne pulvérisez pas de liquides directement sur le scanner. Pulvérisez les liquides de pulvérisation directement sur le chiffon de nettoyage et utilisez-le pour nettoyer le scanner.

B Hardware

B.1 Content on Delivery

B.1.1 WideTEK® 25

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.



Picture 1: WideTEK® 25 transport box

Remove the plastic straps and lift the cover. Remove the cushion foils, which cover the scanner.

Picture 2: Scanner covered cushion foils

Fehler! Verweisquelle konnte nicht gefunden werden. gives an overview of the contents of the transport box.

Picture 3: WideTEK 25 in transport box, cover removed

1: Folder with

Color Scanner Test Target CSTT-1

Manuals

2: Cardboard box with

Power supply and connecting cable

Network cable to connect the scanner to an existing network

Plastic bag with “Recovery Key”

3: Scanner WideTEK 25 in plastic protection bag

4: Plastic bag with

3x White Reference Target WT25-WA-01-A

Stitching adjustment target WT36C-Z-02-A

B.1.2 Removing the Transport Box

Specially formed foam plastic inserts hold the scanner and the accessories in the transport box.

At first, remove the foam plastic inserts and the cardboard boxes out of the transport box.

Start with the foam plastic elements at the corners of the scanner. Pull it out upwards.

Take the cardboard boxes out of the transport box at next.

Lift the wooden frame from the pallet.

Important! Because of safety reasons and because of the weight of the scanner, **execute the following step always with two persons**.

Lift the scanner from pallet and place it on a flat and solid base.

The load bearing capacity of the base must correspond to the device weight. The dimensions of the base must correspond to the length and depth of the scanner.

Please note: Keep the wooden transport box and the foam plastic inserts for future use! In case of guarantee the scanner must be sent back in the original transport box to avoid transport damages.

B.1.3 WideTEK® 12

When delivered, the scanner with its accessories is packed in a stable cardboard box.

Picture 4: WideTEK® 12 transport box

Cut the tapes at the upper side and open the cardboard box.

Picture 5: Scanner with reference folder

The reference folder is placed on top of the scanner.

The scanner is packed in a large protective plastic bag.

The reference folder content is identical with the folder of the WideTEK® 25.

B.1.4 Unpacking from the Transport Box

Specially formed foam plastic inserts hold the scanner in the transport box.

Pull the four foam plastic inserts at first out of the box.

Please note: Keep the cardboard box and the foam plastic inserts for future use! In case of guarantee the scanner must be sent back in the original transport box to avoid transport damages.

Important! Because of safety reasons and because of the weight of the scanner, **execute the following step always with two persons**.

Lift the scanner out of the transport box and place it on a flat and solid base.

The load bearing capacity of the base must correspond to the device weight. The dimensions of the base must correspond to the length and depth of the scanner.

After lifting the scanner out of the transport box, the accessories are accessible.

Picture 6: Accessories in the box

1: Plastic bag with

Power supply connecting cable

Network cable to connect the scanner to an existing network

Plastic bag with “Recovery Key”

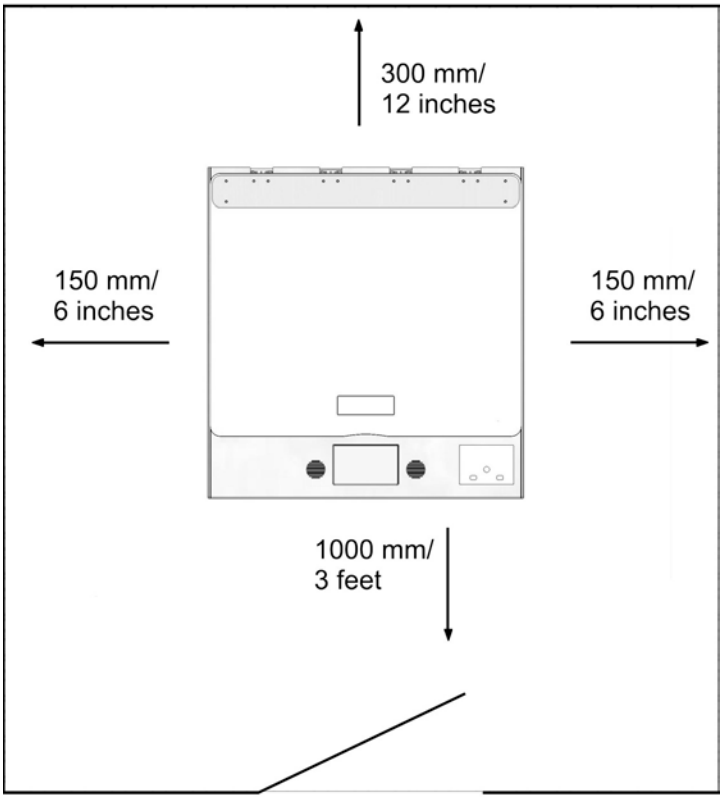
2: 3x White Reference Target WT25-WA-01-A

3: Power supply

B.2 Device Location

Note: Picture 7 shows a sketch of a WideTEK® 25 scanner, but the distances around the scanner are generally valid for both scanner models.

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



Picture 7: Minimum distances

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

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

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

Important: After transporting the scanner to a new environment, allow at least one hour for temperature adaption before using the device.

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.3 Maintenance

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

B.3.1 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.3.2 Surfaces

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

B.3.3 Glass plate

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

The glass plate of the scanner has a special surface coating.

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

Dampen the micro fiber cloth slightly before cleaning.

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

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

B.4 Repair

Note: There are not any parts or components of the scanner which can be repaired by the user.

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

B.5 Transportation Locks

B.5.1 Removing the transportation locks

This is valid for both scanners, the WideTEK® 12 and the WideTEK® 25.

Attention

Before initial start-up remove the transportation locks at both sides of the device!

The transportation locks are located at the left and right bottom side of the scanner. A label is attached to each transportation lock.

Picture 8: Transportation locks at bottom side of WideTEK® 25

The transportation locks are easily identified by their orange-colored heads.

To remove, turn the transportation lock counterclockwise.

Remove the transportation locks completely.

Important: Keep the transport locks for future use!

The transportation locks must be inserted before each transport to protect the camera box against damage.

B.5.2 Inserting the transportation locks

Attention

Insert the transportation locks before transporting the scanner to protect the camera box against damage.

Before inserting the transportation locks the camera box unit must be moved into transport position.

The transport position of the camera box unit is at the back side of the scanner – seen from the operator's position.

When the power down sequence ends normally, the camera box unit moves to its transport position. If the camera box unit is in any other position after switching off, restart the scanner.

Turn it off again. The power down sequence moves the camera box unit to the transport position, finalizes all internal processes in the scanner and switches the device to standby mode.

Finally switch off the scanner at the main power switch (see Picture 10 resp. Picture 13).

Insert the transportation locks at both sides of the scanner carefully.

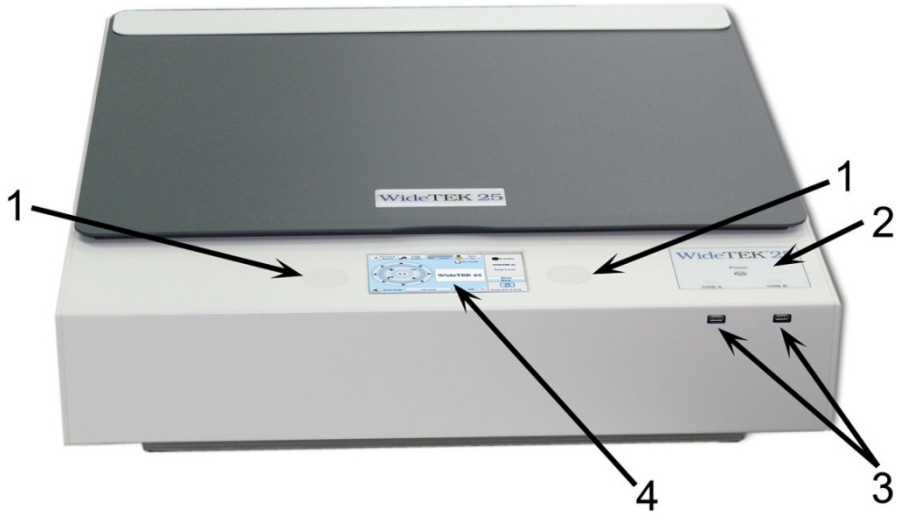
Always use the transportation locks which come with the scanner.

Important: Do not use an electrical tool to insert or tighten the transport locks.

Tighten the transportation locks only by hand. Using more force could result in damage of the camera box unit.

B.6 Device Overview

B.6.1 WideTEK® 25 Front Side Elements



Picture 9: WideTEK 25 front view

The main components of the WideTEK 25 are:

1. Internal loudspeakers

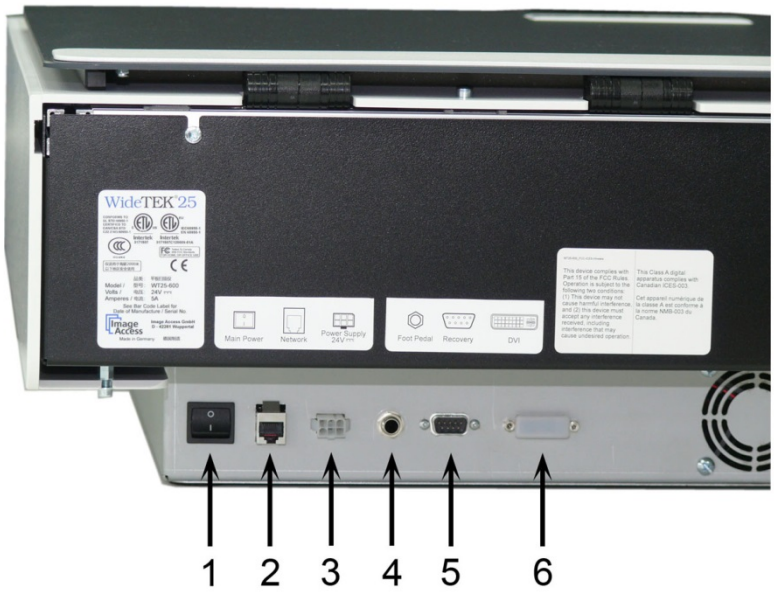
2. „Power“ button and status LEDs of the USB connectors.

3. Two USB connectors for storage mediums.

4. Touchscreen

B.6.2 WideTEK® 25 Rear Side Connectors

B.6.2.1 Chassis version A



Picture 10: Connectors chassis A

1. Main power switch

2. Foot pedal connector

3. Network cable connector

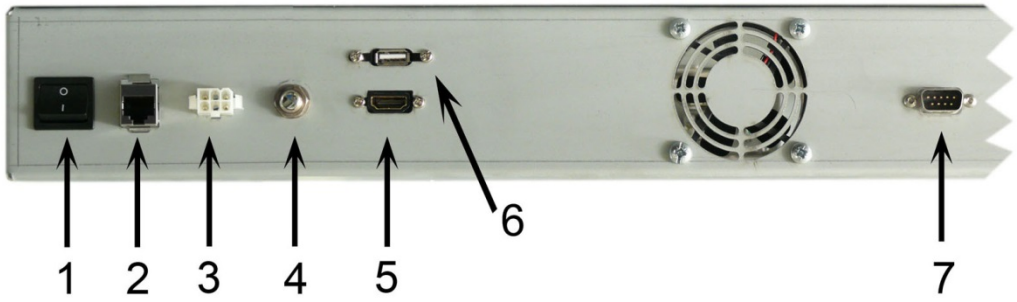
4. Serial port / Recovery key connector

5. External power supply connector

6. DVI connector for external monitor

Note: Although the scanners receptacle will accept DVI-D, DVI-A and DVI-I plugs, it only supports DVI-D. DVI-I to VGA cables will not work on this connector.

B.6.2.2 Chassis version B



Picture 11: Connectors chassis B

The connectors #1 to #4 are identical to the connectors of chassis A.

5. HDMI connector

6. USB connector

7. Serial port / Recovery key connector

B.6.3 WideTEK® 12 Front Side Elements

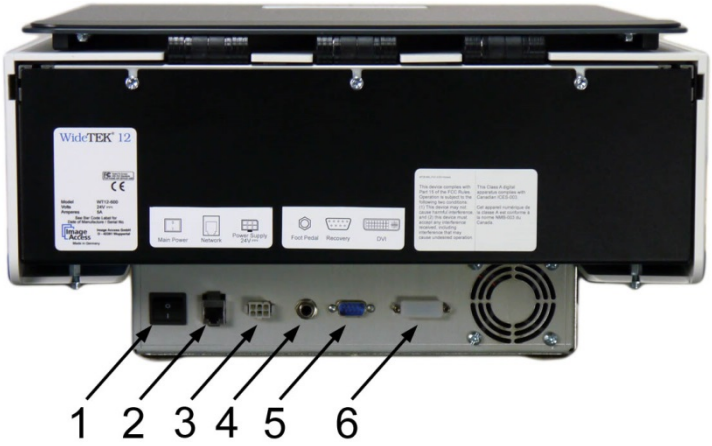
Picture 12: Front side elements

1. 7 inch touchscreen

2. „Power“ button

3. USB-connector

B.6.4 WideTEK® 12 Rear Side Elements



Picture 13: Back side connectors

1. Main switch

2. Network connector

3. Connector for external power supply

4. Connector for foot pedal

5. Recovery connector

6. Connector for external monitor

Note: Although the scanners receptacle will accept DVI-D, DVI-A and DVI-I plugs, it only supports DVI-D. DVI-I to VGA cables will not work on this connector.

B.7 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 located at the right side of the back of the housing, seen from the operator's position (i.e. from the front of the scanner).

After the power source is connected and the main power switch is turned on, the symbol in the „Power" button lights up.

Red illumination of the button signals that the scanner is in standby mode.

B.8 Powering up the Scanner

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

Picture 10 and Picture 13 show the position of power supply connector and main power switch for each scanner.

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.8.1 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 on the TFT flat screen (if connected).

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

B.8.2 Switching the Scanner to Standby Mode

Important: **Always** turn off the scanner with the “Power“ button at the front panel!

The main power switch should only be used when the scanner is in standby mode and **before** it 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 touchscreen and the TFT flat screen (if connected) changes and display the message: **Going to shut down now …**

Finally the screens switch off and the „Power“ button will be illuminated red.

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.2.
- 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.

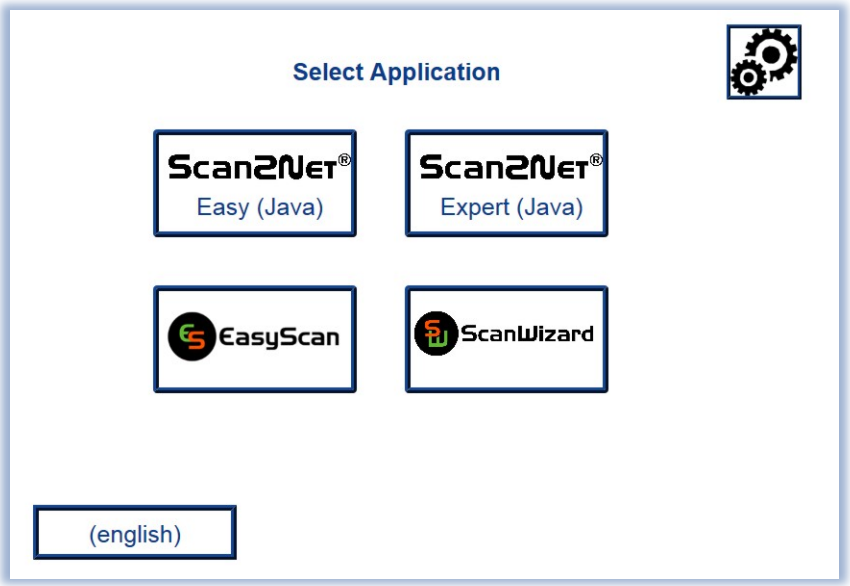
Please note: All screenshots in the description of the interfaces are taken from a fully equipped device with all options and functions activated. Depending on the selected mode, the menus displayed on the screen can vary.

GENERAL NOTICE

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

C.1 Select Application Screen

When the WideTEK® 12 / WideTEK® 25 scanner start from standby mode and finishes the startup procedure, the touchscreen displays the **Select Application** screen.



Picture 14: Select application screen after start-up

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

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.

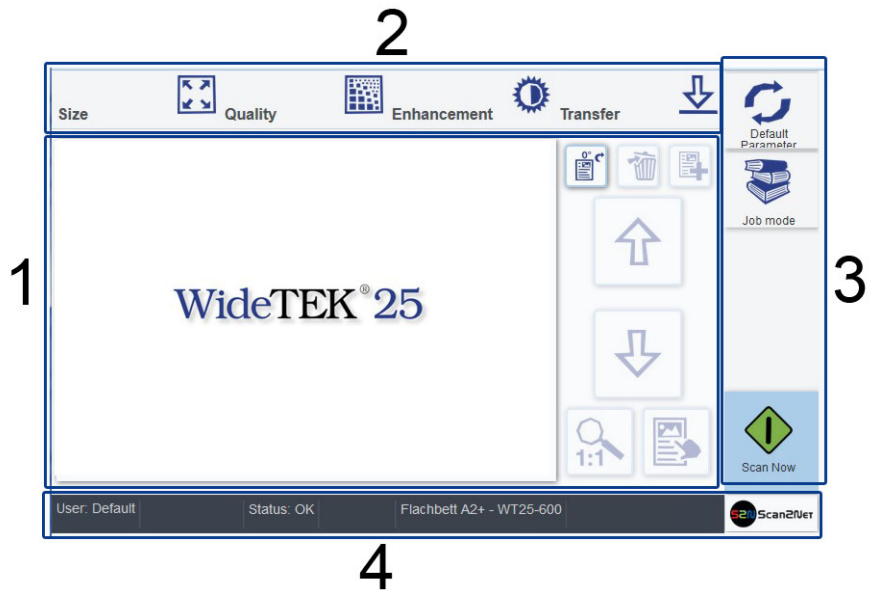
Touching this button will switch to a user programmable application. As factory default the **EasyScan** application is integrated.

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

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

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 15: 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 or a section of an image for the OCR function..

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**.

Starts the scan sequence.

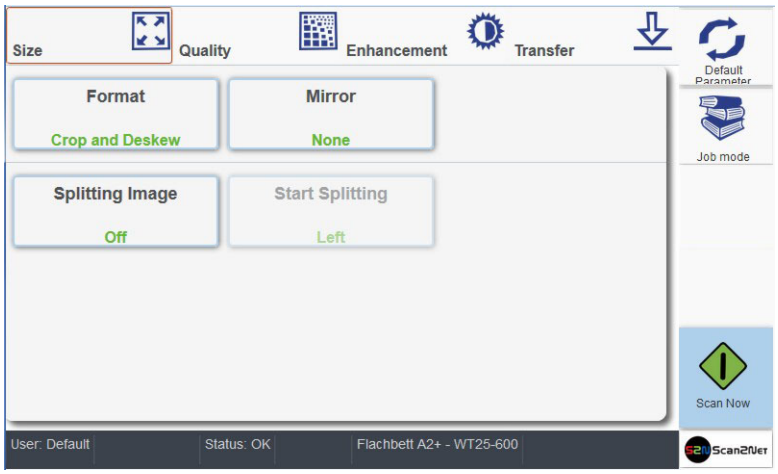
This icon is displayed if an image has been marked in the list for rescanning. Only active in **Job Mode**.

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

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

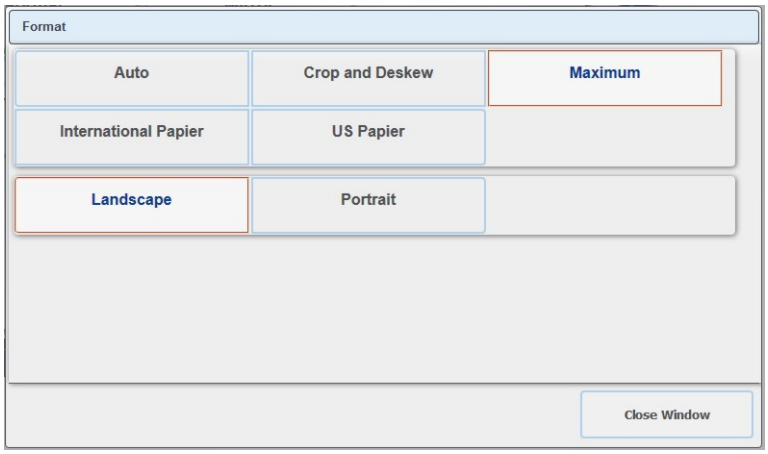
C.2.1 Size

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



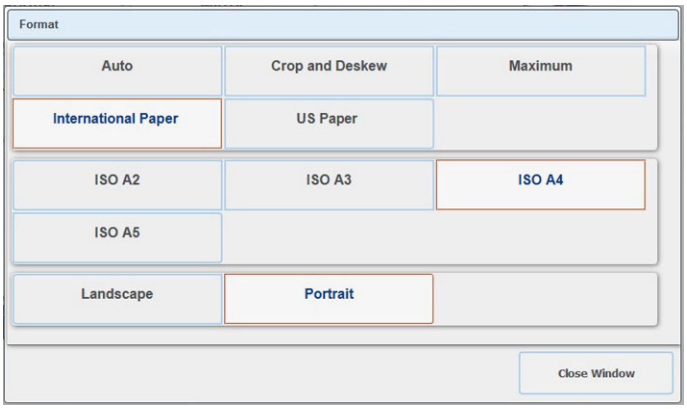
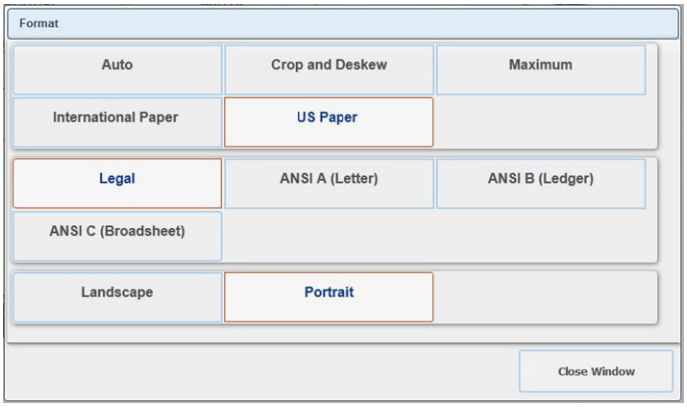
Picture 16: Menu with Size parameters

C.2.1.1 Format

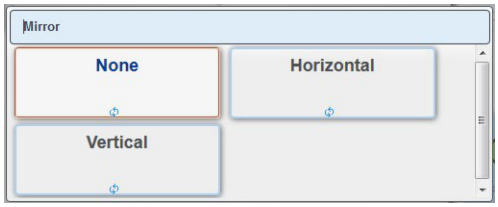


Picture 17: Select document mode

Format	Function
Auto	The complete scan area will be scanned. 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.

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. **Portrait**: Scans the maximum scan area in portrait orientation. The resulting image will not be reduced in its size. The image may contain black border areas, if the document is smaller than the maximum scan area.
International Paper	When selecting **International Paper** the window will be extended and shows the available ISO (=DIN) document sizes and selectors for **Landscape** and **Portrait** orientation. 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.
US Paper	When selecting **US Paper** the window will be extended and shows the available ANSI document sizes and selectors for **Landscape** and **Portrait** orientation.  All formats are positioned symmetrically to the horizontal middle of the document input.

C.2.1.2 Mirror



Picture 18: 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 19: 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 20: Defines the splitting function start page

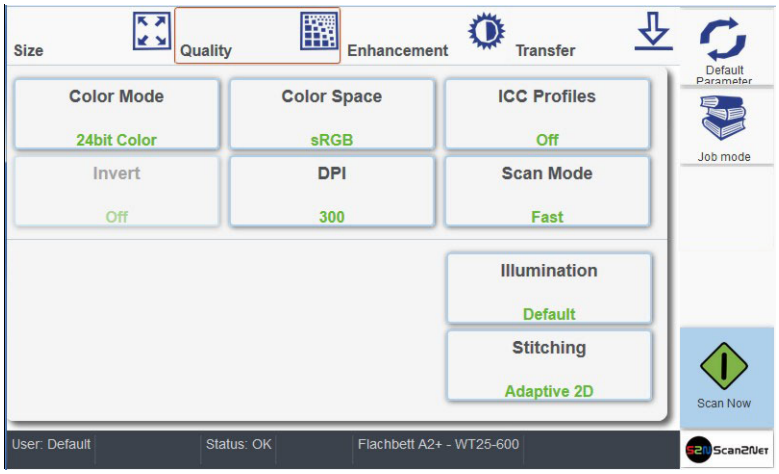
Defines the start page if **Splitting Image** is set to **Auto**.

Left Sets the left part of the split image as start page.

Right Sets the right part of the split image as start page.

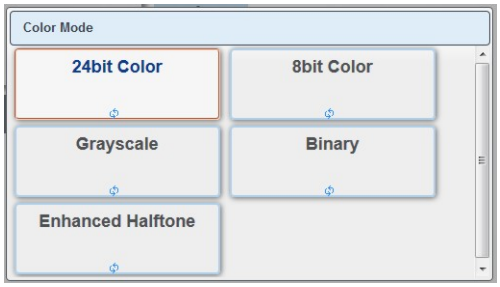
C.2.2 Quality

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



Picture 21: Menu with Quality parameters

C.2.2.1 Color Mode



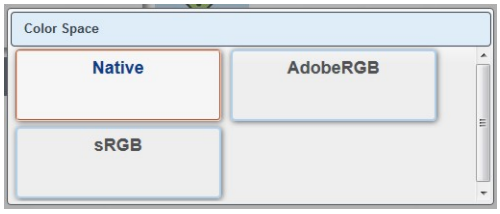
Picture 22: Available color modes

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 23: Color Space

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

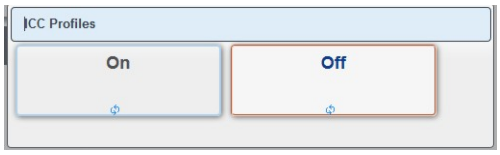
Touch the button to select the color space.

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 24: Activates ICC profile embedding

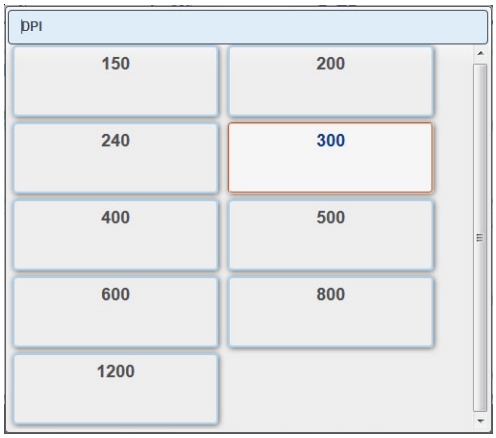
Touch **On** to activate the ICC profile for the external monitor.

C.2.2.4 Invert

Picture 25: Invert function

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

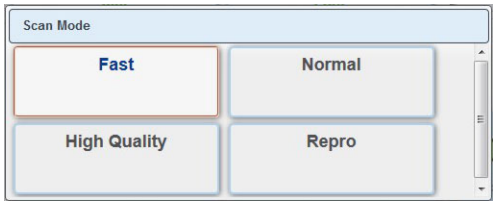
C.2.2.5 DPI



Picture 26: 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 27: Scan modes of the scanner

Fast	Scans with standard speed. The scan speed depends on the selected scan resolution. That means, the higher the resolution, the lower the scan speed.
Normal	Scans with the half of the standard scan speed.
High Quality	Reduces the scan speed to the quarter of the standard scan speed but improves the scanning quality.
Repro	Scans with an eighth of the standard scan speed

C.2.2.7 Illumination

Illumination allows selecting from four different illumination settings for the scan sequence.

Picture 28: Illumination modes

Default: Scans with default illumination setting. This setting is recommended for flat documents without a surface structure.

Top: Only the top lamp is illuminated. The resulting image shows the object as illuminated from the top side.

Bottom: Only the bottom is illuminated. The resulting image shows the object as illuminated from the bottom side.

3D Light: The resulting image shows the surface of the scanned object with a 3D effect. This improves the results while scanning objects with a relief-like surface. For example coins or objects with imprinting.

Backlight: WideTEK® 25 only — To be used with the optional backlight cover. Recommended when scanning transparent source material, like X-rays.

C.2.2.8 Stitching

Stitching allows selecting one of two stitching methods.

Picture 29: Available stitching methods

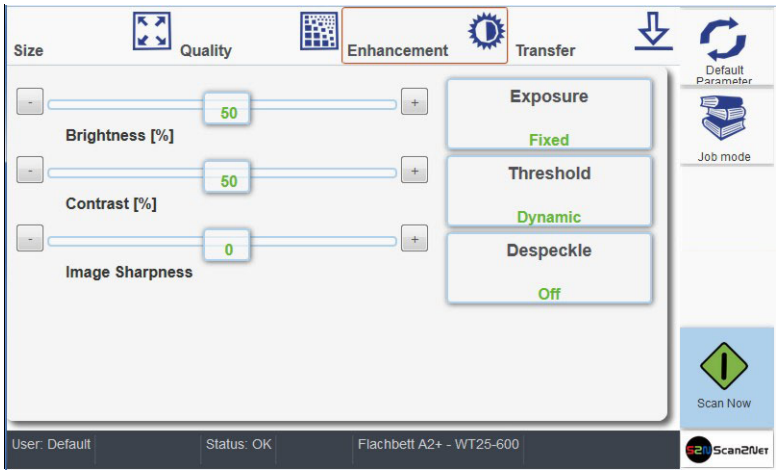
The default setting is **Adaptive 2D**.

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 30: 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.

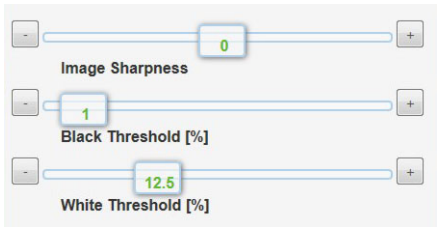
Otherwise touch the buttons **+** (plus) or **–** (minus) to modify the value.

C.2.3.4 Exposure

Picture 31: Exposures modes

Fixed switches the function off.

If **Auto** is selected, the sliders of Enhancement parameters (Picture 30) change.



Picture 32: 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 33: Threshold selector

If color mode is set to either binary or enhanced halftone, **Threshhold** 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 34: 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.

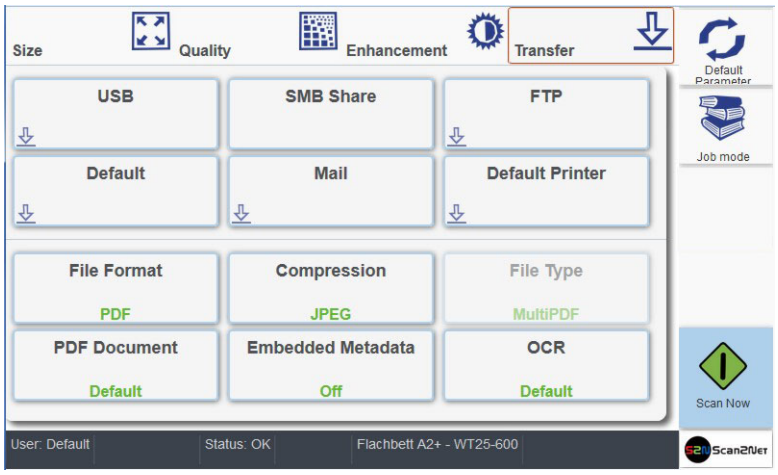
4x4 Positive Activates the function.

Off Disables the function.

C.2.4 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 35: 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.2.4.1 describes how an entry can be changed.

C.2.4.1 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 36: Keyboard, displayed on the touchscreen

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

Use the keyboard to modify the entry.

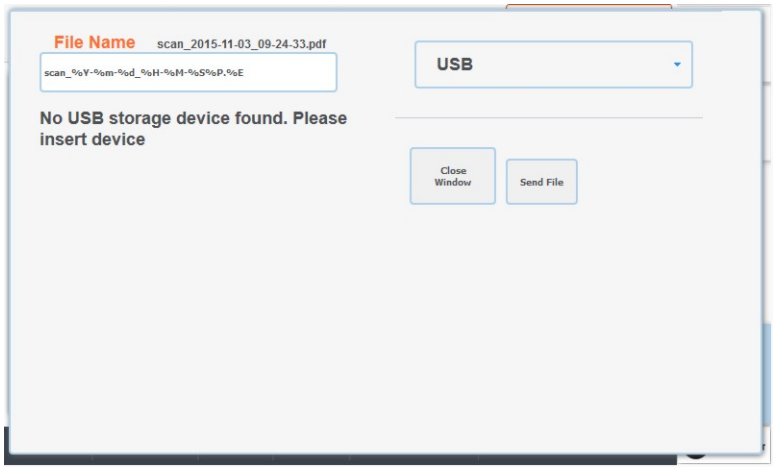
To confirm changes, touch the **OK** button.

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

C.2.4.2 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 37: 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.2.4.1.

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.

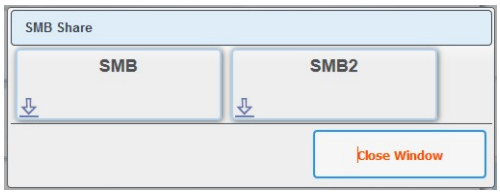
Select the directory. Touch **OK** to confirm or touch **Cancel** to return without changes.

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 15).
Send File	Touch here to send the file to the selected transfer target.

C.2.4.3 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 38: 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.2.4.1 describes how the entries can be modified.

Picture 39: 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 15).
Send File	Touch here to send the file to the selected transfer target.

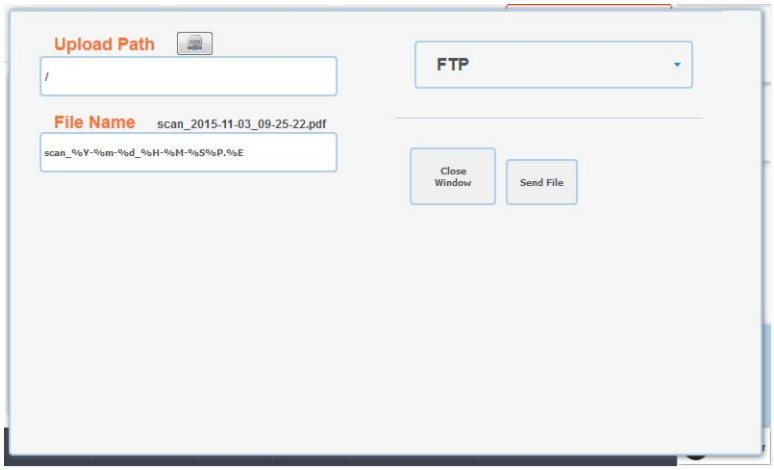
C.2.4.4 FTP

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.2.4.1 describes how the entries can be modified.



Picture 40: Entries for FTP path and file name

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 15).
Send File	Touch here to send the file to the selected transfer target.

C.2.4.5 Default

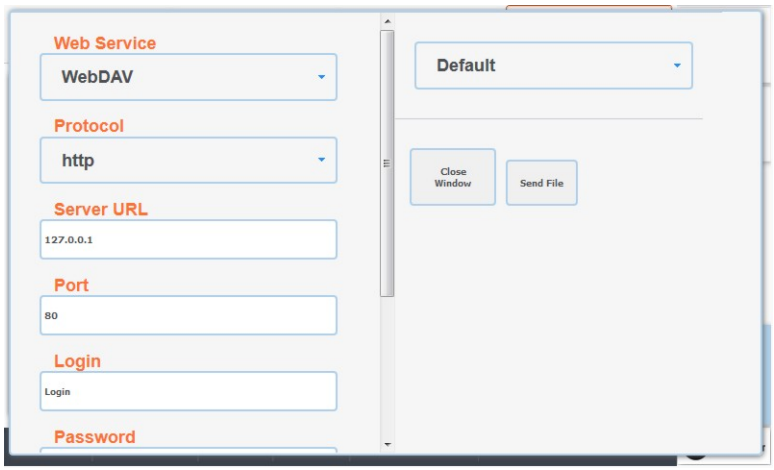
Scans directly to a defined directory in a cloud service.

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

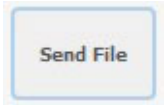
All parameters can be defined form the touchscreen.

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.2.4.1.



Picture 41: List of cloud parameters

Key	Function
	Touch here to close the window and to return to the main screen (Picture 15).
	Touch here to send the file to the selected transfer target.

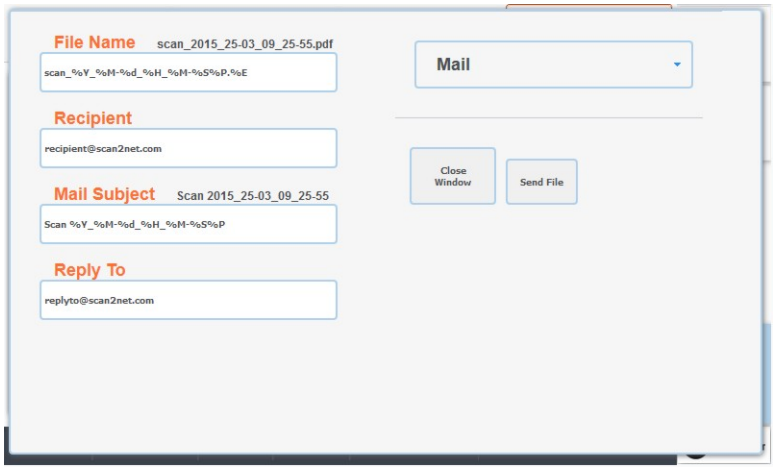
C.2.4.6 Mail

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.2.4.1 describes how the entries can be modified.



Picture 42: Mail transfer settings

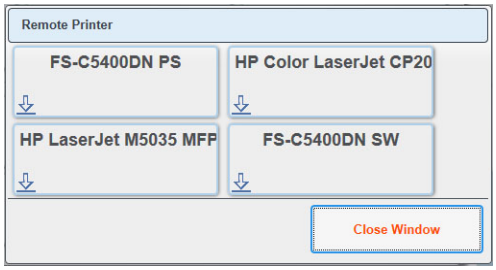
Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 15).
Send File	Touch here to send the file to the selected transfer target.

C.2.4.7 Default Printer

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

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

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

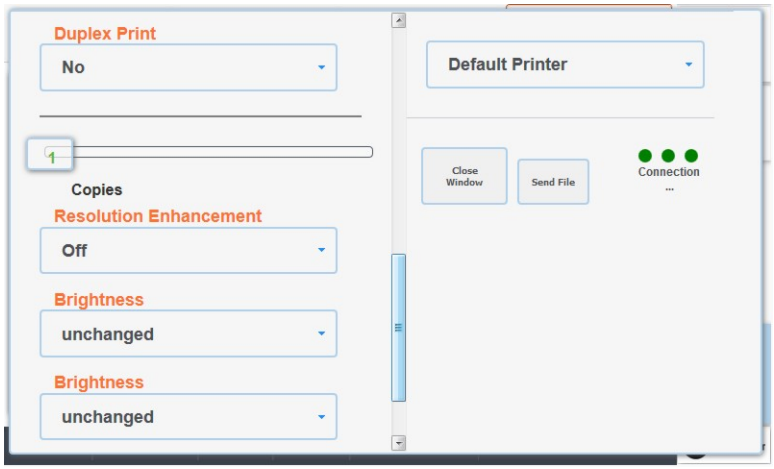


Picture 43: Available printers (example)

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.



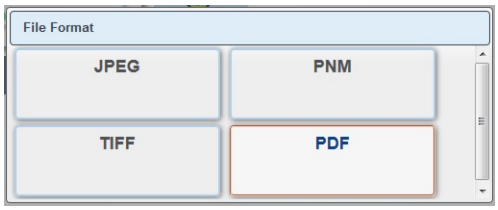
Picture 44: List of printer parameters

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

Key	Function
Close Window	Touch here to close the window and to return to the main screen (Picture 15).
Send File	Touch here to send the file to the selected transfer target.

C.2.4.8 File Format

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



Picture 45: Select file format

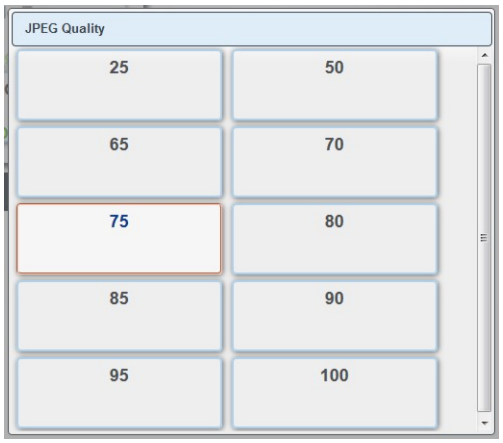
Touch the button with the desired file format.

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

C.2.4.9 Compression

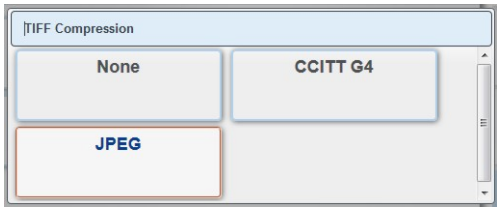
Allows the user to select the compression factor used when saving the file in the specified format. The compression factor will vary, depending on the file format selected.

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



Picture 46: JPEG compression

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

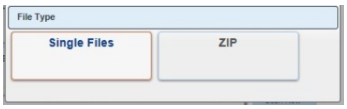
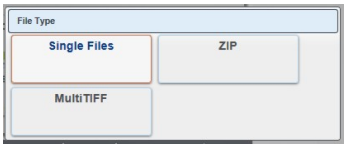


Picture 47: TIFF compression

C.2.4.10 File Type

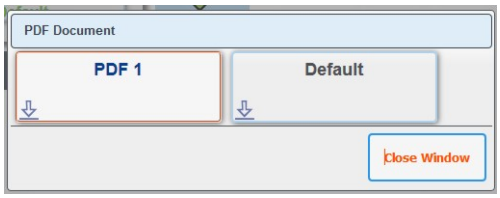
Only active if the scanner is operated in **Job Mode**.

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

File Format	File Types
JPEG	
TIFF	
PNM	
PDF	

C.2.4.11 PDF Document

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



Picture 48: Predefined PDF settings

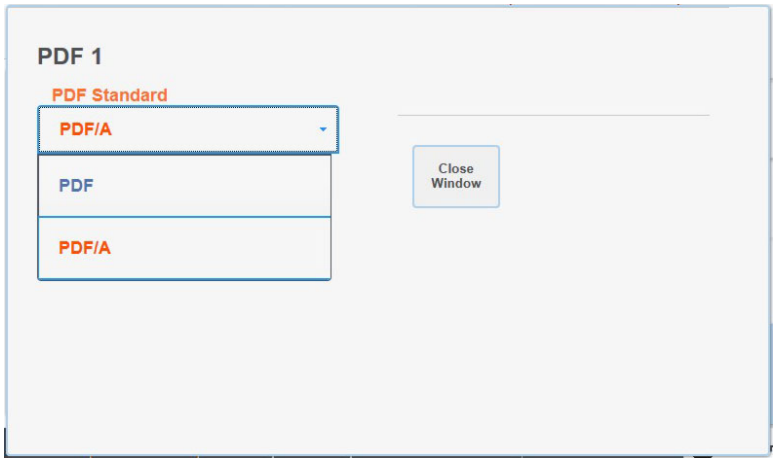
Touch the button with the desired setting. A list with available PDF formats will be displayed.

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 15).

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

Available are PDF and PDF/A.



Picture 49: List of available PDF formats

C.2.4.12 Embedded Metadata

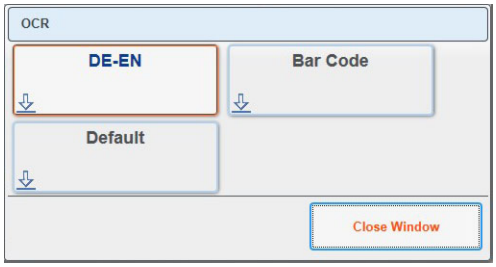
Activates the embedding of metadata to the scanned image.

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

Select **Off** to disable the function.

C.2.4.13 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.

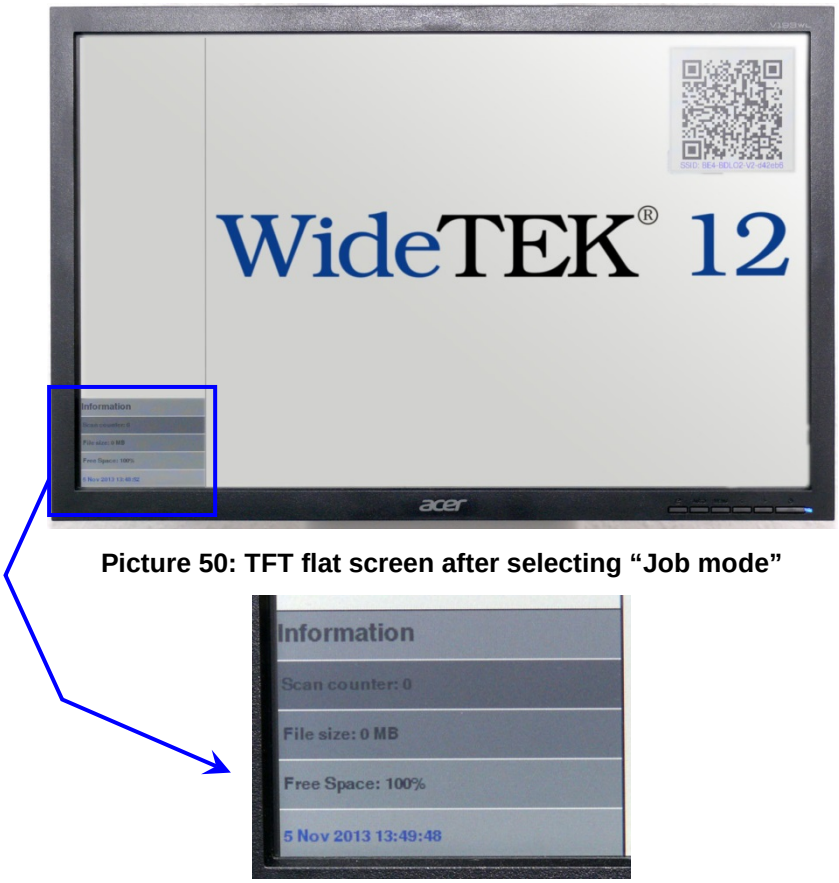
Currently available is the setting **Default.**

C.2.5 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 50: 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

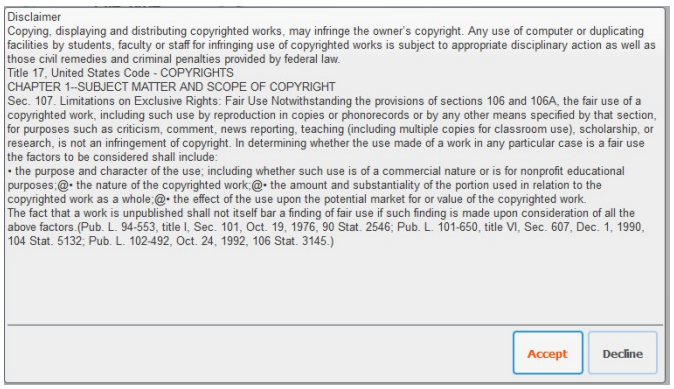
If the **Job Mode** is active, the ScanWizard start screen changes in one detail.

E:\Bild\Touchscreen\WideTEK 12_25\en
WT25_touchscreen-en_001_b.jpg
S2N_6-xx_en_006.jpg
Drehen.jpg

Picture 51: 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 52: 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 15, item 2) remain the same.

C.2.5.1 Job mode, move image

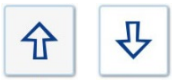
Use the upwards / downwards buttons to move the blue frame at first to the desired image.

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.2.5.2 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.

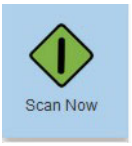
The image will be inserted at the marked position.

C.2.5.3 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.2.5.4 Job Mode, deleting an image

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

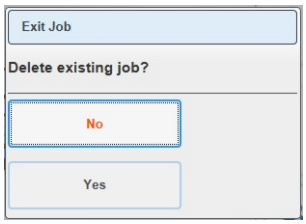
Touch the button to select the image. The image is marked with a red frame; the button itself and the up-/downwards buttons are marked with a red dotted frame.

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

C.2.5.5 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 53: 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.2.6 Zonal OCR

The scanner offers a zonal OCR function.

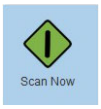
Zonal OCR means, that only the marked area will be processed by the OCR function. Text and line feed will be found only. A layout analysis will not be executed.

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

File Format: PDF (see chapter C.2.4.8)

Job Mode: Active (see chapter C.2.5)

File Type: MultiPDF (recommended) or Single Files (see chapter C.2.4.10



Touch the button in order to scan the document

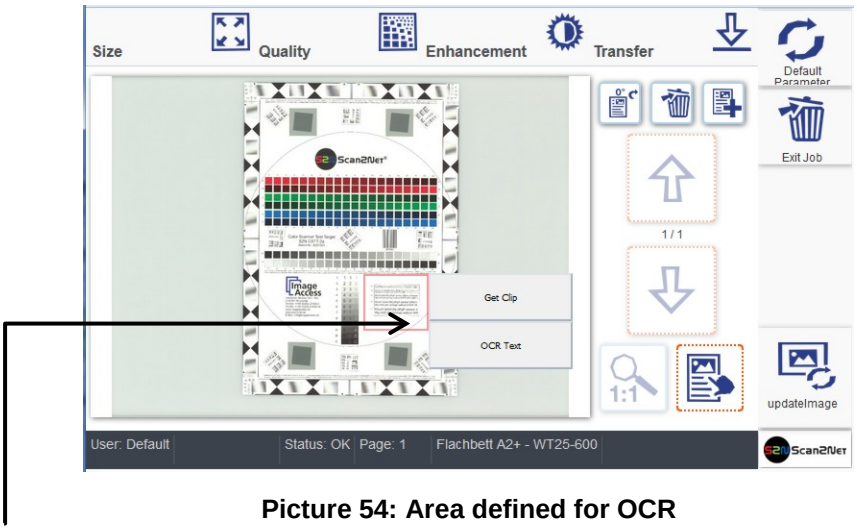
To see a preview of the scanned image, touch one of the buttons **Size**, **Quality**, **Enhancement** or **Transfer** to switch to the preview touchscreen.

Touch here to define an area to be examined by the OCR function.

The symbol gets a red dotted border.

Touch in the preview image and open a frame around the area which should examined by the OCR function.

Start pulling the frame with the upper left corner and pull the frame to the lower right corner.

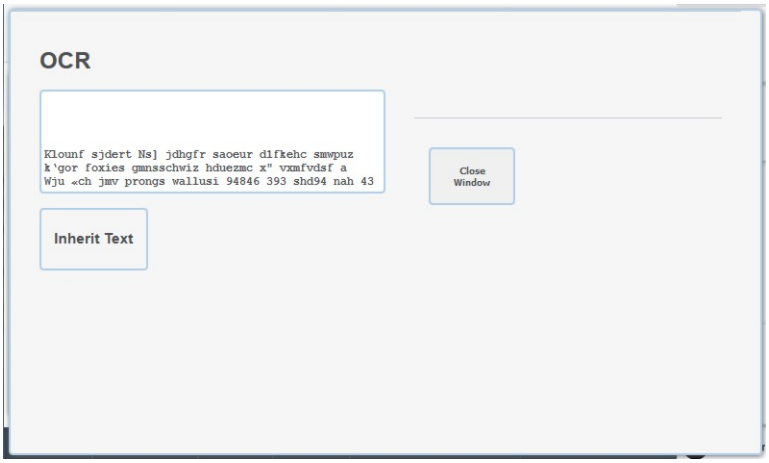


Picture 54: Area defined for OCR

A small window opens in the preview area.

Select **OCR Text** to start the OCR process.

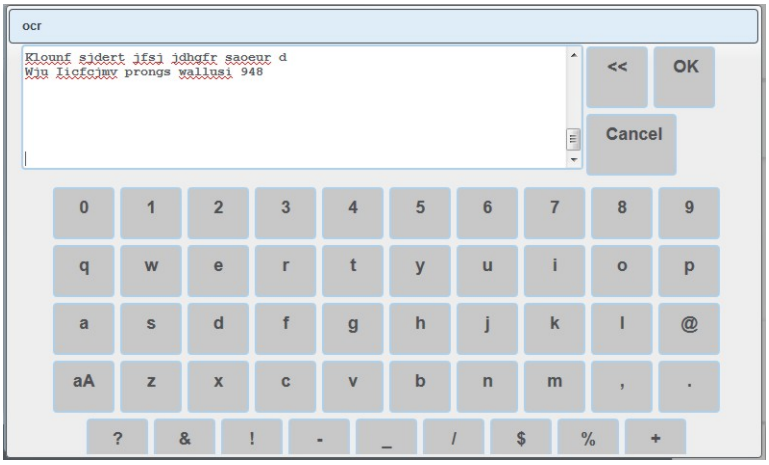
When the OCR process ends, the window changes and shows the result of the OCR process.



Picture 55: Resulting text of the OCR process

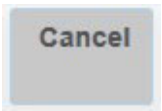
The text, resulting from the OCR process, can be edited.

Touch at an arbitrary position in the text window to start editing.



Picture 56: Text editor keyboard

Deletes the characters starting from the cursor position to the left.



Discards all changes and closes the editor.

Closes the editor. All changes will be saved.

Touch here to transfer the detected text elements as second layer to the PDF file. This allows searching in the PDF file for the detected words later.

Touch here before starting the next scan

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 14).

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.

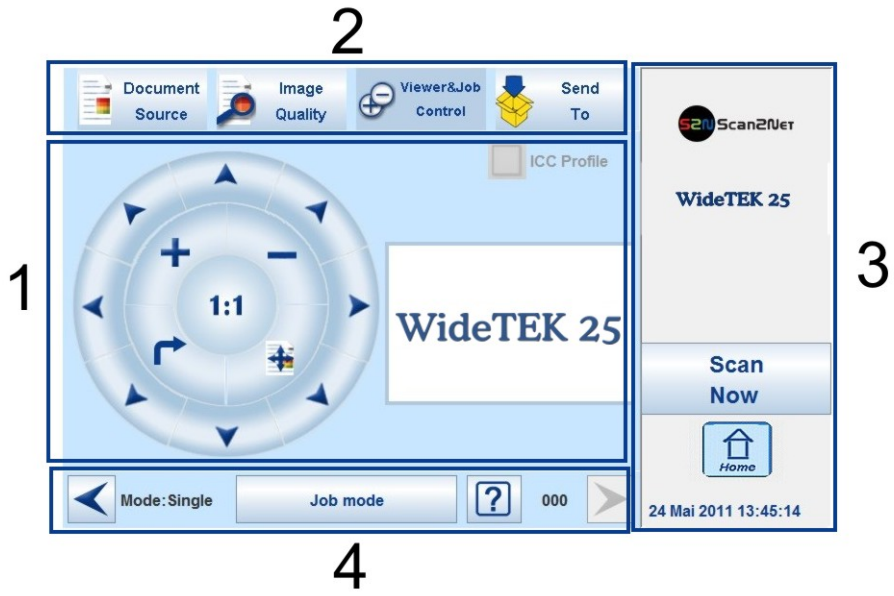
C.3 Scan2Net® Start Screen

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® 25 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 57: 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 depending on the selected control field in section 2. More specific information can be found in the respective chapters.

C.3.1 Control Fields of the Touchscreen

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.

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.

Touch this button to return to the main menu.

Touch this button to set all parameters to default values.

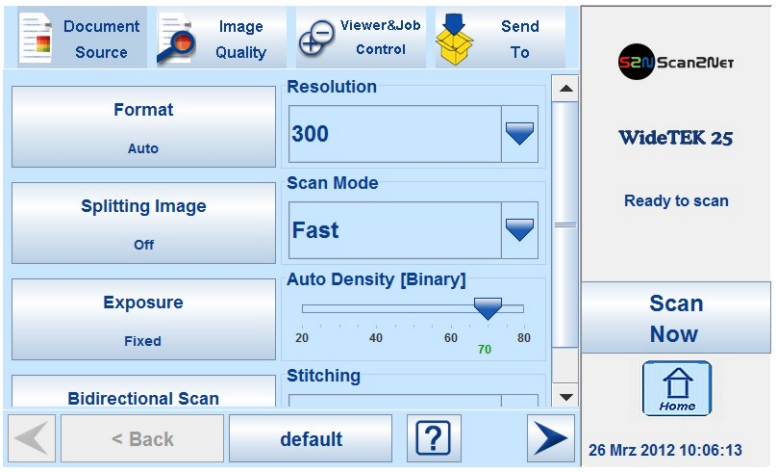
Touching this button opens an additional window. The additional window contains short information about the available functions.

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 14).

C.4 Touchscreen – Document Source

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

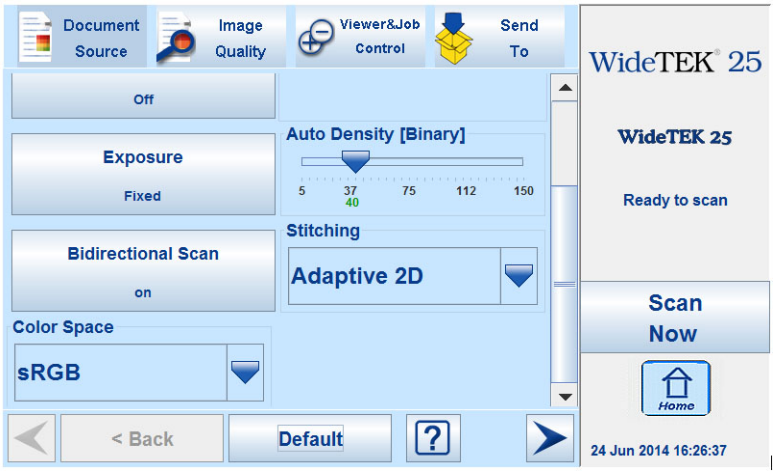


Picture 58: Document Source screen, part 1

The number of menu items and the content of the menus can vary.

This depends on the selected setup. The setup can be changed by the administrator in the **Poweruser** menu.

The following screens come from a scanner with all options activated.

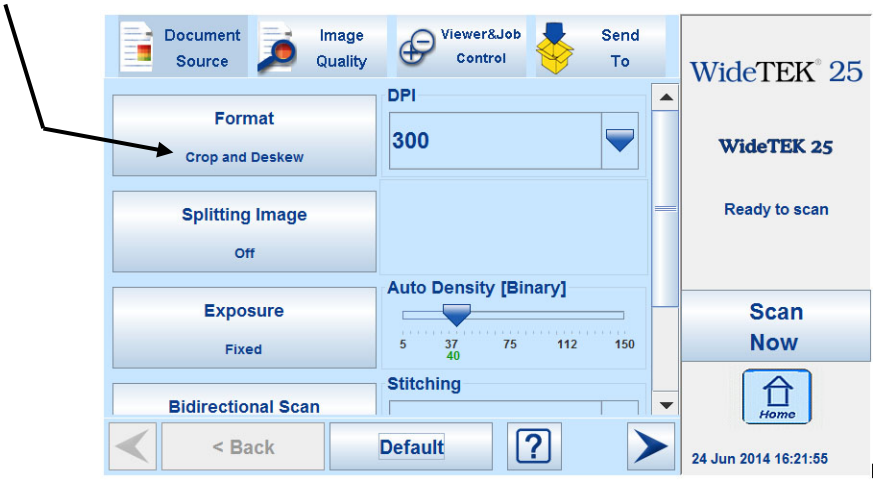


Picture 59: Document Source screen, part 2

C.4.1 Format

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

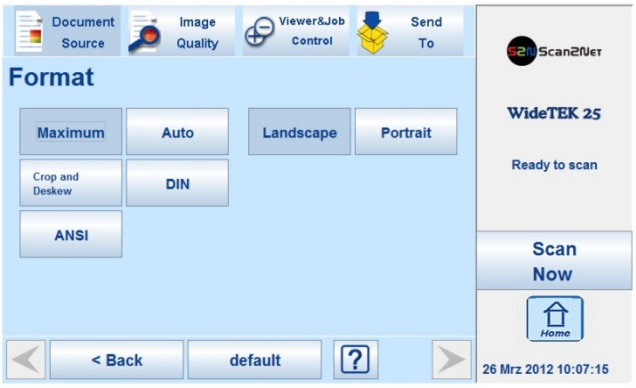
The bottom line of the button **Format** shows the current format setting.



Picture 60: Selector for Format settings

The following subchapters describe the available formats.

C.4.1.1 Maximum



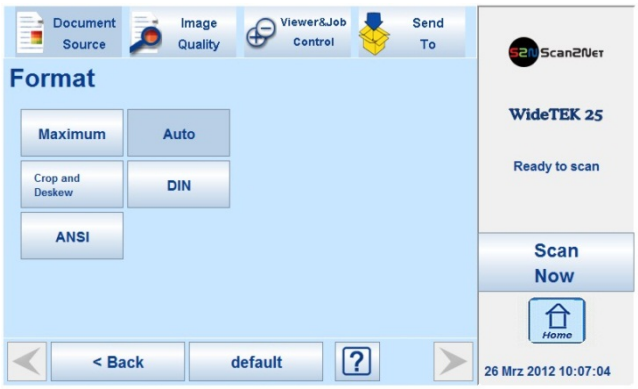
Picture 61: Format mode Maximum

Landscape Scans the maximum scan area in landscape orientation.

Portrait Scans the maximum area in portrait.

C.4.1.2 Auto

The complete scan area will be scanned.



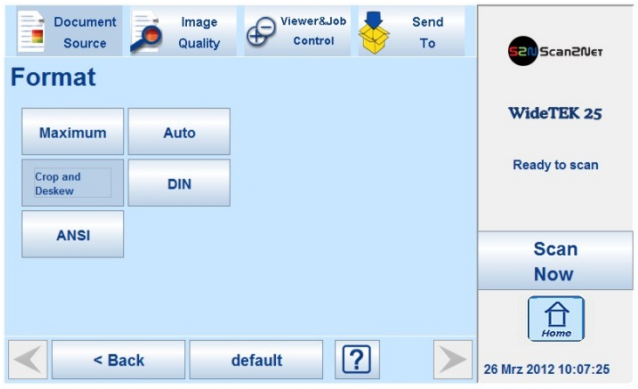
Picture 62: Format mode Auto

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.4.1.3 Crop and Deskew

The complete scan area will be scanned.

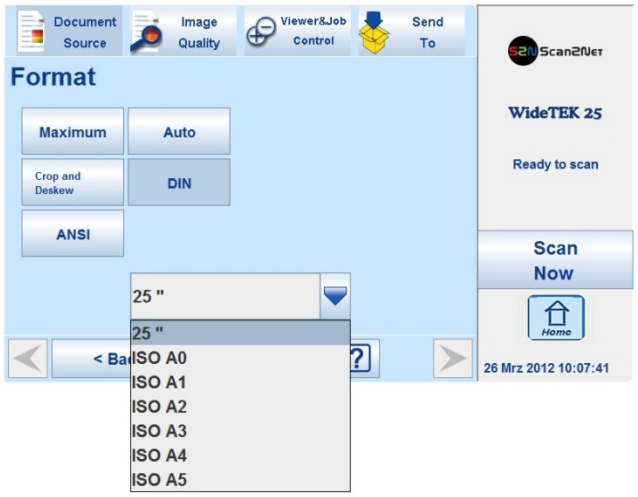


Picture 63: Format mode Crop and Deskew

If a document is not placed perfectly aligned horizontally and vertically, this function will correct the alignment.

The resulting image shows the aligned document without any border.

C.4.1.4 DIN



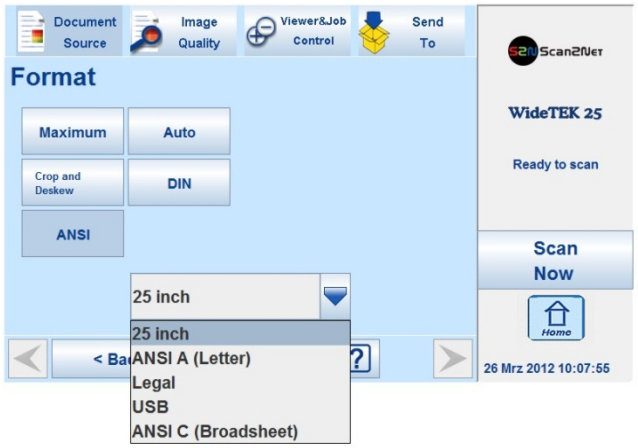
Picture 64: Format mode DIN

When selecting DIN, an additional small window opens.

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

All formats are positioned symmetrically to the horizontal middle of the glass plate. Some markings at the margin of the glass plate help to find the right position for the document.

C.4.1.5 ANSI



Picture 65: Format mode ANSI

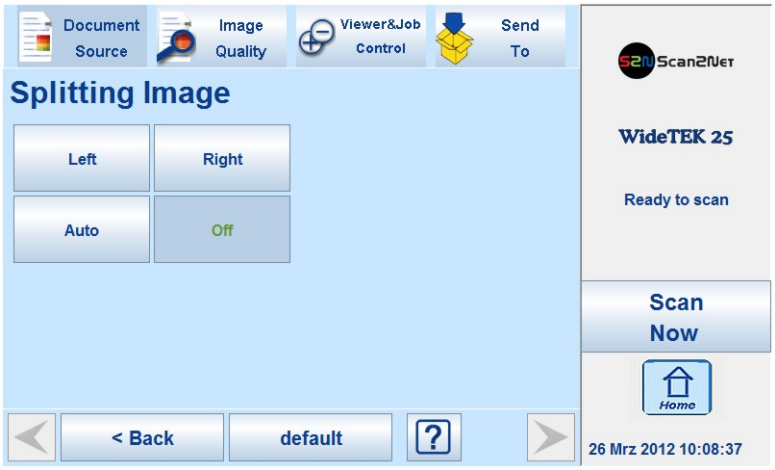
When selecting ANSI, an additional small window opens.

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

All formats are positioned symmetrically to the horizontal middle of the glass plate. Some markings at the margin of the glass plate help to find the right position for the document.

C.4.2 Splitting Image

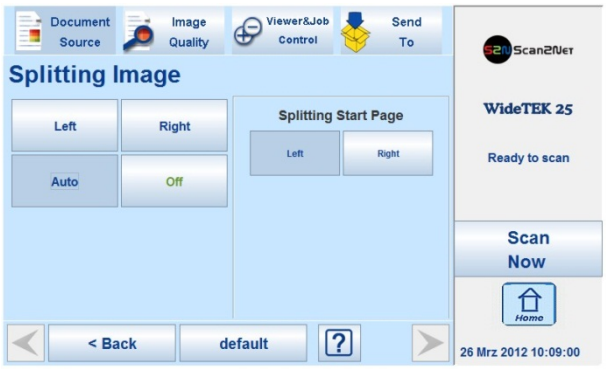
The button **Splitting Image** is used to select splitting the document scanned for the output images.



Picture 66: Splitting Image

Left The selected format will be scanned completely. Only the left half of the selected format will be displayed.

Right The selected format will be scanned completely. Only the right half of the selected format will be displayed.



Picture 67: Selecting the „Splitting Start Page“

Auto

The complete scan area will be scanned. The resulting image size will be detected and it will be divided into two symmetrical parts. Both parts will be displayed successively as separate images.

Press **Scan now** again to show the second part of the document.

If selecting **Auto,** an additional selector opens. Here the page that will be displayed first can be selected as a start page.

C.4.2.1 Scanning of bound documents

If the distance between the glass plate and the book binding curvature is larger than two millimeters activate the function **Page Splitting**.

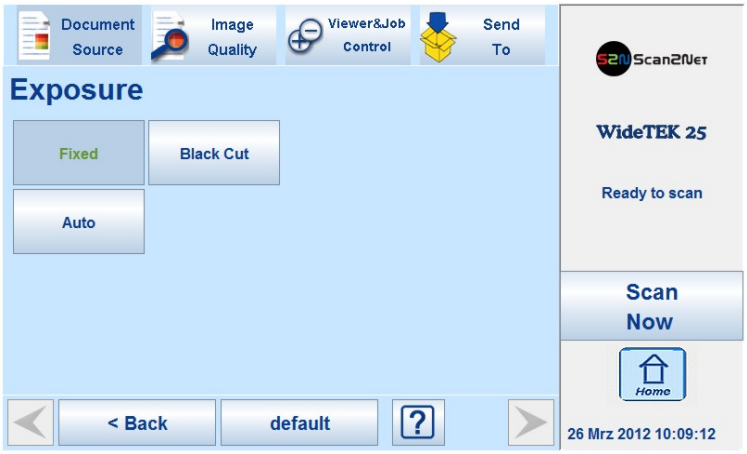
Place the book binding in the horizontal middle of the glass plate.

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

C.4.3 Exposure

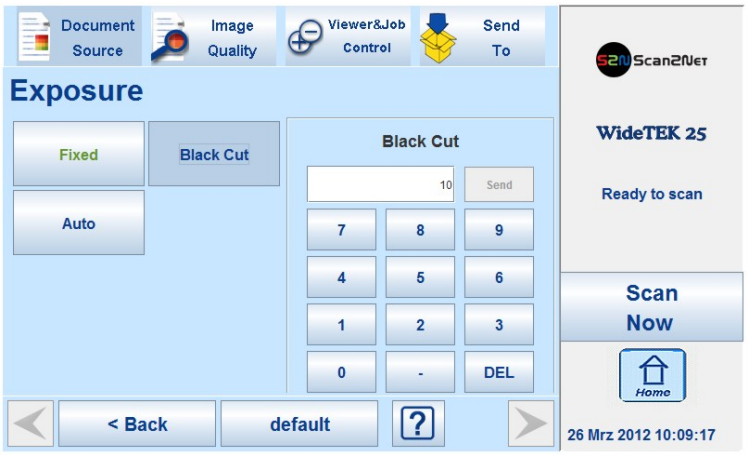
The **Exposure** screen allows selecting the functions **Black Cut** and **Auto**.

Fixed switches the function off.



Picture 68: Exposure Modes

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



Picture 69: 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.

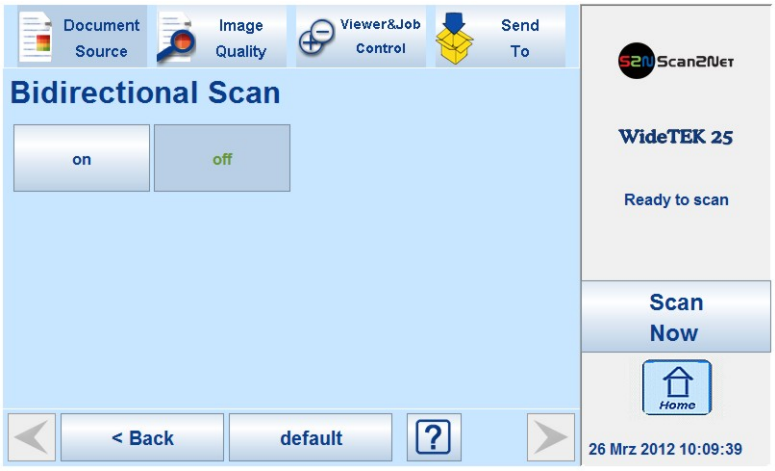
To set a new value, touch in the line of the displayed value and erase the value with the **DEL** button.

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

C.4.4 Bidirectional Scan

Both scanners are able to scan in unidirectional direction and in bidirectional direction.

Activating the bidirectional scan reduces the sequence time and results in a higher document throughput.



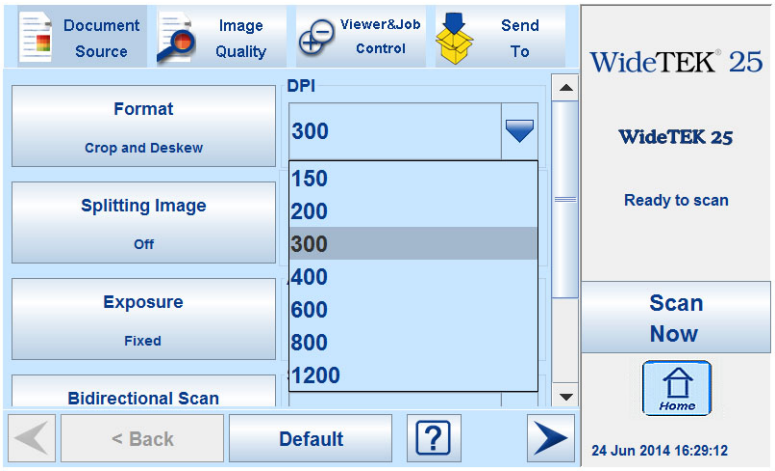
Picture 70: Selecting Bidirectional Scan

On The camera stops after scanning at the front side of the scanning area and does not return to the start position. The next scan will start from the front side. After scanning the camera stops at the initial start position at the back end of the scanning area.

Off (default) The camera returns after scanning the selected scan area to the initial start position.

C.4.5 DPI

The **DPI** setting allows selecting a resolution from a list of resolution values supported by the WideTEK 25 scanner.

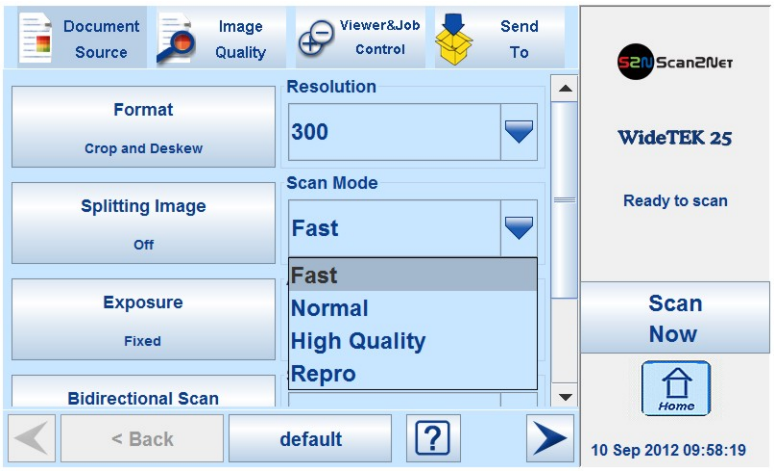


Picture 71: List of Resolutions

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.4.6 Scan Mode

The **Scan Mode** selector allows the user to select from four possible scan modes.



Picture 72: Available Scan Modes

Fast Scans with standard scan speed, depending on the selected resolution.

Normal Scans with the half of the standard scan speed.

High Quality Scans with a quarter of the standard scan speed.

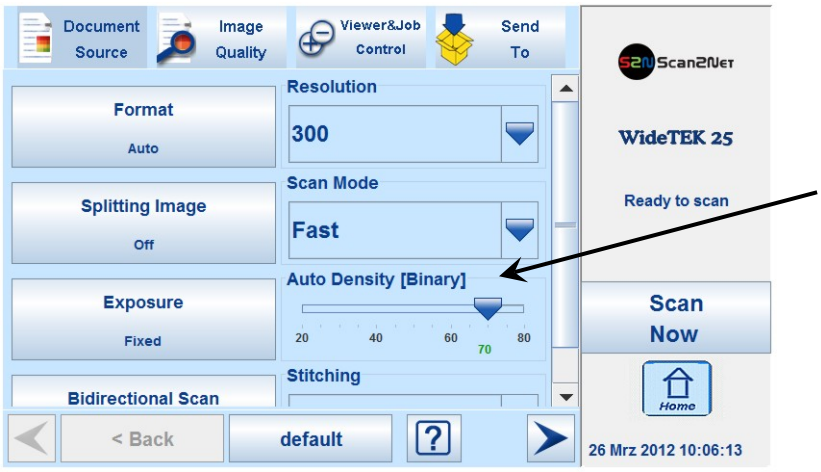
Repro Scans with an eighth of the standard scan speed

The scan speed depends in general from the selected resolution and decreases with increasing resolution.

C.4.7 Auto Density [Binary]

This control specifies the value used to decide whether a pixel belongs to the background or to the document.

Default value: 70



Picture 73: Controller for Auto Density

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

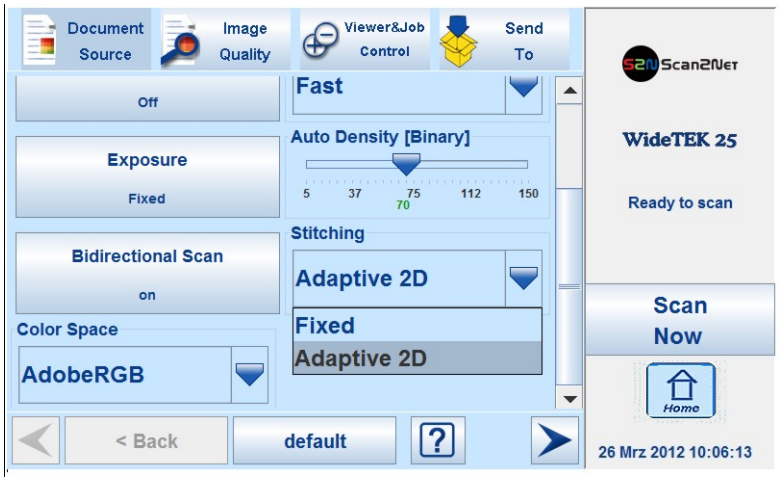
In general: Valid is, the higher the selected value, the higher must be the contrast between document and background.

The default value is marked with the green colored character “70” at the scale.

C.4.8 Stitching

Only with WideTEK® 25

The **Stitching** selector allows selecting the Stitching method.



Picture 74: List of stitching methods

Fixed Select this setting when scanning plain documents.

Adaptive 2D Default setting.

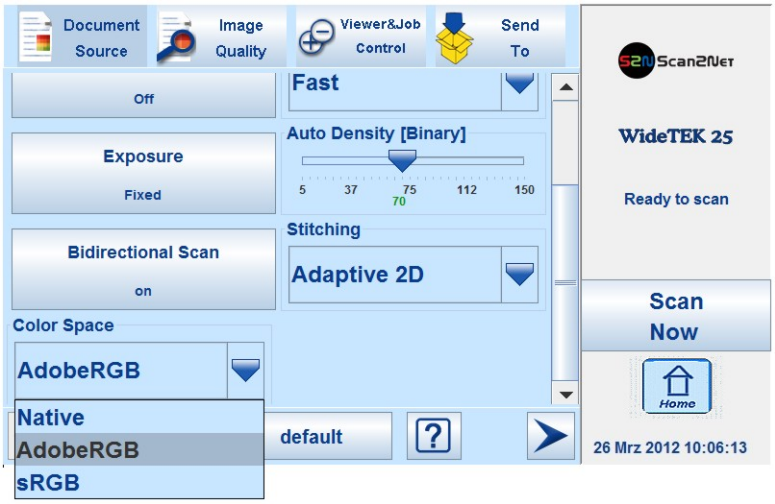
Select this setting when scanning documents with uneven structured surface, e.g. multiple folded papers. The image data will be merged dynamically. The time until the image is displayed will increase a little.

Note: To avoid problems with the stitching function, it is recommended when scanning books not to place the book binding in the horizontal middle of the glass plate.

If the distance between the glass plate and the book binding curvature is larger than two millimeters activate the function **Page Splitting** (chapter C.4.2).

C.4.9 Color Space

The **Color Space** selector allows selecting from three pre-defined color spaces for the images.



Picture 75: List of predefined color spaces

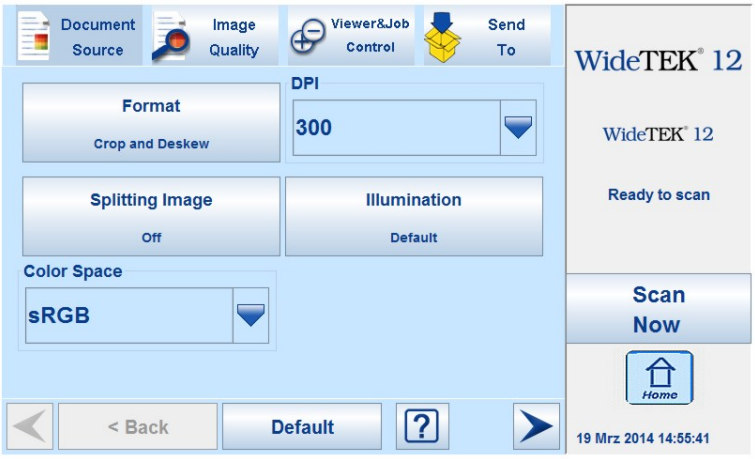
Native The color space of the scanner. The Gamma value can be modified with a slider in the **Image Quality** screen. Chapter C.5.5 gives more information.

Adobe RGB Default color space. The Gamma value is locked.

sRGB Selects the color space sRGB. The Gamma value is locked.

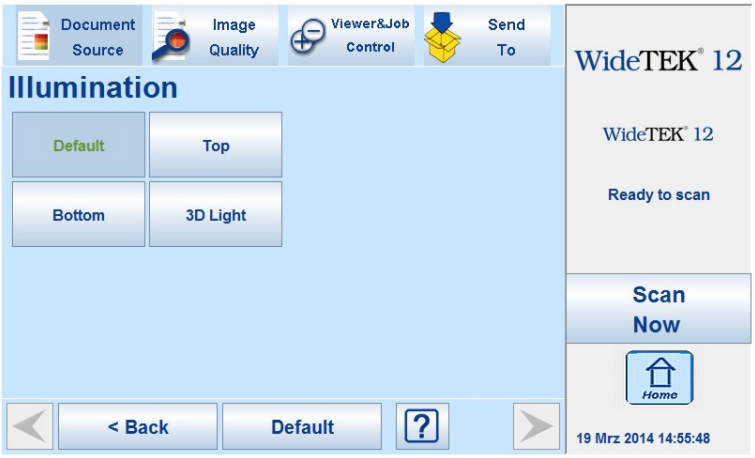
C.4.10 Illumination

The **Illumination** selector allows selecting from four different illumination settings for the scan sequence.



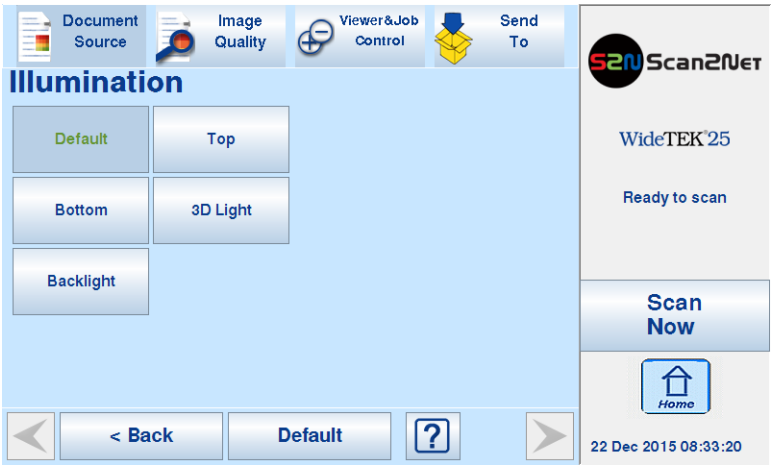
Picture 76: Menu with Illumination selector

Touch the selector to see the available settings.



Picture 77: WideTEK® 12 settings for illumination

When **Illumination** is set to **3D Light**, the **Image Quality** screen shows an additional slider named **3D Light**. See chapter C.5.11 for information.



Picture 78: WideTEK® 25 settings for illumination

Default: Scans with default illumination setting. This setting is recommended for flat documents and objects without a surface structure.

Top: The resulting image shows the object as illuminated from the top side.

Bottom: The resulting image shows the object as illuminated from the bottom side.

3D Light: The resulting image shows the surface of the scanned object with a 3D effect. This improves the results while scanning objects with a relief-like surface. For example coins or objects with imprinting.

Examples: Coins scanned without **3D Light** (left coin of each pair)/ with **3D Light** (right coin of each pair)

Additionally to the four settings the WideTEK® 25 scanner shows in the menu a fifth item:

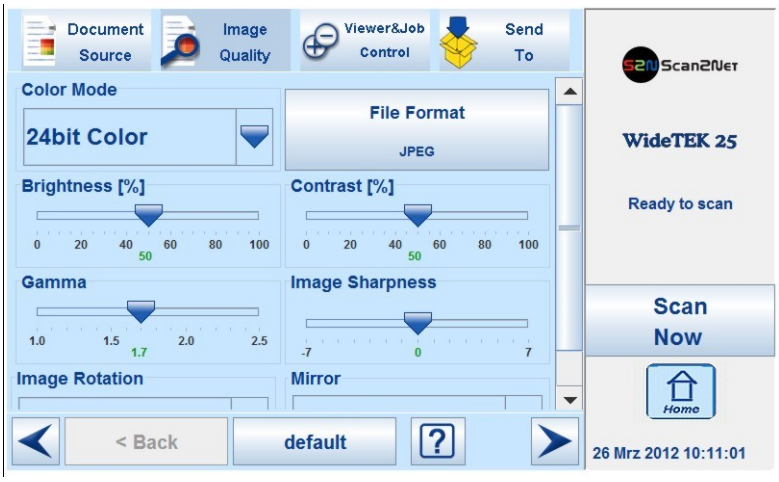
Backlight: The optional backlight unit must be installed instead of the standard cover. The backlight unit has an integrated illumination, which is powered-on with a separate switch.

If **Backlight** is selected, the camera illumination remains off while scanning.

The **Backlight** mode is recommended when scanning transparent sources, e.g. X-rays.

C.5 Touchscreen – Image Quality

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



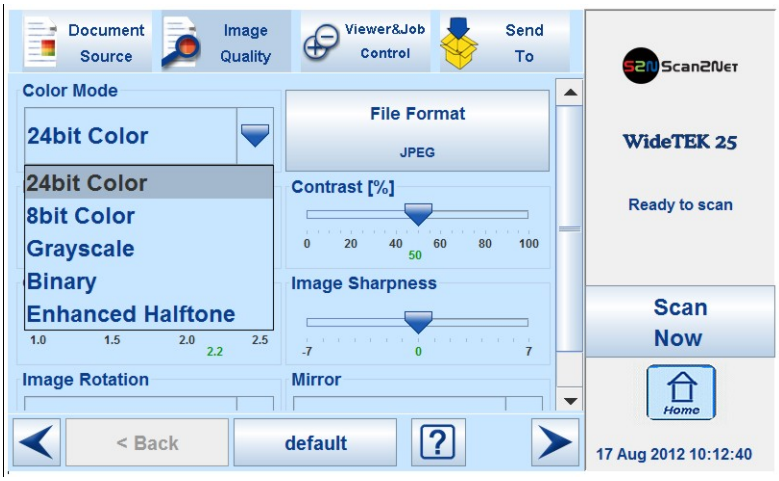
Picture 79: Image Quality, screen 1

In color mode **Binary**, the menu items will be extended with **Invert** and **Despeckle**.

Picture 80: Image Quality, screen 2

C.5.1 Color Mode

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



Picture 81: List of Color Modes

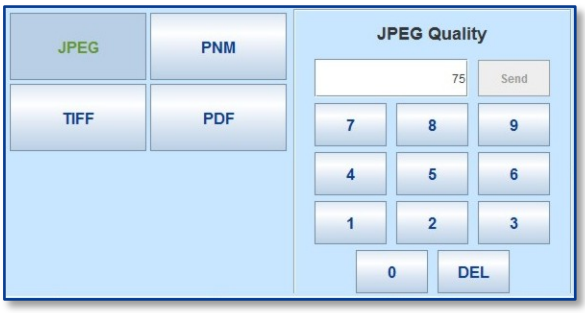
Touch the title of the desired color mode to select the mode. The list closes subsequently.

Picture 81 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



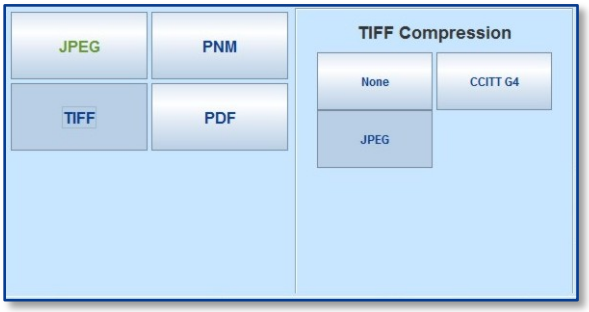
Picture 82: Submenu File Format JPEG

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 83: 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.

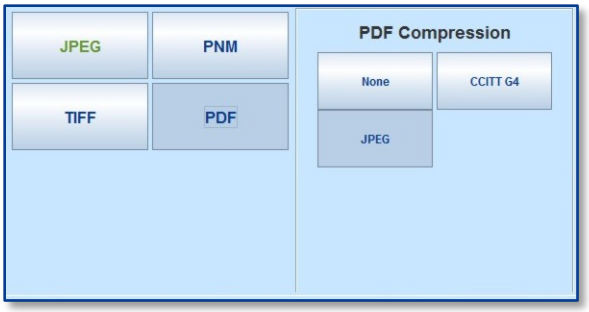
None Disables the data compression.

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 above).



Picture 84: Submenu File Format PDF

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

C.5.3 Brightness

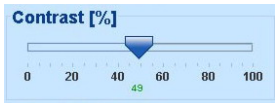
Picture 85: Brightness slider

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 86: 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 Gamma

Picture 87: Gamma slider

Note: This slider is only available when **Color Space** is set to **Native**. (Chapter C.4.9)

The **Gamma** slider defines the gamma correction directly inside the camera electronics. A value of 1.7 is a good approximation for most documents.

Higher gamma values show more details in dark areas and compress bright areas of the image.

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

C.5.6 Image Sharpness

Picture 88: 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.

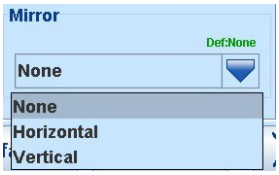
Move the slider indicator to the desired position to set the value.

C.5.7 Image Rotation

Picture 89: 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.5.8 Mirror

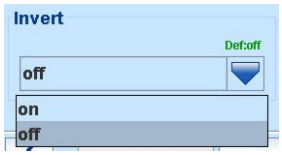


Picture 90: Mirror

This control mirrors the image along the selected mirror axis.

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

C.5.9 Invert



Picture 91: Invert

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

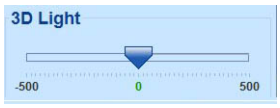
C.5.10 Despeckle

Picture 92: Despeckle

Only available in **Binary** color mode.

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

C.5.11 3D Light



Picture 93: 3D Light

Only available if **Illumination** (chapter C.4.10) is set to **3D Light**.

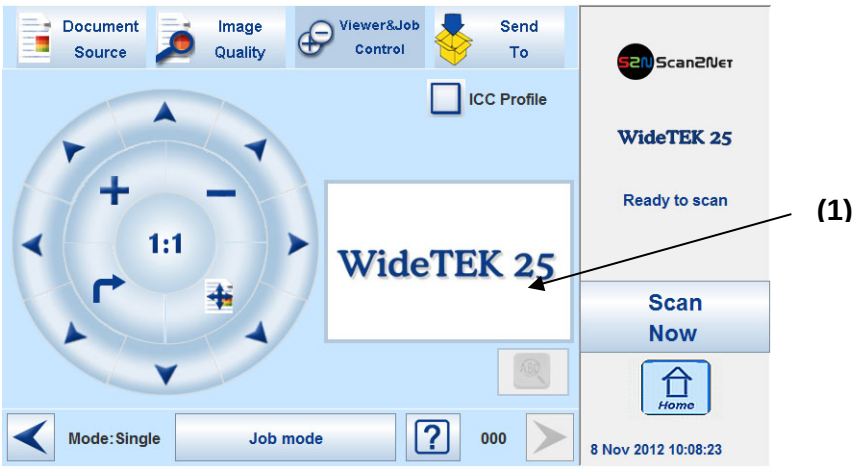
The **3D Light** slider moves the “position” of the light source. A positive value illuminates the objects from the top side; a negative value illuminates the object from the bottom side.

Examples for different settings of **3D Light**:

No 3D Light	3D Light = -500	3D Light = 500
		

C.6 Touchscreen – Viewer&Job Control

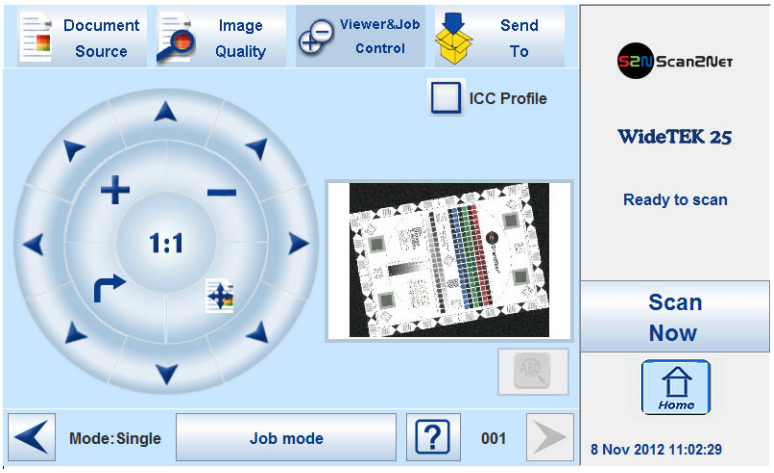
The **Viewer Control** screen allows the operator to control and modify the image on an external TFT flat screen. The external screen can be connected to the scanner at the connectors at the rear side (see Picture 10, # 6 or Picture 11, # 5 or Picture 13, # 6).



Picture 94: Viewer&Job Control screen

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

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

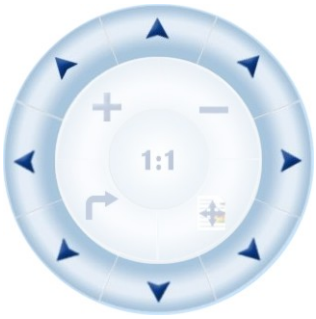


Picture 95: Scanned image in preview area

The **ICC Profile** checkbox activates the ICC profile for the external monitor.

An ICC file must be uploaded to the scanner previously. Uploading of an ICC profile can be done in the Scan2Net® user interface, setup level **Poweruser**.

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



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

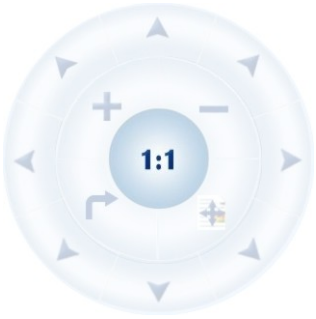
The middle circle contains the keys to

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:

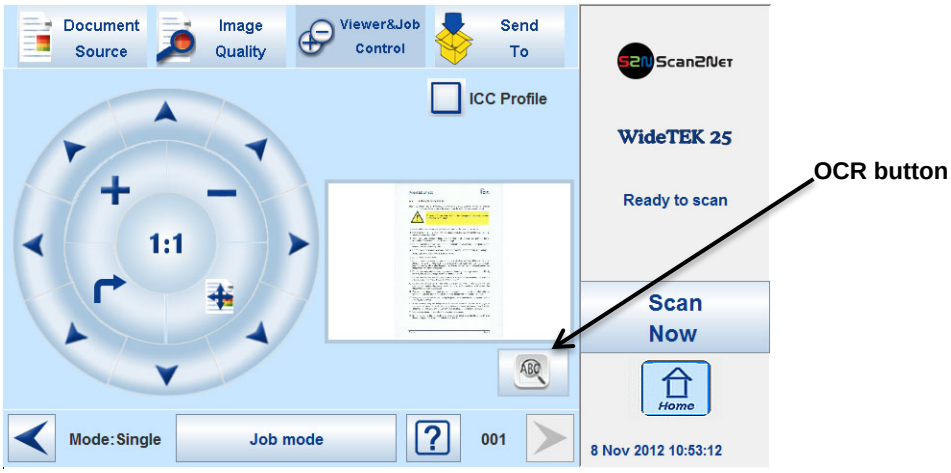
Format: Crop and deskew

Resolution: Between 300 dpi and 600 dpi.

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

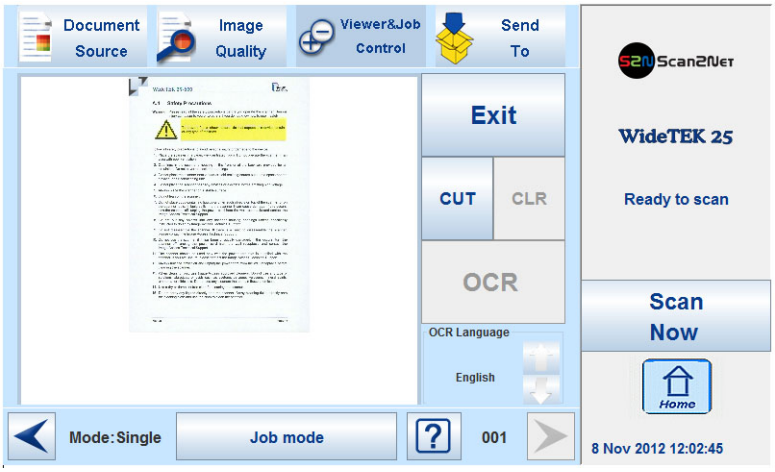
File format: PDF

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.



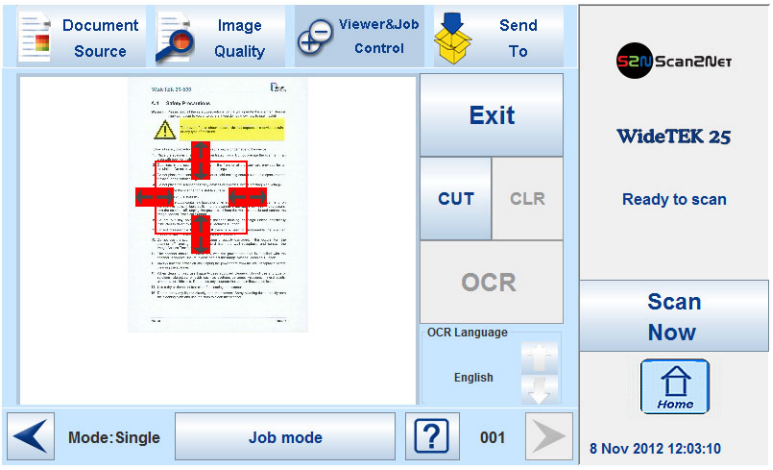
Picture 96: OCR button activated

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



Picture 97: OCR touchscreen

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



Picture 98: 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.

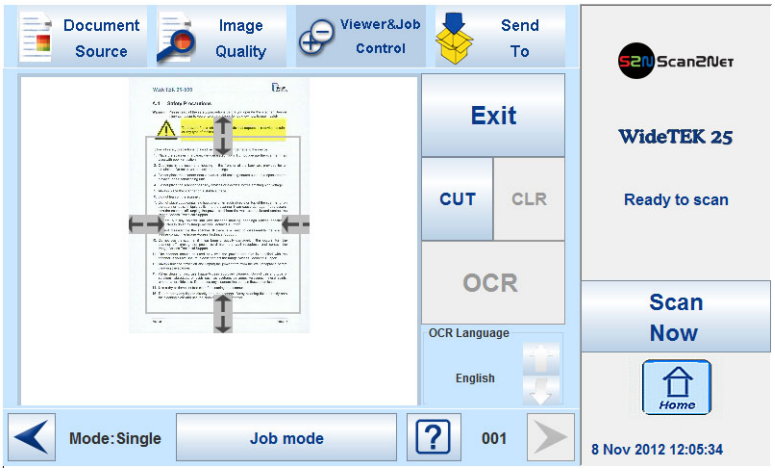
OCR Language: Press the Up/Down arrows to select a language which is used for the OCR process.

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.

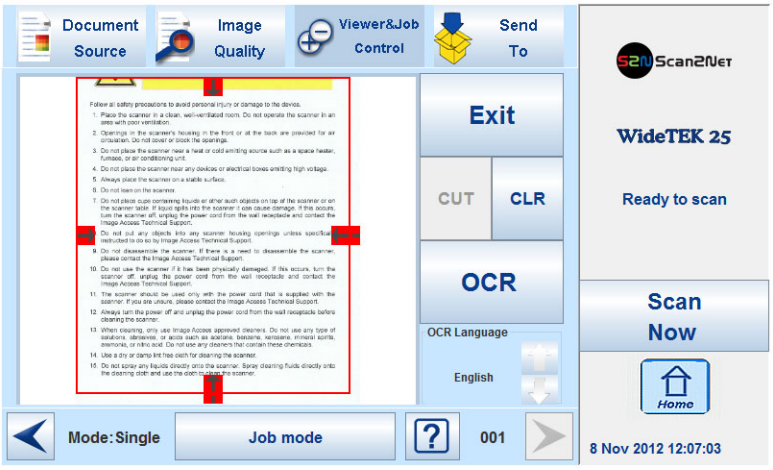
This is the first step and can be understand as a “pre”-selection.

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



Picture 99: Pre-selection area selected

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



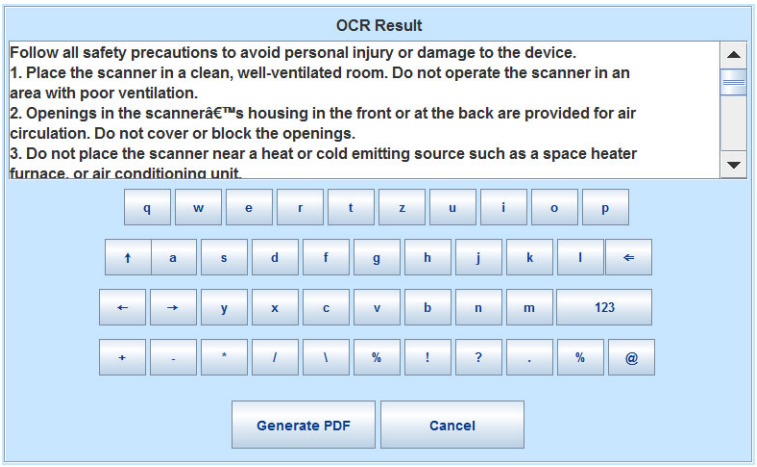
Picture 100: Selected area magnified

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 101: 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 94).

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 102: Bottom line with status

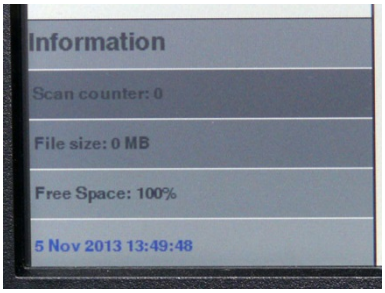
The bottom line shows

- 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 external TFT flat screen (available as option) displays an “Information Panel” at the left margin.

Picture 103: TFT flat screen after selecting “Job mode”



The information panel contains:

Counter: Number of images since starting **Job mode**.

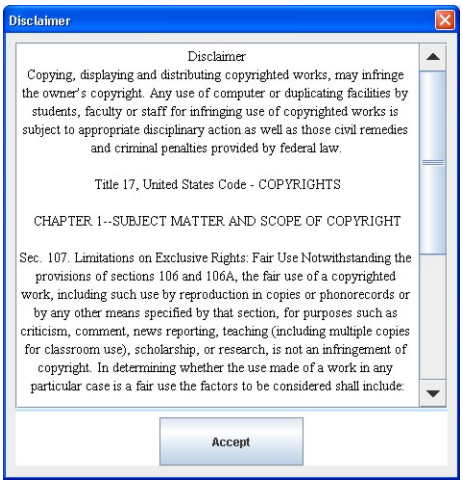
File size: Size of all scanned images since starting **Job mode**.

Free Space: Shows the remaining space to store the images.

<Date Time>: Displays the current date and time

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

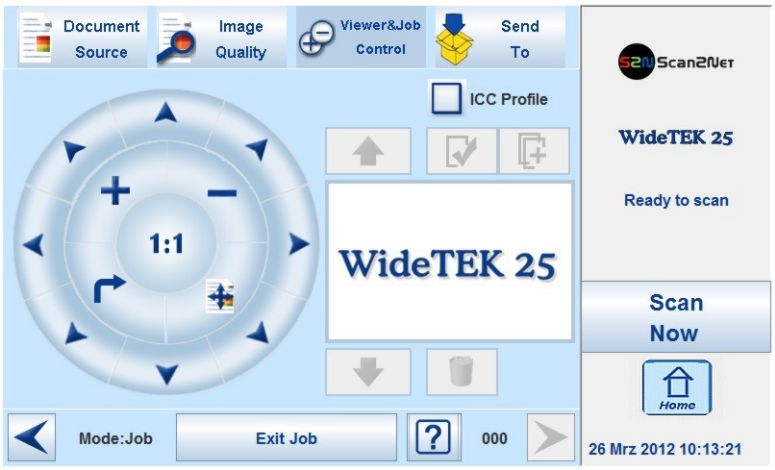
At first a disclaimer opens, which has to be accepted.



Picture 104: 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 105: 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.

Function of the control buttons:


Moves up- and/or downwards through the list of images to mark an image.

Moves a selected image up- and/or downwards.

Chooses or deselects an image from the list. A red frame marks the image.

Selects the position where an image should be inserted.

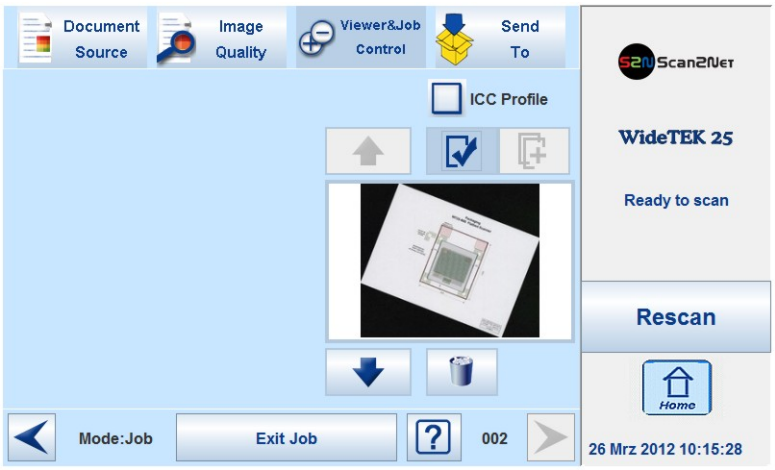
Deletes the selected image.

After an image has been selected from the list, it is marked in the list with a dark 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 106: Controller circles blanked out

The button 

changes to 

after selecting an image for rescanning.

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 any position to the list

Use the upwards / downwards buttons to move to the position where the new image should be added.

This control button darkens the background of the selected frame. The image to be added is inserted before the selected image. The image list will be renumbered.

Press the **Scan Now** 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. A red frame marks the image.

Press this button to delete the selected image.

C.6.2.5 Rescan an image

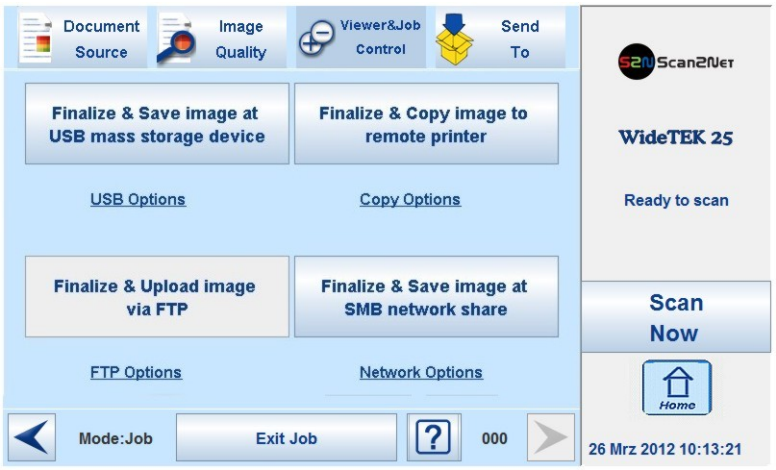
Use the upwards / downwards buttons to mark the image to be rescanned.

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

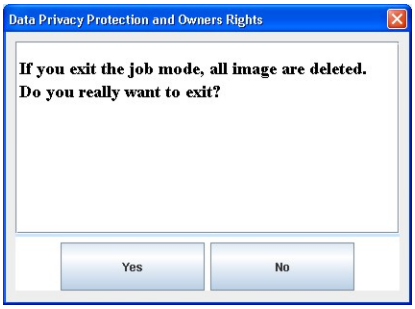
Before finalizing the **Job mode** the scanned images can be transferred to different destinations.



Picture 107: 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.

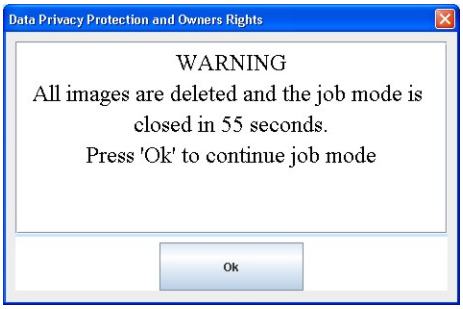


Confirm the message to finalize the **Job mode** or select **No** to return to the menu.

C.6.2.6.1 Job mode time out

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

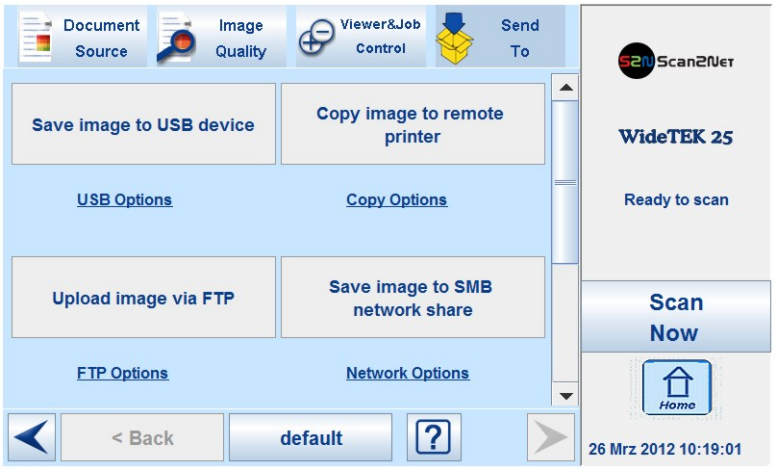
A message box pops up and a warning sound is audible.



Picture 108: Information when time out ends

C.7 Touchscreen – Send To

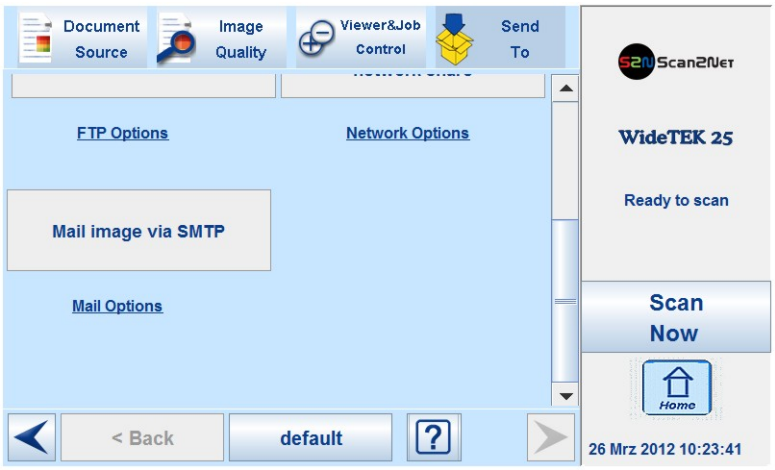
This menu provides the output options in order to transfer the scanned images to the desired destination.



Picture 109: 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 to display all output option on the touchscreen.



Picture 110: 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 111: 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.

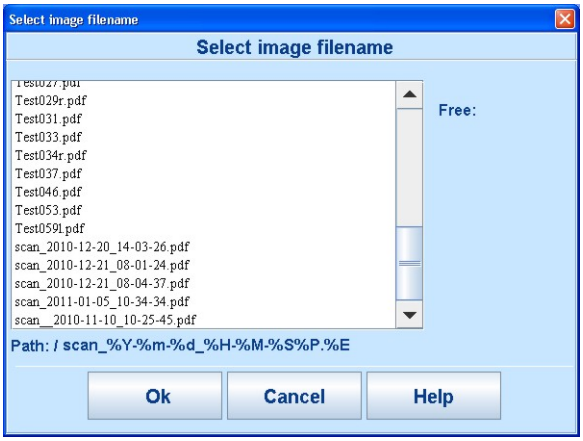
Ok: Touch this button to confirm the new entries and to return to the former screen.

Cancel: Touch this button to discard the new entries and to return to the former screen.

C.7.2 USB Options

USB connectors at the scanner's front side allow connecting suitable USB data carriers. The WideTEK® 12 is equipped with one connector; the WideTEK® 25 is equipped with two connectors at the front side.

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



Picture 112: 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,

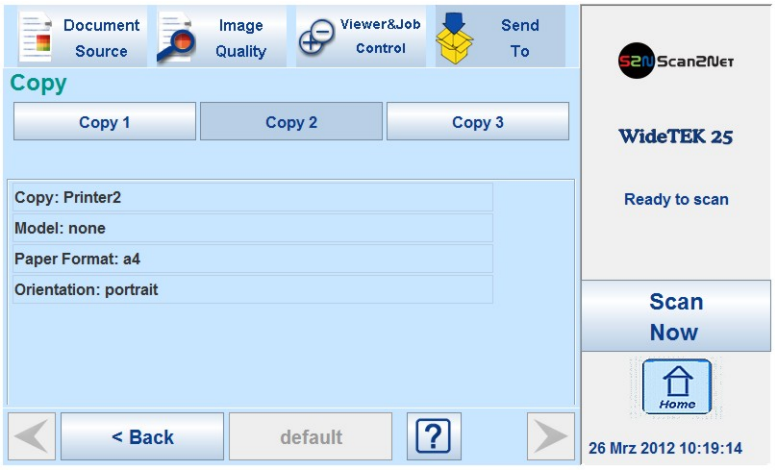
  formatted with the file systems UDF, FAT, FAT16, VFAT, FAT32, NTFS, EXT2, EXT3 or ReiserFS

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**.

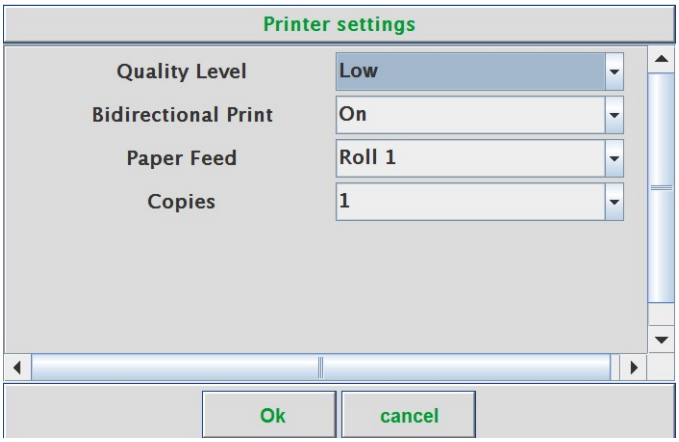


Picture 113: Parameters of Copy Options

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 114: Printer settings window

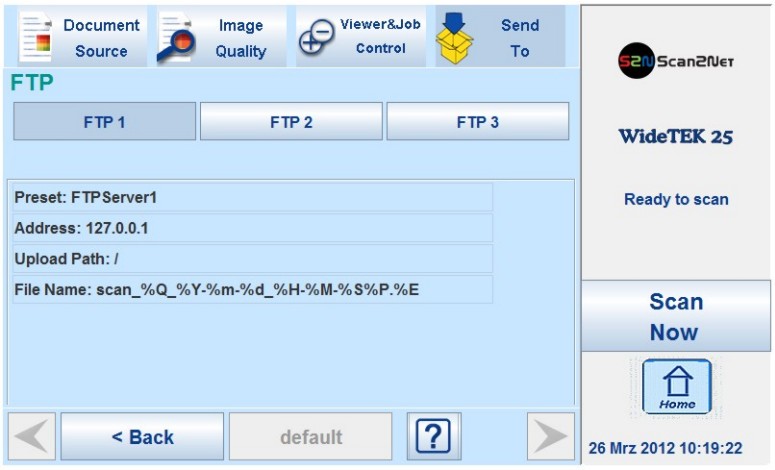
Here the user can select scaling of the image, the paper source and the number of copies.

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 115: Parameters of FTP Options

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

To change the entry, touch the respective line.

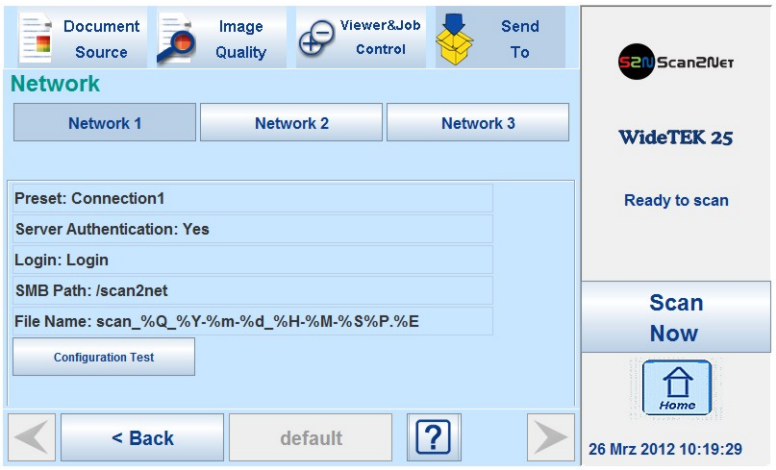
Chapter C.7.1 describes how the entry can be changed.

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 116: Parameters of Network Options

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

To change the entry, touch the respective line.

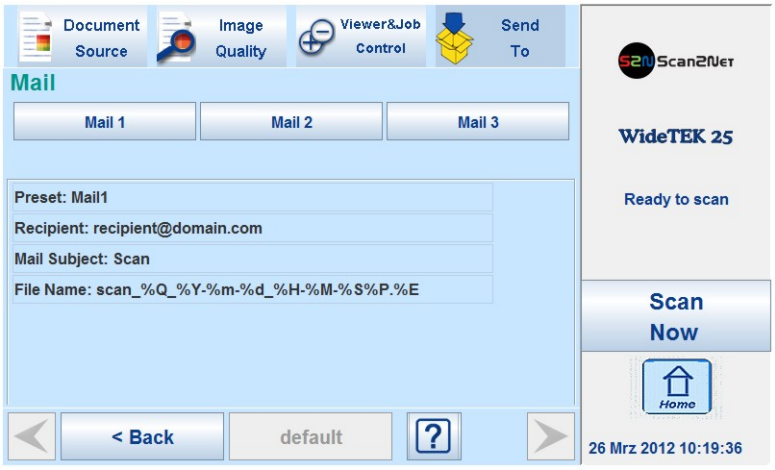
Chapter C.7.1 describes how the entry can be changed.

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 117: 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 entries 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 mode 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.

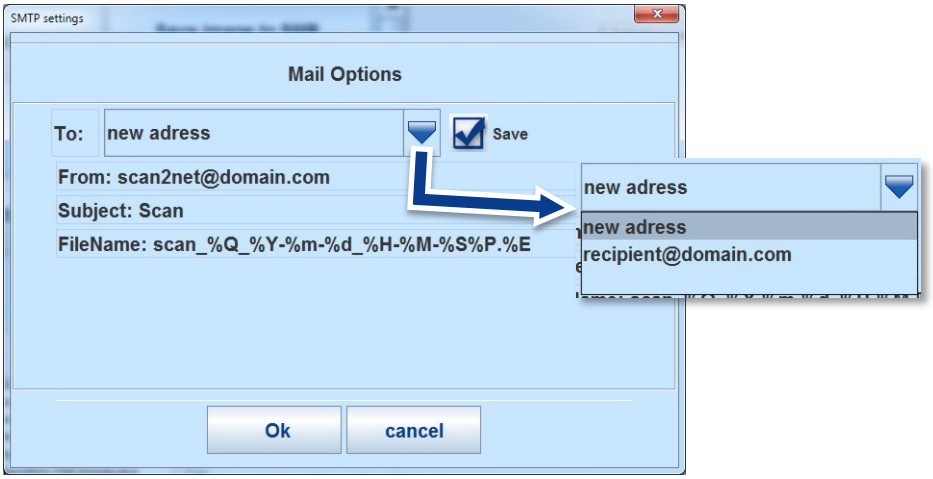
Automatic When pressing the button Mail image via SMTP at the touchscreen, the image will be sent to the address defined in the screen **Mail Options** (Picture 117). While sending the image via mail the rotating circle is displayed.

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 or selecting an address from the list.

To enter another address, click in the topmost line.

Press the selection arrow to open the list of stored addresses.



Picture 118: 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 the transaction mode **Interactive** is recommended when transferring image to often changing addresses.

D The ScanWizard User Interface

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.

D.1 The Scan2Net® Main Menu

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 119: Scan2Net® main menu

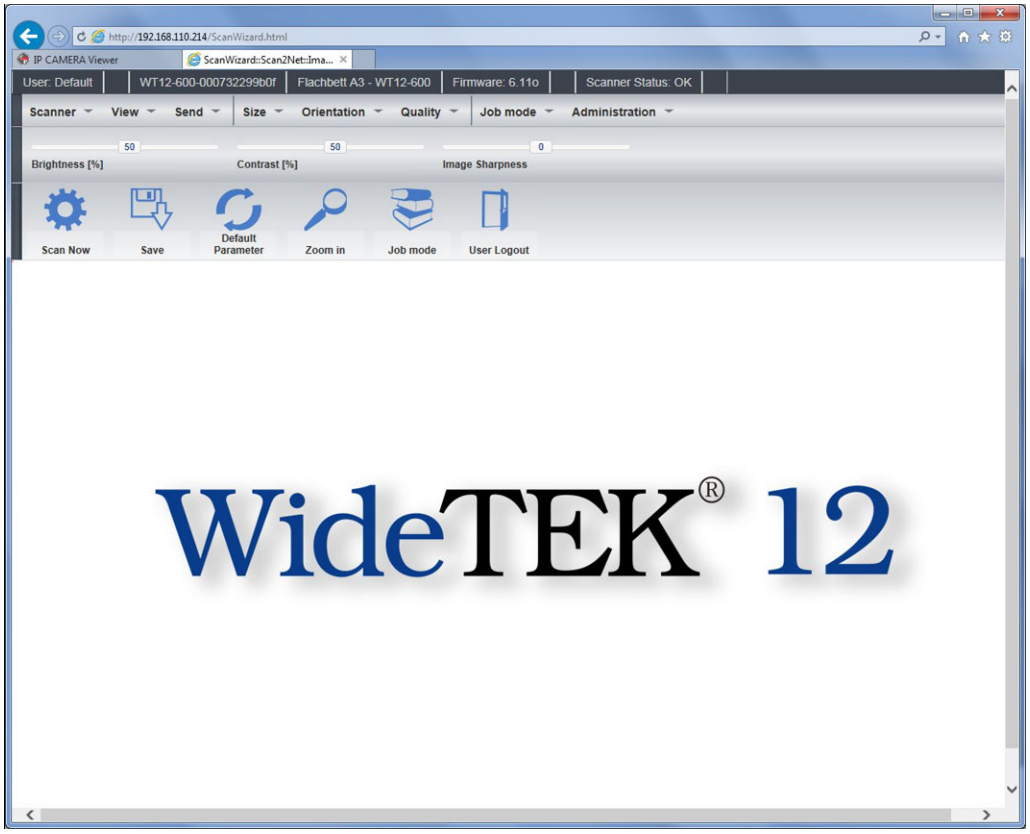
Launch Scan Application switches to the ScanWizard interface. Information about the ScanWizard interface will be found starting in chapter D.2.

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.2 The ScanWizard User Interface

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

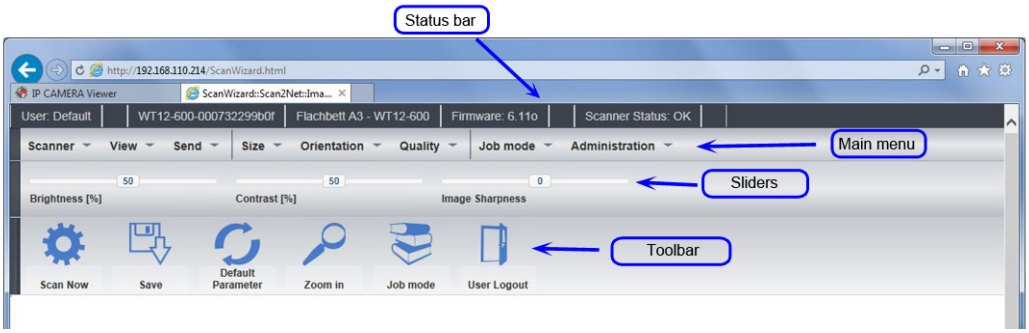


Picture 120: ScanWizard interface

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.

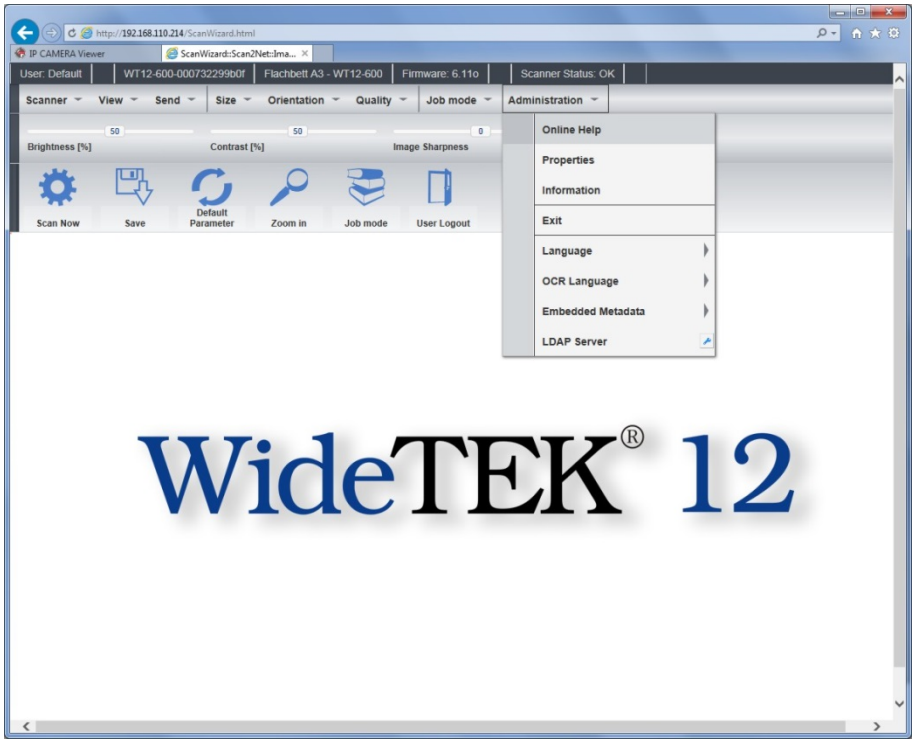


Picture 121: ScanWizard interface layout

Using the four toolbars shown in Picture 121, 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.

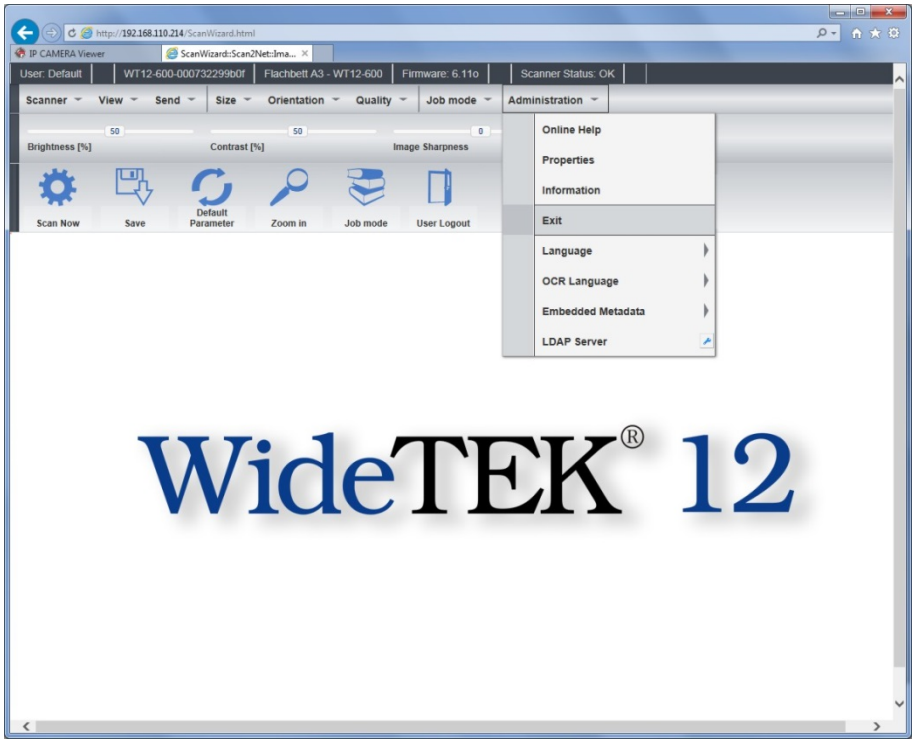
These tool bars are described in detail in the online help function included in the ScanWizard interface, in the “Administration” menu, item “Online Help”.



Picture 122: Online Help

D.2.1 Exiting the ScanWizard Interface

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

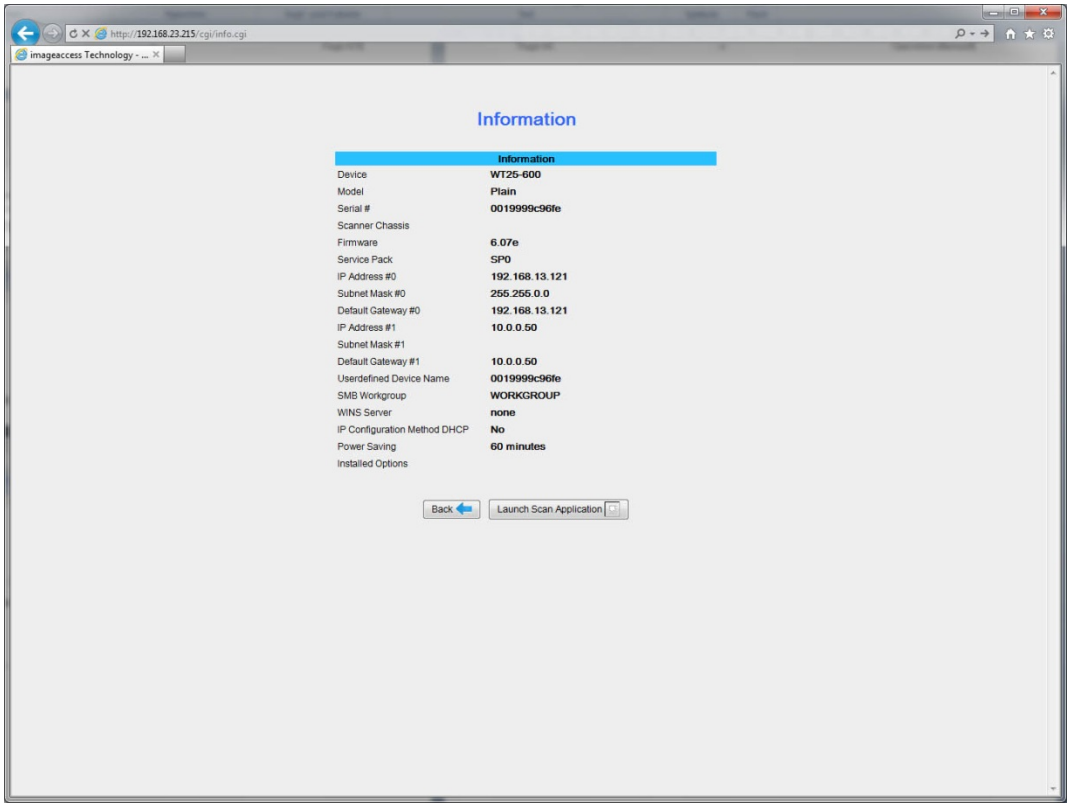


Picture 123: “Exit” returns to Scan2Net® main menu

The browser will return to the Scan2Net® main menu (Picture 119).

D.3 Information

Click on the button Information in the Scan2Net® main menu (Picture 119) to get a short summary of the device parameters.



Picture 124: Information

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

Click the button Back to return to the start screen.

Click the button Launch Scan Application to switch to the Scan2Net® main menu (Picture 119).

E The Setup Level

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

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

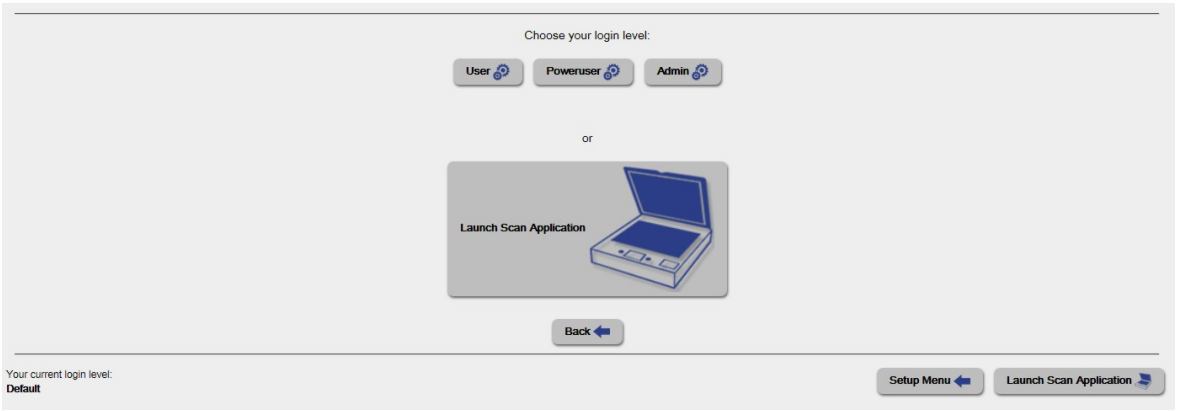
Furthermore the access level **User** allows setting some basic parameters.

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

The Login Screen

On the start screen, click the button Setup Device.

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

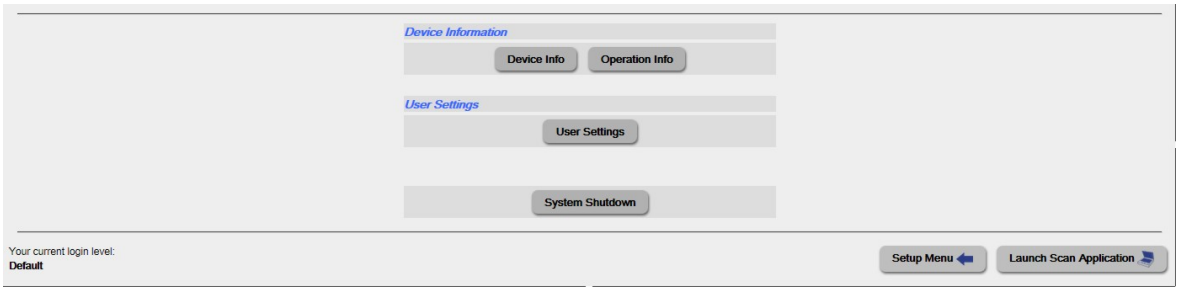


Picture 125: Login screen

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

E.1 Access Level User

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



Picture 126: User screen

The user screen is divided into two sections.

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

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

The button System Shutdown switches the scanner off.

E.1.1 Device Info

In the section **Information**, click the button Device Info and the following list (Picture 127) will be displayed.

Specific information can be reached by clicking the links below the headline **Device Info**.

Picture 127: Device Info screen

The tables following the keyword show the current status of the scanner. Device specific values vary, depending on the scanner.

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

Picture 128: 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 126) scroll down completely and click the Back to Main Menu button.

To return to the **Login** screen (Picture 125) 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 **Information** click the button Operation Info and the following list will show various scan counters and elapsed times.

Picture 129: 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 „Power“ 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 126), click the button Back to Main Menu or click on the “Return” button in your browser.

To return to the **Login** screen (Picture 125) 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.1.3 User Settings

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

Picture 130: WideTEK® 25 User Settings start screen

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.

The **User** setting starts screen of WideTEK® 12 and WideTEK® 25 differ in number and title of the sections.

Picture 131: WideTEK® 12 User Settings start screen

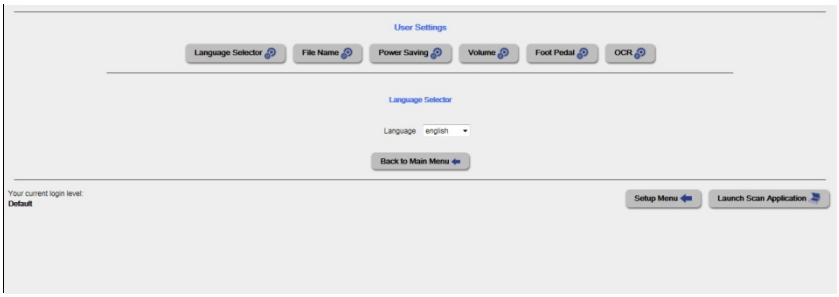
To return to the **Login** screen (Picture 125) click the button Setup Menu

To return to the **USER** screen (Picture 126) 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.

E.1.3.1 Language Selector

Use the function **Language Selector** to set the language for the user interface of the scanners.



Picture 132: Language Selector screen

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

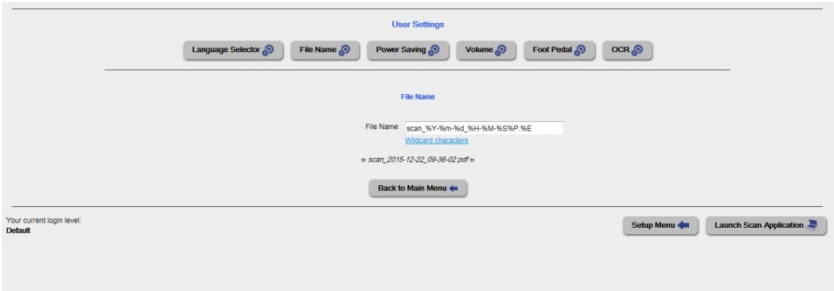
Select the desired language for the user interface with a mouse click.

The setting changes immediately after the selection.

Click the button Back to Main Menu to return to the **USER** screen (Picture 126) respectively the button titled in the selected language.

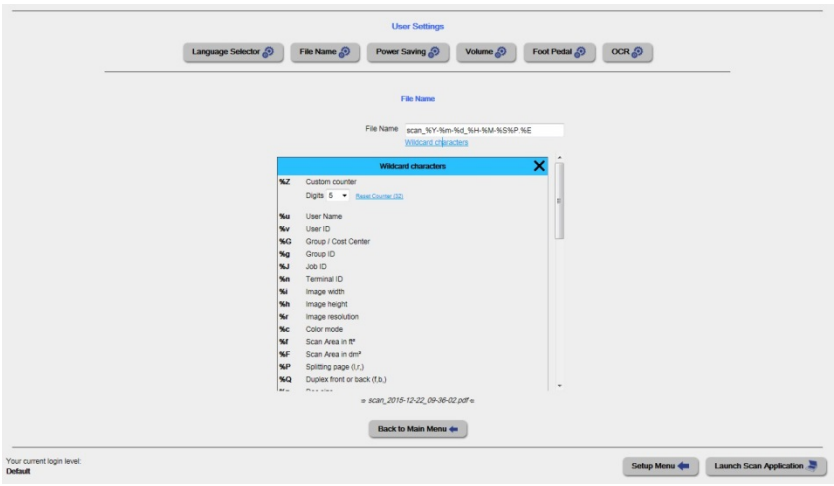
E.1.3.2 File Name

Click **File Name** to define a name that is used as a preset when saving or sending image files.



Picture 133: Filename

Position the cursor in the line where the file name is displayed. Variables can be used in the file name. To get a list of the variables, click at the link Wildcard characters.



Picture 134: List of wildcard characters

Enter the desired file name.

Picture 135: Example for a file name

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

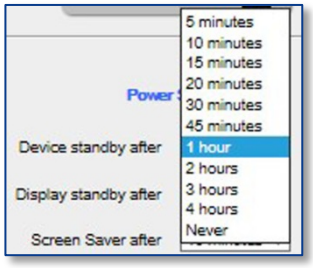
Finally click with the mouse outside of the entry field or push the “Enter” button of the PC keyboard.

E.1.3.3 Power Saving

Click on the link **Power Saving** to set the timers for the standby modes and the standby method.

Picture 136: User Settings screen

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 Display standby after Screen Saver after	
Standby Method	

Standby Method

Suspend to RAM saves the settings of the running processes to RAM. The scanner needs less time for start-up after standby.

Power off finalizes all processes. After standby the scanner needs more time for the start-up procedure.c

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.1.3.4 Volume

(WideTEK® 25 only)

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

Picture 137: 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 125) click the button Setup Menu

To return to the **USER** screen (Picture 126) 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.1.3.5 Foot Pedal

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

Picture 138: Foot pedal settings

The scanner has a connector (FS1) on its back to connect a foot pedal. For the foot pedal a specific action can be defined.

Click below the designated foot pedal and select from the drop-down list which action should be executed when the pedal is operated.

Note: The drop-down list for the second foot pedal (FS2) is for future use, but not active with the current firmware.

Drop-down list item	Function
Start scan	Starts the scan with the selected scan area size
Start scan left page	Starts the scan and displays the left half of the selected scan area size.
Start scan right page	Starts the scan and displays the right half of the selected scan area size.

E.1.3.6 Splitting Start Page

(WideTEK® 12 only)

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

Picture 139: Splitting start page

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

To return to the **Login** screen (Picture 125) click the button Setup Menu

To return to the **USER** screen (Picture 126) 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.1.3.7 OCR

(WideTEK® 25 only)

Picture 140: OCR settings

While using the OCR function to make text parts in image editable, the detected texts can be inherit to the PDF file.

That means, the detected text is added to the image as an additional layer.

F Tests and Troubleshooting

F.1 Troubleshooting Matrix

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

Problem	Possible cause	Action
The touch panel does not show the standby message.	No power	Check main outlet, power cord, and position of power-on switch on the device.
The scanner does not start when pressing the „Power“ button.	Software malfunction.	Switch power off for at least 10 seconds at the main power switch. Retry after „Power“ button is illuminated.
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.

F.2 Error Codes

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

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

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

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

Error #	Error message shown in the display	Error message sent to application	Problem description
1		Scanner in use.	An attempt to access the scanner was made from a different application.
2		Invalid session ID.	An attempt to access the scanner with an invalid session ID was made.
4		Invalid password	An attempt to access the scanner with an invalid password was made.
5	E05 S2N BOARD	S2N board failure	The S2N board is either not found or found defective. Make sure board is sitting correctly on the motherboard.
7	USER BREAK	Stop button pressed.	The stop button was pressed during the operation.
8		User timeout	The function ended because of a time out
9		Warming up	The device is still warming up and cannot be used.
10		Invalid setting value.	The value sent to the device is invalid.

Error codes, part 2

Error #	Error message shown in the display	Error message sent to application	Problem description
11		Setting does not exist.	The settings does not exist.
12		Invalid user docsize.	The size of the user format is invalid.
14		Invalid resolution or color mode.	Either the resolution or the color mode is invalid.
20	E20 MOTOR 1 (O) SCAN DRIVE	Motor 1 (Scan drive): End switch permanently open.	The home position switch is permanently open. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.
21	Error 21 Motor 1: Transport locked	Motor 1 / PCI 1 (Box drive): Transport locked	
30		File format not supported.	The specified file format is not supported or it is invalid in combination with the color mode.
31		Preview not possible	The application specified an invalid preview scale. Not all scale factors are allowed with all image sizes.
32		Invalid color conversion	The application changed the color depth between scanning and image transfer and a conversion between these modes is not possible. Example: scan in binary, then changed color mode to truecolor.
33		No image available	The application attempted to get an image from the scanner and there was no scan since the device was turned on.
55	E55 WRONG S2N HW CCD PORTS	Wrong S2N board detected (not enough CCD ports)	The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.
56	Error 56: S2N Board: wrong revision	Wrong S2N Board detected (Revision not OK)	The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.

Error codes, part 3

Error #	Error message shown in the display	Error message sent to application	Problem description
60	Error 60: General camera error	General camera error.	General error on the CCD camera board. Check power, cables and S2N-PCI board.
61	Error 61: Camera 1 failed	Camera 1 failed	Initializing of camera 1 failed. Check power, cables and S2N-PCI board.
62	Error 62: Camera 2 failed	Camera 2 failed.	Initializing of camera 2 failed. Check power, cables and S2N-PCI board.
65	Error 65: Camera 1 data bus error	Camera 1 data bus error.	Test data transfer to camera failed. Check cables / connectors to camera 1 and S2N-PCI board.
66	Error 66: Camera 2 data bus error	Camera 2 data bus error.	Test data transfer to camera failed. Check cables / connectors to camera 2 and S2N-PCI board.
69	Error 69: ADC error camera 1	Camera 1 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 1.
70	Error 70: ADC error camera 2	Camera 2 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 2.
75		General keyboard error	General keyboard error. Check keyboard and cables.
99		Internal error.	The firmware has detected an internal error of unknown cause.

F.3 Warnings

Warning #	Warning shown in the display	Warning sent to application	Problem description
144		Light level is low	The light level is found to be low during the white balance function.
145	Camera adjustment required	Camera adjustment required	General information about the camera adjustment. Check for details and readjust.
160	W160 NO WHITE BALANCE DATA	No white balance data	No white balance data was found. Perform white balance.

F.4 Information

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

G Technical Data

G.1 Scanner Specifications

WideTEK® 12 Optical System

Maximum document width	12.5 x 18.5 inch / 317 x 470 mm
Scanner resolution	1200 x 1200 dpi (optionally 9600 x 9600 dpi interpolated)
Optical resolution	1200 x 600 dpi
Pixel dimension	9.3 x 9.3 µm
Camera type	Tricolor CCD, encapsulated and dust-proof
Color depth	12 bit grayscale (internal resolution)
	36 bit color (internal resolution)
Sensor resolution	22,500 pixels
Scan modes	24 bit color, 8 bit indexed color
	8 bit grayscale, bitonal, enhanced halftone
Scan accuracy	Better than ± 0.1% over the max. scan area

WideTEK® 12 Illumination

Light source	Two lamps with 54 white LEDs/lamp
Warm-up time	None. Maximum brightness after switch-on.
Temperature dependence	None
UV / IR emission	None
Lifetime	50,000 hours (typ.)

Glass plate

Mechanical load (maximum)	10 kg **Important:** Do not exceed the maximum load!

WideTEK® 25 Optical System

Maximum document width	25 x 18.5 inch / 635 x 470 mm
Scanner resolution	1200 x 1200 dpi (optionally 9600 x 9600 dpi interpolated)
Optical resolution	1200 x 600 dpi
Pixel dimension	9.3 x 9.3 µm
Camera type	Two tricolor CCDs, encapsulated and dust-proof
Color depth	12 bit grayscale (internal resolution)
	36 bit color (internal resolution)
Sensor resolution	45,000 pixels (2x 22,500)
Scan modes	24 bit color, 8 bit indexed color
	8 bit grayscale, bitonal, enhanced halftone
Scan accuracy	Better than ± 0.1% over the max. scan area

WideTEK® 25 Illumination

Light source	Two lamps with 108 white LEDs/lamp
Warm-up time	None. Maximum brightness after switch-on.
Temperature dependence	None
UV / IR emission	None
Lifetime	50,000 hours (typ.)

Glass plate

Mechanical load (maximum)	10 kg **Important:** Do not exceed the maximum load!

G.2 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)
WideTEK® 12 Noise level	≤ 40 dB(A) (Operating) ≤ 25 dB(A) (Standby)
WideTEK® 25 Noise level	50 dB(A) (Operating) 35 dB(A) (Standby)

G.3 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	0 to 65 °C / 32 to 150 °F
Operating humidity	20 to 80 % RH, non-condensing
ECO standard	CEC level V

Scanner

Voltage	24 V DC
Current	Max. 5 A

WideTEK® 12 Power Consumption

Sleep	≤ 0.5 W
Standby	4.8 W
Scanning	55 W

WideTEK® 25 Power Consumption

Sleep	≤ 0.5 W
Standby	2.5 W
Scanning	90 W

G.4 Dimensions and Weight

WideTEK® 12

Scanner outer dimensions	222 x 440 x 795 mm (H x W x D) 8.8 x 17.4 x 31.3 inch
Weight of scanner	28 kg

Dimensions of transport box	360 x 520 x 900 mm (H x W x D) 14.2 x 20.5 x 35.5 inch
Total shipping weight	40 kg / 88 lbs.

WideTEK® 25

Scanner outer dimensions	225 x 760 x 795 mm (H x W x D) 8.9 x 29.9 x 31.3 inch
Weight of scanner	45 kg / 100 lbs.

Dimensions of transport box (palette)	450 x 1000 x 1200 mm (H x W x D) 17.7 x 39.4 x 47.3 inch
Total shipping weight	79 kg / 174 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 12-600 / WideTEK 25-600 Scanner**
Model Designation:	**WT12-XXX / WT25-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/EEC as per

WT12-XXX:

IEC 62368-1:2014 (2nd Ed.)

EN 62368-1:2013 /A:2014

WT25-XXX:

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

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2012

WT12-XXX / WT25-XXX:

ANSI/UL 60950-1-2007, Ed:2 Rev: 2011/12/19

CAN/CSA C22.2 No. 60950-1 2007, Ed:2 Rev:2011/12/19

EMC:

Directive 2004/108/EEC

EN 55022:2010

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3:2008

EN 55024:2010

EN 61000-4-2:2009

EN 61000-4-3:2006 + A1:2008 + A2:2010

EN 61000-4-4:2012

EN 61000-4-5:2006

EN 61000-4-6:2009

EN 61000-4-11:2004

Wuppertal, May 2014

Thomas Ingendoh, President and CEO

G.6 FCC Declaration of Conformity

Responsible party:

Image Access GmbH

Hatzfelderstrasse 161 – 163

42281 Wuppertal, Germany

Products:	**WideTEK 12-600 / WideTEK 25-600**
Model Designation:	**WT12-XXX / WT25-XXX** (XXX represents the device version number and configuration details)
Serial number:	**All**

WT12-XXX: This device complies with FCC, Part 15, Class B and ICES-003, Class B.

WT25-XXX: This device complies with FCC 47, Part 15, Class A and ICES-003, Class A.

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 A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. 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.

Wuppertal, May 2014

Thomas Ingendoh, President and CEO

For your notes