



Bookeye® 4



V3



V2

Setup Manual

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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 Bookeye® 4, Image Access offers an efficient V-cradle book scanner which covers a wide range of applications due to its versatility. The integrated web based user interface enables access to all functions via a structured set of menus.

This setup manual is designed to lead you through all setup and administration steps after the Bookeye® 4 scanner has been delivered.

For this reason, we ask you to read this manual attentively before starting to work with the Bookeye® 4. By doing so, you will avoid operation errors and you can control all functions from the beginning.

The Bookeye® 4-V2 models differ from the model Bookeye® 4 -V3 model in the house dimension and for this reason in the maximum scan area.

In addition please consider the following items:

- Please check your scanner for damages immediately after delivery. Damages may have occurred during shipping.
- Inform your supplier immediately if damage has occurred during shipping.
- Read and ensure that you understand the safety notes. They were developed for your protection and safety as well as to protect the unit.
- Regular maintenance conserves the high quality and safety of the Bookeye® 4 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 the Bookeye® 4 scanner, we wish you success and complete satisfaction.

Regards

Your Image Access Team

About the Manual

Setup Manual

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

All manuals can be downloaded from the Image Access 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 that relate to specific topics.

Section A contains the safety notes. The 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.

Section C describes the setup and adjustments which can be done with the touchscreen.

Section D describes the content and the functions of the **Poweruser** setup menu. A wide variety of parameters of the scanner can be set and modified in this level.

Section E describes the Recovery function

Section F contains the error codes and the warning messages.

Section G shows all technical data of the scanners.

Version History

Version	Published in	Content/Changes/Supplements
A	January 2011	First version as separate setup manual.
....
E	June 2013	<p>Model BE4-V2B introduced. New device housing design.</p> <p>New firmware version. The user interface has been redesigned, some additional menu items in the setup menus.</p> <p>Chapter D.5.4 renamed and former chapter D.5.4 and all following subchapters renumbered a level lower.</p> <p>New: Chapter D.6.2 Status Notification. Former chapter D.6.2 and following chapters renumbered.</p> <p>Chapter D.7.4 Reset Surface. Former chapter D.7.4 renumbered.</p> <p>Chapter D.7.6 Set Default Password inserted.</p>
F	October 2013	Additional information added in chapter D.4 Base Settings
F1	November 2013	Chapter D.4.6.1 with new content added. Former chapters D.4.6.1 to D.4.6.9 renumbered.
G	February 2014	<p>Some modifications have been established in the network configuration menus.</p> <p>New: Description of firewall settings in chapter D.4.2.6.</p> <p>Former chapter D.4.2.6 and all followings chapters have been renumbered.</p>
H	July 2014	<p>The manual bases on version G of the Bookeye® 4 setup manual.</p> <p>The smaller model Bookeye® 4-V3 has been added. Model specific chapters for Bookeye® 4-V3 added. Table of contents and table of pictures reworked.</p> <p>Chapter D.7 with new content, former chapter D.7 and all following chapters renumbered.</p>
H2	September 2014	<p>Actualization of description of some Poweruser menu items.</p> <p>New: Chapter D.4.3.3, Table of contents /...of pictures reworked.</p> <p>Laser check procedure with book cradle in V-Mode position added. (Dec. 2014)</p>
H2b	March 2015	Chapter D.4.1.9 Description of document cache settings added.
J	June 2015	Rework of order of menu items in the poweruser setup menus.
		Home screen for the touchscreen established. Moderate modification of menu items.
K	January 2016	Description of the extended Poweruser level functions. Description of the Recovery function added as separate chapter. Tables with error codes and warnings added.

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A Safety Notes and Certification

A.1 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.

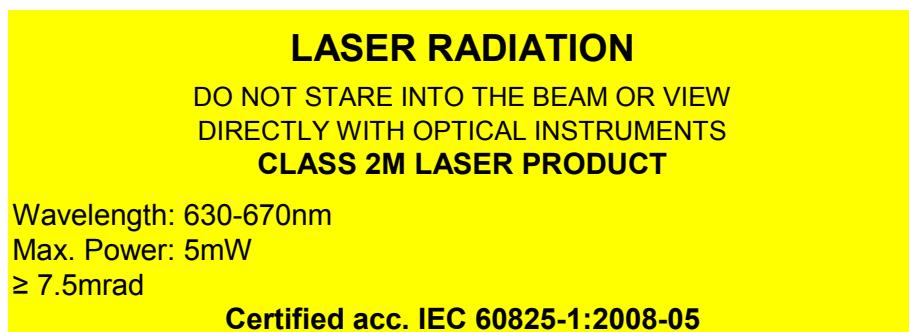
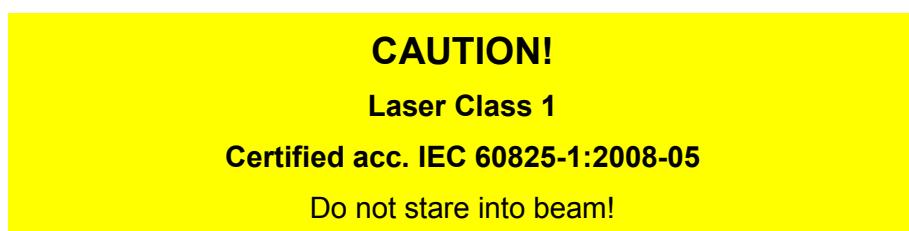
A.1.1 Marking of Safety Notes

All safety notes are marked with a warning sign.

A description of the potential hazard is found at the right side beside the warning sign.



A.1.2 Laser Safety Note



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.>

F-A.1.2 Marquage des notes de sécurité du laser



ATTENTION!

Laser Classe 1

Certifié conformément à IEC 60825-1:2008-05

Ne regardez pas dans le faisceau !



RAYONNEMENT LASER

NE PAS REGARDER DANS LE FAISCEAU

NI À L'OEIL NU NI À L'AIDE D'UN

INSTRUMENT OPTIQUE

APPAREIL À LASER DE CLASSE 2M

Longueur d'onde: 630-670nm

Performance max.: 5mW

≥ 7.5mrad

Certifié conformément à IEC 60825-1:2008-05

A.2 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 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 or on the book cradles. 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 power outlet and contact the Image Access Technical Support.
9. The scanner should be used only with the power supply that is delivered with the scanner. If you are unsure, please contact the Image Access Technical Support.
10. Image Access recommends plugging the scanner into an appropriately rated power outlet.
11. Always turn the power off and unplug the power cord from the power outlet before cleaning the scanner.
12. 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.
13. Do not spray any liquids directly onto the scanner. Spray cleaning fluids directly onto the cleaning cloth and use the cloth to clean the scanner.

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 ou sur les berceaux de livres. 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. Image Access recommande de brancher le scanner sur un climatiseur électrique d'une puissance appropriée.
11. Coupez toujours l'alimentation électrique et débranchez le cordon d'alimentation de la prise de courant murale avant de nettoyer le scanner.
12. Pour ce nettoyage, évitez d'utiliser des solutions, des abrasifs ou des acides quelconques tels que l'acétone, le benzène, le kérósene, des alcools minéraux, de l'ammoniac ou de l'acide nitrique. N'utilisez pas de nettoyants contenant ces produits chimiques.
13. 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.

A.3 In General

This setup manual describes the settings and functions using a device equipped with all options. Deviations to other devices with other equipment or reduced options are possible.

A.4 Certification

All safety requirements of the following standards are fulfilled by the Book**eye**[®] 4 scanner:

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

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

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

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

All approval marks for the certifications noted above can be found on the type label of the device.

B Hardware

B.1 Content on Delivery

B.1.1 Bookeye® 4 –V2

The scanner is delivered in a wooden transport box.



Picture 1: Bookeye 4 scanner in transport box

The transport box contains the scanner, accessories and reference targets.

The box marked with (1) contains:

- A foot pedal switch.
- Patch cable, length 3 meters.
- Recovery Key with instructions.
- External power supply with power cable.

The folder with four **CSTT-2** reference targets, two White Reference targets **BE4-Z-V2-A**, and the manuals are placed at the cardboard slide-in below the scanner.

Please note: Keep the wooden transport box for future use! If the scanner needs to be returned to depot, it must be sent back in the original transport box to avoid transport damages.

B.1.2 Unpacking the Transport Box

The scanner base unit is placed in the transport box on a cardboard slide-in with specially formed foam plastic elements.

The transport box interior is divided into two parts by a thin wooden plate (Picture 2, item 2) below the camera head. The camera head is protected by a foam plastic mat, which has cut outs around the camera head.



Picture 2: Detail view into the transport box

Beside the camera head an accessory box (item 1) is placed.

Pull out the accessory box first.

Note: For safety reasons and because of the scanner's weight the following steps should be done by **two persons**.

Together with the cardboard slide-ins, pull the scanner out of the transport box. When the scanner is pulled out, the foam plastic mat around the camera head swings down.



Picture 3: Plastic foam mat hanging below the camera head

Pull the plastic foam mat downwards, away from the camera head.

Lift the scanner from the cardboard slide-in and place it on a sturdy table. The bearing capacity of the table should be at least double of the scanner's weight.



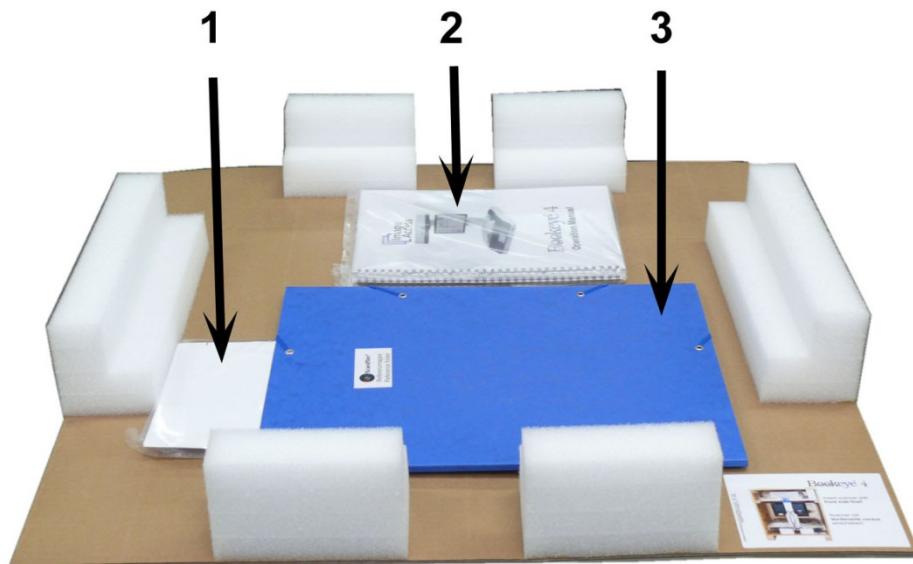
Picture 4: Scanner outside the transport box

Remove the plastic bags from the camera head and from the scanner base unit.

The TFT monitor is protected with a plastic foam mat. The mat is hold in position by a belt. Open the fastener of the belt and remove the plastic foam mat.

On the cardboard slide-in are placed:

1. The White Reference targets **BE4-Z-V2-A**.
2. The operation manual.
3. The reference folder with four **CSTT-2** reference targets.



Picture 5: Cardboard slide-in with accessories

B.1.3 Bookeye® 4 –V3

The scanner is delivered in a cardboard transport box.

The scanner is fixed in the transport box with special plastic foam elements.

The transport box contains the scanner, an accessory box and reference targets for testing purposes.

Open the transport box at the upper side.



Picture 6: Accessory box in cardboard box

On top of the transport box the accessory box is visible. It contains the accessories and the manuals.

Take the accessory box out of the transport box.

The accessory box content in detail:

- External power supply with power cable.
- A foot pedal switch.
- Recovery Key with instructions.
- Patch cable, length 3 meters.
- Power cable for external monitor.
- Manuals.



Picture 7: Content in accessory box

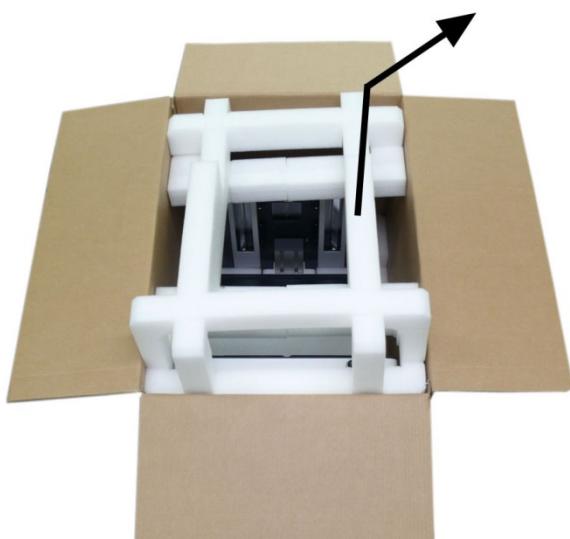
B.1.4 Unpacking the Transport Box

When the accessory box is out of the transport box the plastic foam elements which hold the scanner in the transport box can be removed.



Picture 8: Plastic foam elements covering the scanner

Pull the plastic foam element out as shown in Picture 9.



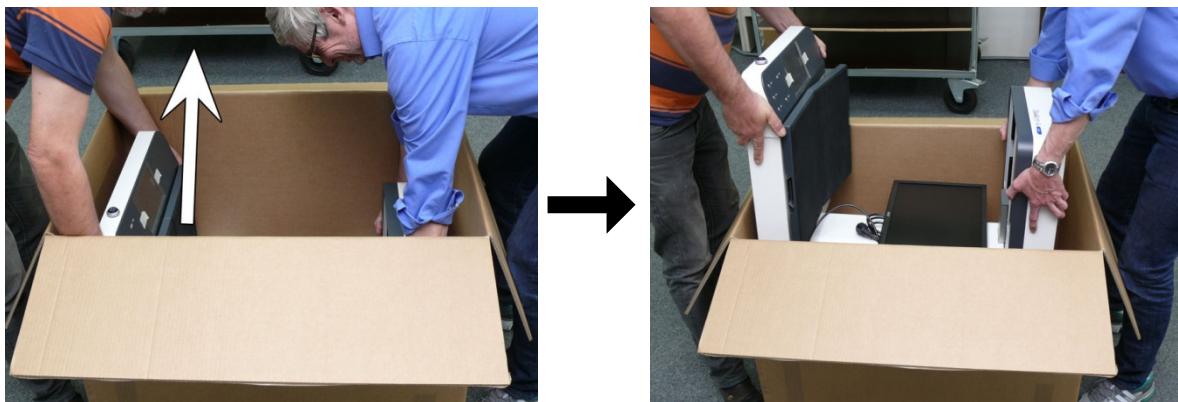
Picture 9: How to remove the plastic foam element

The scanner – packed in protective foil – is now visible.



Picture 10: Scanner in protecting bags

IMPORTANT: For safety reasons and because of the scanner's weight the following steps should be done by **two persons**.



Picture 11: Lifting the scanner out of the transport box

Note: To show and better understand where the scanner should be gripped while taking it out of the transport box it is not packed in protective foils.

After the scanner is out of the box place it on a sturdy table.

Remove the protective foils and ...



Picture 12: Scanner unpacked

...the plastic foam mat which protects the monitor.

B.2 Device Overview

Valid for Bookeye[®] 4 –V2 and Bookeye[®] 4 –V3. Differences will be marked.



Picture 13: Elements of the Bookeye 4

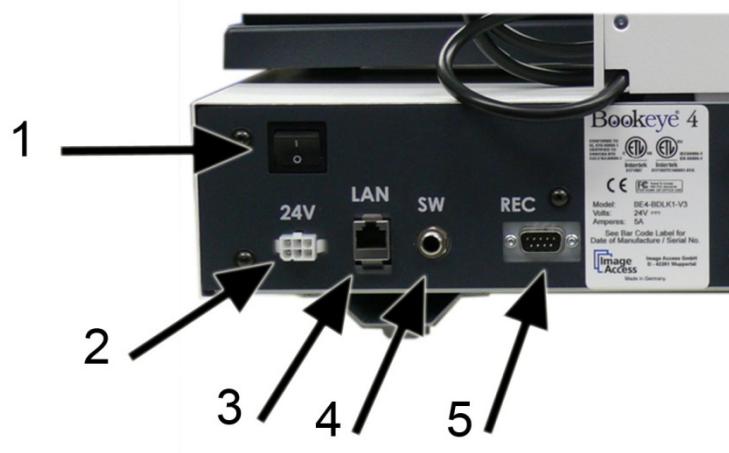
Some of the major components of the Bookeye[®] 4 scanner have been identified in the picture above. The main hardware elements are:

1. Camera head. The camera head contains the camera, the red line laser, and the lamps.
2. TFT flat screen. Shows the scanned image. All modifications of an image, e.g. color mode or scan size, will be displayed immediately on the TFT flat screen.
3. V-shaped book cradle. Can be fixed in "V" position or lie in a flat position. The opening angle of the book cradle plates in V-Mode position is 120 degree. The distance between the plates can be increased to up to 85 mm.
4. Front panel. On the front panel, two USB indicators (Bookeye[®] 4–V3 one indicator) for the USB ports, the Power button, and buttons for scanner operation can be found. The number and function of the buttons depend on the scanner version.
5. Two USB ports (Bookeye[®] 4–V3 one USB port) to connect external storage media to the scanner.
6. 7 inch color WVGA touchscreen: The touchscreen provides access to all functions directly from the scanner.
7. Pad holder. A place to put an iPad, Android tablet or smart phone when operating the scanner using the scanning application Scan2Pad[®]. Only with Bookeye[®] 4 Kiosk.
8. Fingerprint reader. Enables identification of users by their fingerprint. Only with Bookeye[®] 4 Office.

B.2.1 Connectors on the Rear Side

For easy orientation, the connectors found on the rear side of the scanner are depicted in the following picture and described below.

The rear side has a plastic cover. Above the position of the four connectors (#2 to #5) embossed abbreviations help to find the matching connector.



Picture 14: Connectors on the rear side

1. Main power switch. Set the main power switch to position I to set the Bookeye® 4 scanner to standby mode.
2. Connector for external power supply.
3. Network connector. Insert a network cable for access to the scanner via the integrated Scan2Net user interface.
4. Foot pedal connector.
5. Serial port / connector for Recovery key.

F-B.1 Aperçu du dispositif

Valable pour Bookeye® 4 -V2 et Bookeye® 4 -V3. Différences seront marquées.



Photo 1: Eléments du Bookeye 4

Certains des éléments essentiels du scanner Bookeye® 4 ont été identifiés sur la photo ci-dessus.

Les éléments essentiels du scanner Bookeye® 4 sont :

1. Tête de caméra. La tête de caméra contient la caméra, le laser à réticule de lumière rouge, et les lampes.
2. Ecran plat TFT. Affichage l'image numérisée. Toutes les modifications d'une image, par ex. le mode de couleur ou la taille de numérisation, seront immédiatement affichées sur l'écran plat TFT.
3. Berceau de livre en forme de V. Peut être fixé en position plate ou replié en V pour numériser un livre ouvert à 120°.
4. Panneau frontal. Sur le panneau frontal on trouve deux ports USB (Bookeye® 4 -V3 un port USB), le bouton **Power**, les boutons de commande et l'écran tactile. Le nombre et fonction des boutons dépend de la version du scanner.
5. Deux ports USB (Bookeye® 4 -V3 un port USB). Utilisé pour connecter des supports de stockage externes au scanner.
6. Ecran tactile : L'écran tactile affiche tous les menus utilisés pour paramétrier et commander le scanner Bookeye® 4.
7. Support de Pad. Un endroit sûr pour mettre un iPad, tablette Android ou Smartphone lorsque vous utilisez le scanner à l'aide de l'application de numérisation Scan2Pad ®. Pas avec toutes les versions de scanner.
8. Lecteur d'empreinte digitale. Pour identifier les utilisateurs à l'aide d'empreinte digitale. Seulement avec la version scanner OFFICE.

F-B.1.1 Connecteurs sur le côté arrière

Pour faciliter l'orientation, les connecteurs du côté arrière du scanner sont illustrés sur la photo ci-après et décrits ci-dessous.

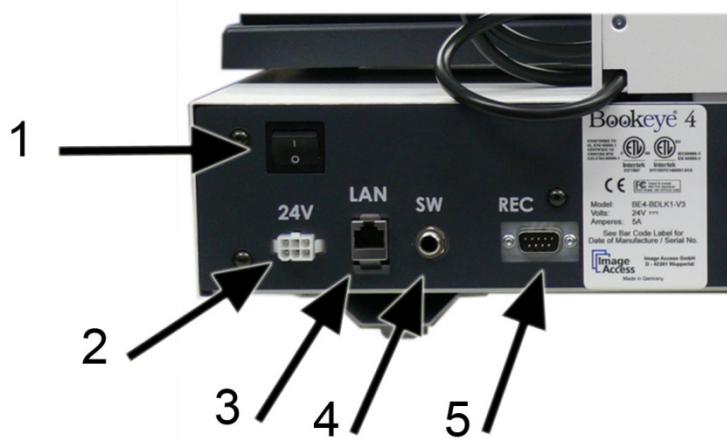


Photo 2: Connecteurs sur le côté arrière

1. Interrupteur électrique principal. Amenez l'interrupteur électrique principal sur la position I pour régler le scanner Bookeye® 4 sur le mode de veille.
2. Connecteur d'alimentation électrique extérieure.
3. Connecteur de réseau. Introduisez un câble de réseau pour accéder au scanner par l'interface utilisateur Scan2Net intégrée.
4. Connecteur à pédale.
5. Port série / connecteur de la clé de récupération.

B.3 Connecting the Power Source

Before connecting the scanner to the external power supply and the power supply to the electrical outlet, check the following items:



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



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



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



Inspect the power cable and ensure that it is undamaged.
Use only the power cable delivered with the scanner.



Turn the device off before plugging or unplugging any cable.

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

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

Red illumination of the **Power** button in the front panel signals that the Bookeye® 4 is in standby mode.

F-B.2 Raccordement à l'alimentation électrique

Avant de raccorder le scanner à l'alimentation électrique extérieure, et donc à la prise de courant, vérifiez les points suivants:



Veillez à ce que la prise de courant soit en parfait état et qu'elle est correctement mise à la terre.



Veillez à ce que la prise de courant soit munie d'un fusible d'une capacité adéquate.



La prise de courant doit être à proximité de cet appareil et aisément accessible.



Inspectez le câble d'alimentation et veillez à ce qu'il ne soit pas endommagé.
Utilisez uniquement le câble d'alimentation fourni avec le scanner.



Eteignez l'appareil avant de brancher ou de débrancher un câble.

Le connecteur de l'alimentation électrique extérieure et le commutateur électrique principal se trouvent tous deux du côté droit à l'arrière de la vitre d'exposition.

Une fois que la source d'alimentation est raccordée et que l'interrupteur électrique principal a été allumé, le symbole du bouton de marche/arrêt s'allume.

Lorsque le bouton de marche/arrêt s'allume en rouge, cela signifie que le Bookeye® 4 est en mode de veille.

B.3.1 Starting the Bookeye 4

Push in the front panel the illuminated **Power** button to start the scanner.



Picture 15: Keyboard with Power button

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 TFT flat screen and on the WVGA color touchscreen.

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

B.3.2 Switching the Bookeye 4 to Standby Mode

IMPORTANT: While using the Bookeye® 4 under normal working conditions, **only use the Power button** to switch to standby mode!

The main power switch at the rear side should only be used when the scanner is in standby mode and before separating from the power supply.



Press and hold the **Power** button for at least three seconds. While pressing the button, a "click" sound is audible.

During the shut-down sequence the TFT flat screen and the touchscreen show the scanner name and version and a progress bar.

The power down sequence will take a few seconds.

At the end of the power-down sequence the TFT flat screen and the touch screen will be turned off, and the **Power** button lights up red.

F-B.2.1 Mise en marche du Bookeye 4

Poussez le bouton Power lumineux sur le panneau pour démarrer le scanner.



Photo 3: Clavier avec le bouton Power

La lumière de ce bouton devient bleue.

Le scanner démarre par des procédures d'auto-test et vérifie tous les composants du système. Des messages d'état seront affichés sur l'écran plat TFT et sur l'écran tactile.

A la fin de la séquence de démarrage, l'écran tactile affiche l'écran de démarrage.

F-B.2.2 Commutation du Bookeye 4 sur le mode de veille

IMPORTANT: Quand vous utilisez le Bookeye® 4 dans des conditions de travail, il devrait **uniquement être allumé et éteint par le bouton "Power"** !



Appuyez sur le bouton de marche/arrêt et restez appuyé dessus pendant au moins trois secondes. Pendant que vous appuyez sur le bouton, un "clic" devient audible.

Le contenu de l'écran plat TFT et de l'écran tactile change et vous voyez s'afficher le message : **Arrêt imminent de l'appareil ...**

Pour finir, l'écran plat TFT et l'écran tactile s'éteignent et le bouton de marche/arrêt s'allumera en rouge.

C The Touchscreen Setup Menu

Additionally to the applications available from the home screen, the Bookeye® 4 scanners allow to activate a setup menu.

The setup menu allows some adjustments to be made directly via the touchscreen, e.g. autofocus settings and White Balance calibration.

Furthermore, the IP address can be configured and other user settings can be defined.

Push the **Power** button (see chapter B.3.1) to start your scanner.

After terminating the system start-up routines the scanner shows the home screen.



Picture 16: Touchscreen with home screen

C.1 Setting the Touchscreen Language

To change the touchscreen language, touch the field in the lower left corner which displays the currently selected language.

An additional window opens on the touchscreen. It shows the list of languages which can be selected.



Picture 17: Language list

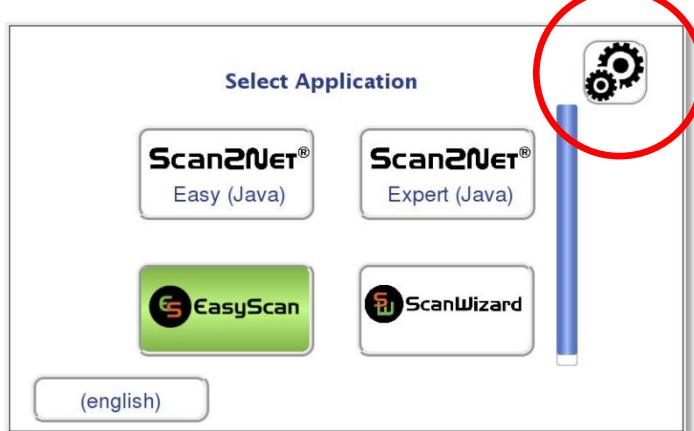
Tap at the scroll bar at the right side and hold it to move the list up and down.

Tap on the field of the desired language to select the language.

With a short delay the language of the touchscreen changes.

C.2 Activating the Setup Menu

To activate the setup menu, tap the gear icon in the upper-right corner of the touchscreen (see red circle).



Picture 18: Symbol to activate the setup menu

Enter in the login screen user name and password.

User login and password are: Poweruser

Note, when entering user login and password, the upper-/lower case writing.



Picture 19: Login window

After entering the user login and the password tap on **Ok** to complete the entry.

The screen content changes and shows the setup menu start screen.



Picture 20: Setup menu, start screen

The screen will change and show the first screen of the setup menus.

The menu bar shows four menu titles of the available setup menus.

The small arrow in the menu **User Settings** indicates that the menu bar can be scrolled to show also the other menu items.



Picture 21: Setup menu items

The small arrow changes its position when the menu bar is scrolled.



Touching the **Home** button returns the touchscreen from the setup menu to the user menu.

C.3 White Balance



Picture 22: Setup menu, start screen

The first menu item of the setup menus is the **White Balance** screen.

Whenever it is necessary to perform a White Balance calibration, the touchscreen shows how to position the reference target and the book cradles for optimal calibration.

To execute the White Balance calibration, close the book cradles and place the reference target **BE4-Z-V2-A** as shown. The reference target is delivered with the scanner.

Touch the **Calibrate** button.

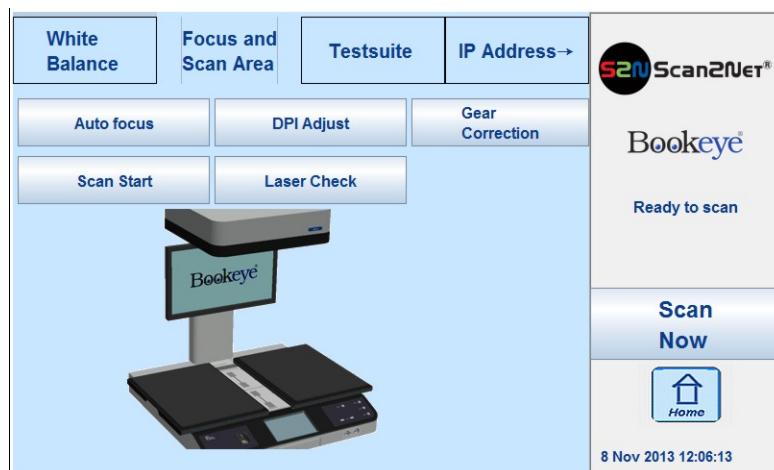
The calibration sequence will be executed. It takes approximately 40 seconds.

At the end of the calibration sequence, the results will be displayed on the touchscreen.

To erase the stored data, touch the button **Remove white balance data**.

Repeat the White Balance calibration after deleting the stored data.

C.4 Focus and Scan Area



Picture 23: Focus and Scan Area menu

The **Focus and Scan Area** menu contains five buttons for measurement purposes.

When touching one of the five buttons, the picture on the touchscreen changes. It shows how the book cradles and/or the reference target must be positioned.

C.4.1 Auto focus Scan Start DPI Adjust Gear Correction



Picture 24: Book cradles position

When measuring either auto focus, scan start, DPI adjust or gear correction; the touchscreen always shows the same picture.

The book cradles must be opened and in flat position in order to make the reference foil on the device body visible for the camera.

Touching the **Next Step** button starts the measurement. The lamps light up and the measurement will take approximately 10 seconds, depending on the selected element. During the measurement, a small clock icon is displayed on the touchscreen.

The results of the measurements are displayed on the touchscreen.

Touching the **Back** button returns to the **Focus and Scan Area** menu.

C.4.2 Laser Check



Picture 25: Reference target position

The book cradles must be closed. Place the reference target **BE4-Z-V2-A** on the book cradles as shown in the picture.

Press **Next Step** to start the calibration. A small icon is displayed on the touchscreen while the calibration is executed.

The results of the measurement are displayed on the touchscreen.

Remove the reference target.

Press **Next Step** to continue with the measurement. Bring the book cradles in the V-Mode position.



Picture 26: Measurement in V-Mode position

Place two CSTT-2 targets with the white back side up at the book cradles. The touchscreen shows an illustration.

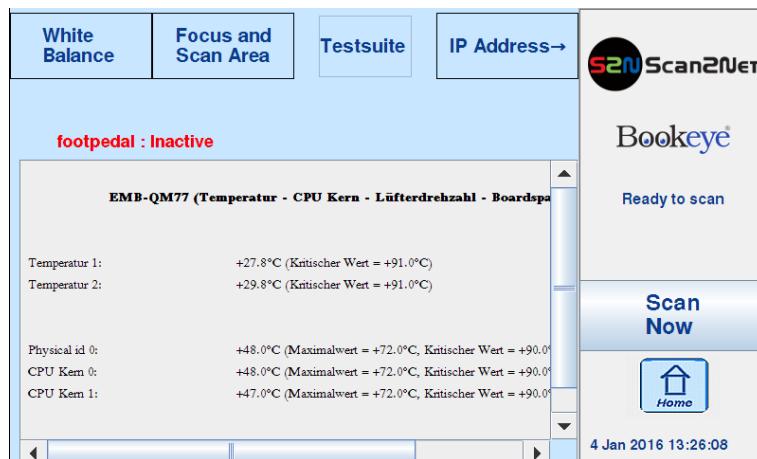
Press **Next Step** to start the calibration.

Again, the touchscreen shows the results.

Remove the reference targets from the book cradles.

After the calibration, press **Back** to return to the **Focus and Scan Area** menu.

C.5 Test Suite



Picture 27: Testsuite

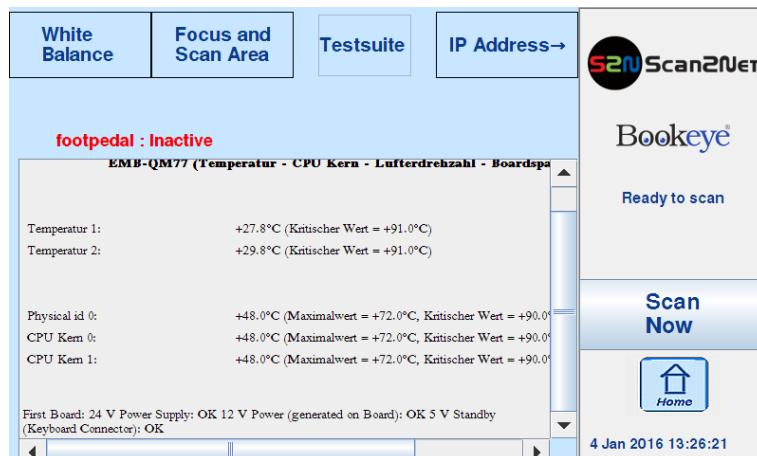
The **Testsuite** menu delivers information about the following parameters:

- Foot pedal status: Active = Foot pedal connected
 Inactive = No foot pedal connected

- Mainboard name
- Temperature of CPU core 0 and CPU core 1.

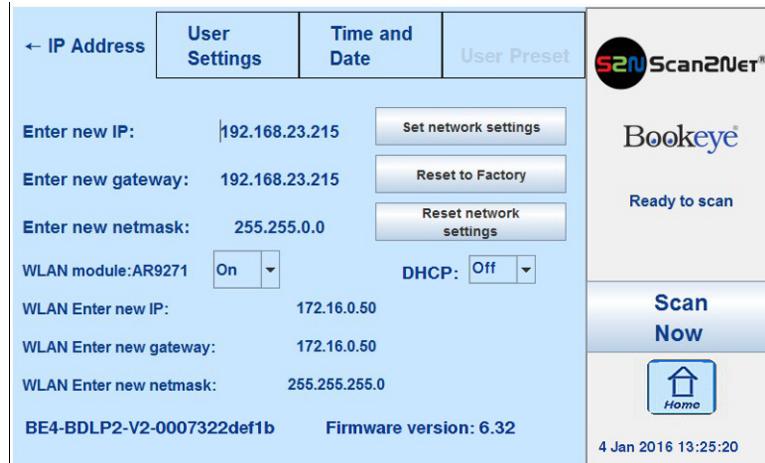
Further parameters can vary depending at the hardware configuration. For example:

- Available voltages for the mainboard and at the mainboard
- Input voltage of the external power supply.
- Voltage, generated on the mainboard.
- Voltage, available from the keyboard connector.
- Rotation speed of the fan / of the fans.
- Temperature of the mainboard.
- Temperature at other measuring points (if available).



Picture 28: Other mainboard measuring points

C.6 IP Address



Picture 29: IP Address mask

To set the parameter of IP address, gateway, and netmask, touch the number in the in the respective line.

A small additional window will open. It shows the IP address and a numeric keypad.



Use the arrow keys **←** and **→** to move the cursor to the desired position.

Enter the new values with the numeric keypad.

Use the **<=** key to erase a digit. Place the cursor right beside of the digit and press the **<=** button. It will always be deleted from right to left.

Cancel closes the window. All changes get lost.

Ok closes the windows and transfers the new value into the line selected before.

Set network settings

Saves the new and/or modified values when pressed.

Reset to Factory

Resets all network parameters to factory default settings.

Reset network settings

Resets all network parameters to previously defined value when pressed. Chapter D.8.1 describes how to save the parameters.

C.6.1 WLAN module settings

If a WLAN module is installed in the scanner (only KIOSK version), all WLAN module settings and values will be displayed in the section below the scanner's IP address values.

WLAN module:AR9271	<input type="button" value="On"/> <input type="button" value="Off"/>
WLAN Enter new IP:	172.16.0.50
WLAN Enter new gateway:	172.16.0.50
WLAN Enter new netmask:	255.255.255.0

The name of the WLAN module will be displayed in this section in the upper line.

Beside the name the WLAN module can be activated and deactivated. Touch the selection arrow and selected **On** or **Off**.

The WLAN IP settings will be displayed in the same order like the settings of the scanner.

Modifying the values will be done in the same way as described in chapter C.6.

C.6.2 DHCP

To use the DHCP function, the scanner must be installed in a network with a DHCP server available.

DHCP On: The scanner network settings will be delivered from the DHCP server.

DHCP Off: The values for IP address, gateway and netmask must be entered manually.

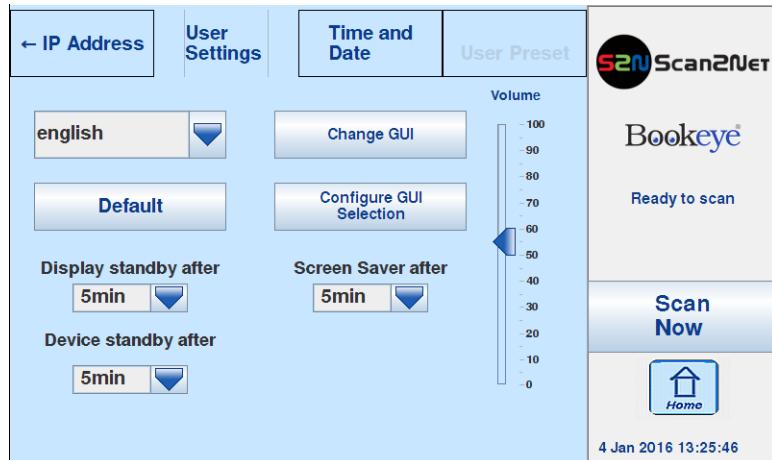
C.6.3 Serial Number and Firmware Version

In the bottom line the serial number of the scanner is displayed on the left side; the firmware version is displayed on the right side.

In the bottom line the serial number and the firmware version are displayed.

BE4-BDLP2-V2-0007322def1b	Firmware version: 6.32
---------------------------	------------------------

C.7 User Settings



Picture 30: User Settings menu

The User Settings menu allows defining the touchscreen menu parameters.

Language selector



The currently selected language is displayed.

The touchscreen menu language can be selected by touching the selection arrow. A list opens, showing the available languages.

Touching the name of the desired language completes the selection.

Please note: The language of the setup menu remains primarily in English.

Changing the language will be activated after touching the **Home** button.

Default

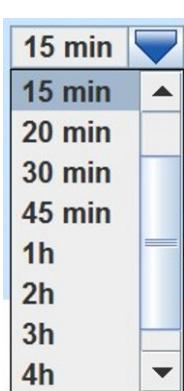
Returns all scanner settings to default values.

Change GUI

Opens a menu window, which shows the predefined settings (presets) and allows selecting one of these. Chapter C.7.1 provides more details.

Configure GUI Selection

Opens a menu window that shows all available predefined settings, with a checkbox in front of the name. Chapter 0 describes more details.



- Display standby after** Sets the time of inactivity after the external display and the touchscreen switches to standby. The touchscreen and the external display turn to black.
They will return after pressing the standby button or touching the touchscreen.
- Screen Saver after** Sets the time of inactivity after the screen saver is activated.
- Device standby after** Sets the time of inactivity after the scanner switches to standby mode. Click at the selection arrow and select the value from the list.

It is recommended to restart the scanner after changing the standby settings.

Volume Click at the selection arrow to set the volume for audio signals.

C.7.1 Change GUI



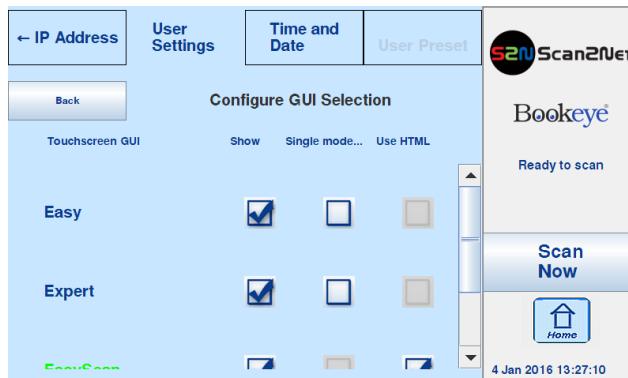
Picture 31: Selectable presets

The **Change GUI** menu shows all preset. The presets **Easy** and **Expert** are defined as factory default.

After selecting one of the presets, the scanner starts with the preset either in **Job mode** or in **Single mode** depending at the setting in the **Configure GUI Selection** menu

Touch the **Back** button to return to the previous screen without selecting any preset.

C.7.2 Configure GUI Selection



Picture 32: Presets selection screen

All presets (GUIs) are displayed. Use the scroll bar to scroll through the list of the available respectively installed GUIs.

Right beside of each GUI name find checkboxes to select or to activate settings for each GUI.

Show Activate the checkbox to show the GUI in the **Change GUI** screen and in the home screen (see Picture 16).

Single mode As default, the selected GUIs start in "Job mode". Activate the checkbox here to start in "Single mode".

Use HTML If a GUI is available in HTML code as well as in JAVA code, activate the checkbox if the HTML coded version should be used. The checkbox is greyed if no variation is available.

After selecting the desired presets, touch the **Back** button to return to the previous screen.

C.8 Time and Date



Picture 33: Time and Date

To change the time or date value, touch the value in the respective line.

Touch the line at the desired position to move the “cursor”.

To delete a digit, place the cursor at the right side of the digit and press the “<=” button. The digits will always be deleted from right to left.

Use the numeric keypad in order to enter digits.

Selecting the time zone

By changing the time zone, the time that appears on the touchscreen is quickly adapted to the location of the scanner.

Touch the selecting arrow. A list with the available values opens.

Tap at the desired time zone. The zone will be set and the list closes.



Picture 34: Time zone list

Store time and date: Saves the modified values when pressed.

Reset time and date: Sets the values to default values when pressed.

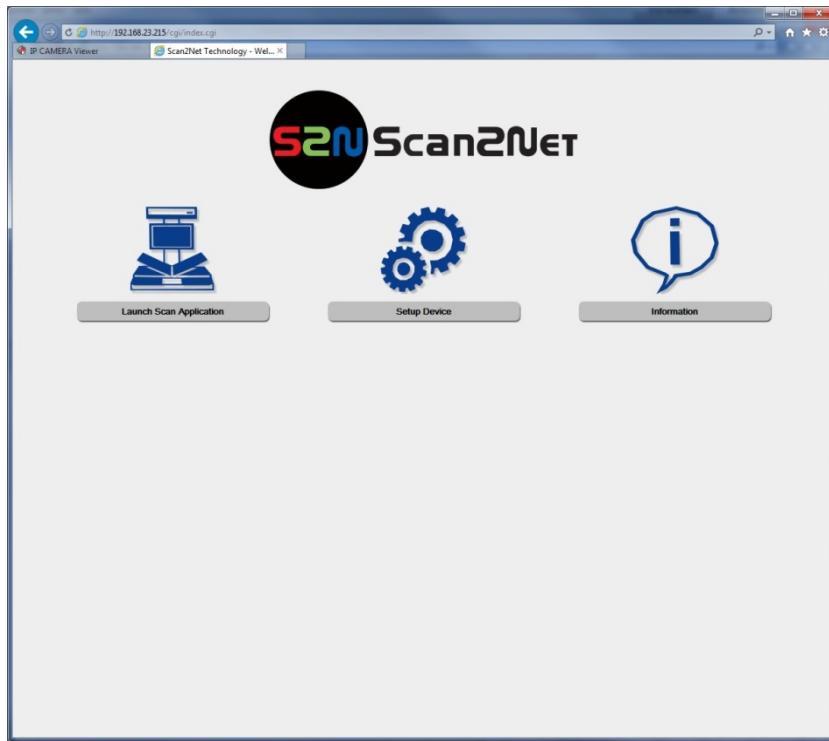
C.8.1 Back to the Kiosk Application



Touching the **Home** button returns the touchscreen from the setup menu to the Kiosk application menu.

D The Poweruser Level

To enter the **Poweruser** level, start your browser and enter the IP address of the scanner.



Picture 35: Scan2Net Start Screen

The start screen shows three symbols, which lead to the main categories of the Scan2Net user interface.

Launch Scan Application changes to the main screen of the user interface.

Setup Device changes to the setup menu. Starting with the following chapter, the basics of the scanner configuration will be described.

Information shows a list of basic information about the scanner, e.g. serial number, the firmware version, the IP address and many more.

Select **Setup Device** to open the Setup menu.

D.1 Login Level Screen

The login level screen shows the buttons of the login levels. All login levels except the level **User** are password protected.

The button **Launch Scan Application** starts the Scan2Net scan application.

The button **Back** returns to the former screen.



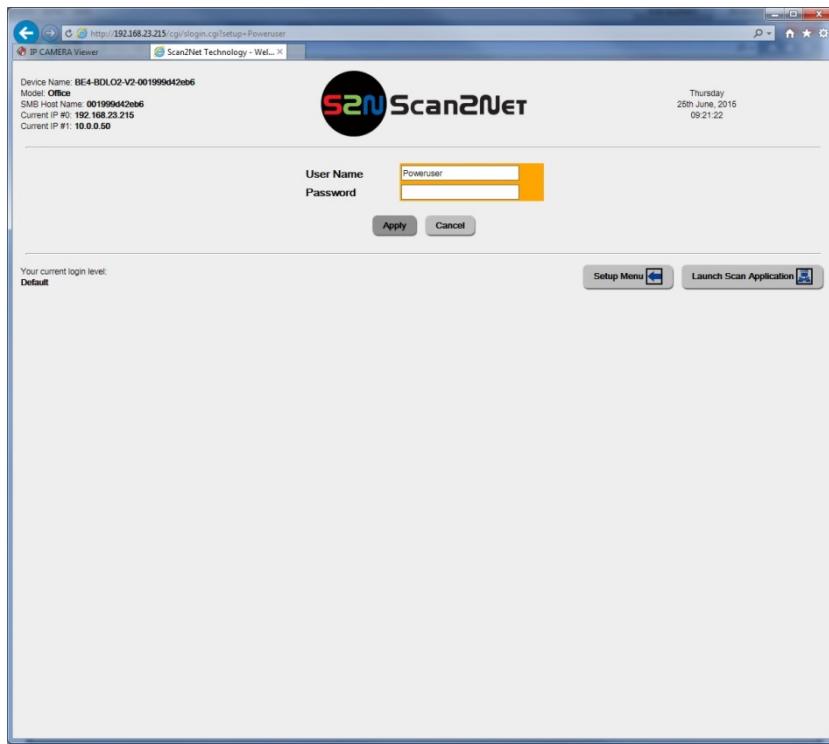
Picture 36: Login level screen

D.1.1 Selecting the Login Level

- | | |
|------------------|---|
| User | This level allows the user to get some status information from the scanner. These are e.g. the firmware version, the remaining lamp operating time, system information, and many more. Furthermore it allows setting a few basic parameters. |
| Poweruser | Password protected level. This level allows setting an extended range of system parameters and to execute some adjustments. It includes all parameters of the User level. |
| Admin | Password protected level. This level allows setting all system parameters and to configure the scanner in detail.

Access to the Admin level is limited for trained technicians. It includes all parameters of the User level and the Poweruser level. |

In the login level screen, choose the login level **Poweruser**.



Picture 37: Poweruser log-in menu

Enter as user name and password: **Poweruser**

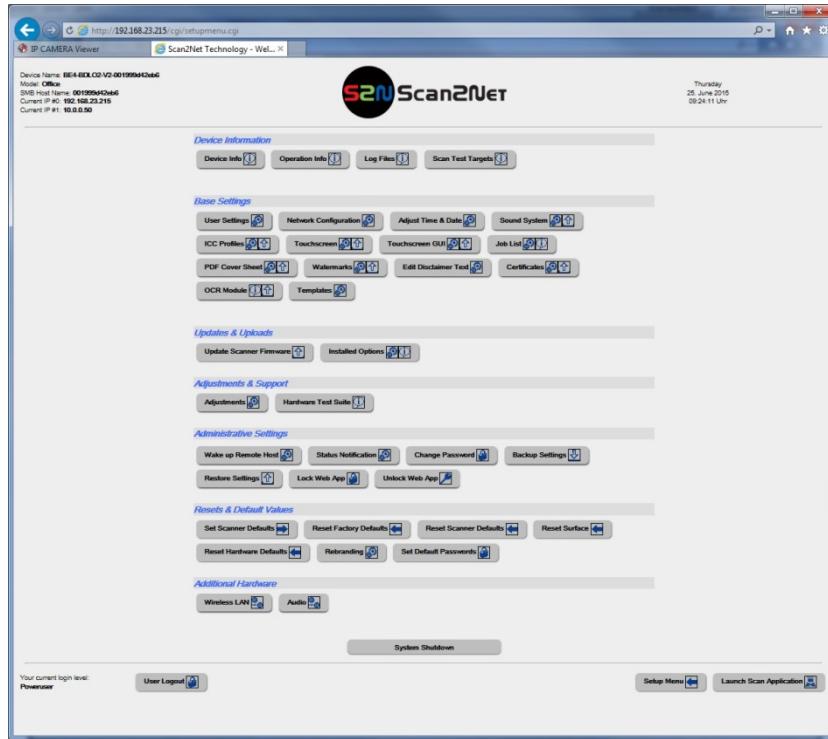
Please consider the case sensitivity when entering the user name and the password.

Click on **Apply** to finish the entry.

D.2 Main Menu

The main menu of the **Poweruser** level contains all menus of the **User** level.

The **Poweruser** start screen is structured in sections. Each section consists of a variable number of sub-sections.



Picture 38: Poweruser level main menu

The buttons below the section titles name the parameters which can be set or modified in the respective section.

The section **Device Information** is also available from the **User** level.

The sections are sorted according to their frequency of use. Often used parameters are found in the upper sections. Parameters with lower priority are present in the middle sections.

The functions to reset parameters or to set default values are present in a lower section.

Settings for additional hardware components, which are very rarely modified, are placed at the end.

D.2.1 Navigating through the menus

The bottom line of each screen shows two buttons at the right side:

User Logout

Always click on this button to leave the setup menu. This avoids unauthorized changes of the setup features. The browser shows the Scan2Net start screen (Picture 35).

Setup Menu

Returns to the login level screen (Picture 36).

Launch Scan Application

Switches to the main screen of the integrated ScanWizard user interface.

In each selection menu screen below the parameter to be set, the following button is displayed:

Back to Main Menu

Returns to the **Poweruser** level main menu (Picture 38).

The section **Device Information → Log Files → Show Log Files** shows after selecting a log file two more buttons:

Download

Downloads the currently displayed log to a text file with the extension “log”.

Refresh

Refreshes the log file.

Back to Log File Menu

Returns to the previous menu, where the desired log file can be selected.

If data files can be selected and transferred within a menu, the menu contains the button

Send File

Transfers the selected data file to the scanner, e.g. to execute a firmware update.

To install an option, a unique key code must be entered. The respective menu contains the button

Apply

Transfers the unique key code of the option to the scanner.

Screens which show the result of measurements show the following buttons:

New Values

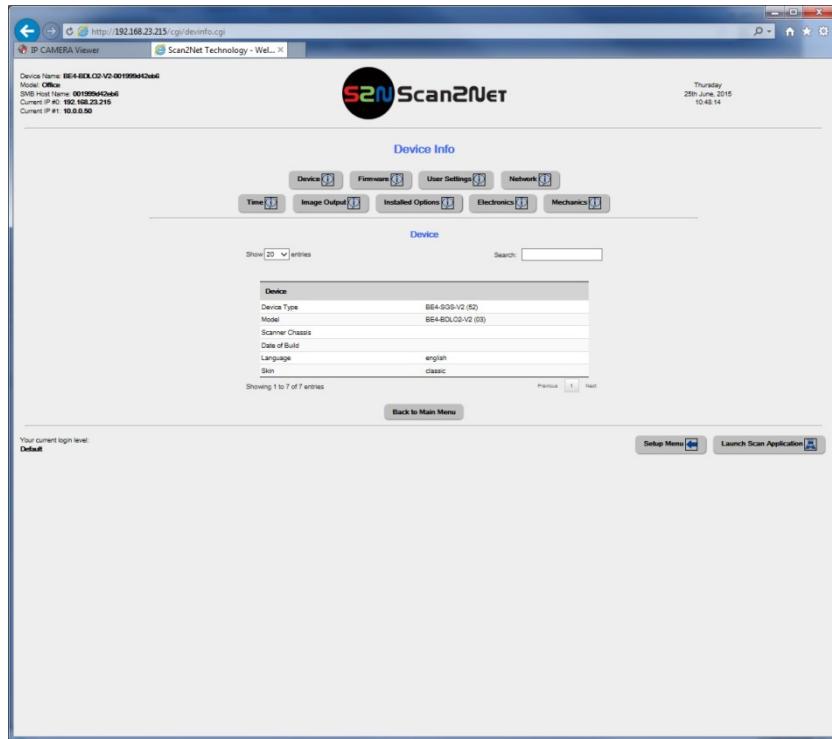
Repeats the measurement and shows the result.

D.3 Device Information

The section **Device Information** gives basic information about the scanner. This section is divided in two parts.

D.3.1 Device Info

Device Info lists the hardware components and provides information about the settings for printer configuration, SMB configuration and many more. To find the information, click the respective button.

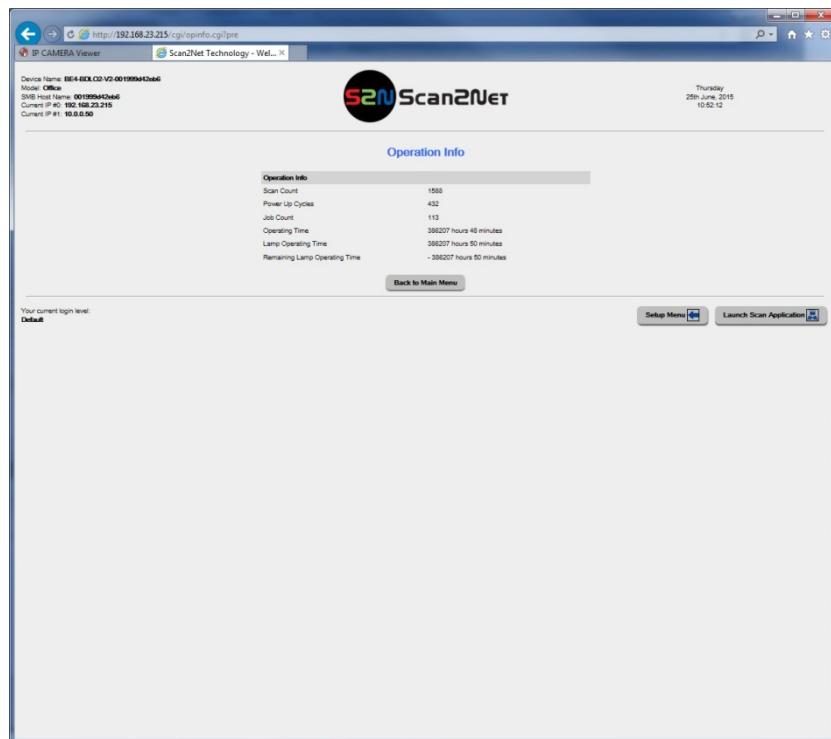


Picture 39: Device Info

To return to the **Poweruser** level main menu click the button [\[Back to Main Menu\]](#).

D.3.2 Operation Info

Operation Info shows the scan counters and provides information about operating times of the scanner and the lamps.

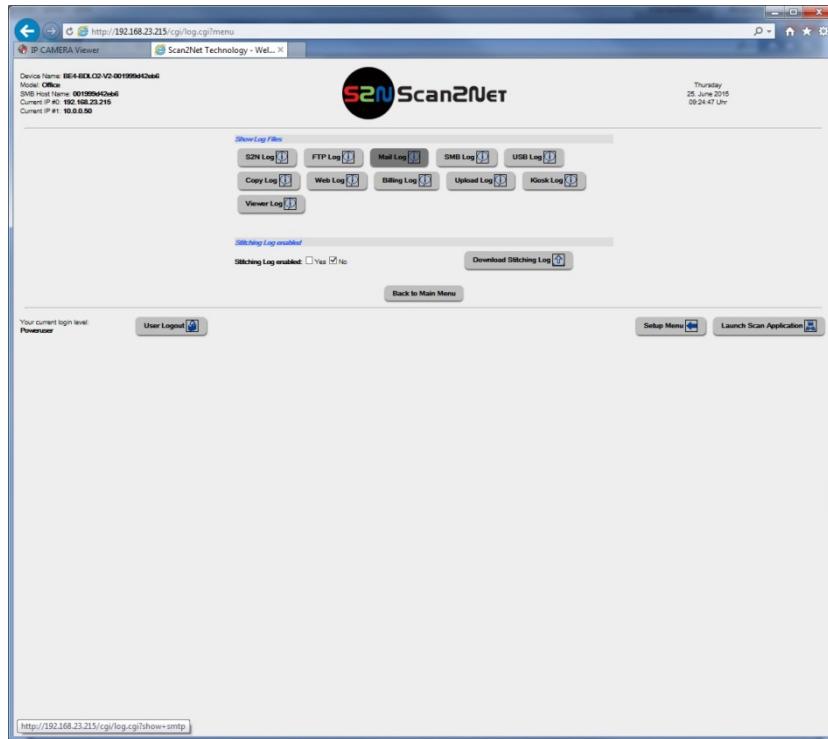


Picture 40: Operation Info

D.3.3 Log Files

D.3.3.1 Show Log Files

While working with the scanner, the activities will be logged in several log files.

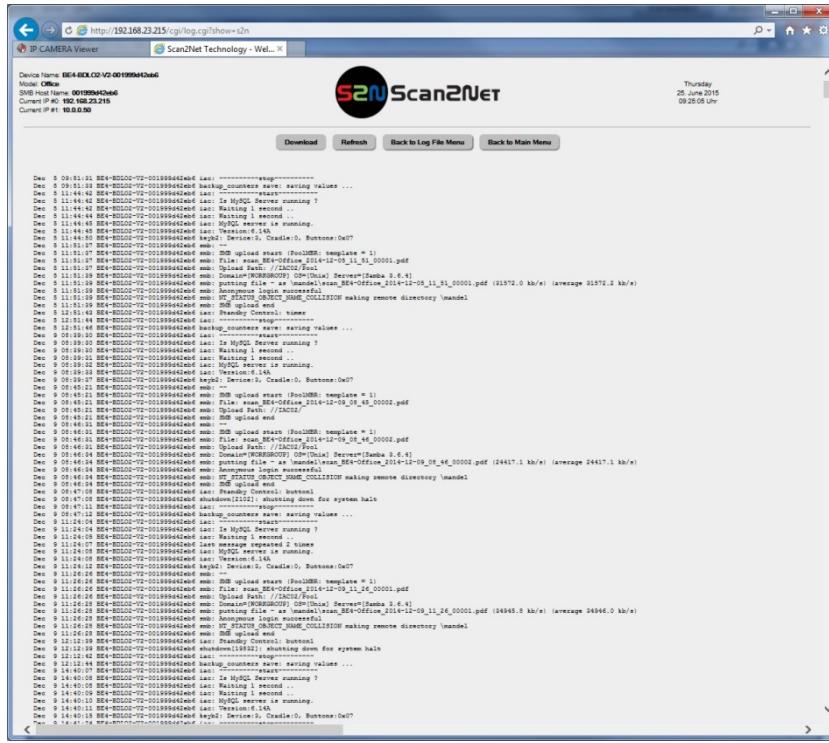


Picture 41: Log files overview

Log file	Content
S2N Log	Lists all activities of the scanner communication.
FTP Log	FTP transfers will be logged with all transfer data.
Mail Log	Mail transfers will be logged with all transfer data.
SMB Log	SMB transfers will be logged with all data.
USB Log	The data transfer to connected USB devices will be logged.
Copy Log	The data transfer between scanner and printer will be logged.
Web Log	The data transfer to a target in the internet will be logged.
Billing Log	All billing relevant data will be logged.
Upload Log	All uploads to the scanner system will be logged.
Kiosk Log	All activities in conjunction with the kiosk functionality will be logged.
Viewer Log	All viewer activities will be logged.

All logs can be saved as ASCII files.

Click on the button of the desired log file to view its contents.



Picture 42: Selection box at the bottom of the screen

Depending on the selected log file the contained information in the log files varies.

Click on the button [Download](#) to save the log file.

A dialog box opens.

Open Opens the log file as ASCII file in a text editor (depends on the operating system).

Save Select between

Save: Saves the log file as ASCII file. File extension “log”.

Save as Allows to save the same log file with a different name.

Save and open: Saves the log file and opens the log file in a text editor.

Exit

Closes the dialog box.

The “Scanner log” file has the most comprehensive content and gives a good overview of the scanner activities.

D.3.3.2 Stitching Log enabled

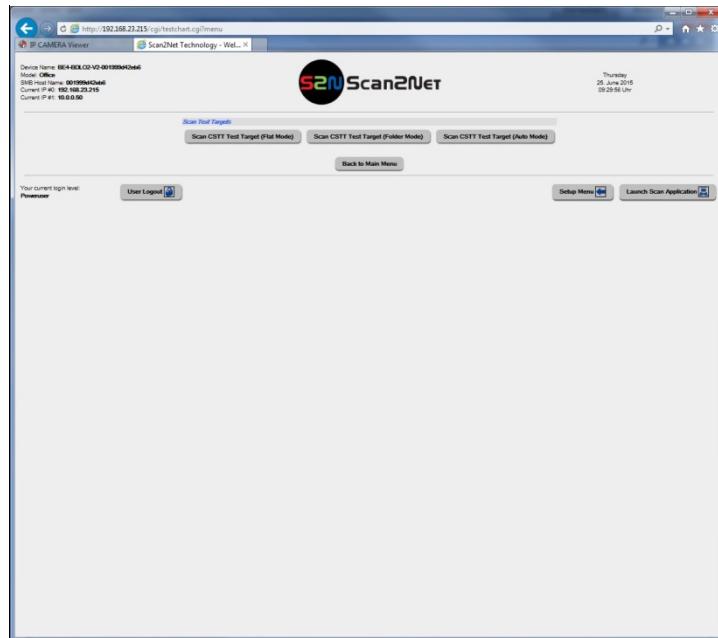
The stitching function is not available with Bookeye scanners.

D.3.4 Scan Test Targets

For system analysis and troubleshooting, it is useful to have an image of the CSTT test target available.

The CSTT test target can be scanned in three different focus modes.

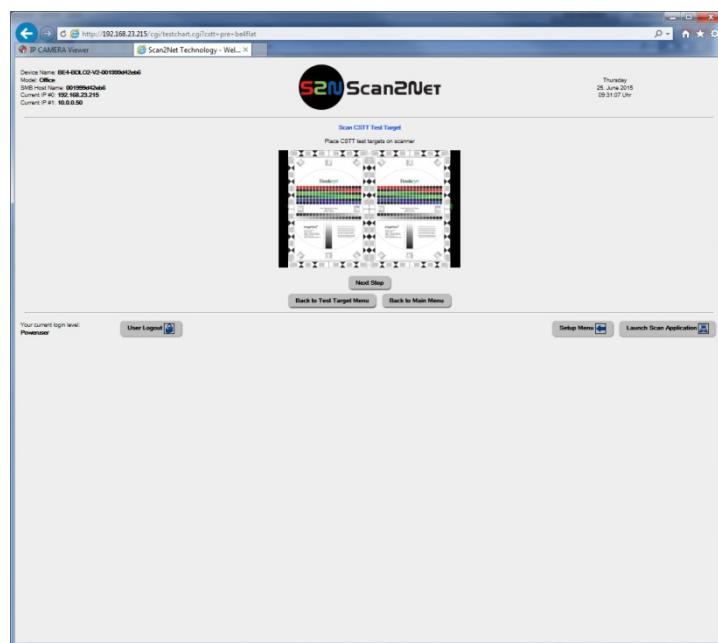
A button is available for each focus mode.



Picture 43: Focus modes for test scans

Select the desired focus mode for the test scan.

The following screen shows how to place the CSTT test target on the book cradles.



Picture 44: Placing the CSTT test target

Next Step starts the scan sequence.

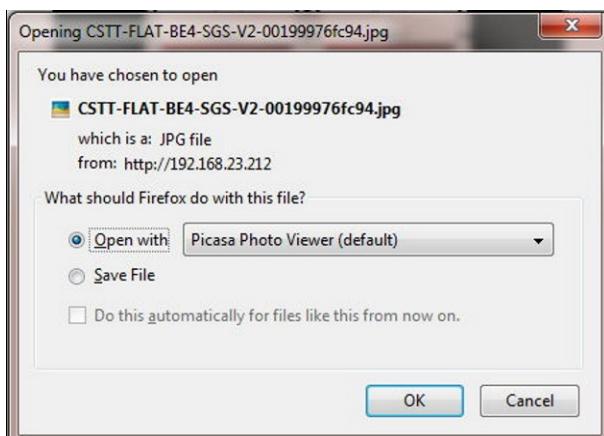
After scanning, the image will not be displayed.

A small window opens. The dimensions of the window depend on the scanner which is used.

Select between opening the image with an appropriate software application or saving the image.

The default image name contains the focus mode, the device type as well as the serial number of the scanner.

Picture 45 shows as an example the window which opens in the Mozilla Firefox browser.



Picture 45: Request after scanning the test target

The file name contains the following information:

CSTT-FLAT-BE4-SGS-V2-00199976fc94

CSTT: Test target name.

FLAT: Specifies the selected focus mode. Also possible are FOLDER and AUTO.

BE4-SGS-V2: Device type, here Bookeye 2, version SGS-V2

00199976fc94: Serial number of the scanner.

This information is helpful for service technicians to find the scanner specific data in the database.

The test target image contains information which allows analysis of the current settings of the scanner and comparison with the factory settings.

D.4 Base Settings

The **Base Settings** section contains the basic parameters of the scanner.

D.4.1 User Settings

The section **User Settings** is divided into subsections.

The **User Settings** start screen is the **Power Saving** screen. The following description starts with the **Language Selection** screen.

D.4.1.1 Target User

Below the title line **User Settings** a target user can be selected.

For the selected **Target User** the modification of the setting will be valid. As factory preset **All**, **Self** and **Default** are available as **Target User**.

- All** The settings modified when the target user **All** is selected affects all users defined in the list.
- Self** The settings defined here affects the currently active user.
- Default** The settings defined with the target user **Default** are active when the scanner is reset to default settings.

Click the selection arrow to see the users available at the scanner.



Picture 46: List of available users settings

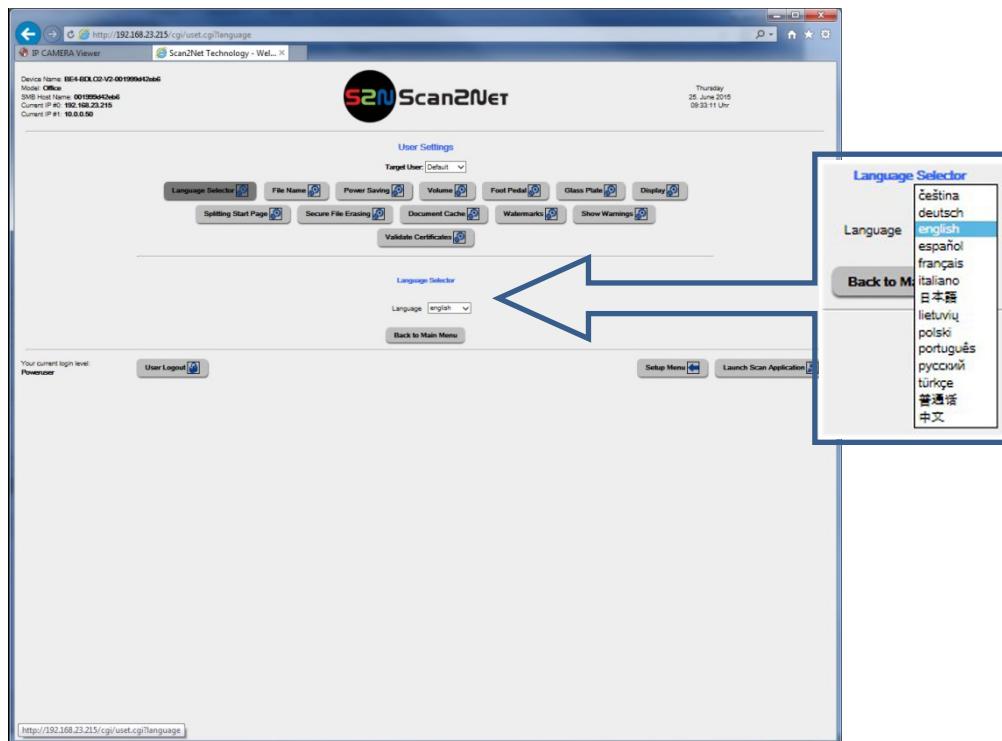
Depending at the selected **Target User** in some menus the number of available items can vary.

The following pictures always show the menu with the user setting **Default** active.

When selecting **User Settings** in the **Base Settings** section the **Power Saving** menu opens as start screen. The description here starts with **Language Selection** and goes through the menus from left to right.

D.4.1.2 Language Selection

Use the function **Language Selector** to set the language for the Scan2Net user interface.



Picture 47: Language selector

Click on the selection arrow and the list of available languages opens.

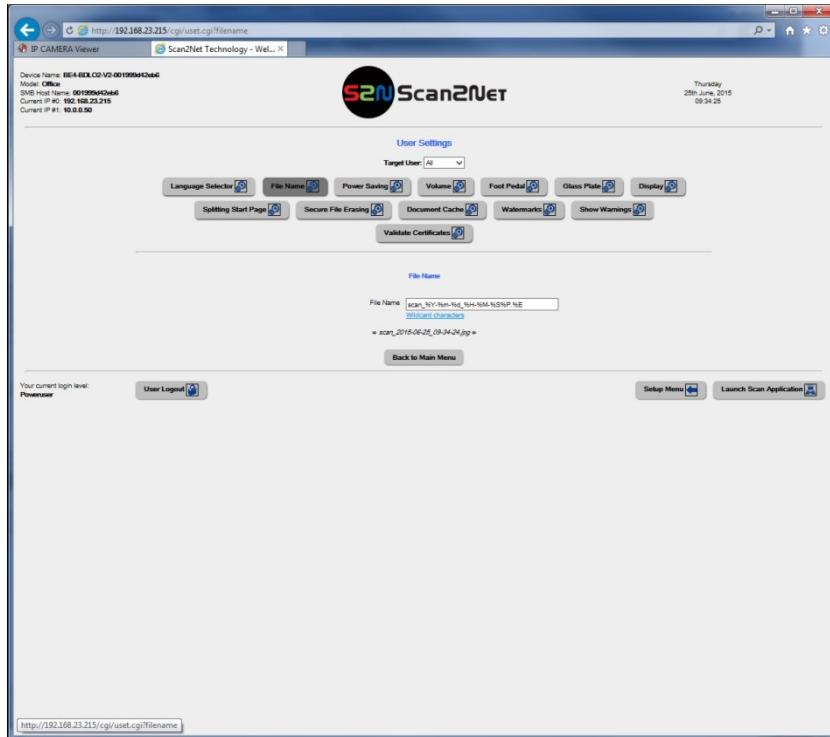
Click on the desired language. The change will be executed immediately. All texts and messages will be displayed in the selected language.

To return to the **Poweruser** level main menu click the button **Back to Main Menu**.

D.4.1.3 File Name

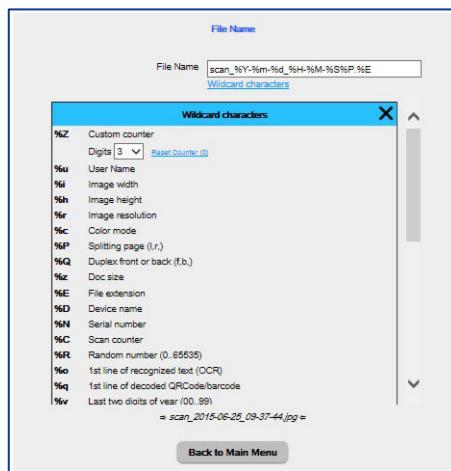
Please note: Available from firmware version 6.08.

Use the function **File Name** to define a default file name when saving scanned images.



Picture 48: File Name settings

Variables can be used in the file name. Click on the link [Wildcard characters](#) to list the available variables.

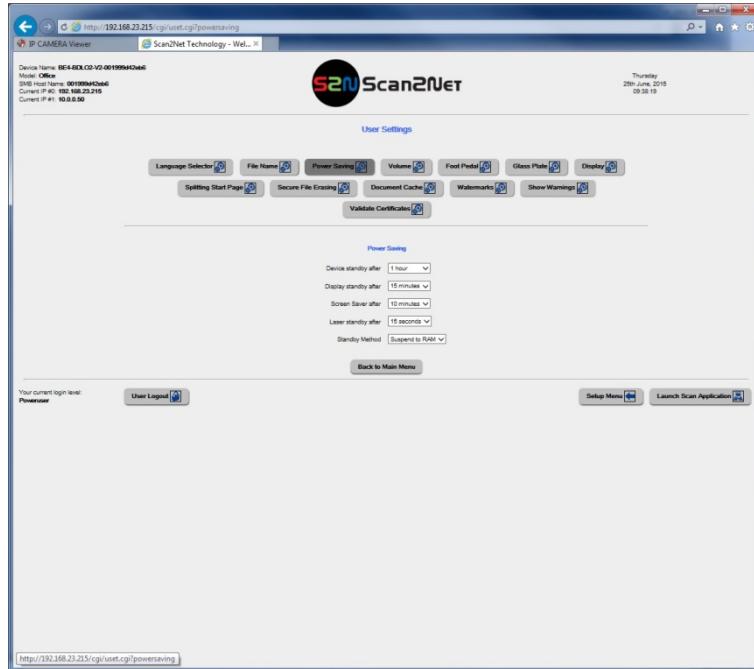


An example of the resulting file name is displayed below in a separate line.

D.4.1.4 Power Saving

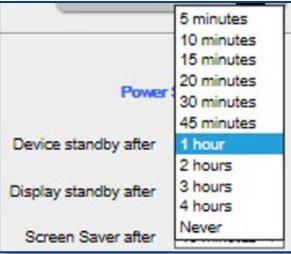
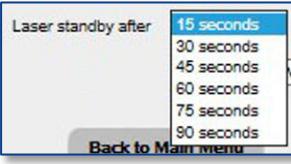
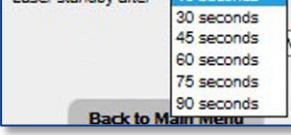
Note: The **Power Saving** screen is the start screen of the **User Settings** section.

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



Picture 49: Power Saving settings

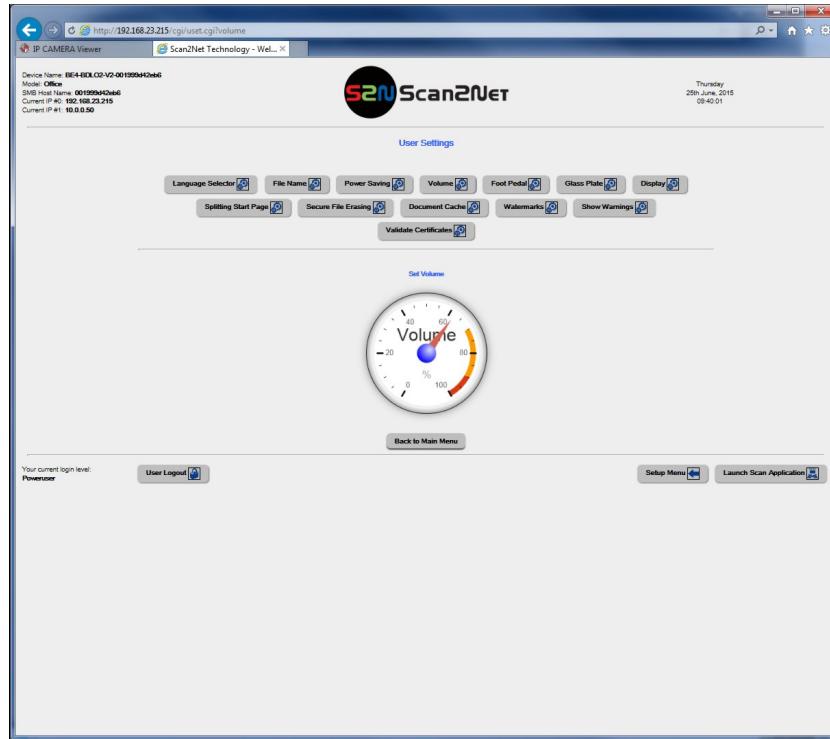
Click on the selection arrow to open the list of available values for the respective standby mode. The list of available values varies with the selected standby mode.

Standby mode	Available values
Device standby	
Display standby	
Screen Saver	
Laser standby	
Standby Method	

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

D.4.1.5 Volume

Use the function **Volume** to set the volume level of the loudspeakers volume in the scanner.



Picture 50: Set Volume

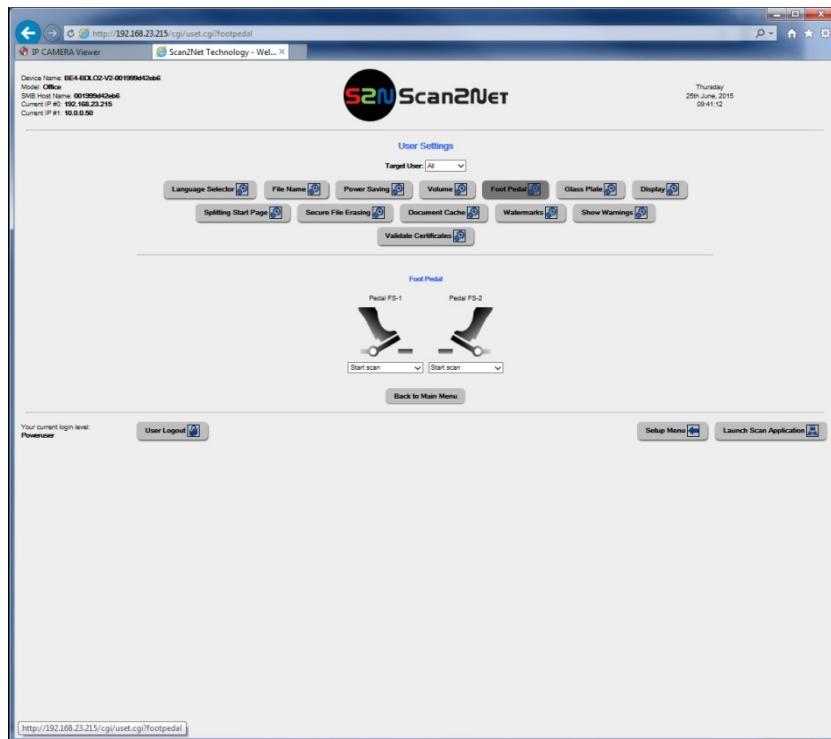
A screen opens and shows a graphic to symbolize the volume level.

Click on the scale to set the volume level or right-click with the mouse at the arrow and move the arrow to the desired value while holding the mouse button pressed.

To return to the previous screen click the button **Back to Main Menu**.

D.4.1.6 Foot Pedal

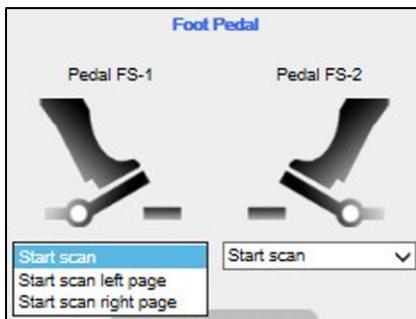
Use the function **Foot Pedal** to define an action for the foot pedals.



Picture 51: Foot pedal settings

The scanner has one connector on its rear side to connect a foot pedal (Picture 14, #4). The functions for the second foot pedal will be used in a future firmware version.

Click below the symbol of **Pedal FS-1** and select from the drop-down list which action should be executed when the pedal is operated.

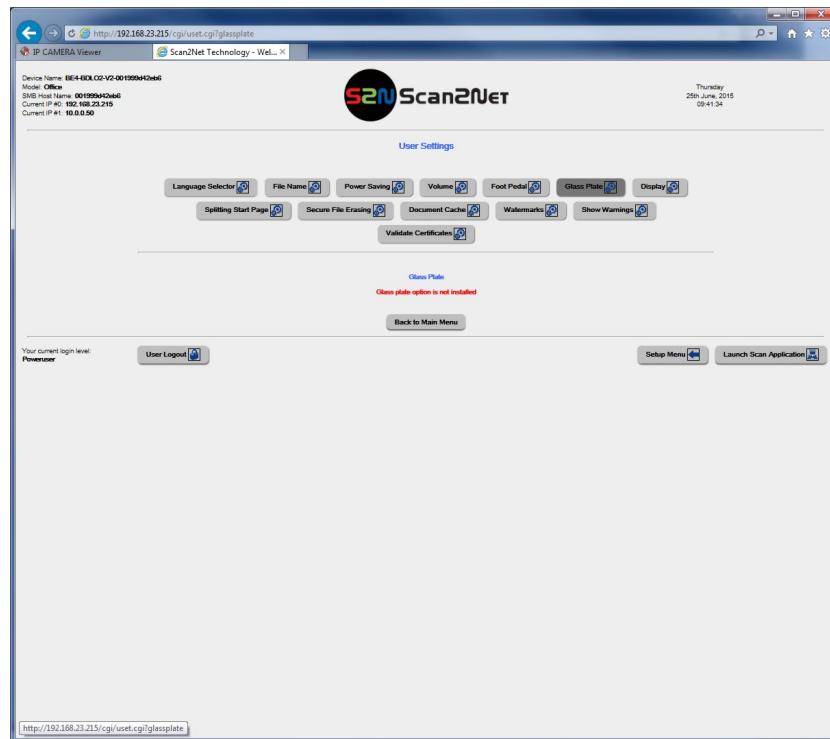


Picture 52: Functions for the foot pedal

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 page of the selected scan area size.
Start scan right page	Starts the scan and displays the right page of the selected scan area size.

D.4.1.7 Glass Plate

Available with software 6.x or higher.



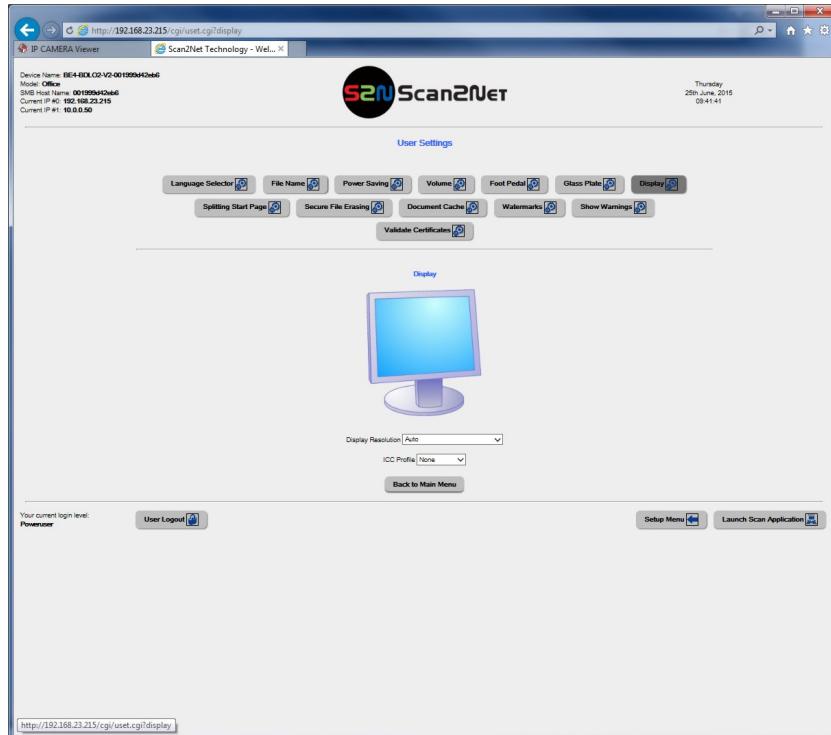
Picture 53: Shows glass plate parameters if installed

If an optional glass plate is installed, this menu item shows the settings offered in conjunction with the glass plate.

This feature will be used in a coming software version.

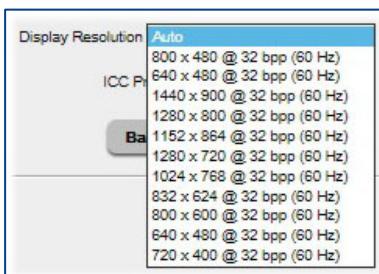
D.4.1.8 Display

Use the function **Display** to define the resolution of the external monitor and to select an ICC profile.



Picture 54: Display parameters

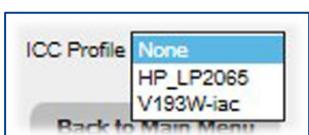
The Bookeye[®] 4 scanner comes with an external monitor with a resolution of 1366 x 768 pixels by default.



To change the resolution, click the selection arrow in the line **Display Resolution**.

Select the desired resolution from the list.

Restart the scanner to activate the setting.



To link an ICC profile to the monitor, click the selection arrow in the line **ICC Profile**.

The available ICC profiles will be displayed. Select the desired profile.

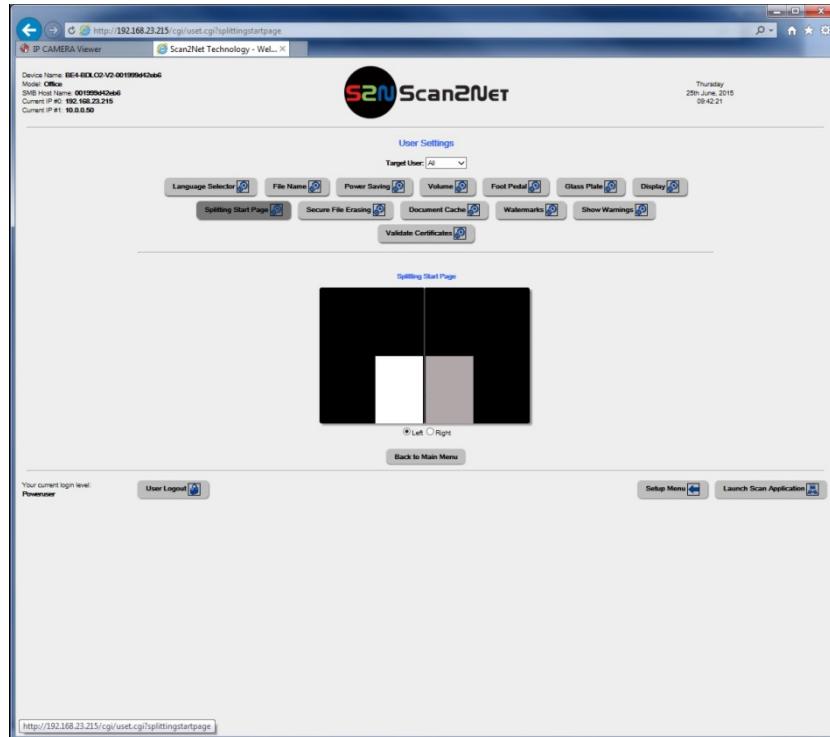
Restart the scanner to activate the setting.

D.4.1.9 Splitting Start Page

The availability depends on the Bookeye® 4 scanner model.

Use the function **Splitting Start Page** to define the page which is displayed first, when **Splitting Image** is set to **Auto** in the ScanWizard user interface.

See the Operation Manual, description of **Properties → Splitting Image**.



Picture 55: Splitting start page

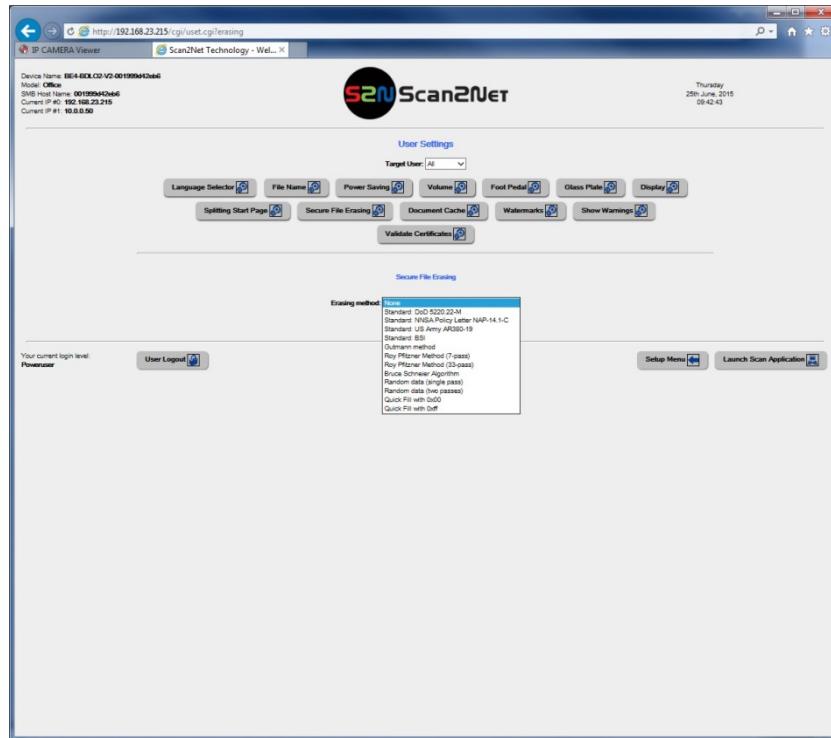
The selected start page is highlighted.

Click on the radio button to change the selected page.

D.4.1.10 Secure File Erasing

New with software 6.x or higher.

This menu item allows selecting the erasing method for files stored in the scanner memory.



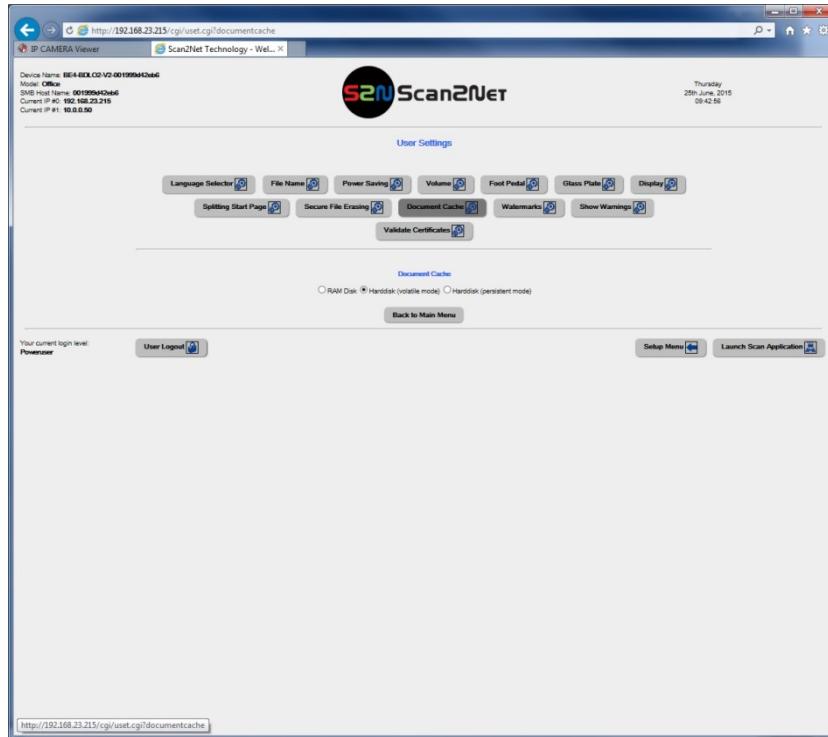
Picture 56: List of available erasing methods

Click on the selection arrow to open the list of erasing methods.

Select the desired method by clicking on the methods name.

D.4.1.11 Document Cache

The data which will be generated while scanning can be stored either on the RAM Disk or on the hard disk of the scanner.



Picture 57: Document cache selector

Click on the radio button to select the desired storage media when scanning in **Job** mode.

RAM disk: Default setting:

Images will be stored in **Job** mode only in the RAM disk.

That means: Power off → Data gone

When the **Job** mode is finished, the data will be deleted automatically.

Harddisk (volatile mode): The data will be stored at the integrated hard disk.

The advantage in comparison to RAM disk is that a greater amount of images can be stored on the hard disk.

That means: Power off → Data gone

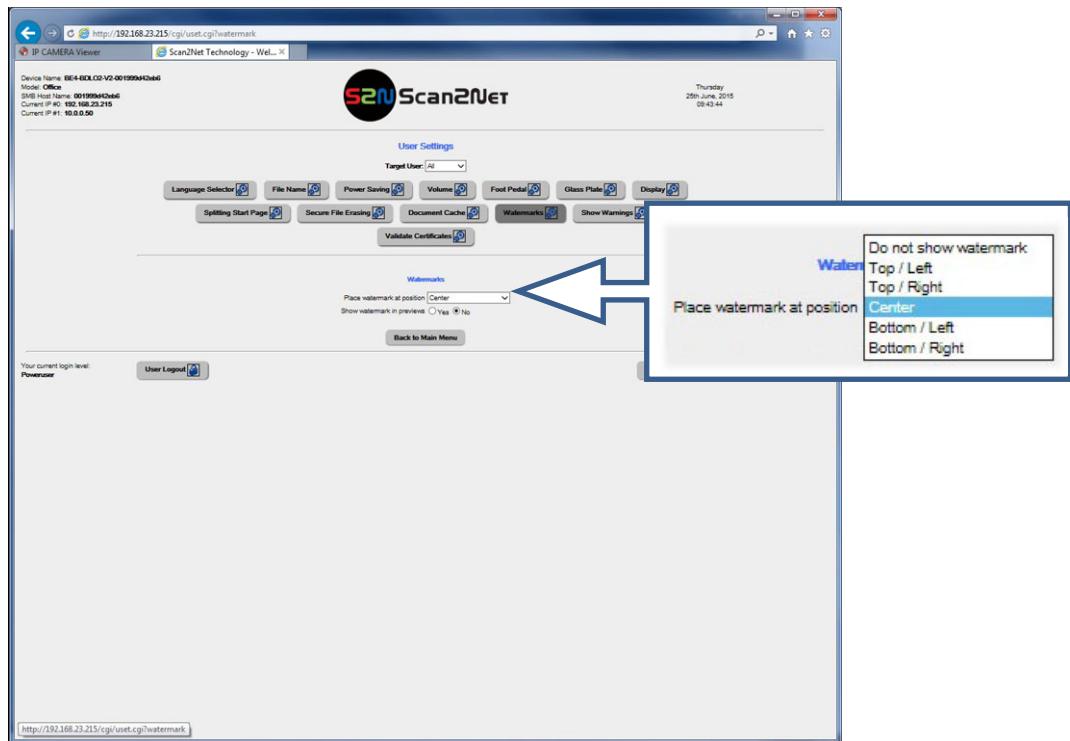
When the **Job** mode is finished, the data will be deleted automatically.

Harddisk (persistent mode): The data will be stored permanently at the hard disk.

This mode is used in conjunction with applications that open more than one job at the same time.

D.4.1.12 Watermarks

Use the function **Watermarks** to set the position of the watermark text in the image.

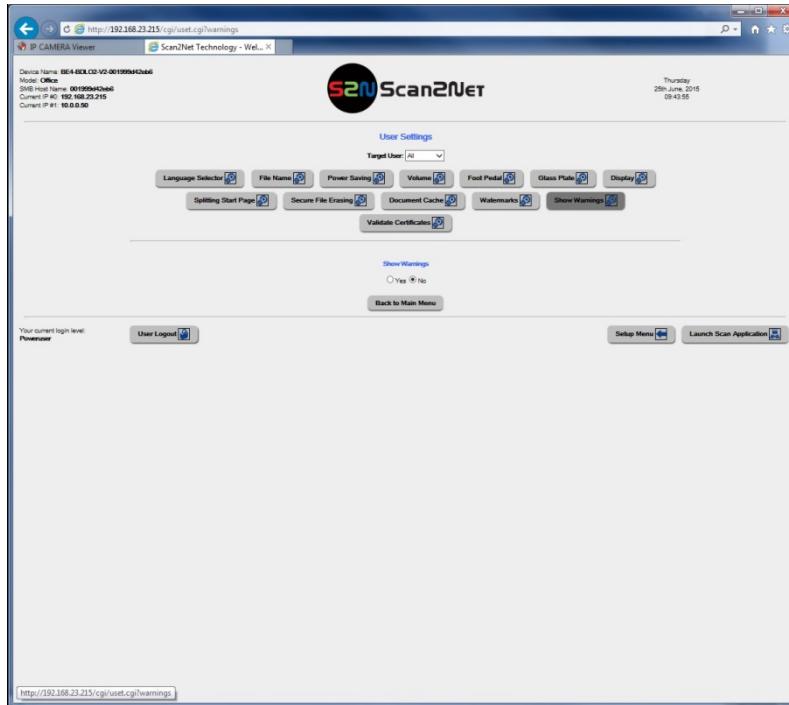


Picture 58: Set Watermark position

Select from the list the desired position of the watermark text. The watermark will be inserted in every image at the defined position.

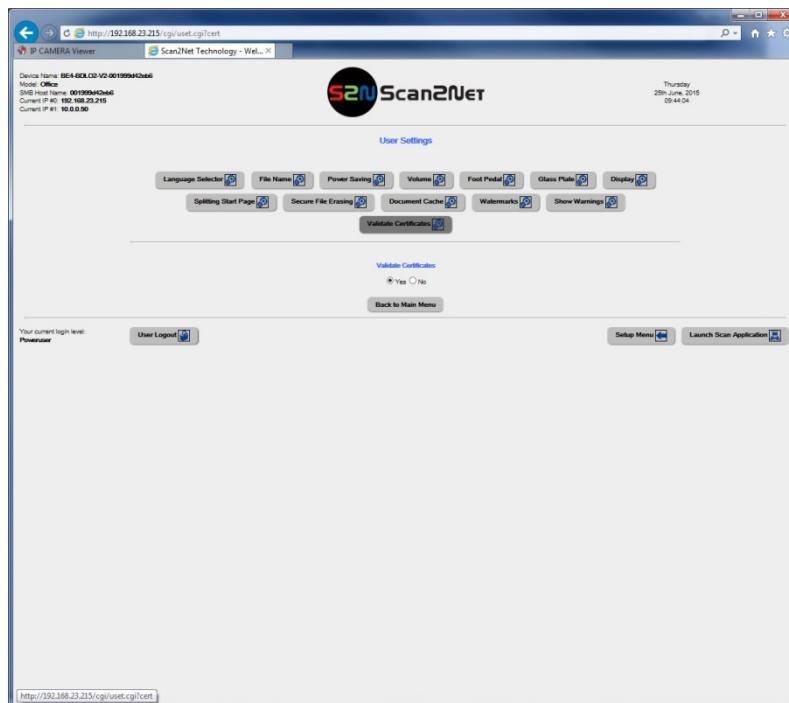
D.4.1.13 Show Warnings

Use the function **Show Warnings** to set warning messages on or off in the ScanWizard user interface.



Picture 59: Show Warnings selector

D.4.1.14 Validate Certificates

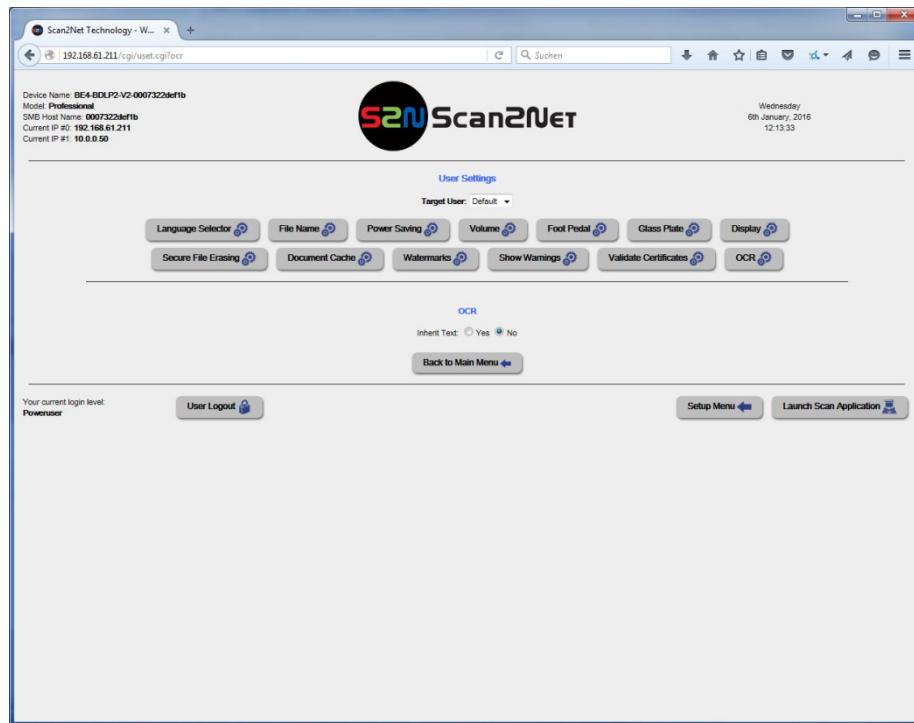


Picture 60: Activate/deactivate the certificate validation

Select **Yes** to activate the certificate validation.

D.4.1.15 OCR

The availability depends on the Bookeye[®] 4 scanner model.



Picture 61: Enable / disable text takeover

Select **Yes** in order to add the resulting text as additional layer to the PDF file after using the OCR function.

D.4.2 Network Configuration

The section **Network Configuration** is divided in subsections.

The **Network Configuration** start screen is the **IPv4 (Network Interface 0)** screen, which is described in chapter D.4.2.2. The following description starts with the **IP Configuration Method** screen.

Depending on whether a WLAN module is installed, the menu content or the menu scope of some subsections can vary.

Important, when configuring network settings:

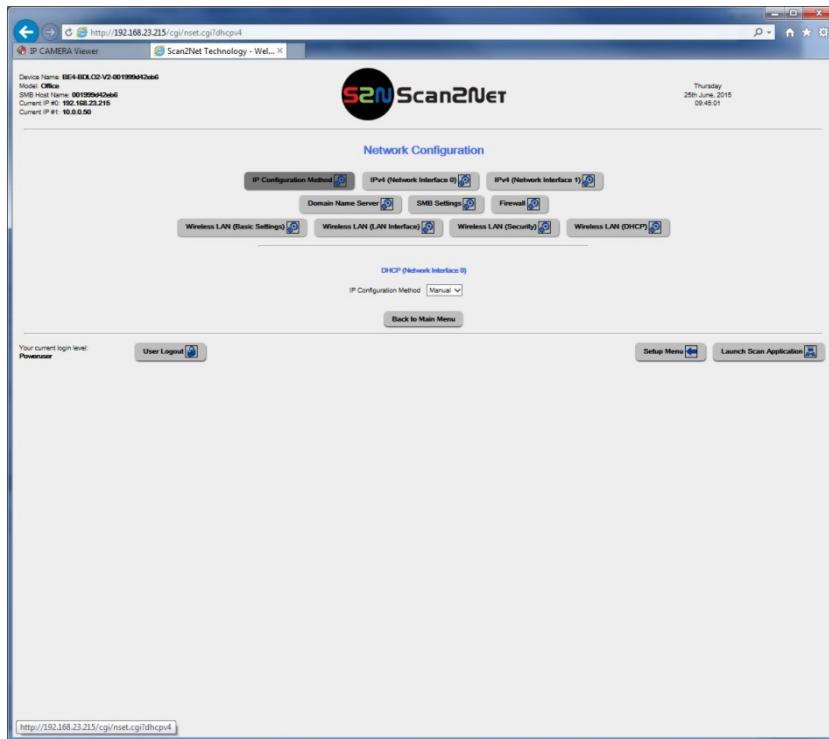
After changing the IP address settings and transferring the new settings enter the new IP address of the scanner in your browser and reopen the **Poweruser** main menu as previously described.

In some cases it is necessary to refresh the window displayed in the browser to get the new values.

A note will inform you at the respective menu items.

D.4.2.1 IP Configuration Method

The function **IP Configuration Method** allows the operator to select between two methods of IP configuration of the scanner.



Picture 62: IP Configuration Method

Manual Allows setting the IP address, subnet mask, and default gateway manually; corresponding to the network where the scanner will be used.

After modifying the above named values, the connection to the scanner must be reopened with the new data.

DHCP Sets the values for IP address, subnet mask, and default gateway automatically, depending on the existing network where the scanner is installed.

A DHCP server must be accessible in the network. For detailed information, ask the network administrator of the local network before selecting the DHCP method.

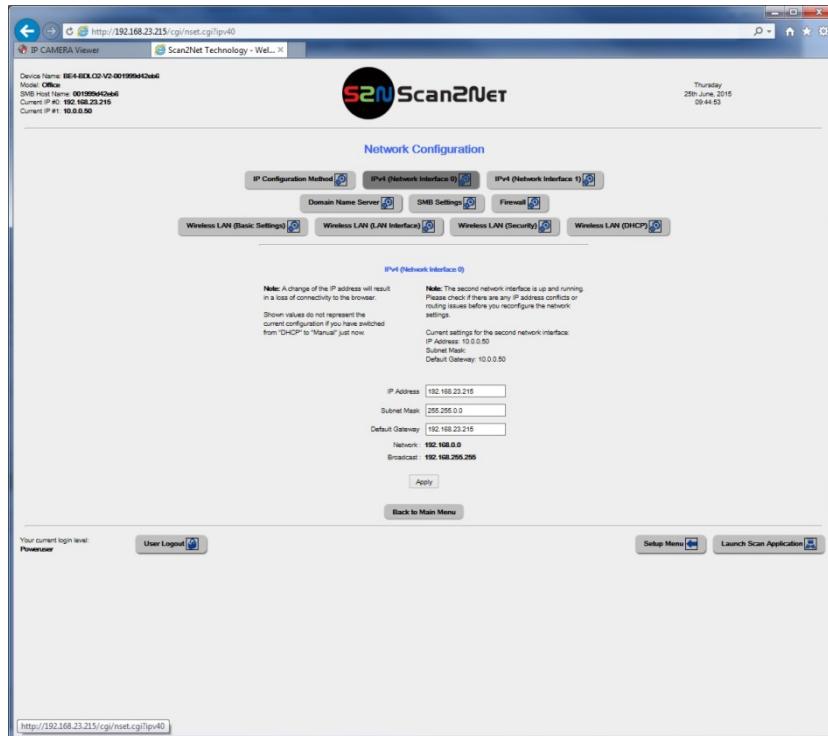
When selecting **DHCP** the connection to the scanner is lost. The connection to the scanner must be restored with the new data.

Important for the next steps:

After changing the network settings, enter the new IP address of the scanner in your browser and reopen the **Poweruser** main menu as previously described.

D.4.2.2 IPv4 (Network Interface 0)

The function **IPv4 (Network Interface 0)** allows the operator modifying the parameters for the “Network Interface 0”. This is the primary network and is used for communication with external network devices.



Picture 63: Settings of IPv4 (Network Interface 0)

The screen shows the parameters for “Network Interface 0”.

IP address Enter the IP address which should be used by the scanner.

Subnet Mask Enter the value for the subnet mask.

Default Gateway Enter the value for the gateway. In most cases this is the IP address of the scanner.

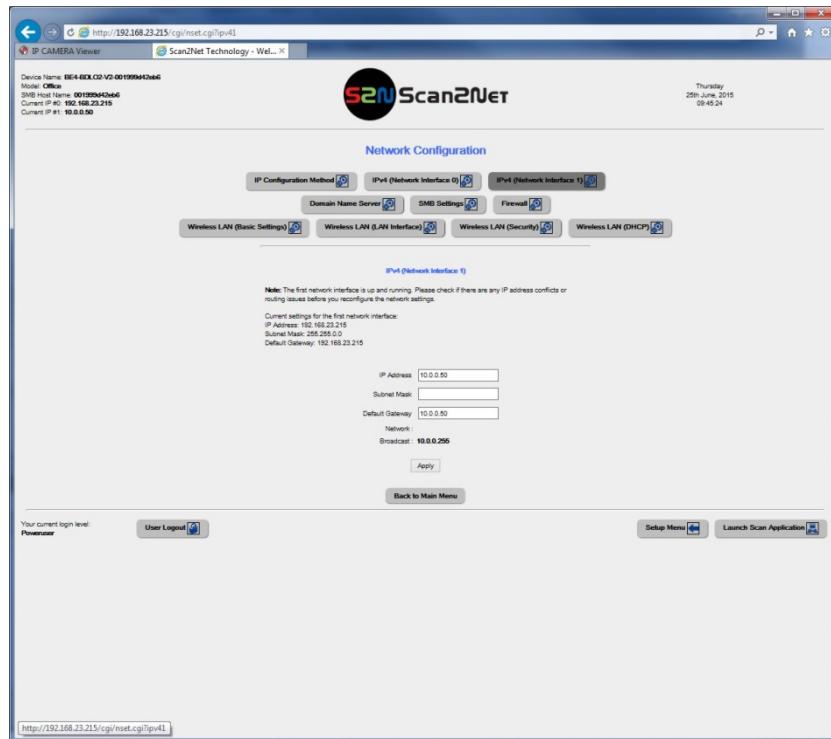
After modifying the network parameters, click on **Apply** to transfer the new settings to the scanner. The scanner is now accessible with its new IP address.

Note: After changing the IP address the connection to the scanner gets lost. Enter the new IP address in your browser to get re-connected with the scanner.

Depending on the browser used, it is necessary to delete the browser cache before the scanner is accessible.

D.4.2.3 IPv4 (Network Interface 1)

The function **IPv4 (Network Interface 1)** allows the operator modifying the parameters for the “Network Interface 1”. This is the secondary network and is used for communication with internal network devices, e.g. the WLAN module (Office version) or a fingerprint reader (Kiosk version).



Picture 64: Settings of IPv4 (Network Interface 1)

The screen shows the parameters for the “Network Interface 1”.

Note: Two different WLAN modules are possible with the scanner. The main difference is the IP address, which is preconfigured for the module.

Either the default IP address 10.0.0.50 or 172.16.0.50 is pre-configured for the communication with the WLAN module.

IP address Enter the IP address for the “Network Interface 1”.

Subnet Mask Enter the value for the subnet mask.

Default Gateway Enter the value for the gateway.

After modifying the network parameters, click on **Apply** to transfer the new settings to the scanner. The “Network Interface 1” is now accessible with its new IP address.

Note: Depending on the browser to be used, it is necessary to delete the browser cache before the scanner is accessible.

D.4.2.3.1 Solving a routing conflict in a network

As said before, the “Network Interface 0” is used for the communication with external networks; “Network Interface 1” is used for the internal communication with the WLAN module.

If the scanner should be operated in an existing network that is configured in the IP address range 10.0.0.x/24 or 10.0.x.x/16 and a host with the IP address 10.0.0.1 is used in this network, a routing conflict will occur.

In the following example the IP address of the WLAN module will be changed to the IP address **172.16.0.1**.

To solve the routing conflict, the following steps must be executed in the described order:

1. Note the network settings of the existing network, in which the scanner should be integrated.
2. The “Network Interface 0” parameters of the scanner must be set temporarily to the factory values. This can be done directly from the touchscreen (see chapter C.6).

IP address: 192.168.1.50

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.50

3. Connect the scanner directly with a PC. The network parameters of the PC must allow accessing a network with the address range 192.168.1.x.

4. Start the scanner and select the **Poweruser** setup level.

5. Select Base Settings → Network Configuration → Wireless LAN (DHCP). See chapter D.4.2.10.

6. Set the DHCP client range to 172.16.0.51 – 172.16.0.251. Click the **Apply** button.

7. Select Base Settings → Network Configuration → Wireless LAN (LAN Interface). See chapter D.4.2.8. Set the parameters for the WLAN module as follows:

IP address: 172.16.0.1

Subnet mask: 255.255.255.0

Default gateway: 172.16.0.1

Click the **Apply** button. The connection to the WLAN module gets temporarily lost.

8. Select Base Settings → Network Configuration → IPv4 (Network Interface 1). See chapter D.4.2.3. Set the parameters for “Network Interface 1” as follows:

IP address: 172.16.0.50

Subnet mask: 255.255.255.0

Default gateway: 172.16.0.50

Click the **Apply** button. The connection between WLAN module and scanner is now accessible.

9. Select Base Settings → Network Configuration → IPv4 (Network Interface 0). See chapter D.4.2.2. Enter the previously noted parameters according to the network in which the scanner should be used.

The same procedure can be executed when the WLAN module with IP address 172.16.0.50 should be used in a network that is configured in the address range 172.16.0.x/24 or 172.16.x.x/16. Adapt the network address accordingly.

D.4.2.4 Domain Name Server

This section defines the parameters for the **Domain Name Server**.



Picture 65: Domain Name Server parameters

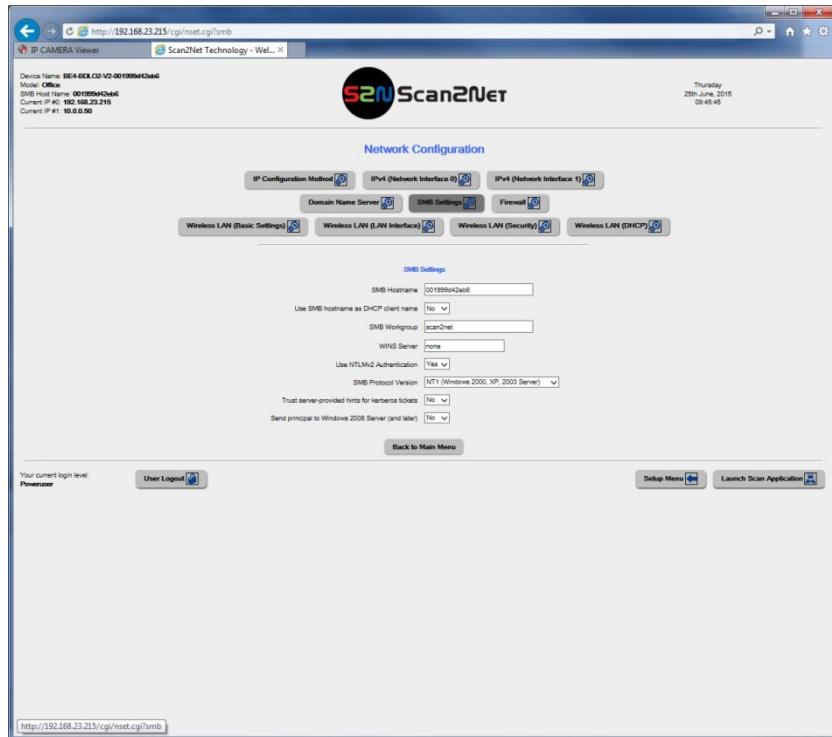
Domain Name Enter the domain name here.

Primary DNS Server Enter the address of the primary DNS server here.

Secondary DNS Server Enter the address of the secondary DNS server here.

D.4.2.5 SMB Settings

This section defines the parameters for the **SMB Settings**.



Picture 66: SMB Settings

Note: The default settings are recommended.

SMB Hostname	Enter an SMB host name to identify the scanner in the network. Default is the MAC address of the scanner.
Use SMB hostname as DHCP client name	The SMB hostname will be transferred to the DHCP server and displayed in the network clients list.
SMB Workgroup	Enter the SMB workgroup in which the scanner is installed.
WINS Server	If a WINS server is used, enter the IP address of the server or \\<Server name> here.
Use NTLMv2 Authentication	Select either Yes or No .
SMB Protocol Version	Select from the settings offered in the list. The recommended operation systems for the protocol version are named in brackets.
Trust server-provided hints for kerberos tickets	<p>No: Recommended</p> <p>Yes: Can be used with older Windows server systems.</p>
Send principal to Windows 2008 Server (and later)	<p>No: Recommended, higher security.</p> <p>Yes: Low security, but higher compatibility.</p>

D.4.2.6 Firewall

This section allows setting the firewall parameters.



Picture 67: Firewall settings

The standard ports for the protocols are displayed in brackets.

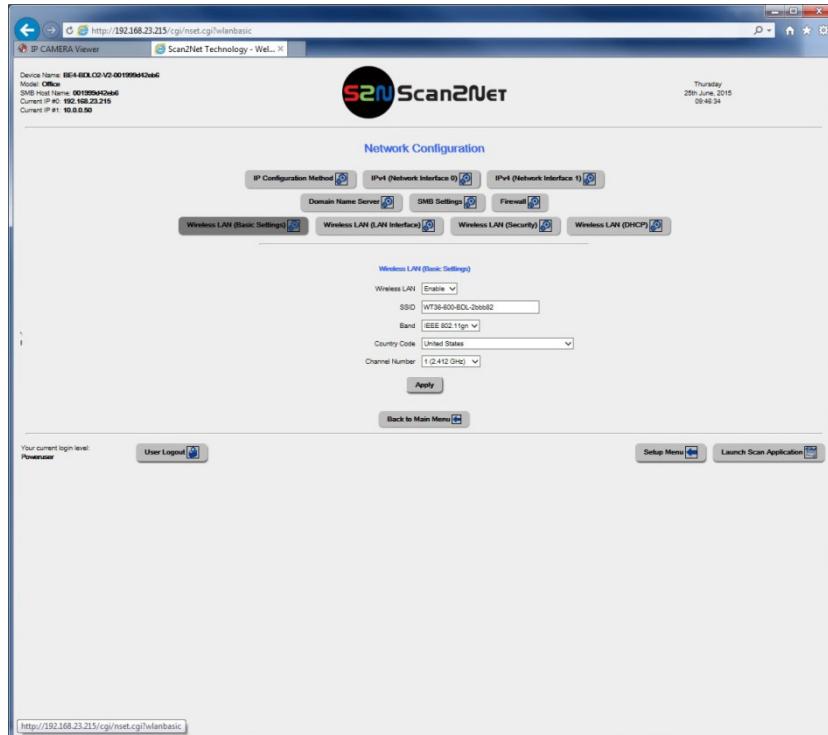
- | | |
|-----------------------|--|
| allow all | No restriction for the use of the protocol |
| allow only for | Enter the IP address or the address range in CIDR notation for the devices which are allowed to use the protocol.
CIDR notation means e.g. 192.168.0.x/24 or 172.16.x.x/16. |
| block all | Blocks all communication for the protocol. |

After modifying the values click on **Apply** to transfer the modified settings.

D.4.2.7 Wireless LAN (Basic Settings)

Use the function **Wireless LAN (Basic Settings)** to define the basic settings for the WLAN module.

Note: This menu is displayed only if a WLAN module is installed and if the settings for **IPv4 (Network Interface 1)** and **Wireless LAN (LAN Interface)** fit together.



Picture 68: Wireless LAN Basic Settings

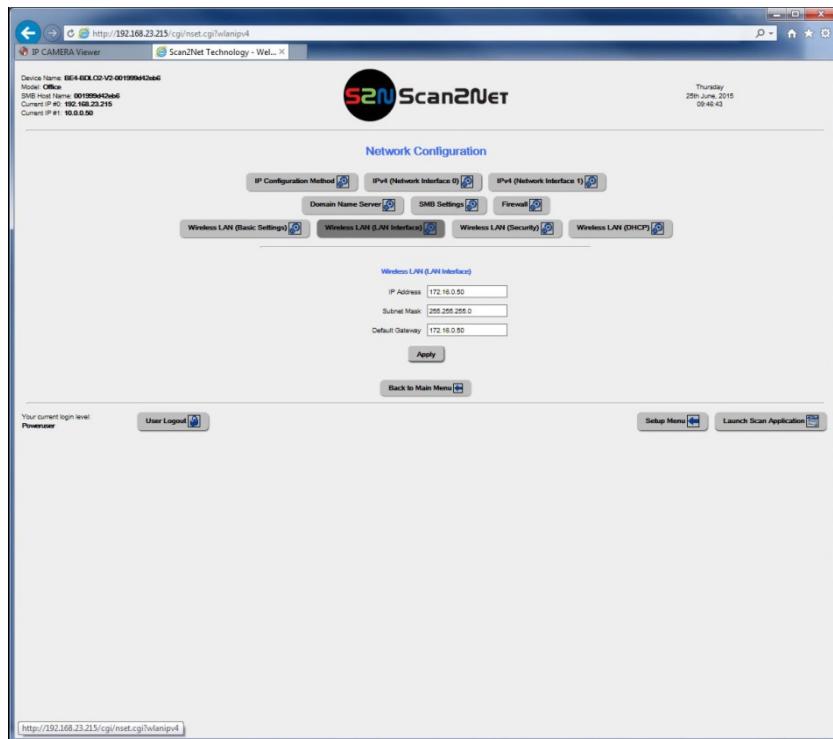
Note: The default settings are recommended.

- | | |
|-----------------------|--|
| Wireless LAN | Click on the selection arrow to enable or disable the wireless LAN. |
| SSID | Enter a name to identify the WLAN of the scanner. |
| Band | Click on the selection arrow to open the list.
Select from the list the desired band for the WLAN communication. |
| Country Code | Select the country where the scanner is used. This setting defines the frequency range which is used for WLAN communication in the respective country. After selecting another country code, click on Apply to refresh the channel number list. |
| Channel Number | The quantity and the frequencies displayed in the list depend on the selected country code. If the data transfer between scanner and wireless device are disturbed, it is recommended to select another channel. |
- After modifying the WLAN parameters, click on **Apply** to transfer the new settings.
- Follow the note regarding the reboot sequence.

D.4.2.8 Wireless LAN (LAN Interface)

Use the function **Wireless LAN (LAN Interface)** to define the parameters for the WLAN adapter. Depending at the WLAN module which is integrated into the scanner, the values for **IP Address** and **Default Gateway** can vary.

Note: This menu is displayed only if a WLAN module is installed and if the settings for **IPv4 (Network Interface 1)** and **Wireless LAN (LAN Interface)** fit together.



Picture 69: Wireless LAN (LAN Interface)

The WLAN modules differ in the IP address which is available for communication.

The IP address which can be entered here must fulfil two criteria:

- Only IP addresses for private networks are allowed.
- The IP address of the WLAN module and the IP address range of the network, where the scanner should be established, must not come in conflict.

IP address Enter the IP address of the WLAN module.

Subnet Mask Enter the value for the subnet mask.

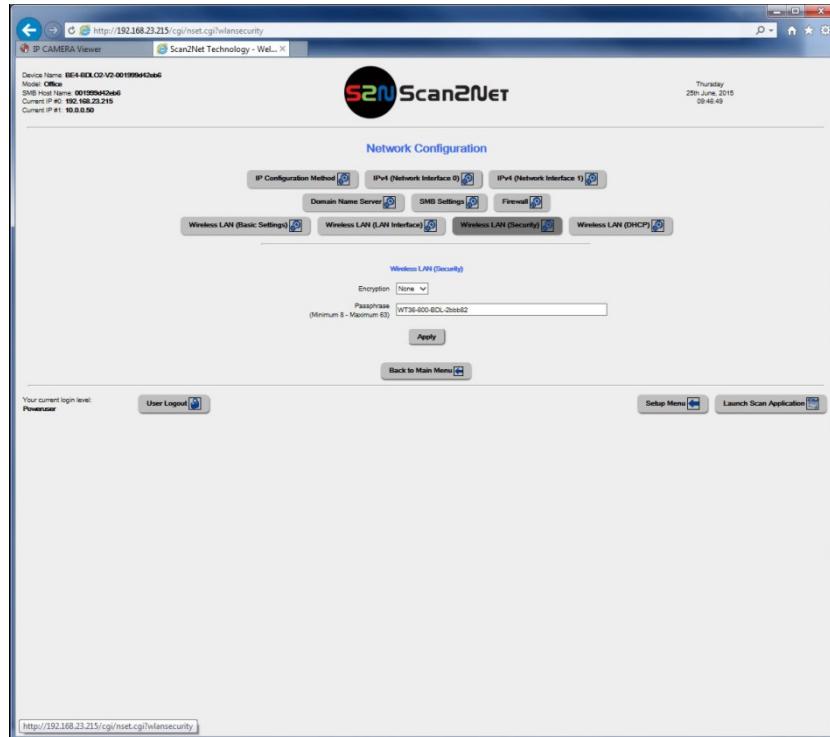
Default Gateway Enter the value for the gateway.

After modifying the network parameters, click on **Apply** to transfer the new settings to the scanner. The scanner is now accessible with its new IP address.

D.4.2.9 Wireless LAN (Security)

Use the function **Wireless LAN (Security)** to define the parameters for wireless LAN security.

Note: This menu is displayed only if a WLAN module is installed and if the settings for **IPv4 (Network Interface 1)** and **Wireless LAN (LAN Interface)** fit together.



Picture 70: Wireless LAN (Security)

The screen shows the parameters for wireless LAN security.

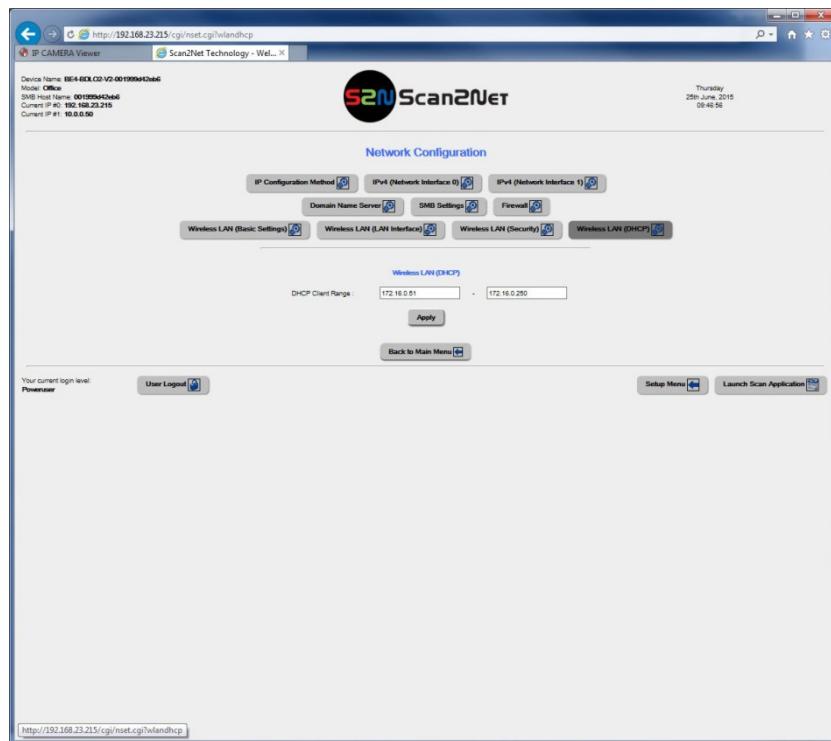
Encryption	None: No encryption, no security. WPA 2: Recommended. Encryption according to the WPA 2 standard, high security.
Passphrase	Enter a string as passphrase here.

After modifying the parameters, click on **Apply** to transfer the settings to the scanner.

D.4.2.10 Wireless LAN (DHCP)

Use the function **Wireless LAN (DHCP)** to define the range of IP addresses that can be used by the WLAN module for DHCP access.

Note: This menu is displayed only if a WLAN module is installed and if the settings for **IPv4 (Network Interface 1)** and **Wireless LAN (LAN Interface)** fit together.



Picture 71: Wireless LAN (DHCP)

Click in the corresponding fields and enter the start IP address and the end IP address to define the address range that can be used.

D.4.3 Adjust Time & Date

The section **Adjust Time & Date** is divided into subsections.

The **Manual Adjustment** screen is the start screen of the section **Adjust Time & Date**. Its content is described in chapter D.4.3.3.

The description here starts with the **Time Format** screen.

To set the time correctly for the scanner, make the adjustments in the following order.

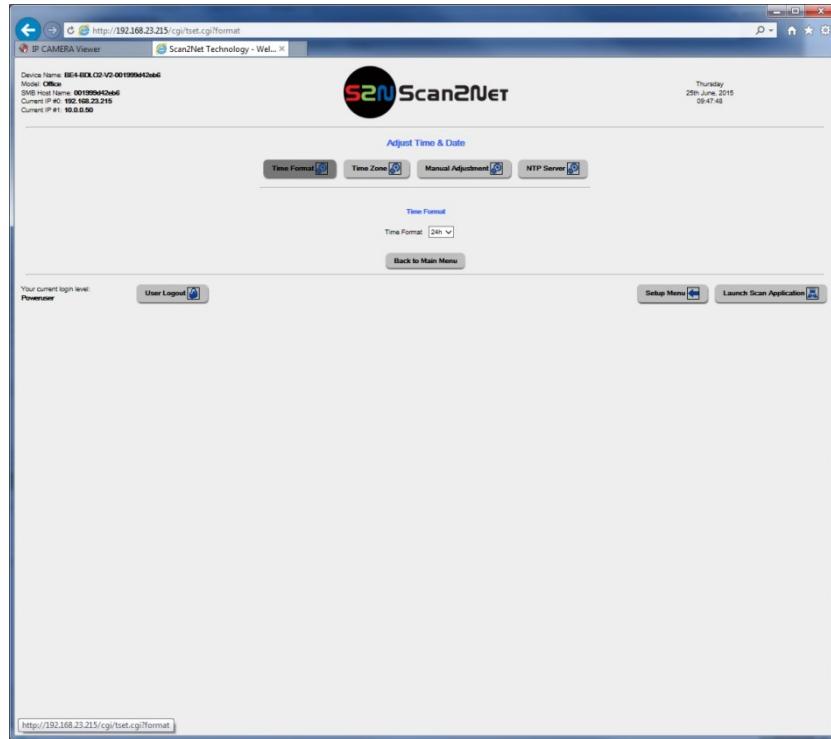
Select the time zone. See chapter D.4.3.2.

Set your local time with the manual adjustment. See chapter D.4.3.3.

Establish a connection to an NTP server. See chapter D.4.3.4.

D.4.3.1 Time Format

The time shown in the headline of the Scan2Net user interface can be displayed in either 12h or 24h format.



Picture 72: Time Format

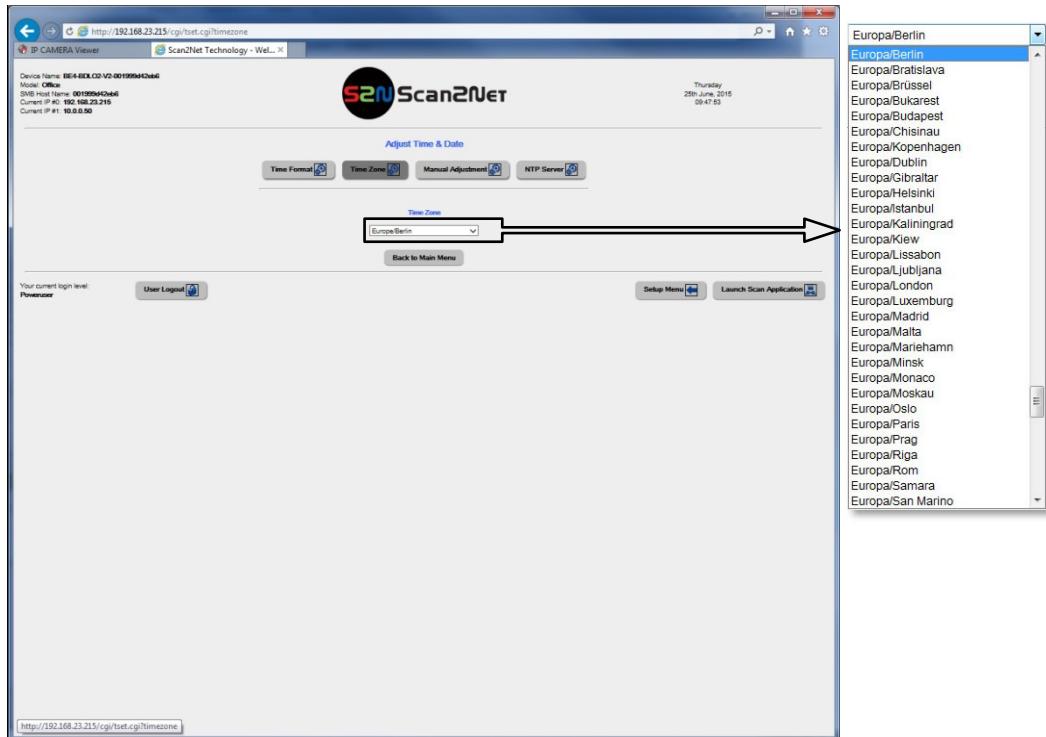
Click on the selection arrow. The differences between 12h and 24h format are shown below.

Note: The screenshot cutouts were taken from a screen where German language was selected. To understand the differences between 12h and 24h format compare the last lines.

	Time Format 12h	Time Format 24h
Display from 00:00 to 11:59	Dienstag 8. Oktober 2013 10:38:03 AM Uhr	Dienstag 8. Oktober 2013 10:38:21 Uhr
Display from 12:00 to 23:59	Dienstag 8. Oktober 2013 1:37:28 PM Uhr	Dienstag 8. Oktober 2013 13:37:05 Uhr

D.4.3.2 Time Zone

Use the function **Time Zone** to define the time zone for the internal clock of the scanner.



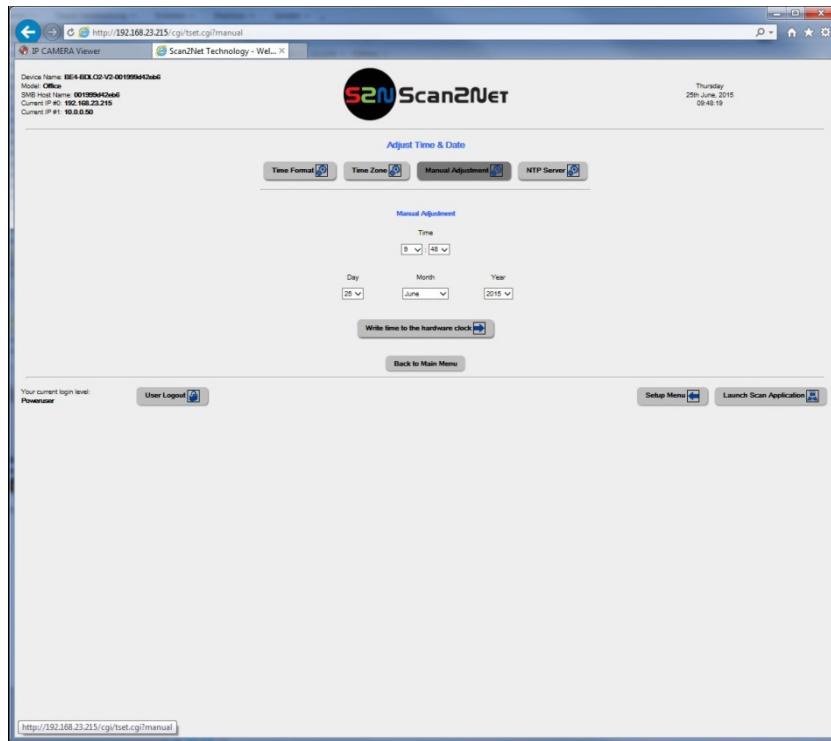
Picture 73: Time Zone screen

Click on the selection arrow. A list opens.

Select the desired time zone from the list. The list will close and the selected setting is effective immediately.

D.4.3.3 Manual Adjustment

Use the function **Manual Adjustment** to set time and date to be displayed in the headline of the ScanWizard user interface.



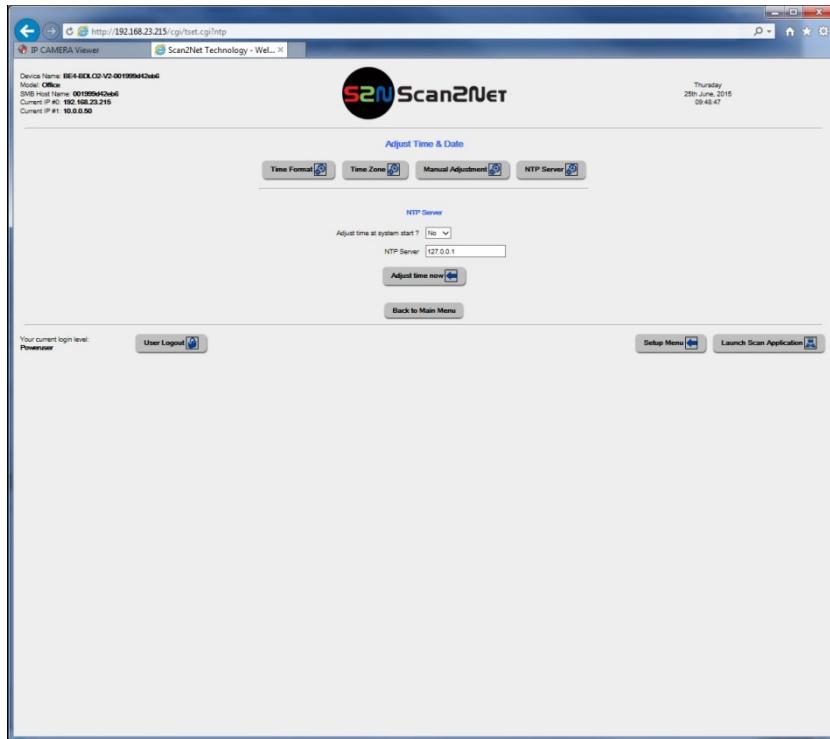
Picture 74: Manual Adjustment

To set a value, click on the selection arrow beside the respective value.

Select from the list. The new value will be transferred directly to the system clock and is displayed in the headline of the Scan2Net interface.

D.4.3.4 NTP Server

Use the function **NTP Server** to define the address of time server.



Picture 75: NTP Server setting

To connect to an NTP server, the scanner must have a connection to the internet.

Ask your network administrator for special information concerning your local network.

Adjust time at system start?

Select **Yes** to set the time displayed in the scanner corresponding to the value coming from the NTP server time

NTP Server

Enter the IP address of the NTP server here.

It is a necessary requirement that your local network enables the scanner to connect with the internet.

Finally click on **Adjust time now** to read the information from the NTP time server and to transfer to the scanner.

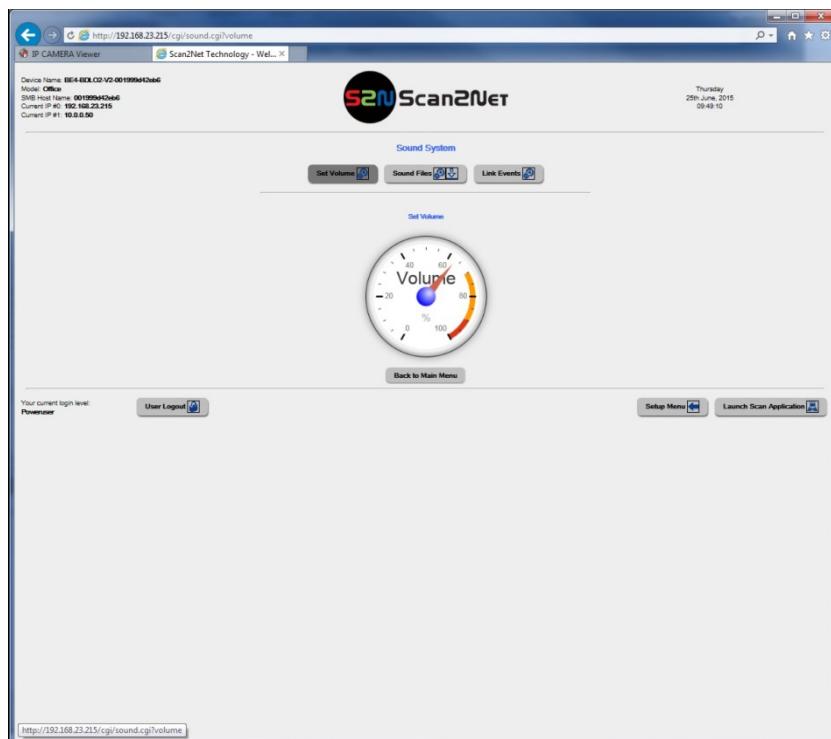
D.4.4 Sound System

The section **Sound System** is divided into three subsections.

The **Sound System** start screen is the **Set Volume** screen.

D.4.4.1 Set Volume

Use the function **Set Volume** to set the loudspeakers volume of the scanner.



Picture 76: Set Volume

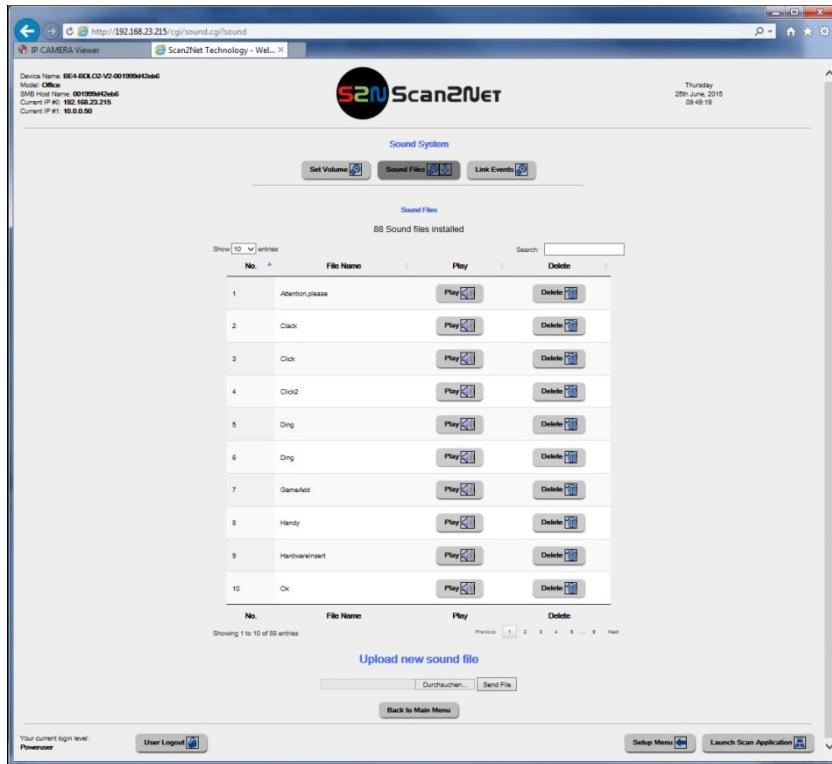
A screen opens and shows a graphic to symbolize the volume level.

Click on the scale to set the volume level or right-click with the mouse at the arrow and move it while holding the mouse button pressed to the desired value.

To return to the previous screen click on **Back to Main Menu**.

D.4.4.2 Sound Files

Use the function **Sound Files** to list the sounds which are linked to system events.



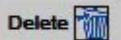
The screenshot shows a web-based interface for managing sound files on a Scan2Net device. At the top, there's a header with the device name (BE4-BX.CD-V2-00199042e6), IP address (192.168.23.215), and current date/time (Thursday, 25th June 2015, 09:49:19). Below the header, the Scan2Net logo is displayed. The main area is titled "Sound System" and contains a "Sound Files" section. It shows a table with 88 entries, each listing a sound file name (e.g., Attention,please, Clock, Click, Click2, Ding, Ding, GameAdd, Handy, Hardwareinsert, Ok) along with "Play" and "Delete" buttons. A search bar is available at the top of the table. At the bottom of the table, it says "Showing 1 to 10 of 88 entries". Below the table, there's a section for "Upload new sound file" with "Durchsuchen" and "Send File" buttons. At the very bottom, there are links for "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application".

Picture 77: Sound Files list

Scroll to the bottom of the list to search and upload new sounds to the scanner.

Click on the **Search** button to search the directories of your local PC and/or your network for sound files.

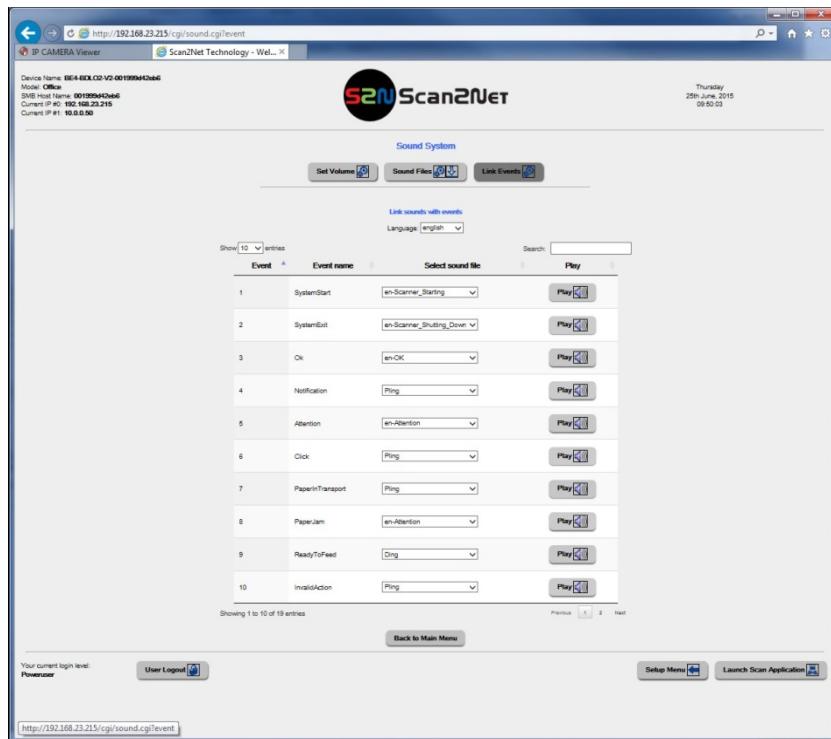
Click on the **Send File** button to upload the selected file to the scanner. After uploading, the file will be displayed in the list.



Click on this icon to delete the file.

D.4.4.3 Link Events

Use the function **Link Events** to change the sounds linked to system events.



Picture 78: Link Events list

The sound file that is listed for each event depends at the language which is set for the scanner (see chapter D.4.1.2).

To identify the language of the sound file, an identifier is added to the file name. For example “en” marks sound files in English language or “de” marks sound files in German language.

Independent from the language selected for the scanner, every sound file can be linked to every event.

Because of the large amount of available sound files, each page lists ten files. To see more files, click below the **Play** button at “Next”, “Previous” or the number of the desired page.

Because of the large amount of available sound files each page shows ten files. To see more files, click below the **Play** button at the buttons “Next” or “Previous” or at the number of the desired page.

Select the desired sound file from the list.

Click on the loudspeaker symbol to play the sound.

D.4.5 ICC Profiles

The section **ICC Profiles** is divided into the subsections

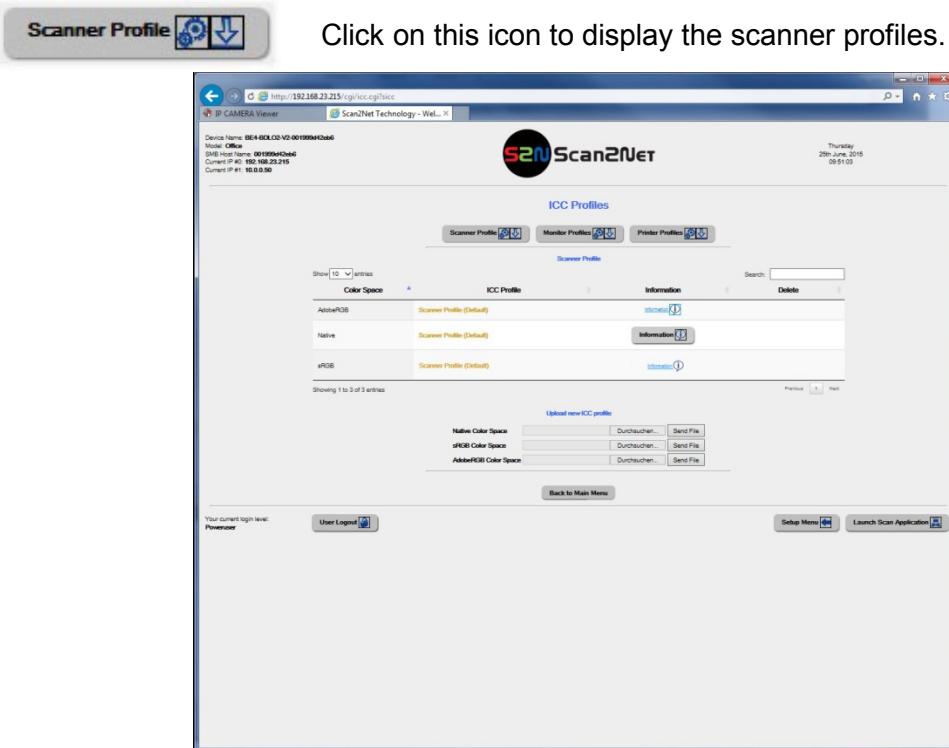
- **Scanner Profile**
- **Monitor Profiles**
- **Printer Profiles**

ICC profiles are integrated in the image file data.

First of all, download the respective ICC profile for the device to your local PC.

D.4.5.1 Scanner Profile

The ICC profile loaded at **Scanner Profile** adapts the color space between scanner and image editing software.



Picture 79: Scanner Profiles

For each available color space a specific ICC profile can be uploaded to the scanner.

The section **Upload new ICC profile** shows two functions:

- | | |
|--------------------|--|
| [Search] | Click the button to search the directories of your local PC and/or your network for ICC profile files. |
| [Send File] | Click the button to upload the selected file to the scanner. |

The installed profiles are displayed in the list.

Color Space	ICC Profile	Information	Delete
AdobeRGB	Scanner Profile (Default)	Information	
Native	Scanner Profile (Default)	Information	
sRGB	A scanner ICC profile is installed	Information	Delete

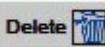
Picture 80: ICC profile installed



Click on this icon to get information about the installed scanner profile.

Information (Scanner Profile)	
Show 20 entries	Search:
Information	Scanner Profile
Attributes	Reflective, Glossy
Color Management Module	argl
Color Space	RGB
Copyright Marker	None
Creator	argl
Date & Time	29 Nov 2012, 10:21:27
Description	BE4 matrix
Device Class	Input
Device Model	0x0
Device Model Description	BE4
Flags	Not Embedded Profile, Use anywhere
Illuminant	0.964203, 1.000000, 0.824905 [Lab 100.000000, 0.000498, -0.000436]
Manufacturer	0x0
Platform	Microsoft
Profile Connection Space (PCS)	XYZ
Rendering Intent	Relative Colorimetric
Size	708 bytes
Version	2.2.0

Picture 81: Scanner ICC profile information



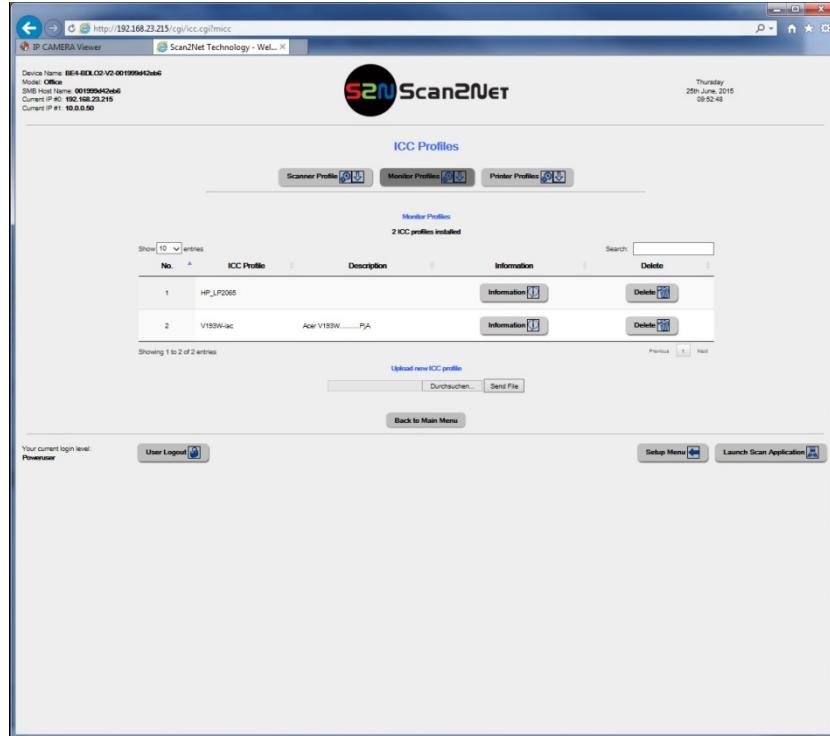
Click on this icon to delete the selected profile.

D.4.5.2 Monitor Profiles

The ICC profile will be adapted to the image data displayed at the external monitor.

Monitor Profiles 

Click on this icon to upload an ICC profile for the external monitor.



Picture 82: Monitor Profiles

Already installed profiles will be displayed in a list.

The section **Upload new ICC profile** shows two functions:

Search

Click the button to search the directories of your local PC and/or your network for ICC profile files.

Send File

Click the button to load the selected file to the scanner.

After uploading, the ICC profile will be displayed in the monitor profile list.

The installed monitor profiles are displayed in the list.

Monitor Profiles				
2 ICC profiles installed				
No.	ICC Profile	Description	Information	Delete
1	HP_LP2065		Information	Delete
2	V193W-lac	Acer V193W.....PJA	Information	Delete

Showing 1 to 2 of 2 entries

Upload new ICC profile

Previous 1 Next

Durchsuchen... Send File

Picture 83: List of monitor ICC profiles



Click on this icon to get information about the installed monitor profile.

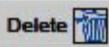
Information (V193W-lac)	
Show 20 entries	Search:
Information	V193W-lac
Attributes	Reflective, Glossy
Color Management Module	apl
Color Space	RGB
Copyright Marker	Copyright(C) 2008 Acer Incorporated. All Rights Reserved
Creator	0xd4505600
Date & Time	28 Feb 2008, 18:51:20
Description	Acer V193W.....PJA
Device Class	Display
Device Model	NONE
Device Model Description	
Flags	Not Embedded Profile, Use anywhere
Illuminant	0.964203, 1.000000, 0.824890 [Lab 100.000000, 0.00498, 0.000797]
Manufacturer	NONE
Platform	Microsoft
Profile Connection Space (PCS)	XYZ
Rendering Intent	Perceptual
Size	576 bytes
Version	2.1.0

Showing 1 to 18 of 18 entries

Previous 1 Next

Back to Main Menu

Picture 84: Monitor ICC profile information



Click on this icon to delete the selected monitor file.

Selecting the ICC profile to be used:

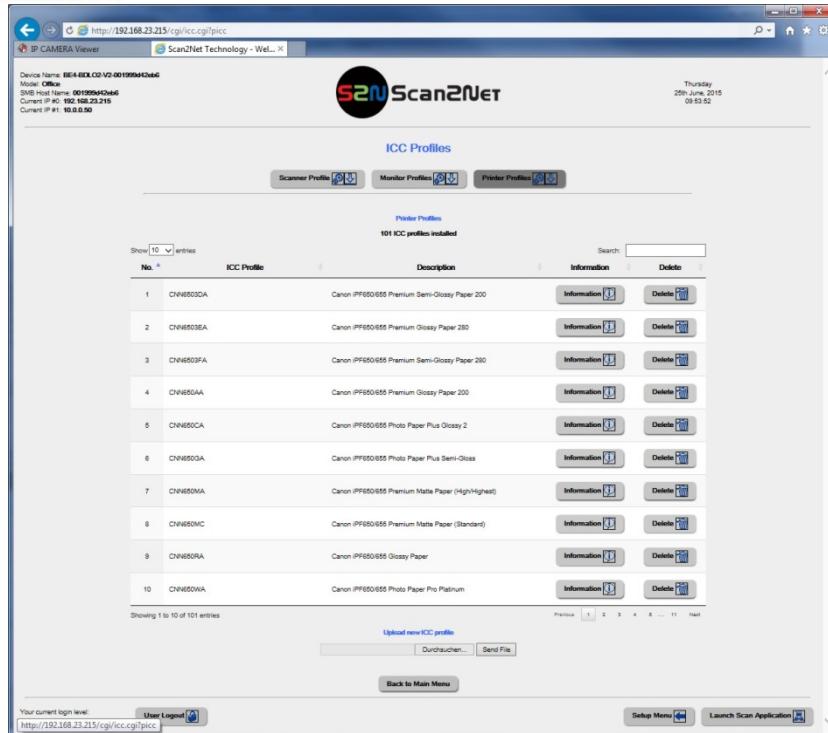
Select section **User Settings**, function **Display** (see chapter D.4.1.8) and select the ICC profile as described.

D.4.5.3 Printer Profiles

The ICC profiles for printers adapt the color space of the scanner to the color space of the printer which is used with the scanner.

Printer Profiles 

Click on this icon to upload an ICC profile for the printer.



The screenshot shows a web-based interface for managing printer profiles. At the top, there are tabs for 'Scanner Profiles' (selected), 'Monitor Profiles', and 'Printer Profiles'. Below the tabs, a table lists 101 ICC profiles installed. The columns are labeled 'No.', 'ICC Profile', 'Description', 'Information', and 'Delete'. Each row contains a link to 'Information' and a 'Delete' button. The table shows various Canon ICC profiles for different paper types like Premium Semi-Glossy Paper 200, Premium Glossy Paper 280, and Photo Paper Plus Glossy 2. At the bottom of the table, it says 'Showing 1 to 10 of 101 entries'. Below the table, there is a section for 'Upload new ICC profile' with 'Search' and 'Send File' buttons. The URL in the address bar is <http://192.168.23.215/cgi/icc.cgi?picc>.

Picture 85: Printer Profiles

Already installed profiles will be displayed in a list.

The section **Upload new ICC profile** shows two functions:

- Search** Click the button to search the directories of your local PC and/or your network for ICC profile files.
- Send File** Click the button to load the selected file to the scanner.

After uploading, the ICC profile will be displayed in the printer profile list.

Information

Click on this icon to get information about the installed printer profile.

Information (CNN6503DA)	
Information	CNN6503DA
Attributes	Reflective, Glossy
Color Management Module	CCMS
Color Space	RGB
Copyright Marker	Copyright CANON INC. 2009 All Rights Reserved.
Creator	0x0
Date & Time	5 Feb 2009, 00:00
Description	Canon IPF650/655 Premium Semi-Glossy Paper 200
Device Class	Output
Device Model	N650
Device Model Description	Large Format Printer IPF650/655
Flags	Not Embedded Profile, Use anywhere
Illuminant	0.964203, 1.000000, 0.824905 [Lab 100.000000, 0.000498, -0.000438]
Manufacturer	CANO
Platform	Microsoft
Profile Connection Space (PCS)	Lab
Rendering Intent	Perceptual
Size	338768 bytes
Version	2.0.0

Picture 86: Details printer profile**Delete**

Click on this icon to delete the selected printer profile.

To use a printer profile with the printer, click in the section **Base Settings** the button **Templates** (see chapter D.4.14); then click on **Remote Printer** (see chapter D.4.14.2).

Click beside the matching printer at **Setup**

In the section **Printing Enhancement** click in the line **Color Matching** at the selection arrow.

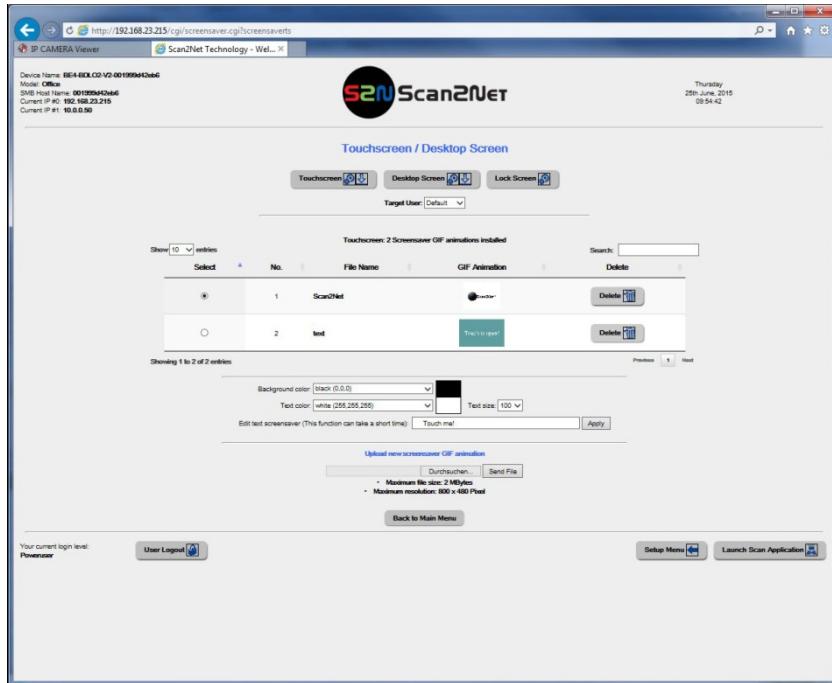
Select ICC Profile.

D.4.6 Touchscreen

This section is divided in the subsections **Touchscreen**, **Desktop Screen** and **Lock Screen**.

D.4.6.1 Touchscreen

This section allows installing a screensaver for the touchscreen. GIF animations are suitable as screensavers for the touchscreen.



Picture 87: Touchscreen screensaver

The installed screensavers are listed.



Click on this icon symbol to delete a screensaver.

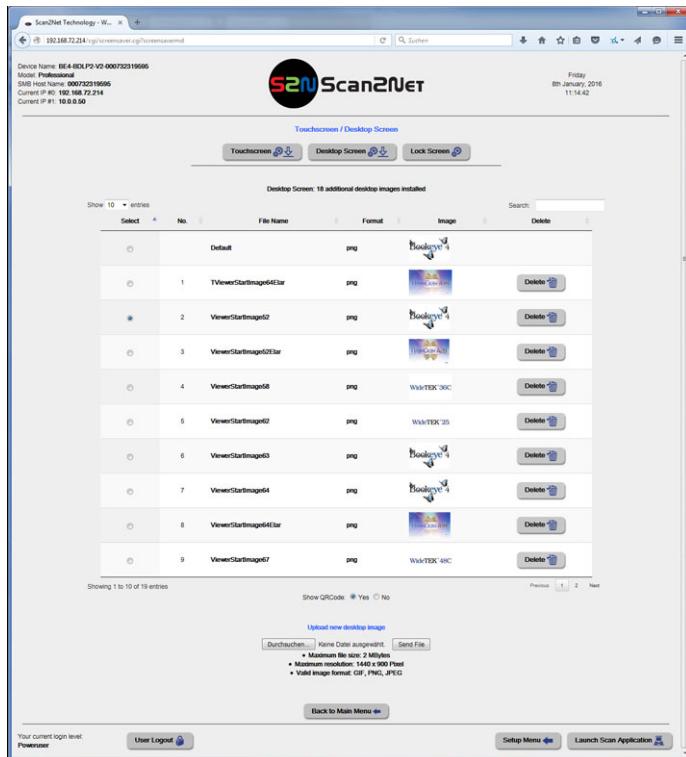
Background color	Click on the selection arrow to open the list of available colors. Select the desired background color from the list with a mouse click.
Text color	Click on the selection arrow to open the list of available colors. Select the desired text color from the list with a mouse click.
Text size	Click on the selection arrow to open the list of available sizes from 50 to 400. Select with a mouse click.
Edit text screensaver	Enter the desired text here. Click on Apply to transfer the text to the scanner.
Upload new screensaver GIF animation	Click on Search to search the directories of your local PC and/or your network for a suitable file. Click on Send File to transfer the selected file to the scanner.

A message signalizes the end of the upload sequence.

To activate the changes, restart the scanner.

D.4.6.2 Desktop

This section allows the operator to install background images for the scanner's external monitor.



Picture 88: Desktop screensaver list

The installed background images are listed on the screen.

- | | |
|--|--|
| <p>Show QRCode</p> <p>Upload new desktop image</p> | <p>Click on this icon symbol to delete a screensaver.</p> <p>Select Yes to display on the screen a QR code with information which can be decoded with an appropriate application.</p> <p>Click on the Search button to search the directories of your local PC and/or your network for a suitable file.</p> <p>Click on Send File to transfer the selected file to the scanner.</p> |
|--|--|

A message signalizes the end of the upload sequence.

To see the available desktop image in detail, click on the preview image in the column **Image**. This shows the image in full size.



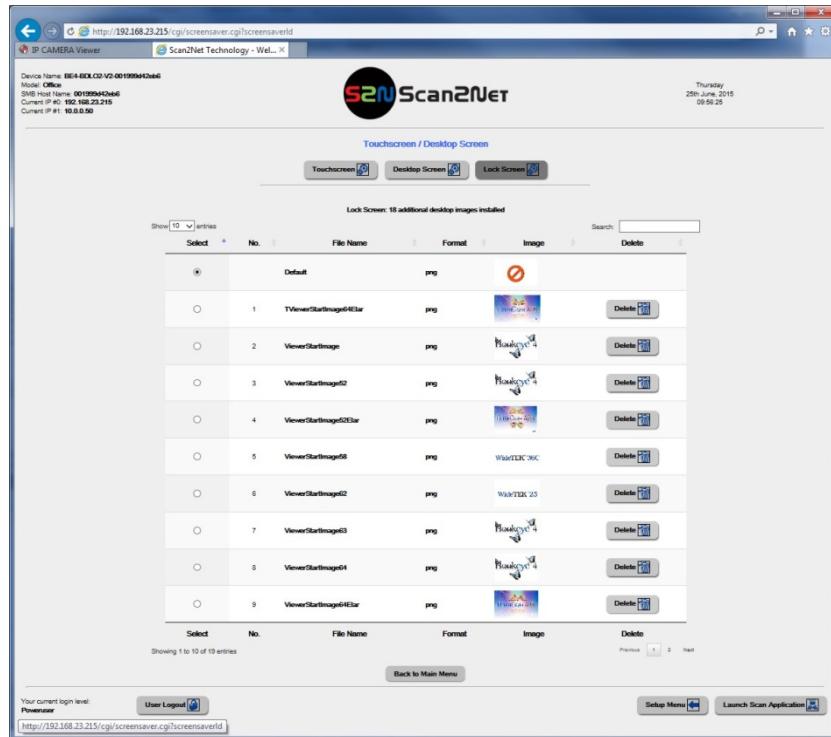
Picture 89: Preview of desktop image

Scroll to the bottom of the window and click on **Back to Touchscreen / Desktop Menu** to return to the previous screen.

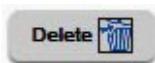
To activate the changes, restart the scanner.

D.4.6.3 Lock Screen

This section allows the operator to install background images for the lock screen.



Picture 90: Background images list



Click on this icon symbol to delete a desktop image

To see the available desktop image in detail, click on the preview image in the column **Image**. This shows the image in full size.

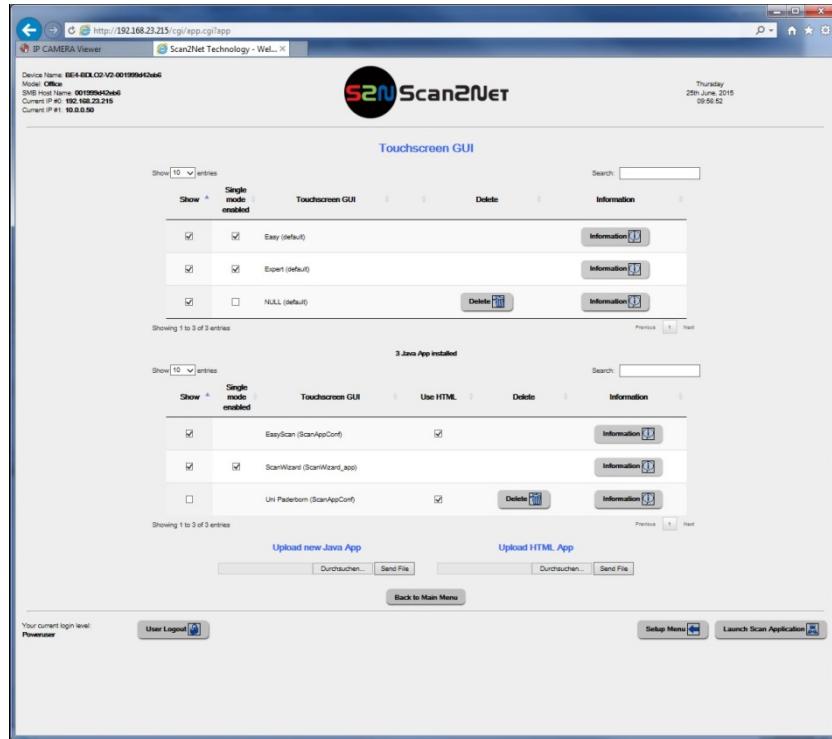
Scroll to the bottom of the window and click on **Back to Touchscreen / Desktop Menu** to return to the previous screen.

D.4.7 Touchscreen GUI

GUI: Graphic User Interface

This section allows the operator to define the GUIs and applications displayed in the touchscreen after starting the scanner.

As factory default the GUIs **Easy** and **Expert** and the applications **EasyScan** and **Scanwizard** are installed.



Picture 91: Kiosk App selection

Show Mark here the GUIs and application which should be displayed in the start screen. Restart the scanner to make changes visible.

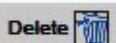
Note: If only one item of the list is selected, the scanner starts without showing the application selection screen.

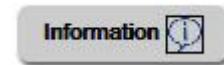
Single mode enabled Mark the checkbox here when the GUI or application should start in single mode.

Otherwise the batch mode is activated as default.

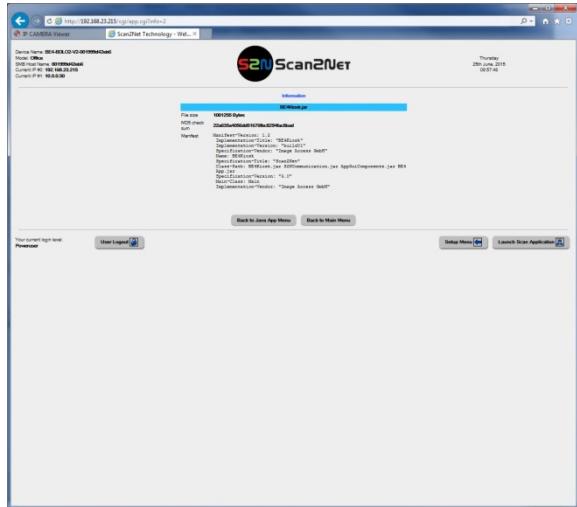
Use HTML If an application offers HTML code mark the checkbox to use the HTML version. Otherwise the application uses JAVA script.

Click on this icon symbol to delete a GUI or an application.





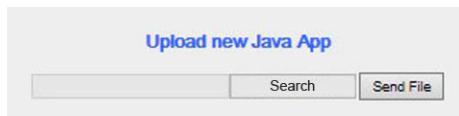
Click on this icon to get information about the application.



Picture 92: Information about application

The browser shows information about the selected GUI.

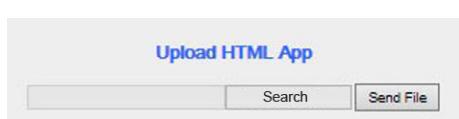
Click on [Back to Java App Menu](#) to return to the former browser screen.



Click on **Search** in order to find a JAVA based application.

Select the desired file.

Click on **Send File** in order to upload the file to the scanner.



Click on **Search** in order to find an HTML based application.

Select the desired file.

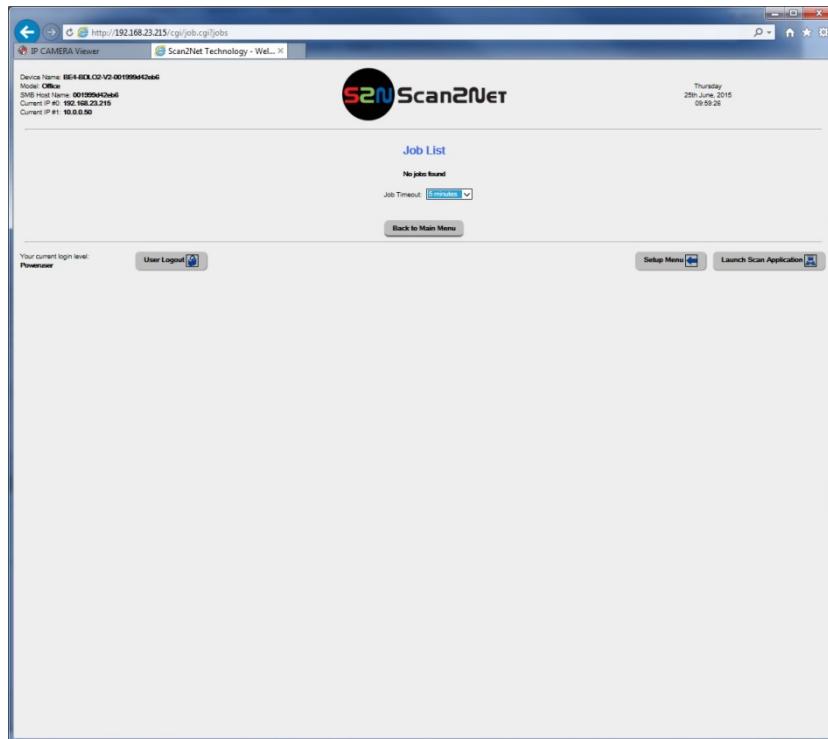
Click on **Send File** in order to upload the file to the scanner.



[Click here to activate the changes.](#)

D.4.8 Job List

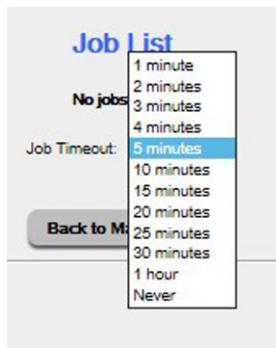
Define the timeout period for a job without any activity until it is closed automatically.



Picture 93: Set timeout for jobs

Click on the selection arrow.

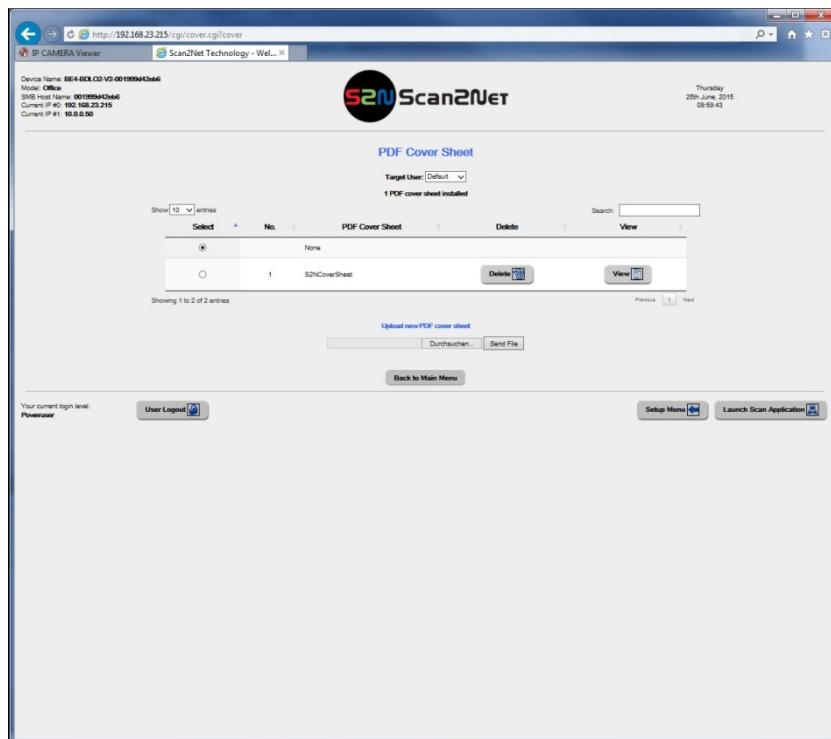
Select a value from the list.



Select **Never** to disable this function.

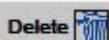
D.4.9 PDF Cover Sheet

This section is used to configure the automatic addition of a PDF cover sheet to each multipage PDF created through the scan process.



Picture 94: PDF Cover Sheet

The preinstalled cover sheets are displayed in the list.



Click on this icon symbol to delete a PDF cover sheet from the list.



Click on the “View” symbol to open the selected file with your associated PDF viewer software.

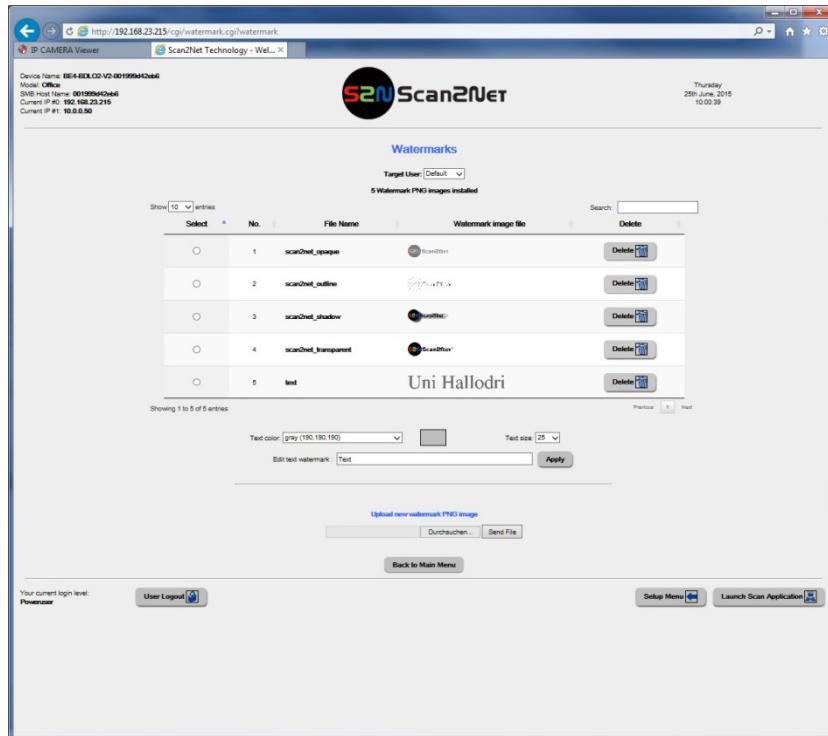
**Upload new
PDF cover sheet**

Click on the **Search** button to search the directories of your local PC and/or your network for a Java Application file.

Click on **Send File** to transfer the selected file to the scanner.

D.4.10 Watermarks

This section allows selecting a watermark from the list and to edit the text of the watermark.



Picture 95: Watermark list and text editor

As factory default, four types of the Scan2Net logo available.

The fifth type of watermark is a plain text. The text color and the text itself can be defined below the list of installed images.

To select a watermark, click on the radio button in the column titled **Select**.

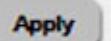


Click on this icon symbol to delete ac PDF cover sheet from the list.

**Text color/
Text size**

To set the text color and the text size, click on the selection arrow and select a setting from the list.

The line **Edit text watermark** allows defining a text for the watermark.



Click on this icon symbol to transfer the text to the scanner.

**Upload new
watermark
PNG image**

To upload a new watermark image click on the **Search** button. The PNG file format is required for the images.

Send File transfers the selected image to the scanner.

D.4.11 Edit Disclaimer Text

Allows editing the disclaimer text and switches the text on or off.

Select in **Target User** the user or the user group in which the disclaimer text should be displayed.

Enable disclaimer text Select **Yes** to show the disclaimer text when the kiosk application starts.



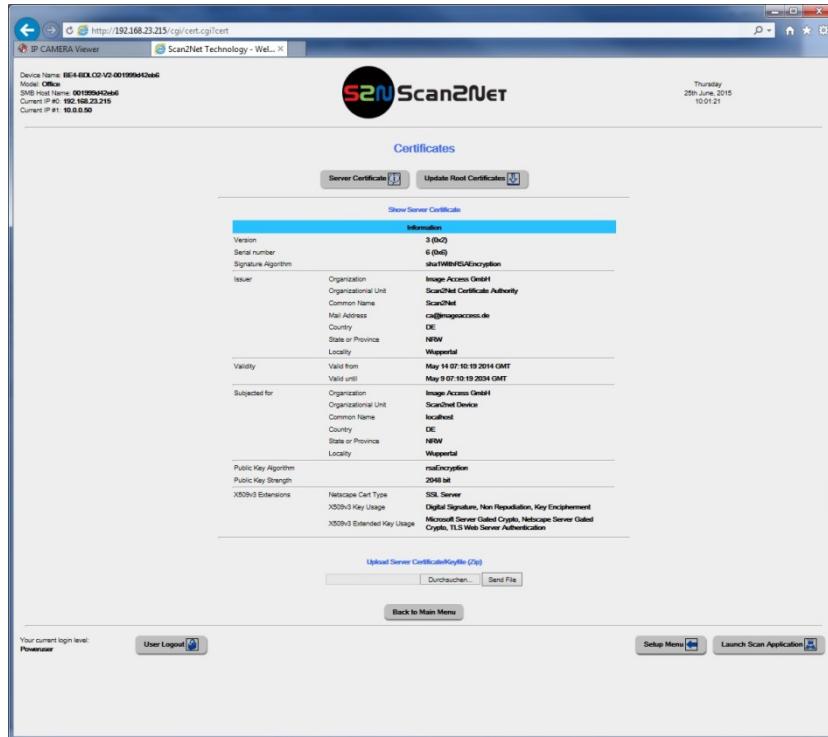
Picture 96: Editor for disclaimer text

Click in text screen to edit the text.

Apply Click here, to save the edited text.

D.4.12 Certificates

Shows detailed server certificate information.



Picture 97: Certificate content

Update Root Certificates 

Click on this icon to connect to the network server und to actualize the root certificate.

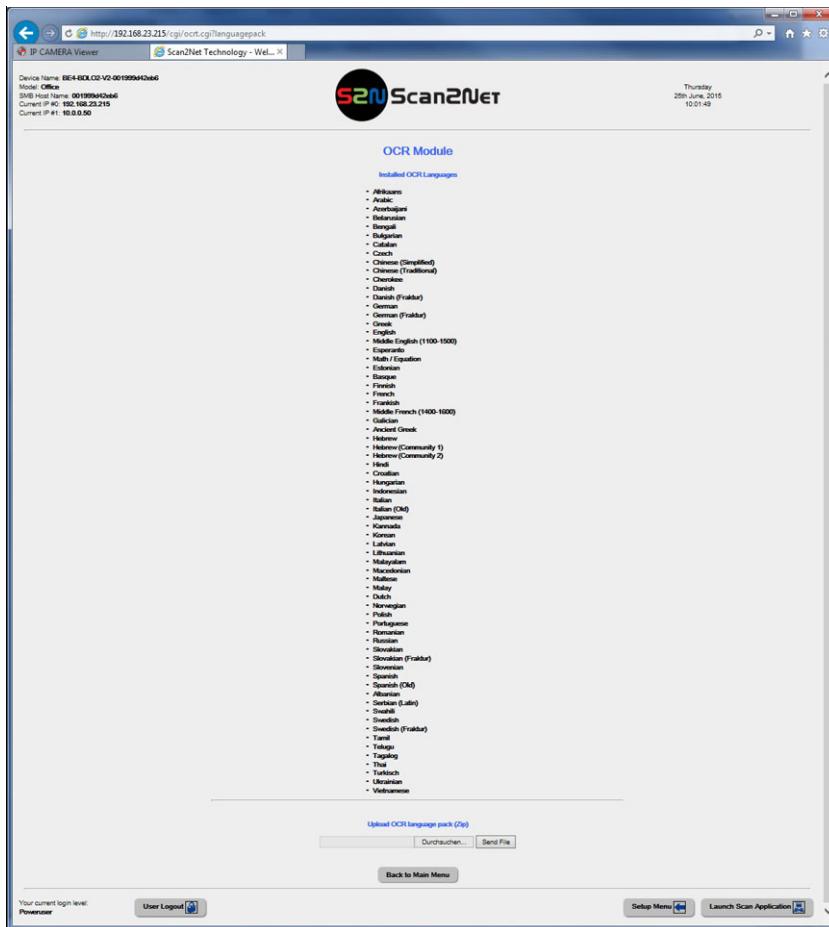
**Upload
Server Certificate/
Keyfile (Zip)**

Click on **Search** button to search your local PC or your network server for a server certificate or a keyfile.

Send File transfers the data to the scanner.

D.4.13 OCR

This menu shows the installed OCR languages, available on the scanner.



The screenshot shows the 'OCR Module' section of the Scan2Net web interface. At the top, there's a header bar with the IP Camera Viewer logo, the URL http://192.168.23.215/cgi/ocr.cgi?languagepack, and the Scan2Net Technology - Web... X button. Below the header, the device information is displayed: Device Name: BE4-80LQ2-V2-00199942eb6, Model: Office, SMB Host Name: 192.168.23.215, Current IP: 192.168.23.215, Current IP #: 10.0.0.50. To the right, the date and time are shown: Thursday 26th June, 2015 10:21:49. The main content area is titled 'OCR Module' and contains a list titled 'Installed OCR Languages'. The list includes: Arabic, Azerbaijani, Belarusian, Bengali, Bulgarian, Catalan, Czech, Danish (Simplified), Chinese (Traditional), Cherokee, Danish, Danish (Frakbar), German, German (Frakbar), Greek, English, Middle English (1100-1500), Esperanto, Afrikaans, Esperanto, Estonian, Basque, French, French, French, Middle French (1400-1600), Galician, Ancient Greek, Hebrew, Hebrew (Community 1), Hebrew (Community 2), Hindi, Croatian, Norwegian, Indonesian, Italian, Italian (Old), Japanese, Korean, Latvian, Lithuanian, Malayalam, Macedonian, Kurdish, Malay, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian, Slovakian (Frakbar), Spanish, Spanish (ME), Vietnamese, Serbian (Latin), Swedish, Swedish, Swedish (Frakbar), Tamil, Telugu, Tagalog, Thai, Turkish, Ukrainian, Vietnamese. At the bottom of the list, there's a 'Upload OCR language pack (.zip)' input field with 'Durchsuchen...' and 'Send File' buttons. Below the input field are 'Back to Main Menu', 'User Logout', 'Setup Menu', and 'Launch Scan Application' buttons.

Picture 98: List of languages of the OCR module

More languages for the OCR function can be uploaded to the scanner.

Click at **Search**.

D.4.14 Templates

The section **Templates** contains all settings for the data output.

By clicking at the links from [Remote Printer](#) to [LDAP Directory Service](#) the current settings for the respective output can be displayed.

The selected **Owner Filter** defines the number of templates for each link. At delivery of the scanner three entries in the **Owner Filter** are available.

- All:** Shows all available templates.
- Self:** Shows the templates available for the user who is currently logged-in to the scanner.
- Default:** Shows the configurable outputs available as standard.

The following description of the templates uses the **Owner Filter "All"**.

Please note: The picture could show more templates than installed at delivery.

To open the templates, just click the respective link.

- | | |
|------------------|--|
| Setup | Opens the parameters of the template. |
| Duplicate | Copies the template. The copy of the template will be saved with the extension "Copy of <template name>" in the list of templates. |
| Delete | Deletes the selected template from the list. |

Name, Privacy and Public

These field names are shown in every setting.

Name	Color Printer FE
Privacy	<input type="button" value="Public ▾"/>
Owner	<input type="button" value="Default ▾"/>

Picture 99: Selector for Name, Privacy and Owner

- | | |
|---------|---|
| Name | Enter the name for the template here. |
| Privacy | Select the privacy level from the list. Available are: |
| | Public Available for every user. |
| | Private Only for users logged-in to the scanner. |
| | System Only for system function, used by the administrator |
| | User Available for the currently logged-in user. |
| Owner | Select the name from the user list. |

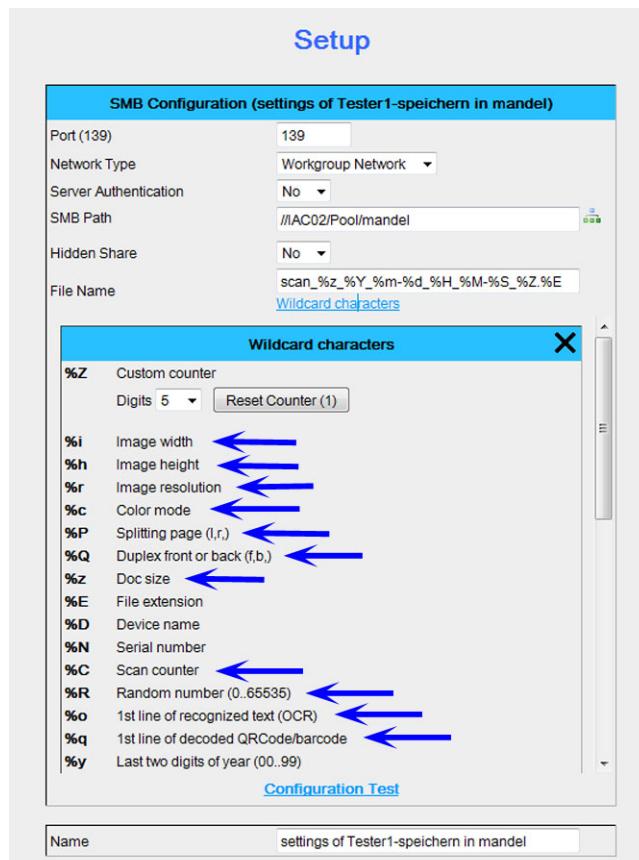
D.4.14.1 Exclusion of Wildcard Characters for Jobmode Scanning

Please note: Valid for firmware before V 6.08.

The number of variables which can be used to create file names while scanning in jobmode is limited.

When scanning in jobmode, the information for some variables is taken from the last scanned image and is used for naming the selected images respectively the ZIP archive file.

Picture 100 shows a part of the list of variables. The arrows mark the variables which should not be used in jobmode.



Picture 100: Excluded wildcard characters

The information contained in the file name is only valid for the last image but not for the images in a ZIP archive.

This limitation affects the settings in the following chapters:

D.4.14.3 FTP Server

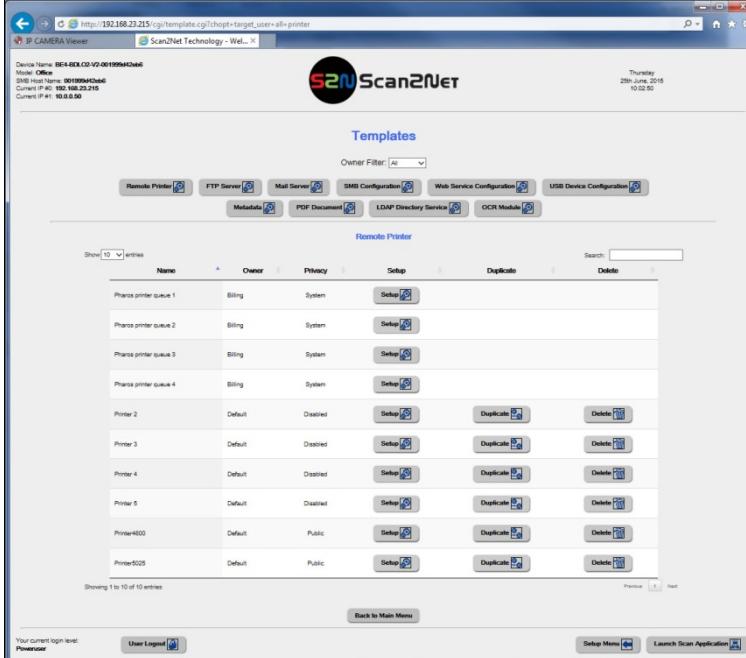
D.4.14.4 Mail Server

D.4.14.5 SMB

D.4.14.6 Web Service

D.4.14.7 USB Storage Configuration

D.4.14.2 Remote Printer



The screenshot shows a web-based configuration interface for Scan2Net. At the top, there's a header bar with the Scan2Net logo and some device information: Device Name: BE4-80LC0-V2-001999HD46, SMB Host Name: 001999hd46, Current IP4: 192.168.23.215, and Current IP41: 192.8.0.50. The date and time are listed as Thursday, 25th June, 2015, 10:02:50. Below the header, there's a navigation menu with tabs like Remote Printer, FTP Server, Mail Server, SMB Configuration, Web Service Configuration, and USB Device Configuration. Under the Remote Printer tab, there's a sub-menu with options like Metadata, PDF Document, LDAP Directory Service, and OCR Module. The main content area is titled 'Templates' and specifically 'Remote Printer'. It shows a table with 10 entries:

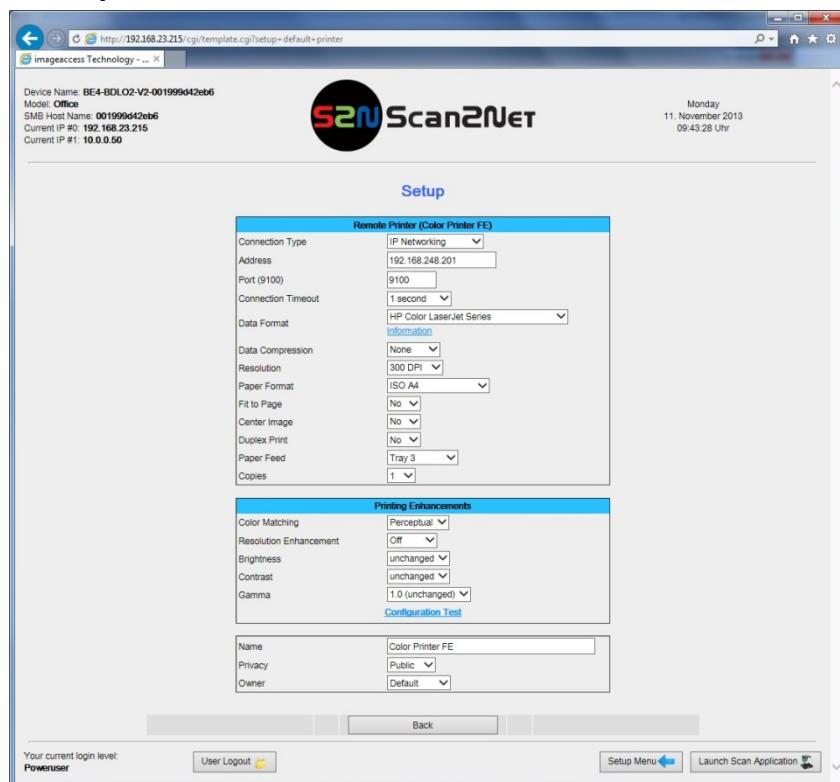
Name	Owner	Privacy	Setup	Duplicate	Delete
Phaxis printer queue 1	Billing	System			
Phaxis printer queue 2	Billing	System			
Phaxis printer queue 3	Billing	System			
Phaxis printer queue 4	Billing	System			
Printer 2	Default	Disabled			
Printer 3	Default	Disabled			
Printer 4	Default	Disabled			
Printer 5	Default	Disabled			
Printer4000	Default	Public			
Printer5025	Default	Public			

At the bottom of the interface, there are buttons for Back to Main Menu, User Logout, Setup Menu, and Launch Scan Application.

Picture 101: Template list for remote printer

The data output **Remote Printer** sends the images after scanning to a previously defined network printer.

D.4.14.2.1 Setup



Picture 102: Remote printer parameters

Note: The number of parameters depends on the selected connection type.

Parameter	Description
Connection Type	Choose from the list the matching connection type for your system.
Address	Enter the IP address of the printer.
Port (9100)	Enter the IP port of the remote printer. Default is port 9100.
Connection Timeout	Choose the timeout for connecting to the remote printer before the connection is aborted.
Port (139)	Enter the IP port of the remote printer. Default is port 139.

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

Remote Printer, continued

Parameter	Description
Network Type	Select Homegroup Network or Workgroup Network .
Password (with SMB Printer Queue → Homegroup Network only)	Enter the password for the Homegroup Network.
Server Authentication (with SMB Printer Queue → Workgroup Network only)	Select Yes or No .
Login (with SMB Printer Queue → Workgroup Network only)	If Server Authentication is set to Yes , enter the login here.
Password (with SMB Printer Queue only)	If Server Authentication is set to Yes , enter the password for the printer here.
SMB Path (with SMB Printer Queue only)	Enter the path of the directory where the printer is established.
Data Format	<p>Choose the data format of the remote printer. The supported formats are:</p> <ul style="list-style-type: none"> • HP Color LaserJet Series • HP LaserJet Series • Postscript • Postscript (PML) • HP DesignJet Series • Native Image Format (JPEG, TIFF, PDF) • Konica Minolta Bizhub Series • PDF (PML) <p>Changing the data format will change some of the options in this configuration window.</p> 
Data Compression (not with all Data Formats)	Select the data compression of the data to be sent to the printer.
Resolution (not with Native Image Format)	Select the printing resolution. If an exact 1:1 copy of the scanned document is required, the scanning resolution and printing resolution must match.
Paper Format (not with HP Design Jet, Native Image Format, PDF (PML))	Choose the paper format for the output.
Fit to Page (with HP Color LaserJet Series / LaserJet/ DesignJet Series only)	Yes / No
Margins (1/10 mm) (with HP Color LaserJet Series / HP LaserJet Series only)	<p>Add the size of the desired margins into the corresponding fields.</p> <p>Position the cursor with the mouse in the field and enter the value with the PC keyboard.</p>

Remote Printer, continued

Parameter	Description
Duplex Print (not with HP Design Jet)	Switch on/off printing on both sides of a sheet (duplex).
Duplex Mode	Select between Book and Notepad . Book = binding at the wide side of the paper sheet Notepad = binding at the narrow side of the paper sheet
Paper Feed	Select the paper feed method for the remote printer. The menu content depends on the selected printer.
Roll Width (HP DesignJet Series)	Offers a list of paper widths.
Copies	Number of copies of each print

Printing Enhancement

Parameter	Description
Quality Level (with HP DesignJet Series only)	Toggle the printing quality from draft to high quality.
ICC Profile (not with all printer types)	Select the profile used for printing. The Poweruser level allows uploading printer ICC profiles to the scanner. Available profiles will be displayed in the list.
Color Matching (not with all printer types)	Select the color rendering method for the remote printer. Perceptual : The printer uses the nearest matching colors of its own color space. Saturation : The printer uses the full range of its color space despite of the color definition of the scanned document. ICC Profile : Uses the ICC profile of the printer.
Resolution Enhancement (not with Postscript)	Select the resolution enhancement from the list.
Edge Antialiasing (not with all printer types)	Switch on/off printer featured edge anti aliasing.
Brightness (not with HP LaserJet Series)	Modify the brightness level of the print.
Contrast (not with HP LaserJet Series)	Modify the contrast level of the print.
Gamma (not with HP LaserJet Series)	Modify the gamma level of the print.

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

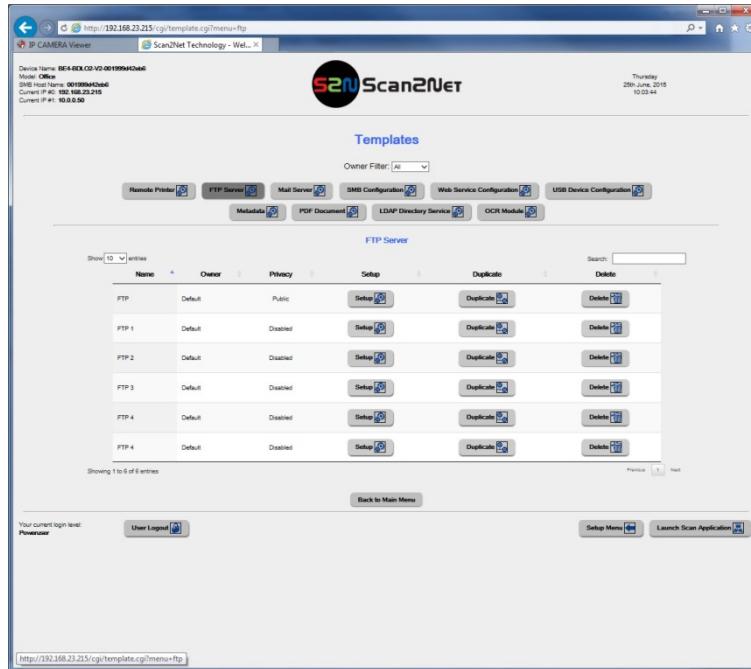
Accounting

Only available with **Konica Minolta Bizhub Series**

Parameter	Description
Accounting	Yes / No
Account Name	Enter the account name here.
Use Password	Yes / No
Account Password	Enter the password for the accounting here.
Hold Job	Yes / No
Job Type	Public / Private
Hold Key	Enter the hold key here.
Job ID	Enter the ID for the job here.

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

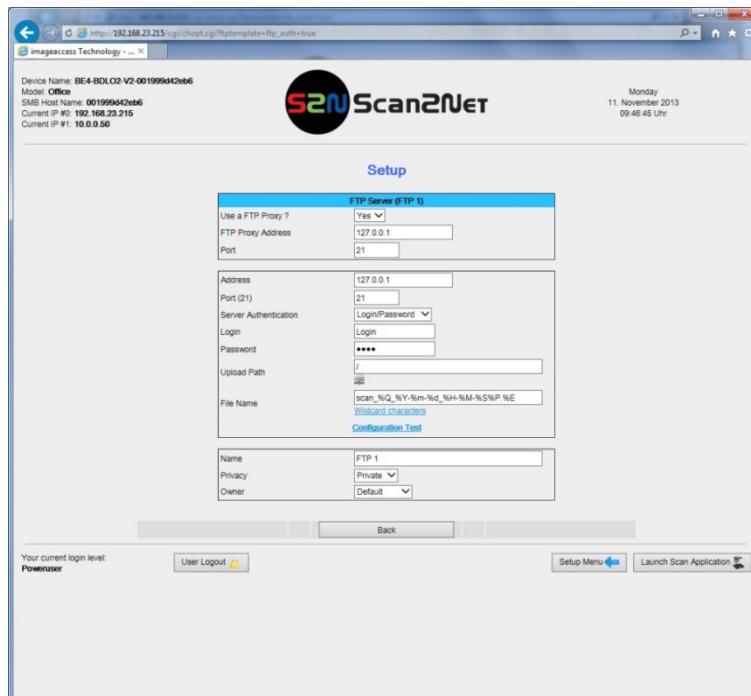
D.4.14.3 FTP Server



Picture 103: Template list for FTP Server

The data output **FTP Server** sends the images after scanning to a previously defined FTP server.

D.4.14.3.1 Setup



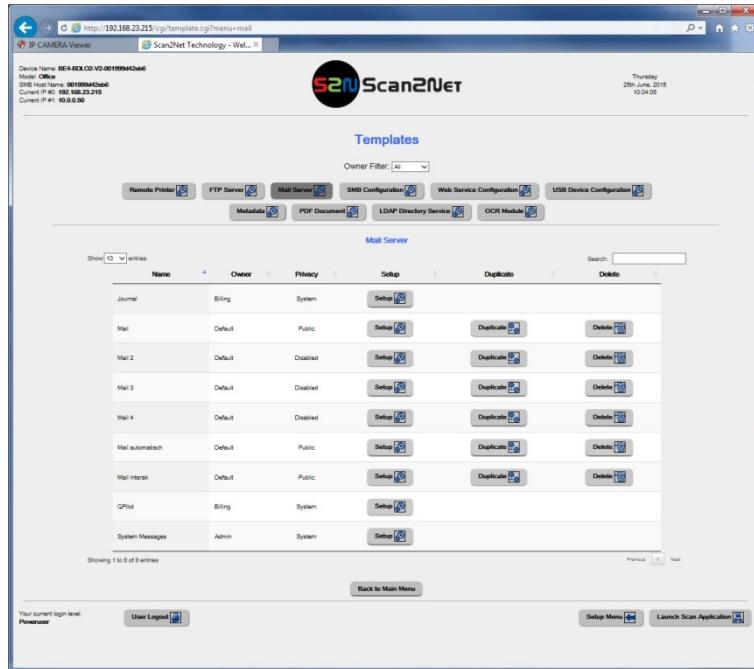
Picture 104: FTP Server parameters

Parameter	Description
Use a FTP Proxy?	Switch on/off the use of an FTP proxy for connecting to a remote FTP server outside the local network.
FTP Proxy Address	Specify the IP address of the FTP proxy.
Port (if FTP Proxy = Yes)	Specify the IP port of the FTP proxy.
Address	Enter the IP address of the remote FTP server.
Port (21)	Enter the IP port of the remote FTP server. Default is port 21.
Server Authentication	Select the authentication method.
Login (not with "Anonymous FTP")	Enter the login name.
Password (not with "Anonymous FTP")	Enter the password for the login at the remote FTP server. The password is stored using encryption.
Upload Path	Enter the upload path on the remote FTP server, starting with / (root). Click on the icon, to browse the directory structure of the remote FTP server. Note: You must have a valid login for browsing the directory structure.
File name	Enter the desired file name. Variables can be used to define the file name. To learn more about the available variables click on Wildcard characters .

[Configuration Test](#): Click on this link to test the settings. A separate window will open, showing the results of the test.

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

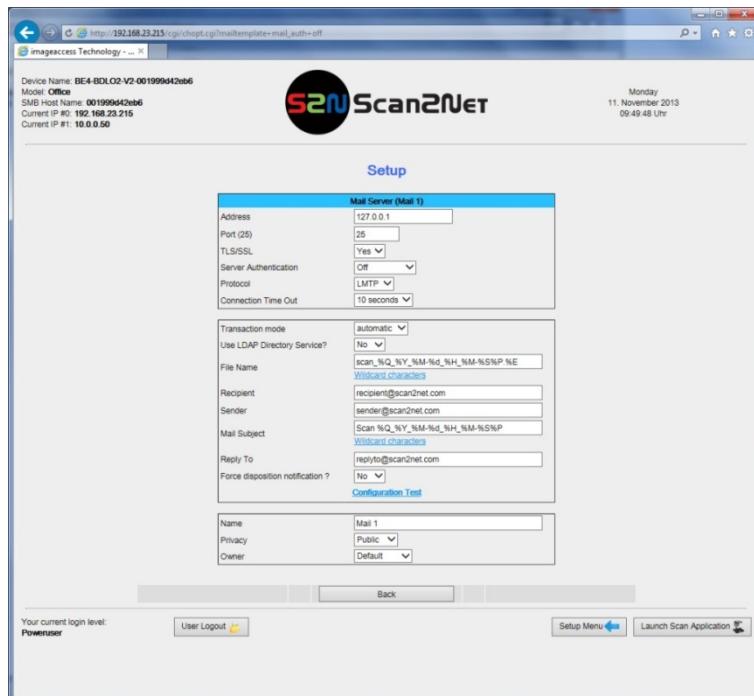
D.4.14.4 Mail Server



Picture 105: Template list for Mail Server

The data output **Mail Server** sends the images after scanning via e-mail.

D.4.14.4.1 Setup



Picture 106: Mail Server parameters

Parameter	Description
Address	Enter the IP address of the outgoing mail (SMTP/LMTP) server.
Port (25)	Enter the IP Port of the outgoing mail server. Default: Port 25.
TLS/SSL	Select Yes if the SSL protocol should be used for the mail transfer.
Server Authentication	Set to YES if the mail server requires an authentication.
Login (if Server Authentication is set to Yes)	Enter the user name for authentication at the outgoing mail server.
Password	Enter the password for authentication at the outgoing mail server. The password is stored using encryption.
Protocol	Choose the connection protocol. SMTP is the most common protocol.
Connection Time Out	Choose the timeout for connecting to the outgoing mail server before the connection is aborted.
Transaction mode	automatic / interactive
Use LDAP Directory Service?	LDAP directory service can be used to send the mails. To configure the parameters click on the link Options .

The following parameters will be displayed if the "Transaction mode" is set to **automatic**.

File Name	Enter the file name. Variables can be used to complete the file name. To learn more about the variables, click on the link Wildcard characters .
Recipient	Type in the recipient of the e-mail. Format: fully qualified e-mail address.
Sender	Type in the sender of the e-mail. Format: fully qualified e-mail address.
Mail Subject	Type in the e-mail subject. (Optional) Variables can be added to the mail subject. To learn more about the variables, click on the link Wildcard characters .
Reply To	Type in a reply address for answers. (Optional) Format: fully qualified e-mail address.
Force disposition notification?	Request a notification when the recipient has opened the mail. Note: This feature is not supported by all mail servers or clients.

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

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

D.4.14.5 SMB Share

The screenshot shows a web-based configuration interface for a Scan2Net device. At the top, there's a header with device information: Device Name: BE4-BOL02-V2-00199942eb6, Model: Office, SMB Host Name: 00199942eb6, Current IP #: 192.168.23.215, and Current IP #: 10.0.0.50. The date is Thursday, 25th June, 2015, at 10:04:11. The main area is titled "Templates" and has a sub-section titled "SMB Configuration". It lists various SMB connections with columns for Name, Owner, Privacy, Setup, Duplicate, and Delete. The connections include Connection 3, Connection 4, Connection 5, Default-Pool, Individual settings of helac, Individual settings of mandel, Journal, Pool ak, Pool Kemu, and Pool Mandel. Below the table, it says "Showing 1 to 10 of 14 entries". At the bottom, there are links for "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application".

Picture 107: Template list for SMB Configuration

The data output **SMB** sends the images directly to a network directory.

D.4.14.5.1 Setup

The screenshot shows the "Setup" screen for "SMB Configuration (Connection 3)". The top part contains fields for Port (139), Network Type (Workgroup Network), Server Authentication (Yes), Login, Password, and SMB Path (//ican2net/share). There are also options for Hidden Share (No) and File Name (scan_%Q_%Y_%m-%d_%H_%M-%S%P %E, with a note about Wildcard characters). A "Configuration Test" button is present. The bottom part shows a summary table with fields for Name (Connection 3), Privacy (Private), and Owner (Default). At the bottom, there are links for "Back", "User Logout", "Setup Menu", and "Launch Scan Application".

Picture 108: SMB Configuration parameters

Parameter	Description
Port (139)	Enter the IP port for the SMB network communication. Default is port 139.
Network Type	Select between Workgroup Network and Homegroup Network . For detailed information about the correct network type ask your network administrator.
Server Authentication (only with Workgroup Network)	Select the authentication method. Set to YES if an authentication is required.
Login	Enter the user name on the Windows workstation/file server which you want to connect to.
Password	Enter the password associated with the user name for the login at the Windows workstation/file server which you want to connect to. The password is stored using encryption.
SMB Path	Enter the upload path on the Windows workstation. Start with a double slash (//) for the root directory. Click the icon to browse the workstation/server list and the directory structure of the Windows workstation/file server. Note: A valid login for browsing the directory structure is necessary.
File Name	Enter the file name. A time stamp will be added to this prefix to form the complete file name.

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

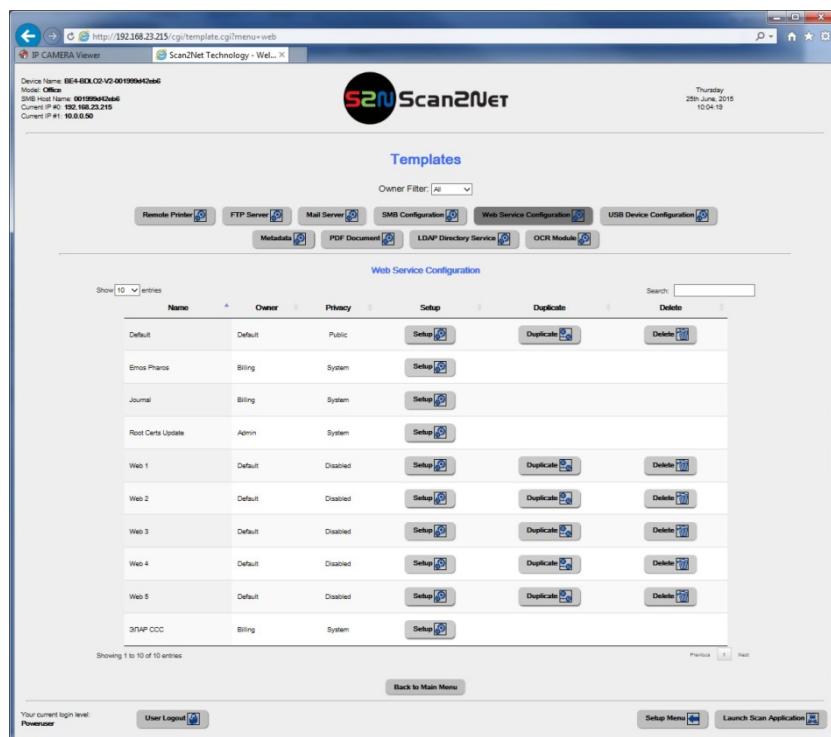
Please note: Each change to an entry field is transferred to the scanner immediately.

D.4.14.6 Web Service

This option allows the user to store its files and images in the so called “Cloud”.

The “Cloud” is an IT infrastructure where service provider offer via a network computing power or storage space at their servers. The data is no longer stored locally on the computer but on a remote system.

Access to the remote systems is realized by using the internet.



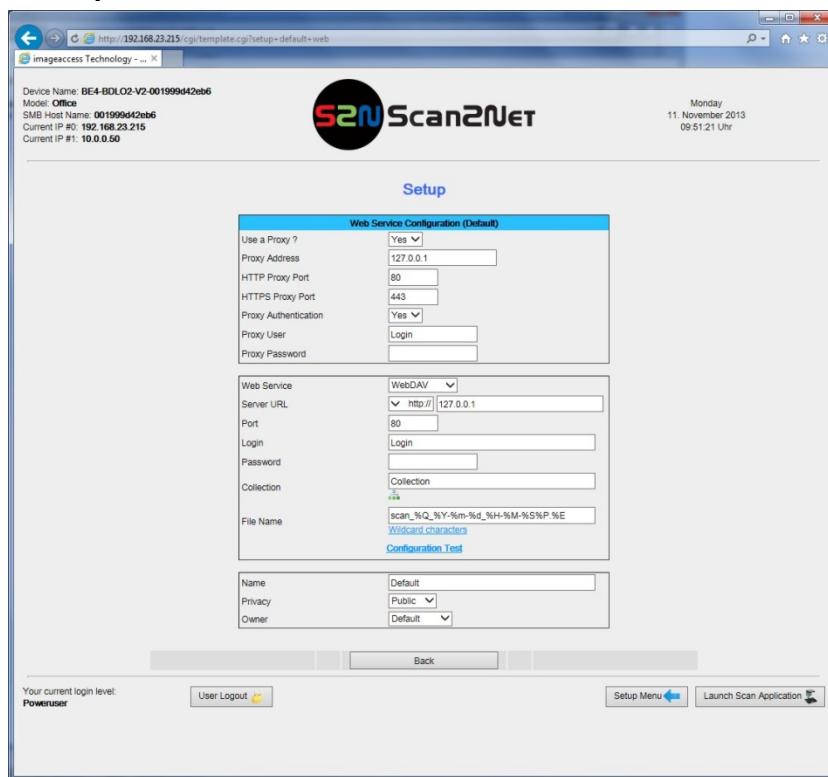
The screenshot shows a web-based configuration interface for Scan2Net. At the top, there's a header bar with the Scan2Net logo and some device information: Device Name: BE4-BXL.C2-V2-0019943e66, Model: Office, Serial Number: 0019943e66, Current IP #0: 192.168.23.215, Current IP #: 10.0.0.50. The date and time are listed as Thursday, 25th June 2015, 10:04:19. Below the header, the title "Templates" is displayed, along with a "Owner Filter: All" dropdown and several navigation buttons: Remote Printer, FTP Server, Mail Server, SMB Configuration, Web Service Configuration, USB Device Configuration, Metadata, PDF Document, LDAP Directory Service, and OCR Module. A search bar is also present. The main content area is titled "Web Service Configuration" and contains a table listing ten entries:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public	Setup	Duplicate	Delete
Emos Phans	Billing	System	Setup		
Journal	Billing	System	Setup		
Root Certs Update	Admin	System	Setup		
Web 1	Default	Disabled	Setup	Duplicate	Delete
Web 2	Default	Disabled	Setup	Duplicate	Delete
Web 3	Default	Disabled	Setup	Duplicate	Delete
Web 4	Default	Disabled	Setup	Duplicate	Delete
Web 5	Default	Disabled	Setup	Duplicate	Delete
SNAP CCC	Billing	System	Setup		

At the bottom of the interface, there are links for "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application".

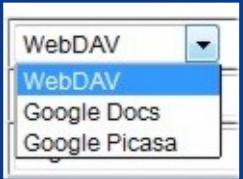
Picture 109: Template list for Web Service Configuration

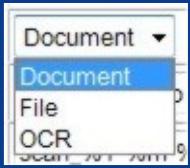
D.4.14.6.1 Setup



Picture 110: Web Service parameters

Parameter	Description
Use a Proxy?	Switch on/off the use of a proxy for connecting to a remote server outside the local network.
Proxy Address	Specify the IP address of the proxy.
HTTP Proxy Port	Enter the port for HTTP communication.
HTTPS Proxy Port	Enter the Port for HTTPS communication.
Proxy Authentication	Select Yes if an authentication should be used.
Proxy User	Enter here the user name for using the proxy.
Proxy Password	Enter here the Proxy password.

Parameter	Description
Web Service 	<p>Select from the list the web service where the data should be stored.</p> <p>Available are:</p> <ul style="list-style-type: none"> • WebDAV • Google Docs • Google Picasa • Post Method <p>Depending on the selected web service the next parameters will vary.</p>
Server URL (only with WebDAV and Post Methode)	Click on the selection arrow and select the protocol. Enter the server URL.
Port (only with WebDAV and Post Methode)	<p>Default with http: 80</p> <p>Default with https: 443</p> <p>The value can vary in dependence of the network structure.</p>
Login (With Post Methode only if Authentication = Yes)	Enter your login for the selected web service.
Password	Enter your password

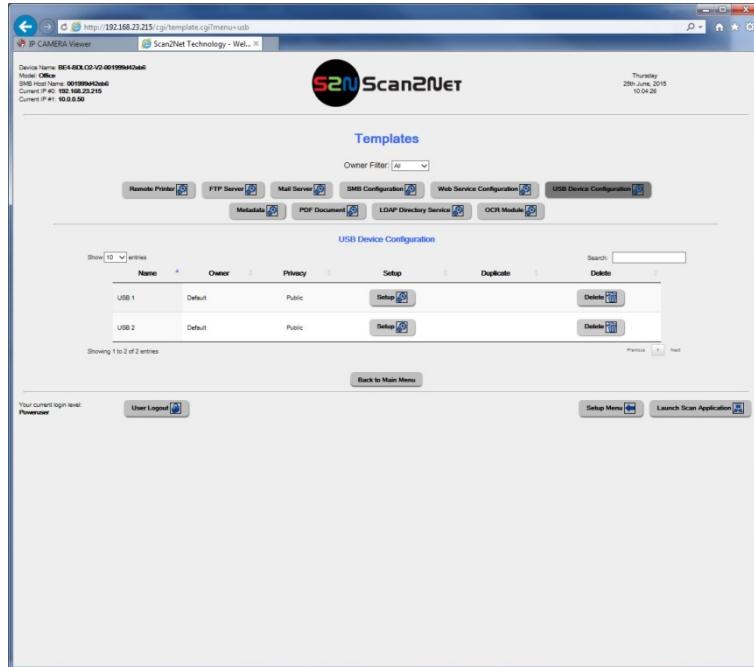
Parameter	Description
Collection (only with WebDAV)	Enter the name of the directory where the files should be stored.
Upload Mode (only with Google Docs)	Select the data format. Currently the file size for the data format "Document" and "File" is limited to 1 MB.  If "Document" is selected, a new document will be opened and the image will be imported into the document. If "File" is selected, the image will be stored as it is. If "OCR" is selected, the document will be examined by an OCR algorithm and the result will be saved. This function is currently in beta stadium.
Subfolder (only with Google Docs)	Select the subfolder where the images should be stored.
Web Album (only with Google Picasa)	Select an album in your Google Picasa account where the images should be stored.
File Name	Enter the desired file name. Variables can be used to define the file name. To learn more about the available variables click on Wildcard characters .

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

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

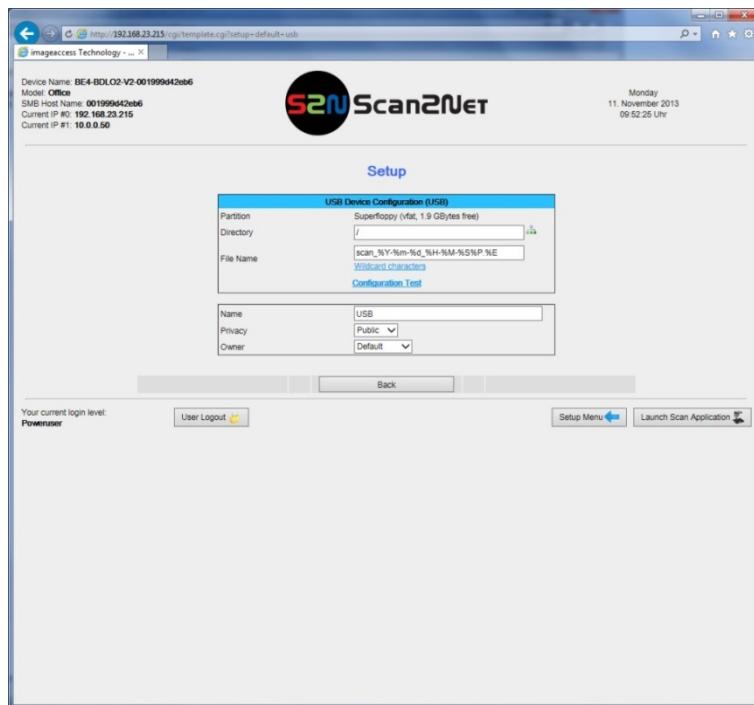
D.4.14.7 USB Storage Configuration

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



Picture 111: Template list for USB Device

D.4.14.7.1 Setup



Picture 112: USB Device parameters

Note: An USB device must be connected to one of the two USB connectors at the front side of the scanner to get list displayed in Picture 112.

Parameter	Description
Partition	Shows the status and available memory of the actual mounted partition on the connected USB flash device.
Directory	Allows the user to choose a subdirectory on the connected USB drive for storing the scans.
File name	Shows the current setting of wildcard characters for the automated naming scheme of each produced image file.

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

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

D.4.14.7.2 List of suitable USB storage media

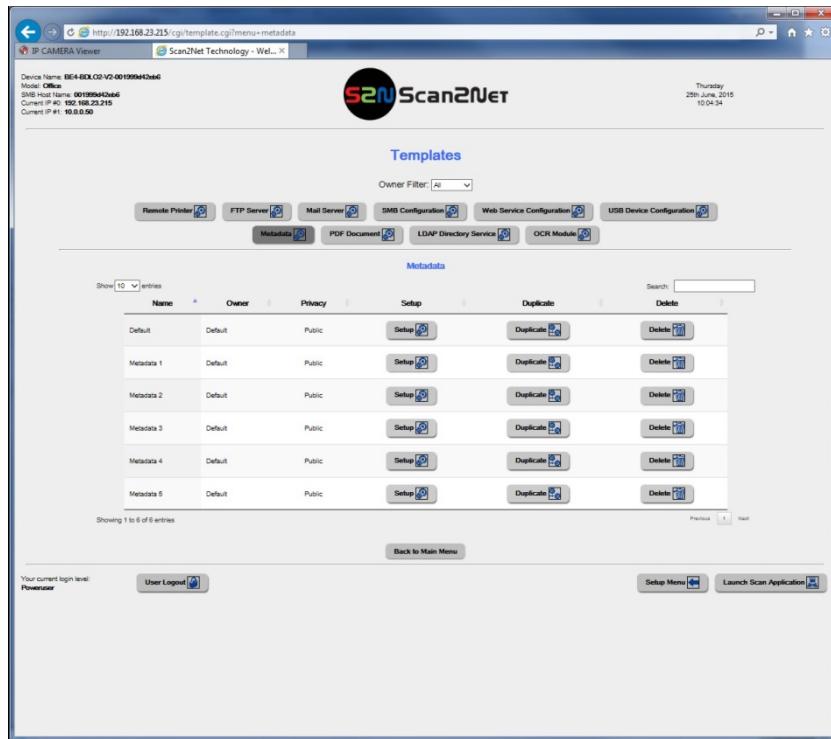
The criteria in the following list have been defined as a guide line for the storage media that can be connected to the USB connectors.

- 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.

D.4.14.8 Metadata

The metadata contain information about the scanned document. The metadata will be included into the file attributes of the file header.



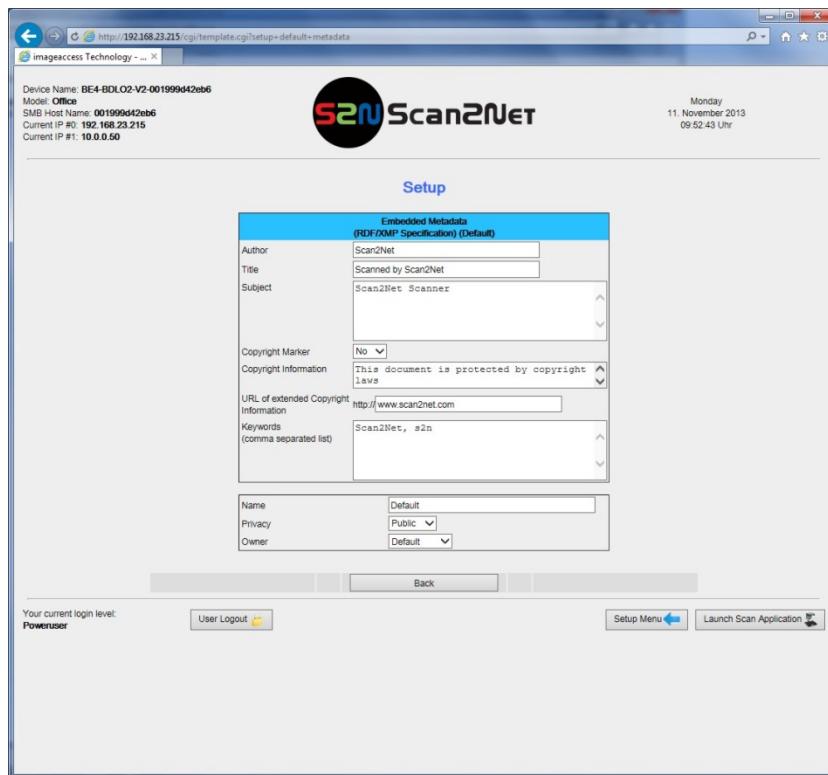
The screenshot shows a web-based configuration interface for a Scan2Net device. At the top, there's a header bar with the URL <http://192.168.23.215/cgi/template.cgi?menu=metadata>, the IP Camera Viewer logo, and the Scan2Net Technology - Web... link. Below the header, the Scan2Net logo is displayed. The main content area is titled "Templates" and shows a sub-section for "Metadata". A toolbar above the table includes buttons for Remote Printer, FTP Server, Mail Server, SMB Configuration, Web Service Configuration, USB Device Configuration, Metadata (selected), PDF Document, LDAP Directory Service, and OCR Module. A search bar and an "Owner Filter: All" dropdown are also present. The "Metadata" table lists six entries:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public			
Metadata 1	Default	Public			
Metadata 2	Default	Public			
Metadata 3	Default	Public			
Metadata 4	Default	Public			
Metadata 5	Default	Public			

At the bottom of the page, there are links for "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application".

Picture 113: Template list for Metadata

D.4.14.8.1 Setup



Picture 114: Metadata parameters

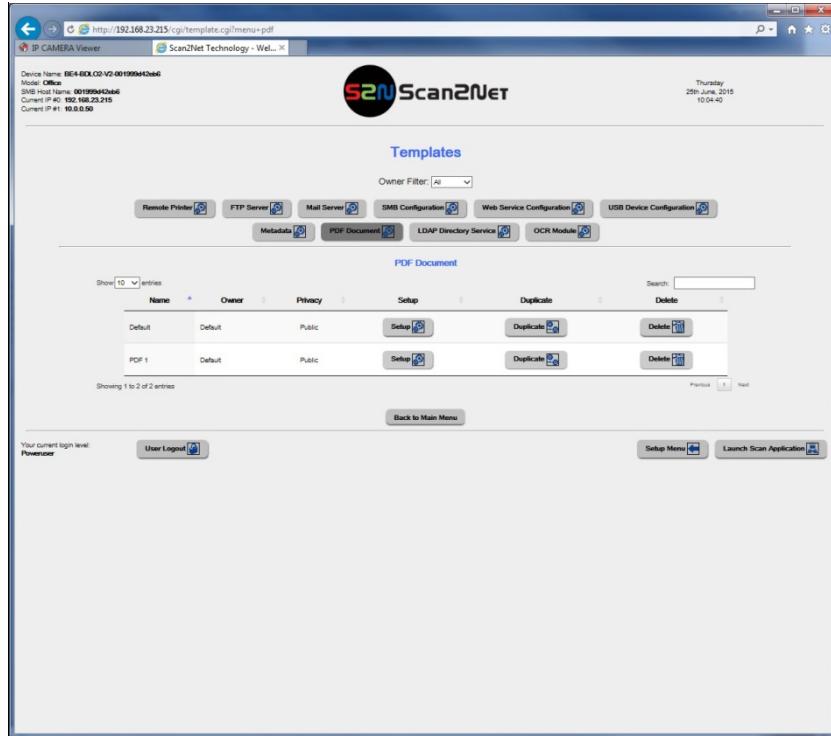
Parameter	Description
Author	The name or organization creating the document or the copyright owner of the document.
Title	A short title for the scanned document.
Subject	Abstract of the document.
Copyright Marker	Select if the scanned document is copyright protected.
Copyright Information	The copyright message can be entered here. This message will only be embedded in the scanned document if the copyright marker is set to yes.
URL of extended Copyright Information	An external URL which shows a detailed copyright message.
Keywords (comma separated list)	A list of comma separated keywords which describe the content of the document.

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

D.4.14.9 PDF Document

The PDF document format is a universal format which allows protecting the document against manipulation.

PDF documents can be displayed with all common PDF viewers.



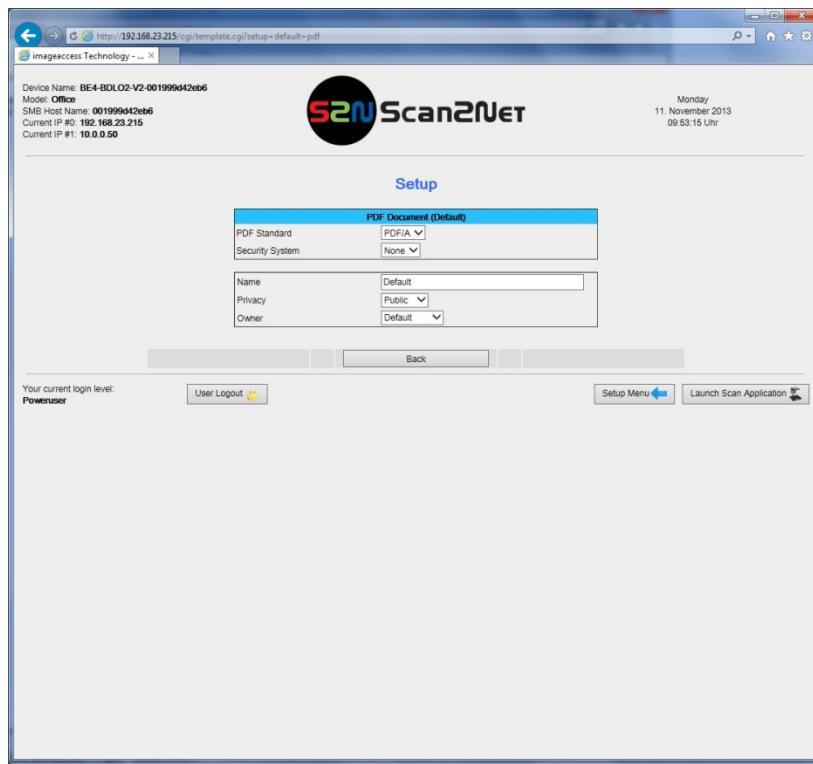
The screenshot shows a web-based interface for managing device templates. At the top, there's a header bar with the URL <http://192.168.23.215/cgi/template.cgi?menu=pdf>, the device name (BE4-BX.02-V2-00199943e6e), model (Office), and various service icons. The main content area is titled "Templates" and contains a sub-section for "PDF Document". A table lists two entries:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public	Setup	Duplicate	Delete
PDF 1	Default	Public	Setup	Duplicate	Delete

At the bottom of the page, there are links for "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application".

Picture 115: Template list for PDF document

D.4.14.9.1 Setup



Picture 116: PDF Document parameters

Parameter	Description
PDF Standard	Click on the selection arrow and select the desired PDF standard from the list
Security System	Click on the selection arrow and the desired security system from the list.

D.4.14.10 LDAP Directory Service

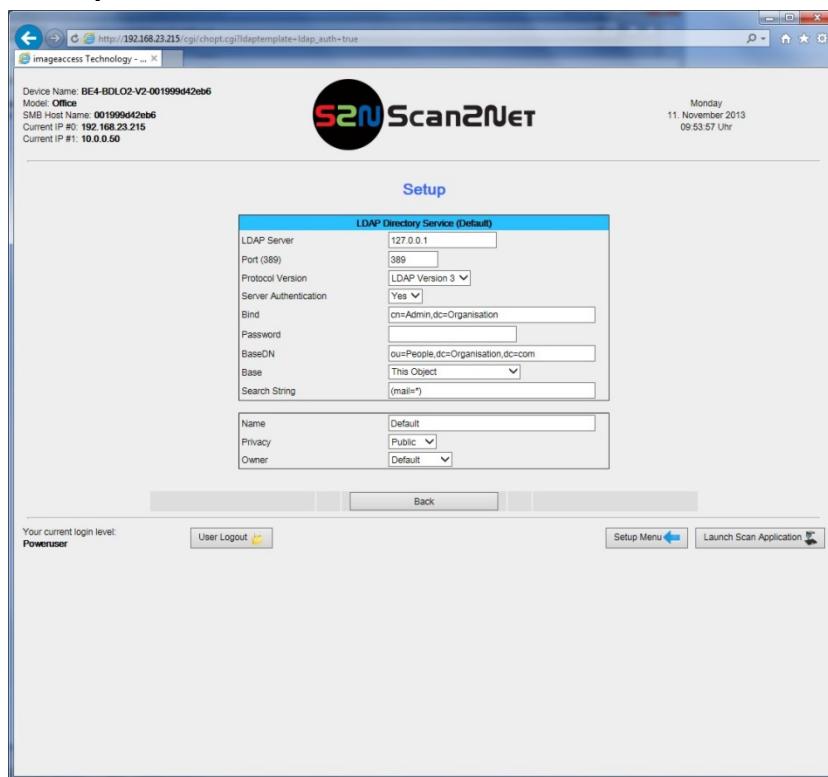
The screenshot shows a web-based configuration interface for a Scan2Net device. At the top, there's a header bar with the IP address `http://192.168.23.215/cgi/template.cgi?menu=ldap`, the device name `6E4-03L02-V2-00199442ab6`, and the model `Office`. The date and time are listed as `Thursday 25th June, 2015 10:04:47`. The main content area is titled **Templates** and features a navigation bar with tabs: **Remote Printer**, **FTP Server**, **Mail Server**, **SMB Configuration**, **Web Service Configuration**, **USB Device Configuration**, **Metadata**, **PDF Document**, **LDAP Directory Service** (which is currently selected), and **OCR Module**. Below the tabs is a search bar labeled **Search:** [] and a dropdown menu labeled **Owner Filter:** [All]. A table titled **LDAP Directory Service** lists five entries:

Name	Owner	Privacy	Setup	Duplicate	Delete
LDAP	Default	Public	[Setup]	[Duplicate]	[Delete]
LDAP 1	Default	Disabled	[Setup]	[Duplicate]	[Delete]
LDAP 2	Default	Disabled	[Setup]	[Duplicate]	[Delete]
LDAP 3	Default	Disabled	[Setup]	[Duplicate]	[Delete]
LDAP 4	Default	Disabled	[Setup]	[Duplicate]	[Delete]
LDAP 5	Default	Disabled	[Setup]	[Duplicate]	[Delete]

At the bottom of the interface, there are buttons for **Back to Main Menu**, **User Logout**, **Setup Menu**, and **Launch Scan Application**. The footer displays the current login level as **Poweruser**.

Picture 117: LDAP Directory Service templates

D.4.14.10.1 Setup



Picture 118: LDAP Directory parameters

Parameter	Description
LDAP Server	Enter here the address of the LDAP server.
Port (389)	Enter the port to be used for the connection here. Standard is port 389
Protocol Version	LDAP Version 2 / LDAP Version 3
Server Authentication	Yes / No
Bind (with Server Authentication = Yes)	Enter the desired value here.
Password (with Server Authentication = Yes)	Enter the password here.
BaseDN	Enter the desired value here.
Base	Click on the selection arrow and select from the list.
Search String	Enter the search string here.

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

D.4.14.11 OCR

Barcode or texts in scanned documents are detected by the implemented OCR functionality.

For this purposes some templates are pre-installed.

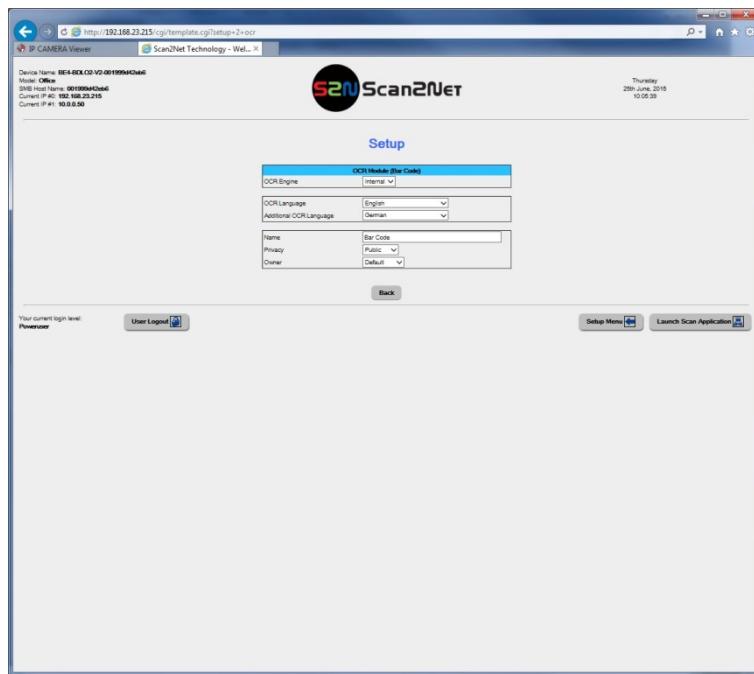
The screenshot shows a Windows-based application window titled 'IP CAMERA Viewer'. The URL in the address bar is 'http://192.168.23.215/cgi/template.cgi?menu=ocr'. The main content area is titled 'Templates' and shows a list of three entries under the 'OCR Module' tab:

Name	Owner	Privacy	Setup	Duplicate	Delete
Bar Code	Default	Public	Setup	Duplicate	Delete
Default	Default	Public	Setup	Duplicate	Delete
Deutscher Text	Default	Public	Setup	Duplicate	Delete

Below the table, there is a message: 'Showing 1 to 3 of 3 entries'. At the bottom of the interface, there are links for 'Back to Main Menu', 'User Logout', 'Setup Menu', and 'Launch Scan Application'.

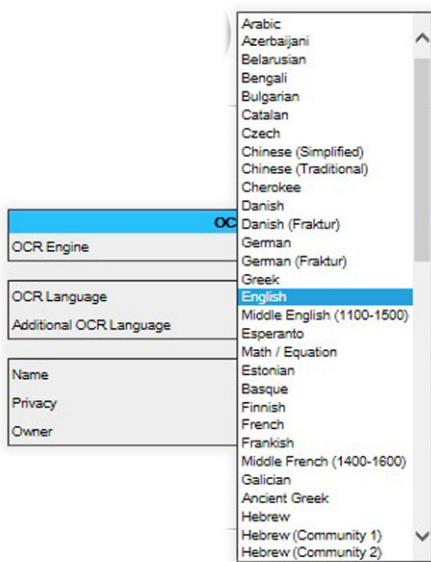
Picture 119: List of OCR templates

D.4.14.11.1 Setup



Picture 120: Settings of the OCR modul

Parameter	Description
OCR engine	Click on the selection arrow to see a list of optional installed OCR software. Internal: The internal OCR software will be used.
OCR Language	Click on the selection arrows to show the list of languages available for the OCR function
Additional OCR Language	



Picture 121: List of languages

D.4.15 Scan settings templates

The section **Scan setting templates** offers a number of templates with settings that match to most of the common scanning needs.

The screenshot shows a web-based interface for managing scan templates. At the top, there's a header bar with the URL 'http://192.168.24.213/cgi/stemplate.cgi?menu'. Below the header, there's a status bar with device information: Device Name: WTS8C-300-001999saHe0c, Model: Plain, SMB Host Name: scanner, Current IP #0: 192.168.24.213, Current IP #1: 10.0.0.90. To the right, it shows the date and time: Wednesday, 28th August, 2015, 09:32:35. The main content area is titled 'Scan Templates' and contains a table with ten entries. Each entry includes a name (e.g., 'Automatic Halftone', 'Book 200dpi JPEG', etc.), a visibility dropdown (e.g., 'Disabled', 'Public'), and buttons for 'Duplicate' and 'Delete'. Below the table, a message says 'Showing 1 to 10 of 12 entries'. At the bottom right, there are navigation buttons labeled 'Previous', '1', '2', and 'Next'. A red circle highlights the 'Next' button. At the very bottom of the page, there are links for 'Back to Main Menu', 'User Logout', 'Setup Menu', and 'Launch Scan Application'.

Picture 122: List of scan templates, page 1

Each page lists ten scan templates.

To list the next page, click at **Next** at the marked position.

In order to show more than ten entries, click in the line **Show xxx entries** (above the templates table) on the selection arrow.

A list opens. Select here the desired number of entries.

D.4.15.1 Elements and their functions



Picture 123: Scan templates menu bar

The scan templates installed as default are protected against modification.

For this reason the buttons **Save current settings** and **Edit current settings** are blanked out for the default scan templates.

Name Shows the scan template name.

If displayed, click at the pen symbol right beside the name to edit the name. A small window opens.

Click with the mouse in the field in which the name is displayed.

Edit the name with the PC keyboard.

Click at **Save** to accept the edited template name and to close the window.

Click at **Cancel** to close the window without changing the template name.

Visibility Click at the selection arrow.

Public Lists the template on the external touchscreen monitor (optional).

Disabled The template is not visible on the external touchscreen monitor.

Save Click at the button **Save current settings** to save all current settings made in the ScanWizard interface. This button is not displayed with the default templates. Chapter D.4.15.2 describes the necessary steps in detail.

Edit Click at the button **Edit current settings** to show and edit the settings of the scan template. This button is not displayed with the default templates. Chapter D.4.15.3 describes the necessary steps in detail.

Duplicate Click here to duplicate the template with all settings.

The duplicate will be added to the list with the name **Copy of <name>**.

Delete Click here to delete the template.



Picture 124: Export / Send File buttons

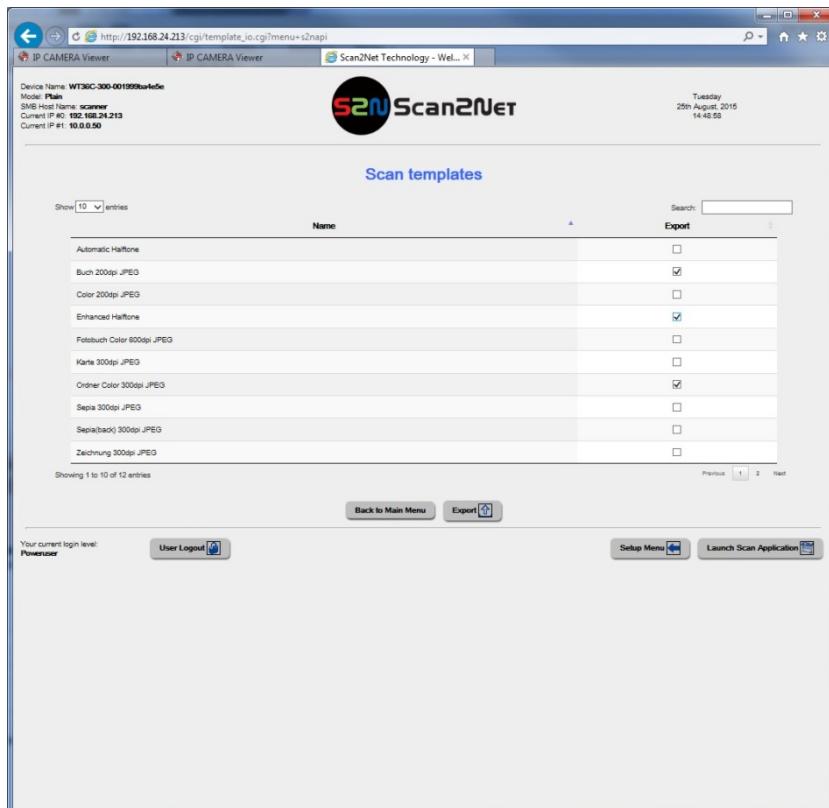
Templates from other scanners of the same type saved as “*.sql” files can be uploaded.

Search Click here to search your local PC or in network directories for suitable “sql” files.

Send File Click here to upload the selected “*.sql” file to the scanner.

To use established templates with other scanners of the same type, they can be exported as “*.sql” file.

Export Click here to open a list with the available templates.



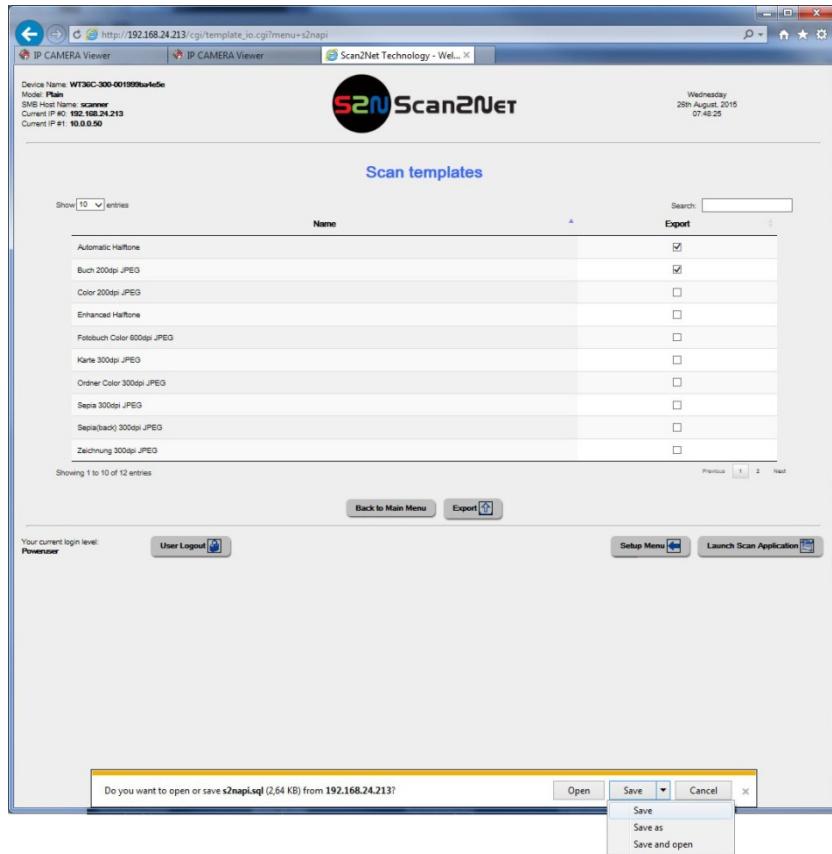
Picture 125: Template list for export

Mark the checkbox in the **Export** column to select the templates you want to export.

To see more scan templates click at **Next**.

Click at **Export** to save the selected templates in an “sql” file.

Depending on the browser, an additional window opens or at the bottom of the browser window a query line is displayed.



Picture 126: Select the action for the export file

Select here the action for the file which should to be exported.

D.4.15.2 Save current settings

Note: This button is not displayed with the default templates.

Click this button to save the current settings defined in the ScanWizard interface to the template.

To save settings execute the following steps:

Duplicate an existing template. The copy will be listed as **Copy of <name>**. The list is in alphabetic order.

Open a second browser window and start the ScanWizard interface with your browser.

Modify the parameters in the ScanWizard interface and scan. Check if the results match to your specific needs. Modify if necessary.

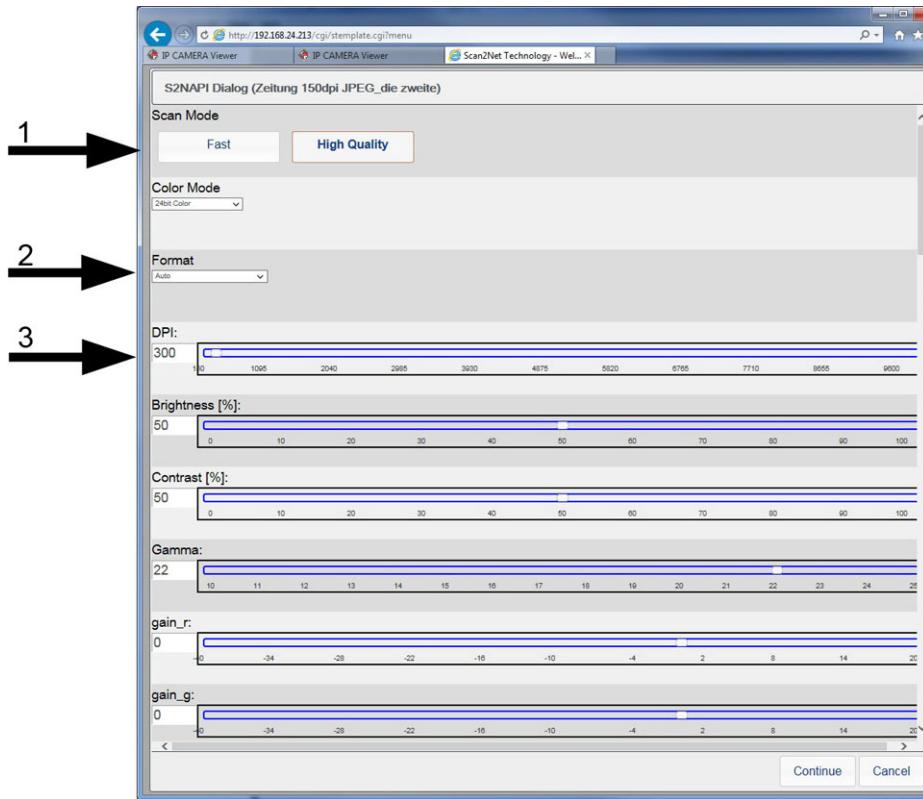
Finally return to the browser which displays the scan templates.

Click in the line of the copied scan template the button



D.4.15.3 Edit current settings

Click this button to open a list with all parameters and the current setting or value of this template.



Picture 127: Parameter list with current values

Use the slider at the right margin to move the list up and down.

The values can be modified in different ways.

1. Select from defined values or settings
2. Select from a list. Click at the selection arrow to open the list. Click at the desired value. The list closes automatically.
3. Click with the mouse at the slider, hold the left button pressed and move the slider. The current value will be displayed in the field left beside the slider.

Alternatively click in the field and enter the value with your keyboard. Press the “Tab” button or click in another field to transfer the new setting.

Continue

Click here to continue with the changed values. The window closes and returns to the scan templates screen.

Cancel

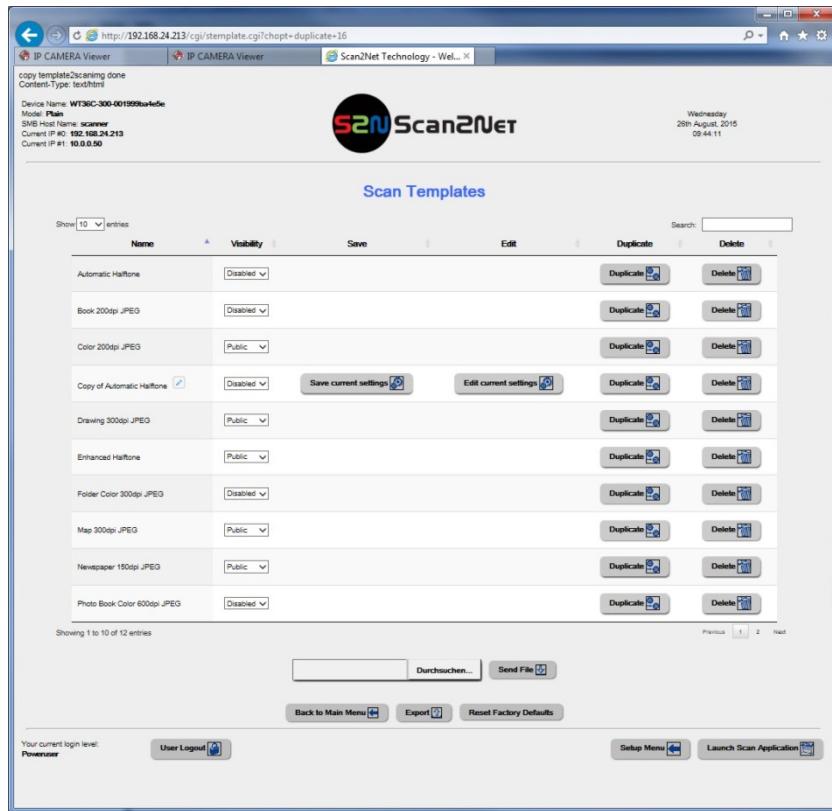
Click here return without saving the changed values. The window closes and returns to the scan templates screen.

D.4.15.4 Duplicate

To create a new template duplicate an already existing scan template.

The duplicate will be named as **Copy of <name>**.

It will be sorted into the list automatically. The list is in alphabetical order.



Picture 128: Copy of template added to the list

The buttons **Save current settings** and **Edit current settings** will be added.

To change the template name, click at the pen symbol. A small window opens.



Position the cursor in the line **Name** and enter a new name or modify the name of the template.



Click here to save the modified name. The window closes; the modified name will be positioned in the templates list.



Click here return without saving the changed values.

D.4.15.5 Delete

Click this button to delete a template.

Note: There is no safety request before deleting.

D.5 Updates & Uploads

The section **Updates & Uploads** contains the functions for a firmware update and as well as to activate options by entering a keycode.

D.5.1 Firmware Download

The Image Access Customer Service Portal (CSP) <http://portal.imageaccess.de/> offers the current firmware for all scanners which base at the Scan2Net technology.

As registered user, sign up to the CSP with your personal login name and the associated password.

Select the item **Action** in the headline. Click at **Decive Updates** (2nd item from the top).

Enter the serial number of the scanner and the version number of the firmware installed at this time.

Click at **Send**.

Now the screen changes and shows the current firmware version and all necessary files.

Follow the steps described on the website.

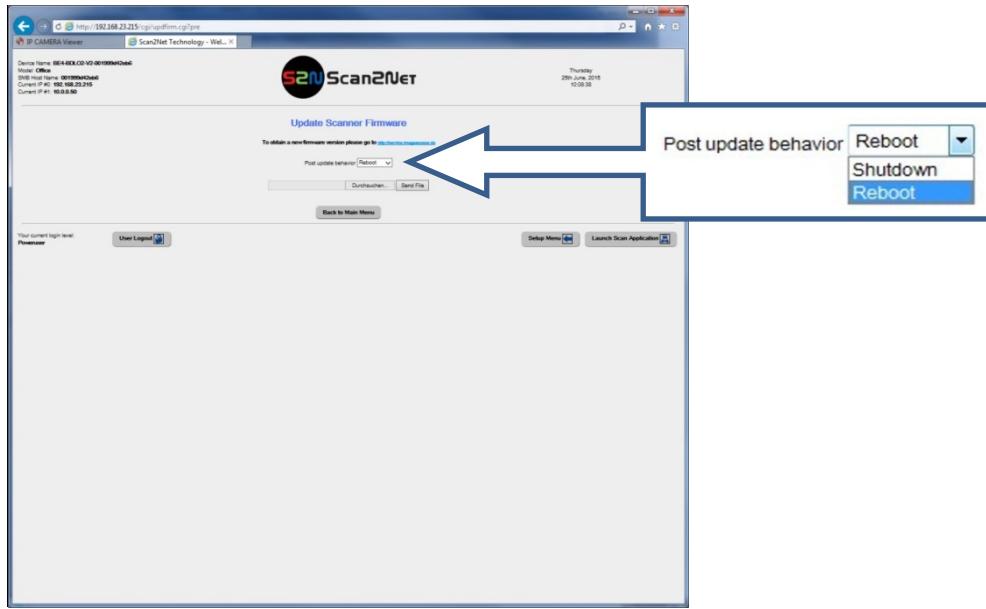
Download the ZIP archive file to your local computer.

IMPORTANT: Do not unpack the ZIP archive!

All components of the ZIP archive are necessary for the update.

D.5.2 Update of the Scanner Firmware

In the section **Update & Uploads** click at **Update Scanner Firmware**



Picture 129: Update Scanner Firmware

To restart the scanner after the firmware update automatically, click on the selection arrow beside **Post update behavior**.

Select **Reboot** from the list. The scanner will start automatically after the firmware update sequence is completed.

Click the button **Search** to browse your local PC and select the previously downloaded firmware update file.

Click the button **Send File** to transfer the selected firmware file to the scanner.

IMPORTANT: **Do not switch off** the scanner while executing the firmware update!

Transferring the firmware file can take a couple of minutes, depending on the network performance. While the update is running, no messages will be displayed on the screen.

After the firmware is successfully updated, the screen displays a summary.

To finalize the update process, the scanner must be rebooted. This is done automatically if **Post Update Behavior** is set to **Reboot**.

If **Shutdown** is selected, the scanner powers down at the end of the firmware update.

When restarting after a firmware update, the scanner reboots with factory default settings.

All installed options will stay active.

Note: After a firmware update some measurements have to be executed.

For this measurements always use the test targets delivered with the scanner.

The Bookeye® 4 scanner is delivered with the listed test targets.

- 2x White Reference Test Target **BE4-Z-V2-A**
- 4x **CSTT-2** test targets (contained in the reference folder)
- The **Line Reference Target LRT-BE4-V2** is glued between the book cradle plates on the scanner's base unit.

The section **Adjustment & Support** contains function to execute these measurements. Chapter D.6 and its sub-chapters describe the functions that should to be used.

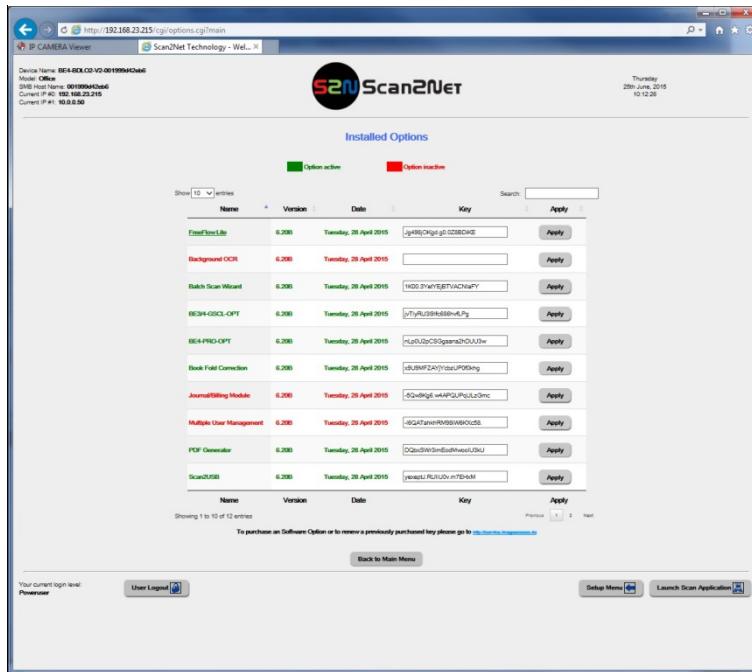
Perform the measurement in this order:

1. **White Balance**. This function calibrates the camera, depending on the lighting conditions at the installation site. It is recommended to always perform this function if the lighting conditions change significantly.
2. **Auto Focus**. This function measures a reference value for the focus adjustment. It should be repeated when no proper focusing is possible.
3. **Focus Line**. This function determines the horizontal center of the scan area.
4. **DPI Measurement**. This function measures the resolution for the entire scan area.
5. **Laser Check**. This function checks the integrated laser.
6. **Gear correction**. This function calculates a correction function for the mirror motor of the camera.
7. **White Balance**. Repeat the white balance after executing the other measurements.

D.5.3 Installed Options

This section shows all available options for the scanner.

After clicking on **Installed Options** a list with all options available for the scanner will open. Updating the list will take a short moment.



Name	Version	Date	Key	Apply
FrontSide Lite	6.200	Tuesday, 28 April 2015	4yMjOgigjtGZD80KtE	Apply
Background OCR	6.200	Tuesday, 28 April 2015		Apply
Batch Scan Wizard	6.200	Tuesday, 28 April 2015	HQ2J3yvN5BTJAcInaPv	Apply
BEA4-GSCL-OPT	6.200	Tuesday, 28 April 2015	vTyrLJSRhs88nL7z	Apply
BEA-PRO-OPT	6.200	Tuesday, 28 April 2015	H2oUoC5Opna2HOUJw	Apply
Book Fold Correction	6.200	Tuesday, 28 April 2015	vBjMFZAYQquIP0qng	Apply
JournalBilling Module	6.200	Tuesday, 28 April 2015	4QwBgLwAPUPoJLsMc	Apply
Multiple User Management	6.200	Tuesday, 28 April 2015	4QATahnRM8WBR0kds	Apply
PDF Generator	6.200	Tuesday, 28 April 2015	DQmW3mExhWew0tUSU	Apply
Scan2DB	6.200	Tuesday, 28 April 2015	1enpUJRUUV-n7DnM	Apply

Picture 130: Options List

Active, i.e. purchased options are displayed in green color; inactive options are displayed in red.

To optimize the overview, the number of displayed options can be selected.

Activate options

To activate an option, a unique key must be entered. The key is valid only with one specific scanner and cannot be transferred to another scanner.

The software keys can be purchased at the Image Access Customer Service Portal. Visit the URL portal.imageaccess.de and enter the data for your scanner to get the available keys.

Enter the key in the respective line and click on **Apply**.

After activating the option, the list will be refreshed and the color of the activated option turns to "Green".

Deactivating options

Delete the software key of the option. Click on **Apply**.

D.6 Adjustments & Support

D.6.1 Adjustments

The **Adjustment** screen shows the links to the optical and mechanical adjustments.



Picture 131: Adjustment main screen

The **Focus & Scan Area Adjustments** section offers the measurement routines for all optical adjustments. The content of the subsections remain the same.

With firmware 6.x or higher the order of the subsections have been changed.

The **White Balance Adjustments** section offers the measurement routines to execute the white balance and to set the brightness correction.

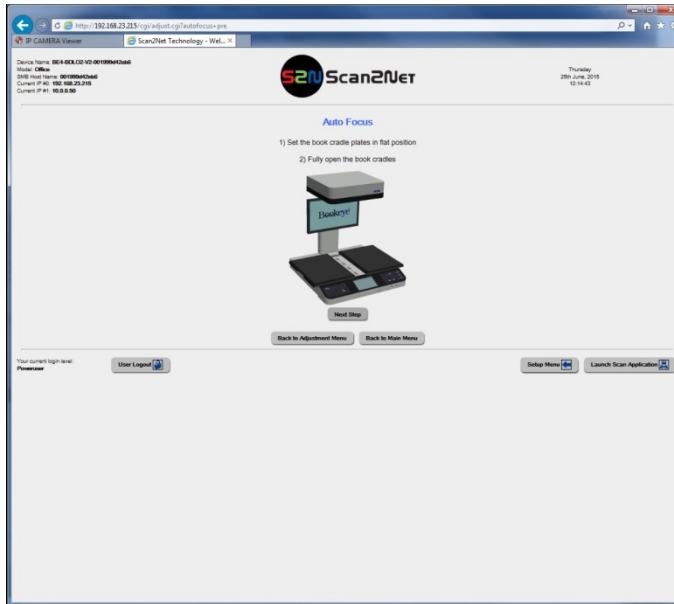
The **Initialize / Deinitialize Device, Hardware Controls & Mechanical Tests** section offers a setup routine for the lamps positions (firmware version up to 5.8x).

The **Enhanced Adjustments** section offers a setup routine for the gear correction of the lamps.

General note: It is a well-known fact that the measurements will return different values at each repetition. The lens motor has a very high resolution and the best focal point has to be found in the already large focal range, therefore a variation of 50 – 100 in values is normal.

D.6.1.1 Auto Focus

This function automatically locates the lens position for the highest level of sharpness and best image quality.

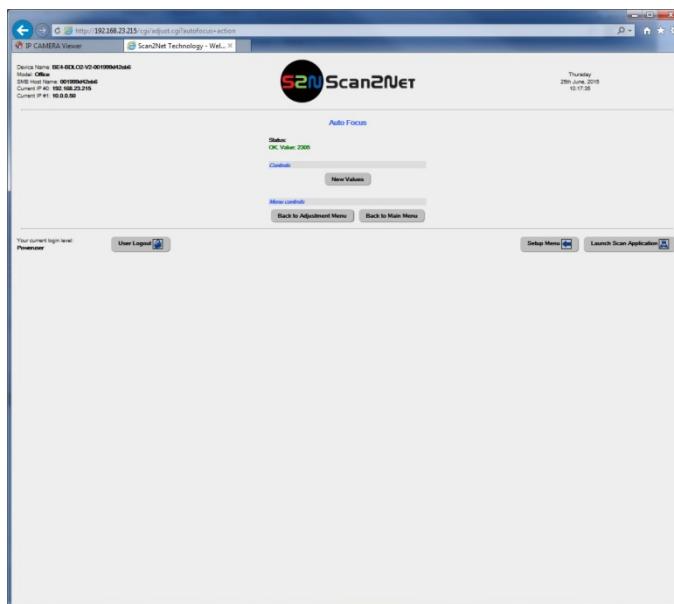


Picture 132: Auto Focus start screen

Open the book cradles as displayed at the screen.

Click on **Next Step** to start the measurement.

The result will be displayed. Values displayed in green indicate valid results. Any error will be shown in red text, followed by explanatory remarks.



Picture 133: Auto Focus results

New Values

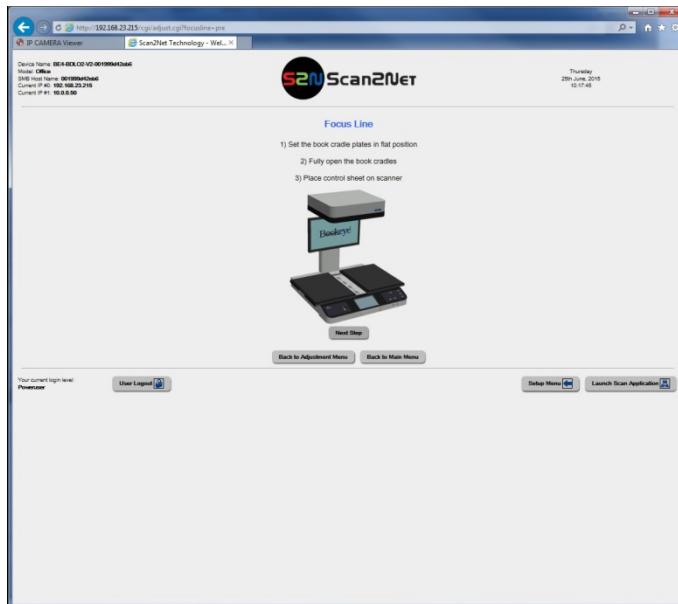
Repeats the measurement. A variation of 50 – 100 in values when repeating the measurement is normal.

Back to Adjustment Menu

Returns to the former menu.

D.6.1.2 Focus Line

This function measures the focus at three positions of the scan area. Three different resolutions are selectable for the measurement sequence.



Picture 134: Focus Line screen with options for resolution

Open the book cradles as illustrated on the screen.

Click on **Next Step**. The measurement starts.

The results will be displayed in the next screen.



Picture 135: Result of Focus Line measurement

New Values

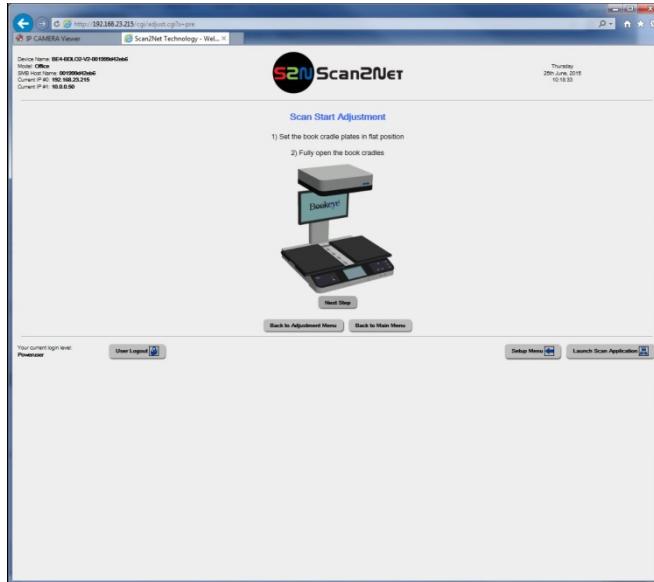
Repeats the measurement. It is normal that the measurement will return different values each time the measurement is repeated. A variation of 50 – 100 in values is normal.

Back to Adjustment Menu

Returns to the former menu.

D.6.1.3 Scan Start

This function synchronizes the position of the CCD camera and the lamps position relative to each other. The electronic gear is fine-tuned with this routine. The measurement sequence will take a short while.



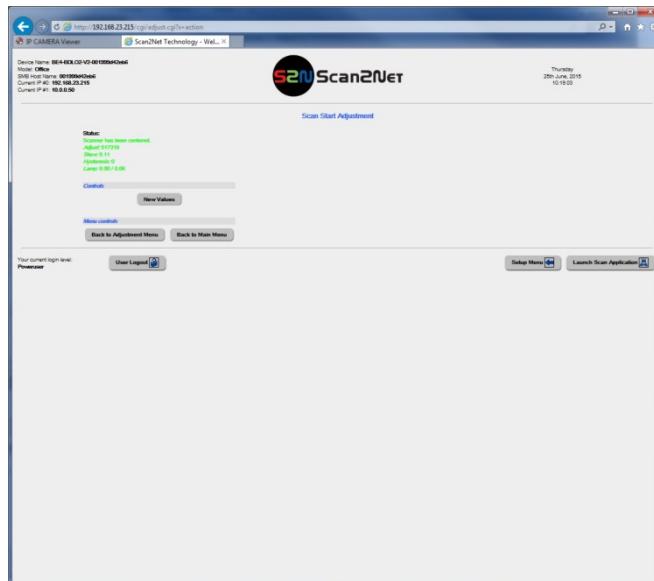
Picture 136: Scan Start screen

Open the book cradles as shown on the screen.

Click on **Next Step** to start the measurement.

At the end of this process, the screen will return some measurement results. As long as the results are all displayed in green text, the device is properly calibrated.

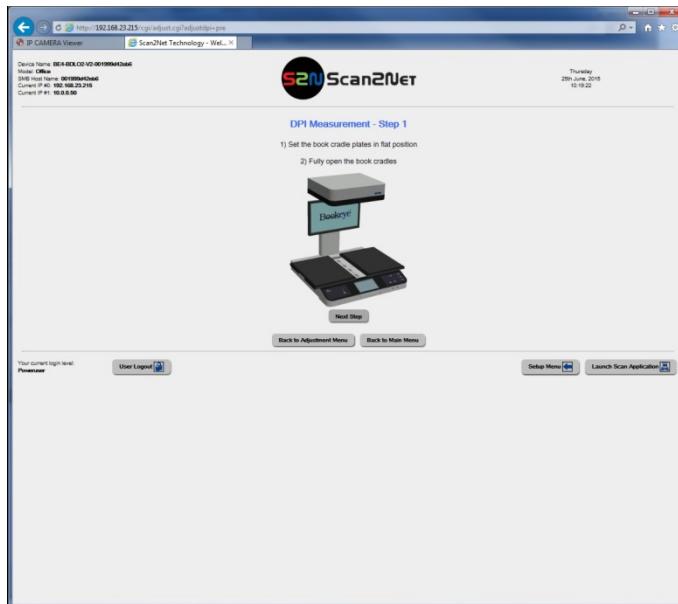
An error is always shown in red text and usually comes with an explanatory remark.



Picture 137: Results of Scan Start adjustment

D.6.1.4 DPI Measurement

This function measures the resolution of the camera in relation to the distance between scan area and camera.

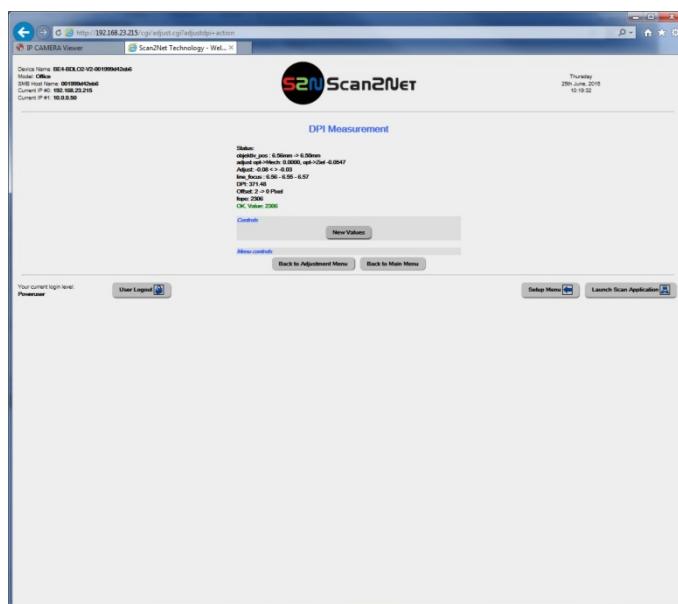


Picture 138: DPI Measurement start screen

Open the book cradles as shown on the screen.

Click on **Next Step** to start the measurement.

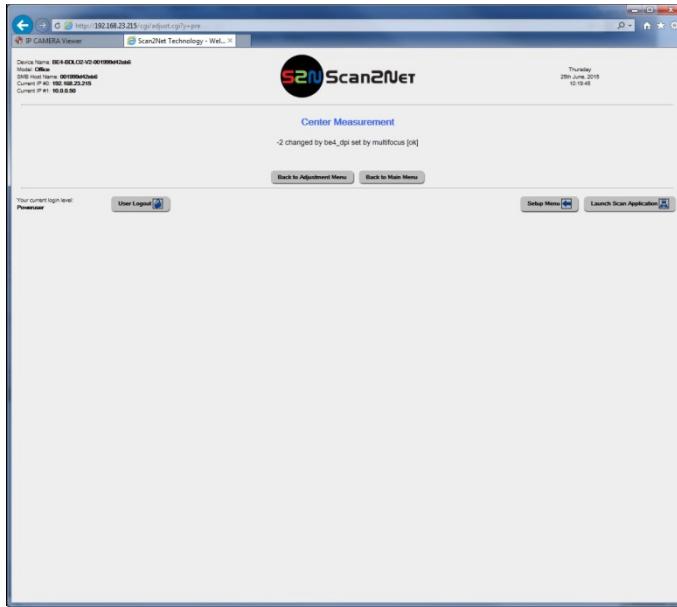
The lamps light up for a short time and the measurement will be executed. At the end, the screen shows the results.



Picture 139: Result of DPI measurement

D.6.1.5 Center Measurement

The button **Center Measurement** delivers status information about the center position.



Picture 140: Center Measurement information

New Values

Repeats the measurement. It is normal that the measurement will return different values each time the measurement is repeated. A variation of 50 – 100 in values is normal.

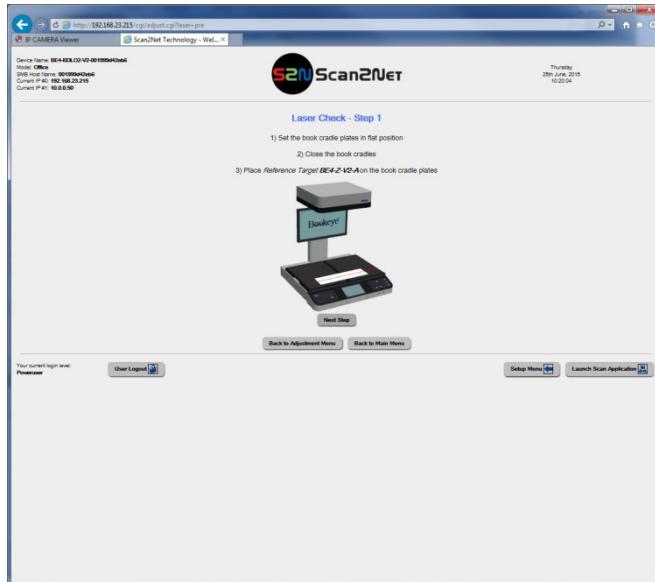
Back to Adjustment Menu

Returns to the former menu.

D.6.1.6 Laser Check

This function checks the integrity and position of the laser line. The function will return skew and relative position to its ideal values and is used to track potential misalignment.

The laser line is used by the camera electronics to measure the document's contour and to calculate the correction for the curvature of the document binding.

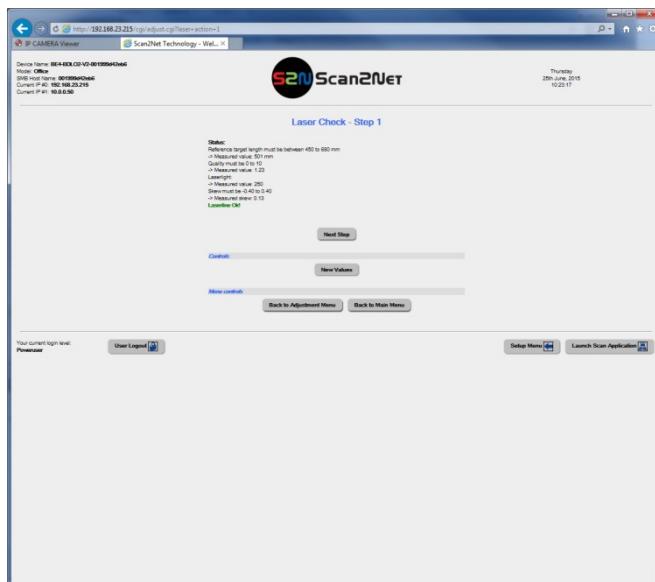


Picture 141: Laser Check screen

Close the book cradles and place the Laser Check test target as displayed on the screen.

Click on **Next Step** to start the measurement.

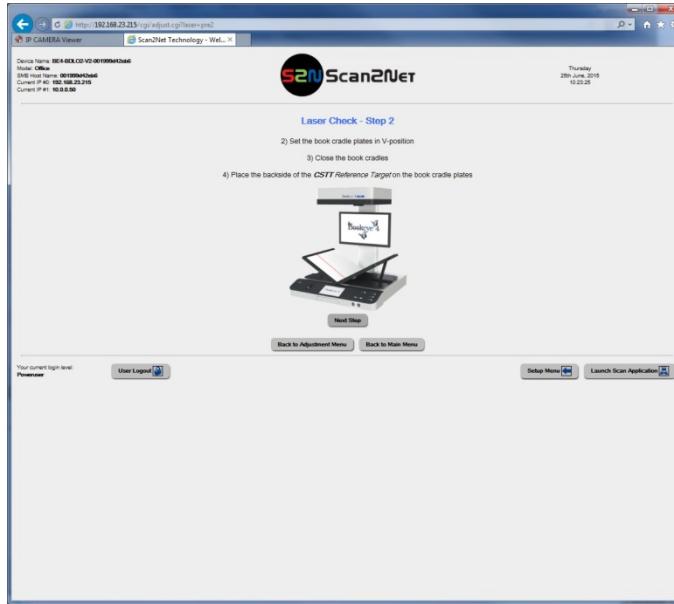
While the test sequence runs, the lamps will not light up. When the function has finished, the screen shows the result. As long as the displayed text is green, the result is ok. Any error will be shown in red followed by some explanatory remarks.



Picture 142: Laser Check result

Click on **Next Step** to execute the measurement with the book cradle in V-Mode position.

This is an optional measurement and has not to be executed every time.



Picture 143: Laser Check, optional measurement

Set the book cradle in V-Mode position.

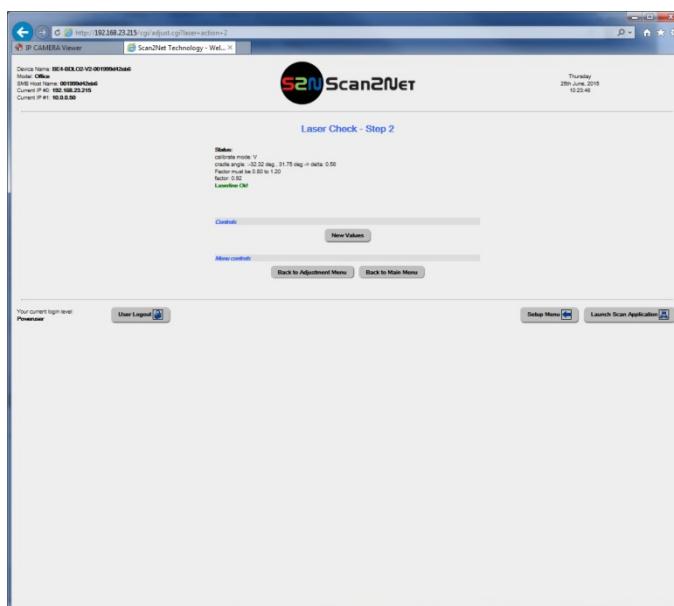
Close the book cradle, i.e. push the book cradle plates together.

Place on each book cradle plate a sheet of white paper which covers the complete plate. It is recommended to use the CSTT test targets which come with the scanner.

Place the CSTT test target with the blank side up on the book cradles.

Click on **Next Step** to start the measurement.

When the function has finished, the screen shows the result.

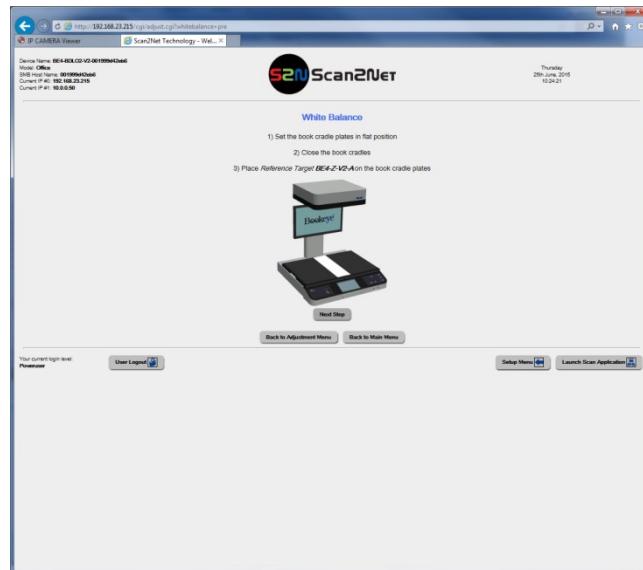


Picture 144: Laser check result with book cradle in V-Mode position

D.6.1.7 White Balance

The white balance function is the most important function for consistent image quality. This is especially important in the type of open scanning environment present with overhead book scanners.

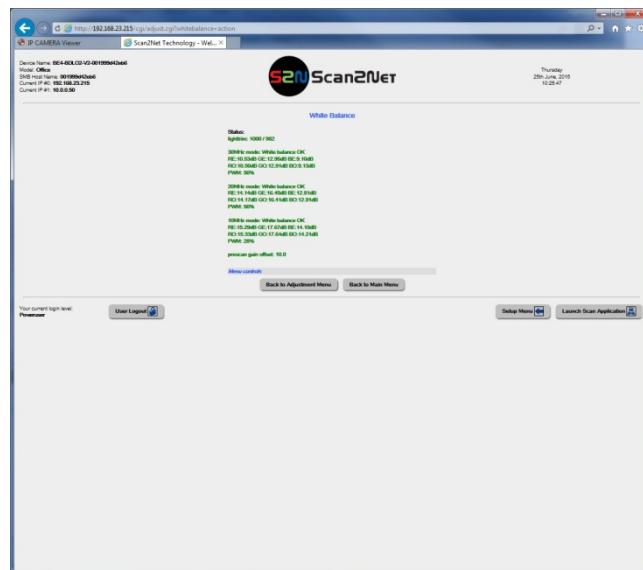
During the white balance measurement, all internal and external light sources are combined and illuminate the target. The measurement results in a correction function for the scan area.



Picture 145: Test target placed in the middle

Place the test target **BE4-Z-V2-A** on the book cradle as shown. The test target must overlap at the upper margin and at the lower margin of the book cradle plate.

Click on **Next Step** to start the measurement. The measurement takes approximately one minute and the results will be displayed in the next screen.

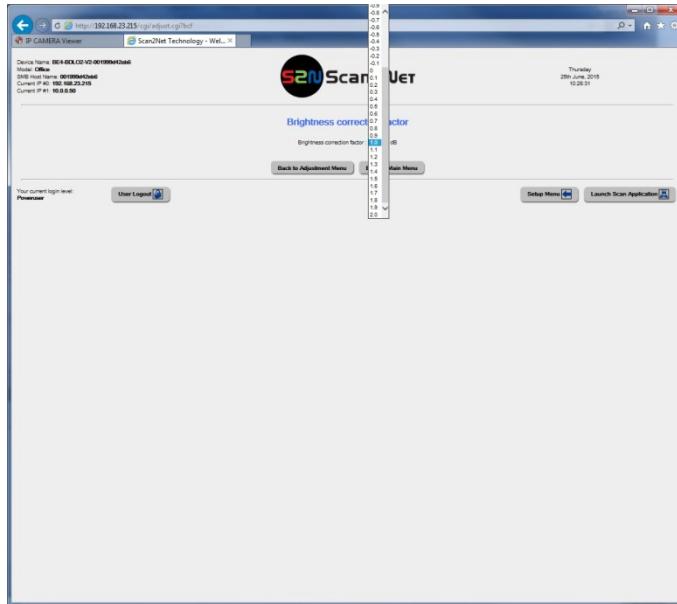


Picture 146: White Balance results

As long as the displayed text is green, the result is ok. Text in red displays errors and is followed by some explanatory remarks.

D.6.1.8 Brightness Correction

The brightness correction function does not perform any measurements; it only allows setting a correction factor for the brightness. The interval of the correction factor is ± 2 dB.



Picture 147: Brightness Correction factor list

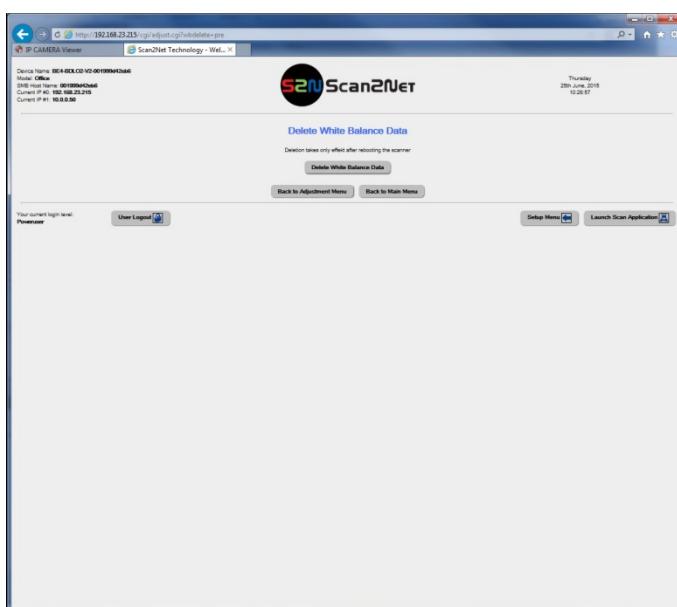
Click on the selection arrow to set the desired correction factor.

The correction factor will be effective immediately.

D.6.1.9 Delete White Balance Data

Delete White Balance Data

Click on the button to execute the deletion.



Picture 148: Information about deleting the white balance data

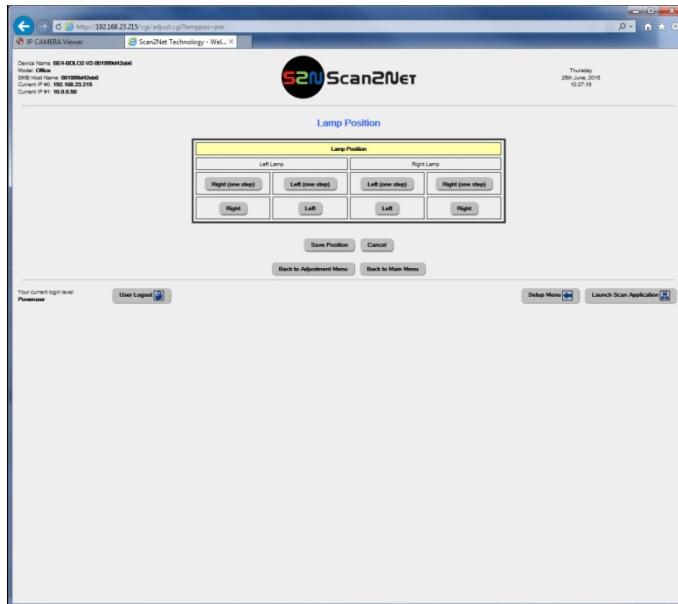
After the white balance data have been deleted, repeat the white balance measurement.

D.6.1.10 Lamp Position

This function allows modifying the position of the lamps.

The target is to position the light bar of each lamp in the horizontal midst of the scan area. At the position of the overlapping light bars, this results in a maximum light level.

While scanning, the position of the maximum light level is synchronized with the camera position.



Picture 149: Lamp Position control

When clicking on the **Lamp Position** button, the screen changes to the lamp position control and both lamps light up with reduced brightness.

The lamps switch off

- automatically after 100 seconds if no change of the values was performed,
- when clicking on **Cancel**, **Back to Adjustment Menu** or **Back to Main Menu**.

Clicking on one of the available buttons switches the other lamp off. The beam of the selected lamp will be moved in the selected direction. The direction always refers to the direction of the light beam.

When clicking on the button of the other lamp, the previously activated lamp switches off and the lamp of the selected side lights up.

Left (one step)

Moves the lamp's light bar one unit to the left / one unit to the right.

Right (one step)

Moves the lamp's light bar ten units to the left / ten units to the right.

If only one lamp is activated, it turns off automatically after 30 seconds.

Click on the button **Save Position** to save the position of the lamps.

Back to Adjustment Menu

returns to the former menu.

Back to Main Menu

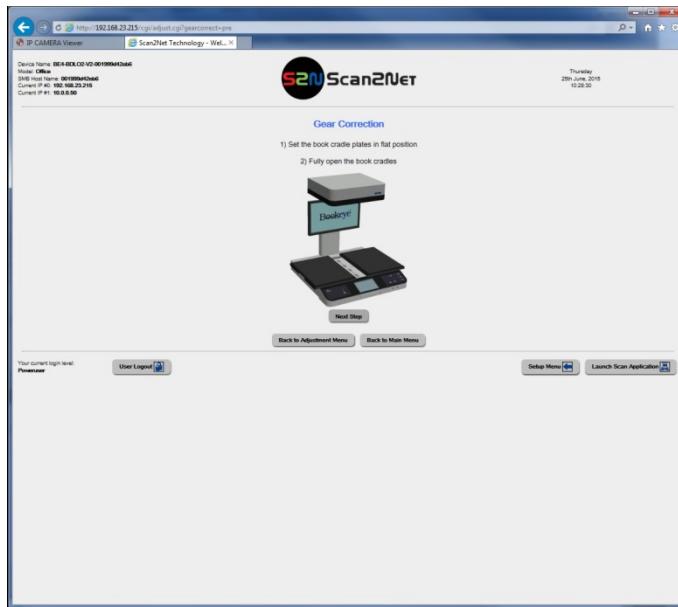
returns to the **Poweruser** level main menu (Picture 38).

D.6.1.11 Lamp Test

[Lamp Test] turns the lamps on with reduced brightness. The lamps illuminate the middle of the left and the right book cradle. After 30 seconds the lamps switch off automatically.

D.6.1.12 Gear Correction

This function performs a fine adjustment of the synchronization between the lamps and the camera.

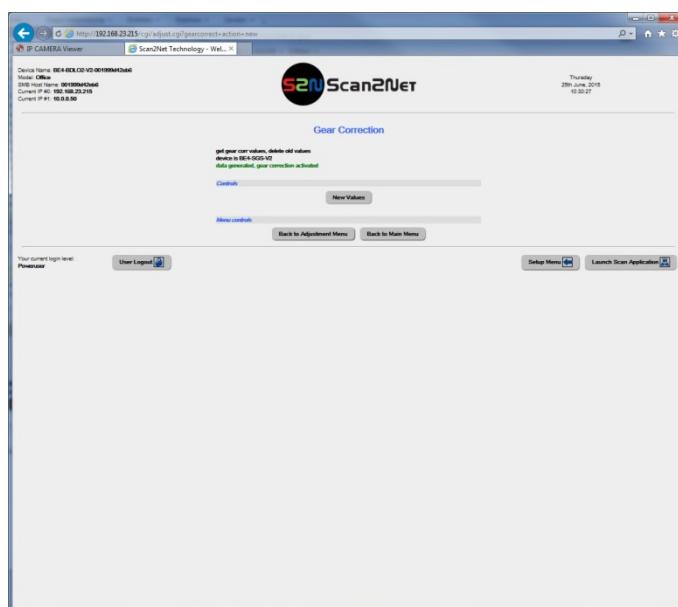


Picture 150: Gear Correction start screen

Open the book cradle plates as shown on the screen.

Click on [Next Step] to start the measurement.

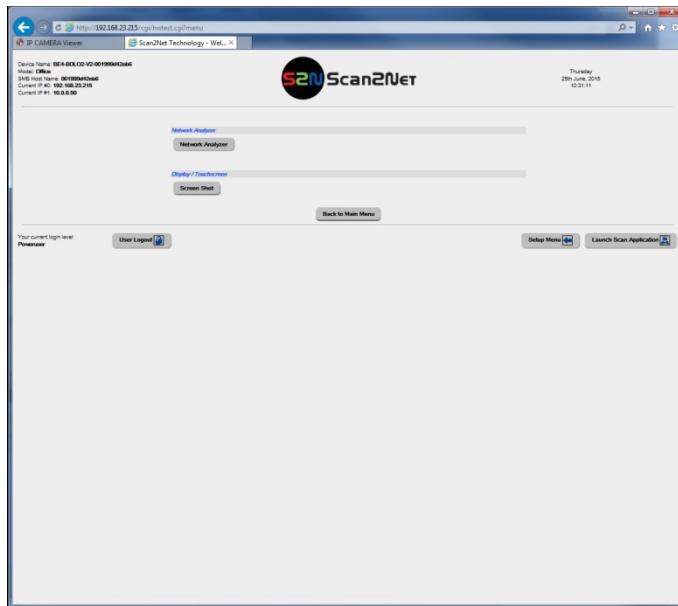
The lamps light up and move over the scan area. The status message will be displayed.



Picture 151: Gear Correction status

D.6.2 Hardware Test Suite

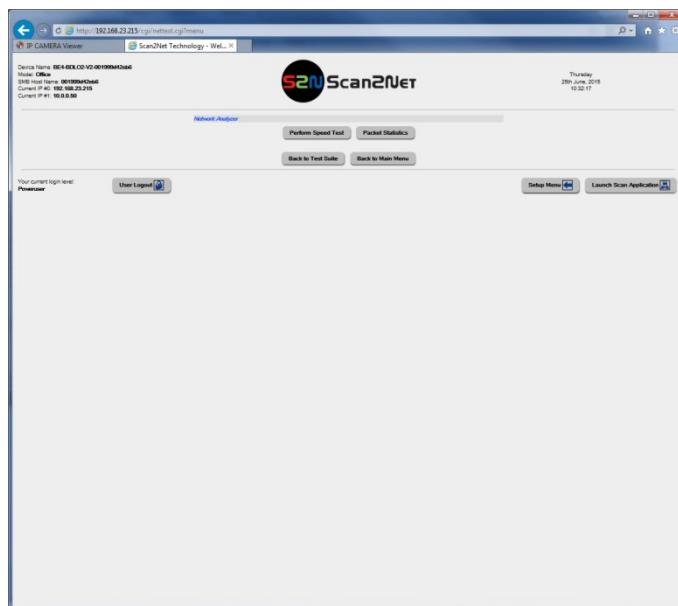
This menu contains the network analyzer and the screenshot function.



Picture 152: Hardware Test Suite start screen

D.6.2.1 Network Analyzer

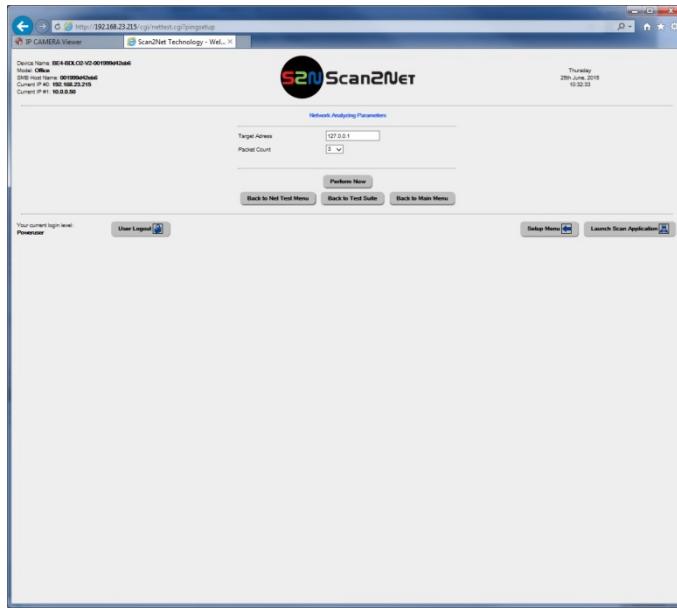
This menu allows performing the speed test for the network where the scanner is connected, and shows the packet statistics.



Picture 153: Network Analyzer menu items

D.6.2.1.1 Perform Speed Test

Click on **Perform Speed Test** to check the date transfer speed.



Picture 154: Network Analyzing Parameters

Target Address Enter an IP address which can be accessed from the scanner to test the data transfer speed.

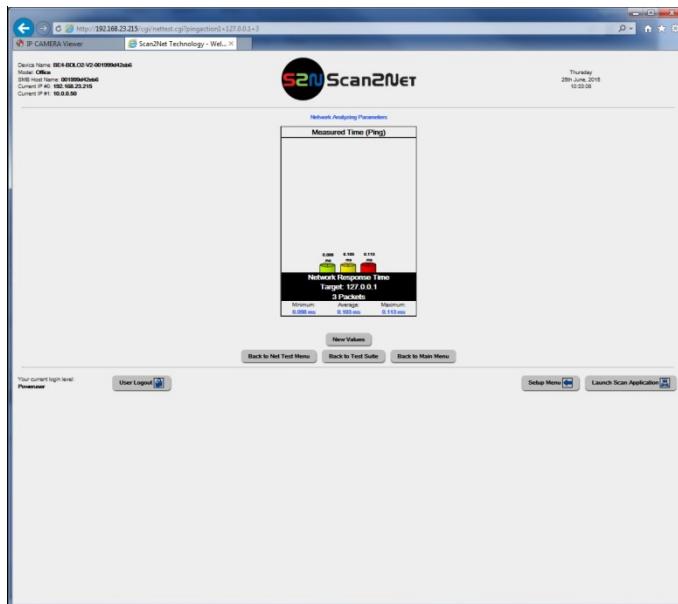
Packet Count Click on the selection arrow to set the number of transferred packets.

Perform Now Starts the test sequence.

Back To Net Test Menu Returns to the network analyzer start screen.

Back To Test Suite Returns to the **Hardware Test Suite** screen (Picture 152).

The result of the measurement is displayed at the next screen.



Picture 155: Measured Time

The bar graphic shows the three values:

- | | |
|---------|---|
| Minimum | The fastest transfer time between the scanner and the target address. |
| Average | The average time for all transferred packets. |
| Maximum | The maximum transfer time during the test. |

Depending at the transfer time, the color of the bar changes.

D.6.2.1.2 Packet Statistics

Packet Statistics Shows the current network packet statistics.



Picture 156: Packet Statistics values

D.6.2.2 Screen Shot

The **Screen Shot** function delivers a screenshot of the current content of the touchscreen and of the current content of the external monitor.



Picture 157: Screenshot of touchscreen (above) and monitor content

To see the complete content of the monitor screenshot use the scrollbar to move the screen content.

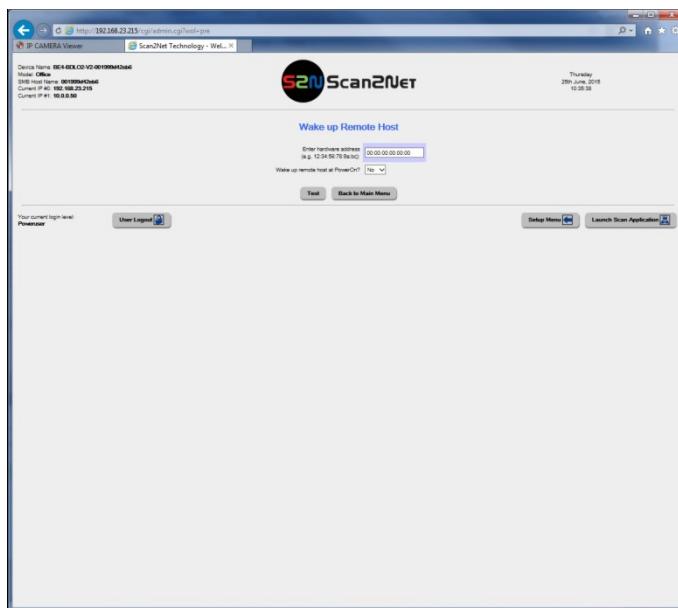
This function can be used for example for remote diagnosis purposes.

D.7 Administrative Settings

D.7.1 Wake up Remote Host

If an external PC is used with the scanner, it is helpful to start the PC at the same time when the scanner starts.

This can be done by activating the **Wake up Remote Host** function.



Picture 158: Wake up Remote Host

The requirements for using this function:

- In the BIOS of the external PC the function “Wake on LAN” must be activated.
It may be necessary to update the BIOS of older PCs for this function to be available.
- The main power of the external PC must be active, but the PC can be in “Power save” mode.

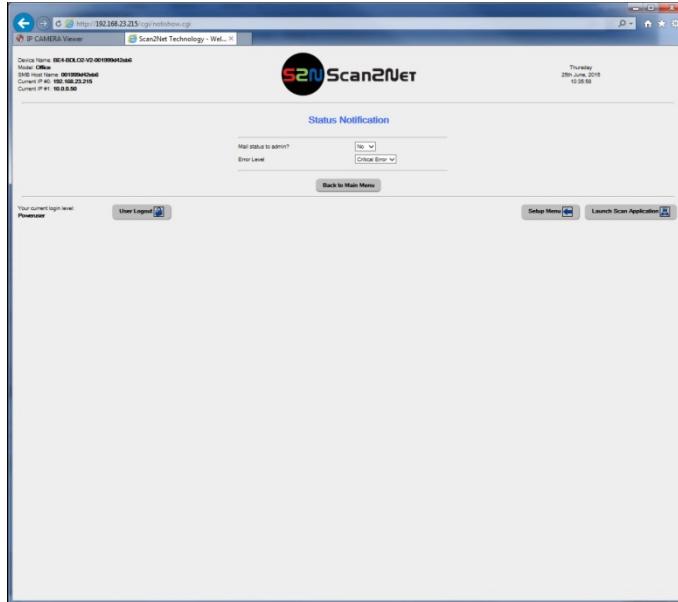
Enter hardware address Enter the MAC address of the network card of the PC here.

Wake up remote host at PowerOn **Yes** Starts the remote PC when the scanner is started.

No: Disabled the function.

D.7.2 Status Notification

For monitoring the scanner, this menu allows defining if the system administrator gets a mail in case of an error or not. Furthermore it allows specifying the error type which triggers the mail to the administrator.



Status Notification parameters

Define the mail address of the receiver of status notification as follows:

Templates → Mail Server (see chapter D.4.14.4) → line System Messages

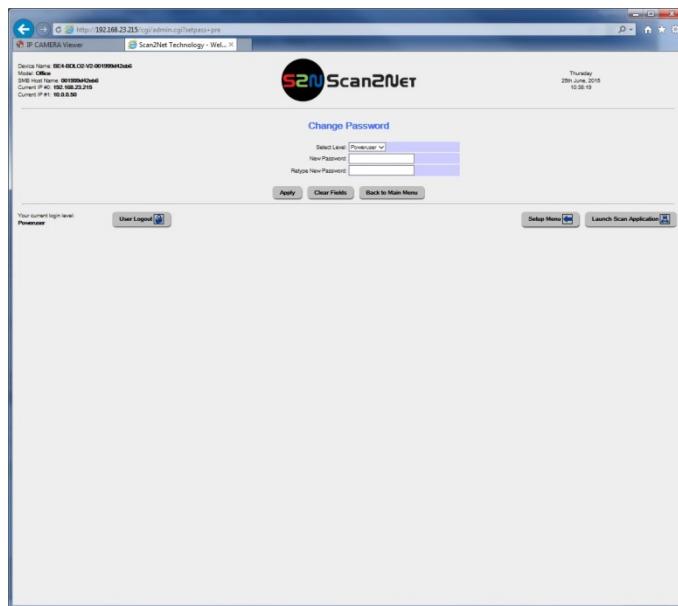
Mail status to admin? Select Yes or No.

Error level Click at the selection arrow and select the error level which triggers the mail. Available error levels are:
Critical Error, Error, Warning and Info.

D.7.3 Change Password

It is recommended to modify the password often, to protect the limited access to the **Poweruser** level.

Click on **Change Password**.



Picture 159: Change password menu

Select Level

Click on the selection arrow to open the list of log-in levels. Select the log-in level, for which the password should be changed.

New Password

Enter the new password.

Retype New Password

Type the new password again.

Note: The system differs between lowercase and uppercase when entering the password.

Click on **Apply** to send the new password to the scanner.

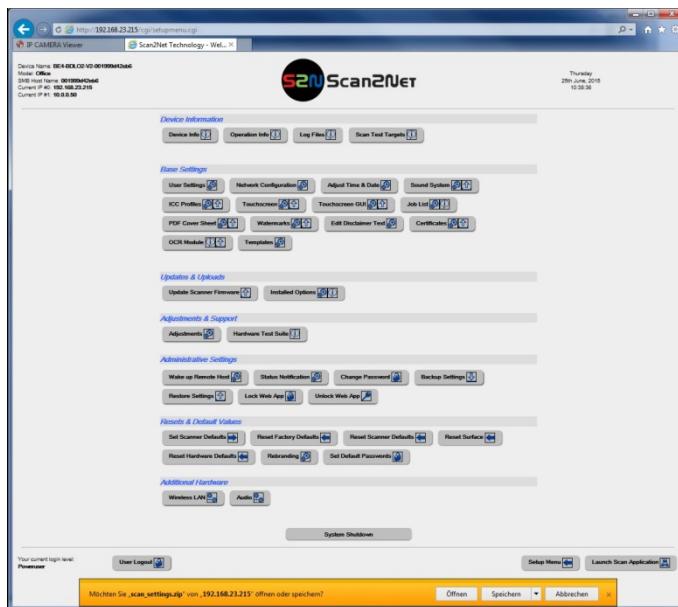
Click on **Clear Fields** to clear the fields where the password can be entered.

D.7.4 Backup Settings

To store the current settings of the scanner, a ZIP archive file can be created.

Click on **Backup Setting** to create the ZIP archive.

Depending on the browser used, a small window opens at the bottom line of the current window or a separate window opens. Picture 160 shows the small window at the bottom when using the “Internet Explorer” browser.



Picture 160: Small window at bottom line with inquiry for action

Open	Opens a window and shows the contents of the ZIP file. The ZIP file contains a directory which is named according to the scanner device type and its serial number. The directory can be opened but all files therein are password protected and cannot be opened.
Save	Saves the ZIP file with an automatically generated file name. The contents of the small window change after saving. The buttons in the small window allow opening the ZIP file, the directory of the ZIP files or opens the download lists in a separate window.
Save as	Save the ZIP file. The desired file name can be entered before saving.
Save and open	Saves the ZIP file and opens a window which shows the contents of the ZIP file.

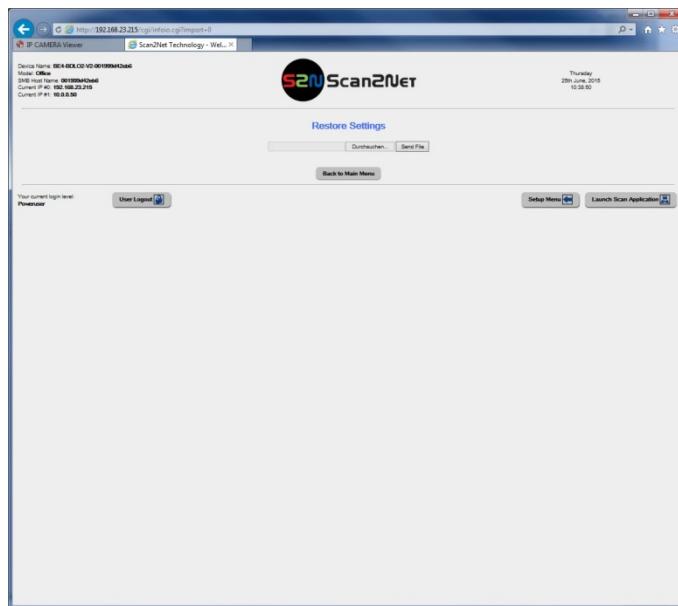
The ZIP archive contains printer specific settings, mail addresses for the data transfer via SMTP or the network settings for SMB network share.

Using this function is recommended in order to have the current settings available after the scanner has been reset to factory defaults (chapter D.8.2).

D.7.5 Restore Settings

With this function, the ZIP file stored with the “Backup Settings” function can be loaded to the scanner.

Click on **Restore Settings**



Picture 161: Restore setting from ZIP file

To find the ZIP archive, click on **Search** and browse the directory structure to find the desired ZIP archive file.

Click on **Send File** to upload the file to the scanner.

After restoring the scanner settings the screen shows a message and reminds the operator to perform a White Balance sequence.

D.7.6 Lock Web App

This function locks the Scan2Net user interface.

When the ScanWizard interface is locked, the scanner can only be controlled by the touchscreen or by external software.

D.7.7 Unlock Web App

This function unlocks the Scan2Net user interface.

Enter the password that has been used to lock the Scan2Net user interface.

D.8 Resets & Default Values

D.8.1 Set Scanner Defaults

This function enables saving settings for color mode, resolution, document mode as well as network parameters and other parameters. When powering up, the scanner starts with the saved settings.

To modify the settings, switch to the Scan2Net user interface and set all parameters to the desired values.

Return to the **Poweruser** level.

Click on **Set Scanner Defaults** to execute.

All settings defined in the Scan2Net user interface will be active when the scanner starts.

The parameters defined for the output controls in the lower part of the S2N user interface (see Operation Manual, chapter C “Software Operation”) will not be saved.

D.8.2 Reset Factory Defaults

This function sets all parameters back to factory settings.

The settings defined for printer output or the connections defined in SMB configuration or the stored email addresses and other parameters will be erased and replaced by universal entries.

Click on **Reset Factory Defaults** to execute the function.

D.8.3 Reset Scanner Defaults

Resets all scanner parameters to the values which were set with **Set Scanner Defaults**.

Click on **Reset Scanner Defaults** to execute the function.

D.8.4 Reset Surface

This function resets the surface to factory defaults.

D.8.5 Reset Hardware Defaults

This function resets the hardware parameters to the values which were defined during the basic setup when assembling the scanner.

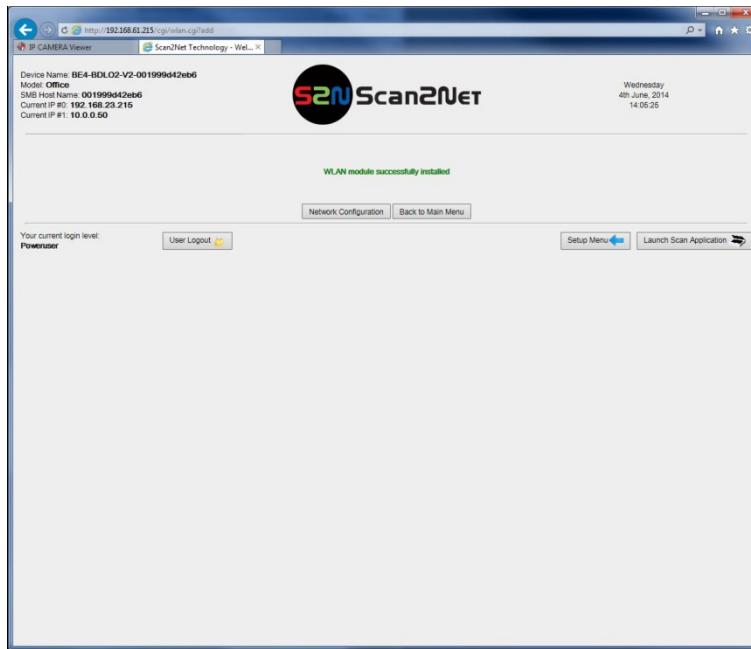
D.8.6 Set Default Passwords

This function resets all passwords to factory defaults.

D.9 Additional Hardware

D.9.1 Wireless LAN

This menu item activates the WLAN module in the scanner after installation.



Picture 162: WLAN module activated

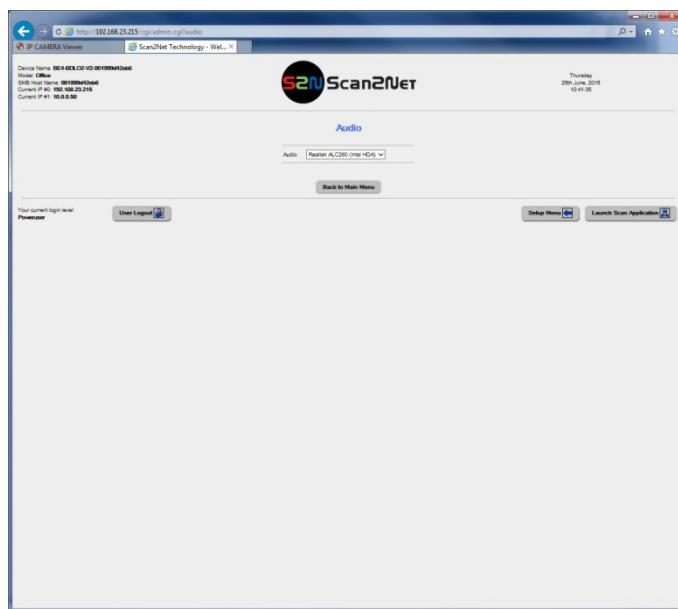
After modifying the WLAN module parameters this function must be used to integrate the WLAN module in the system.

Network Configuration switches to the settings of the network parameters.

See chapter D.4.2.

D.9.2 Audio

Select here the audio sources to be used for audio output.



Picture 163: Audio source

Available audio sources are listed after clicking at the selection arrow.

E Recovery Function

The recovery function helps to set all device parameters to factory defaults after a fatal system breakdown.

The recovery key is necessary to invoke the recovery procedure.



A recovery key is delivered with every device; it is marked with the label **Recovery**.

Picture 164: Recovery Key

IMPORTANT: The recovery function resets the IP address to the factory default value of 192.168.1.50. It may be necessary to use the crossover cable and change the network settings on the local computer.

E.1 BEFORE Recovering to Factory Defaults

The steps described in the following should **only** be executed after a fatal system breakdown!

Before starting the recovery sequence write down the values for the IP address, subnet mask and gateway of the device.

E.2 Executing the Recovery

IMPORTANT: The scanner must be in standby mode before inserting the recovery key.

Plug the recovery key into the **Recovery key connector** at the connector's panel.

See Picture 14, detail #5

Press the **Power** button to start the scanner.

The device will start and, after it has found the recovery key to be present in the port, it will automatically execute the recovery sequence. All viable system data will be restored and necessary repair steps will be taken without the need of any user interaction.

IMPORTANT: Do not switch off the device at any time during the recovery procedure!

Note: The recovery sequence can take several minutes. While the recovery sequence is running, **no message** will be displayed.

When the recovery sequence has finished, the device will power down automatically.

After the device has powered down unplug the recovery key.

E.3 AFTER Recovering to Factory Defaults

Power up the device with the **Power** button.

The factory default IP address of the device is: 192.168.1.50

After recovering to the factory defaults do the following steps:

- Change the network parameters to the values which were used before running the recovery sequence. See chapter C.6 and its sub-chapters for more information.
- Executed a firmware update. See chapter D.5.2 for more information. Make sure an update file is available on the local computer.
- Perform a white balance adjustment. See chapter C.3 (touchscreen) or chapter D.6.1.7 (Poweruser setup).
- After the white balance adjustment, the software adjustment for the device must be performed.

Select **Setup Device** → **Poweruser**. Login as **Poweruser**.

Locate the section **Adjustments & Support** and click the button **Adjustments**. Perform all adjustments in this section by clicking the appropriate buttons.

All options already installed at the delivery of the scanner are available after recovering to factory defaults.

Options, which were purchased at a later time, must be reactivated with their matching key code.

F Error Codes and Warnings

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 problem description in red marks an error which will stop the scanner and inhibits further scanning.

F.1 Error Codes

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	The stop button was pressed during the operation.
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.
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.

Error #	Error message shown in the display	Error message sent to application	Problem description
20	ERROR 20: MOTOR 1/1 (CCD DRV) SWITCH PERM. OPEN	Motor 1 / PCI 1 (CCD 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 1/1 (CCD DRV) SWITCH PERM. CLOSED	Motor 1 / PCI 1 (CCD drive): End switch permanently closed	The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.
22	ERROR 22: MOTOR 2/1 (L. LAMP) SWITCH PERM. OPEN	Motor 2 / PCI 1 (Left lamp): 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.
23	ERROR 23: MOTOR 2/1 (L. LAMP) SWITCH PERM. CLOSED	Motor 2 / PCI 1 (Left lamp): End switch permanently closed	The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.
24	ERROR 24: MOTOR 3/1 (R. LAMP) SWITCH PERM. OPEN	Motor 3 / PCI 1 (Right lamp): 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.
25	E25 MOTOR 3/1 (R. LAMP) SWITCH PERM. CLOSED	Motor 3 / PCI 1 (Right lamp): End switch permanently closed.	The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.
26	E26 MOTOR 4/1 (LENS) SWITCH PERM. OPEN	Motor 4 / PCI 1 (Lens): 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.
27	E27 MOTOR 4/1 (FOCUS) SWITCH PERM. CLOSED	Motor 4 / PCI 1 (Lens): End switch permanently closed.	The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.

Error #	Error message shown in the display	Error message sent to application	Problem description
30		File format not supported.	The specified file format is not supported or it is invalid in combination with the color mode.
31		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	E56 WRONG S2N HW REVISION NOT OK	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.
61	E61 CAM FAILED CAMERA 1	Camera 1 failed	Initializing of camera 1 failed. Check power, cables and S2N-PCI board.
65	E65 CAM DATA BUS CAMERA 1	Camera 1 data bus error.	Test data transfer to camera 1 failed. Check cables / connectors to camera 1 and S2N-PCI board.
69	E69 ADC ERROR CAMERA 1	Camera 1 adc error.	Test data transfer through analog digital converter failed. Check cables / connectors to camera 1.

Error #	Error message shown in the display	Error message sent to application	Problem description
73	E73 no camera data	no camera data.	
74	E74 CAMERA	General camera error.	General error on the CCD camera board. Check power, cables and S2N-PCI board.
75		Touch Panel application error	General touch panel error. Check touch panel and cables.
86	Signal handler called	SNERR_SIGHANDLER	Internal access error.
99		Internal error.	The firmware has detected an internal error of unknown cause.

F.2 Warnings

#	Warning shown in the display	Warning sent to application	Description
76	Bad keyboard config	Bad keyboard configuration	Hardware error in the keyboard PCB. Service necessary.
128	Book cradle not adjusted Move left BC downwards	Mechanical problem: Left Book cradle is not adjusted	The book cradle is not in its home position when the scanner starts.. Move the book cradle down to the home position.
130	WARNING: Foot Pedal 1: Switch permanently closed	WARNING: Foot Pedal 1: Switch permanently closed	
131	WARNING: Foot Pedal 2: Switch permanently closed	Foot Pedal 2: Switch permanently closed	
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.
146	W146 LEFT LAMP BLOCKED	Left lamp blocked.	The left lamp's slewing range is blocked.
147	W147 RIGHT LAMP BLOCKED	Right lamp blocked.	The right lamp's slewing range is blocked.
160	WARNING 160: No white balance data	No white balance data	No white balance data was found. Perform white balance procedure.
183	Document oversized (Out of memory)	Document oversized (Out of Memory)	
184	Failed to execute Auto Exposure (Memory?)	Failed to execute Auto Exposure (Memory?)	
186	Failed to execute Crop/Deskew (Memory ?)	Failed to execute Crop/Deskew (Memory ?)	

#	Warning shown in the display	Warning sent to application	Description
191		Bookfold failed	
192		Bookfold failed	
193		Bookfold failed	
194	Crop failed (left edge!)	Crop failed (left edge!)	The crop function failed. Reposition document or select another document mode. If the document is held in an open position, move the left hand to a lower position.
195	Crop failed (right edge!)	Crop failed (right edge!)	The crop function failed. Reposition document or select another document mode. If the document is held in an open position, move the right hand to a lower position.
196	Crop failed (upper edge!)	Crop failed (upper edge!)	The crop function failed. Move the document at the book cradle upwards or select another document mode.
197	Crop failed (lower edge!)	Crop failed (lower edge!)	The crop function failed. Move the document at the book cradle downwards or select another document mode.
198	Crop failed (wide open!)	Crop failed (wide open!)	The crop function failed. Move the document at the book cradle upwards or close the book cradle plates or select another document mode.

F.3 Information

#	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 / Caractéristiques techniques

G.1 Scanner Specifications

G.1.1 Bookeye[®] 4 –V3

Scan Area / Document Size

Maximum Scan Area [mm]	390 x 480 mm
	15.4 x 18.9 inch
Scanner resolution	400 x 400 dpi
Optical resolution	400 dpi
Pixel dimension	9.3 x 9.3 µm
Minimum document size	100 x 100 mm / 4 x 4 inch

Luminosity

Light intensity while scanning:	Max. 1800 LUX
Standby, idle	0 LUX (lamps off)

Lamps

Light source	High Power White LEDs, classified according IEC 60825-1:Class 1
Warm up time	None. Maximum brightness immediately.
Temperature-related alteration	None
IR-/ UV radiation	None
Lifetime	50,000 hours (typ.)

Color modes

Grayscale digitization	12 bit
Color digitization	36 bit
Scan modes	24 bit color, 8 bit grayscale, bitonal, enhanced halftone

G.1.2 Bookeye® 4 -V2

Scan Area / Document Size

Maximum Scan Area [mm]	620 x 460 mm
	24.4 x 18 inch
Scanner resolution	400 x 400 dpi (Basic, Kiosk, Office) 600 x 600 dpi (Professional)
Optical resolution	400 dpi (Basic, Kiosk, Office) 600 dpi (Professional)
Pixel dimension	9.3 x 9.3 µm
Minimum document size	100 x 100 mm / 4 x 4 inch

Luminosity

Light intensity while scanning:	Max. 1800 LUX
Standby, idle	0 LUX (lamps off)

Lamps

Light source	High Power White LEDs, classified according IEC 60825-1:Class 1
Warm up time	None. Maximum brightness immediately.
Temperature-related alteration	None
IR-/ UV radiation	None
Lifetime	50,000 hours (typ.)

Color modes

Grayscale digitization	12 bit
Color digitization	36 bit
Scan modes	24 bit color, 8 bit grayscale, bitonal, enhanced halftone

F-G.1 Spécifications du scanner

F-G.1.1 Bookeye® 4 –V3

Scan Area / Document Size

Surface de numérisation maxi [mm]	390 x 480 mm
Résolution du capteur	400 (Basic, Kiosk, Office) 600 (Professional)
Résolution de numérisation	400 x 400 (Basic, Kiosk, Office) 600 x 600 (Professional)
Taille des pixels	9.3 x 9.3 µm
Minimum la taille du document	100 x 100 mm

Luminosité

Intensité lumineuse pendant la numérisation	Max. 1800 LUX
Veille, au repos	0 LUX (lampes éteintes)

Lampes

Source lumineuse	DEL blanche de grande puissance, classés selon IEC 60825-1: Classe 1
Temps de chauffage	Pas de luminosité maxi immédiate
Altération liée à la température	Aucun
Rayonnement IR / UV	Aucun
Durée de vie	50 000 heures (typ.)

Lampes

Source lumineuse	DEL blanche de grande puissance, classés selon IEC 60825-1: Classe 1
Temps de chauffage	Pas de luminosité maxi immédiate
Altération liée à la température	Aucun
Rayonnement IR / UV	Aucun
Durée de vie	50 000 heures (typ.)

F-G.1.2 Bookeye® 4 –V2

Zone de numérisation

Surface de numérisation maxi [mm]	620 x 460 mm
Résolution de numérisation	400 x 400 dpi (Basic, Kiosk, Office) 600 x 600 dpi (Professional)
Résolution du capteur	400 dpi (Basic, Kiosk, Office) 600 dpi (Professional)
Taille des pixels	9.3 x 9.3 µm
Minimum la taille du document	100 x 100 mm

Luminosité

Intensité lumineuse pendant la numérisation	Max. 1800 LUX
Veille, au repos	0 LUX (lampes éteintes)

Lampes

Source lumineuse	DEL blanche de grande puissance, classés selon IEC 60825-1: Classe 1
Temps de chauffage	Pas de luminosité maxi immédiate
Altération liée à la température	Aucun
Rayonnement IR / UV	Aucun
Durée de vie	50 000 heures (typ.)

Modes de couleur

Niveaux de grise numérisation	12 bits
Numériser en couleur	36 bits
Modes de numérisation	Couleur 24 bits, 8 bits en niveaux de gris, monochrome, renforcée en demi-teinte

G.2 Electrical Specifications

External Power Supply

Voltage	100 – 240 V AC
Frequency	47 – 63 Hz
Inrush current	120 A max / 264 V AC
Efficiency	85 %
Idle consumption	≤ 0.5 W
Operating temperature	0 to 65 °C / 32 to 150 °F
Operating humidity	20 ... 80 % RH, non-condensing
ECO standard	CEC level V

Scanner

Voltage	24 V DC
Current	Max. 5 A

Power Consumption

Sleep	≤ 0.5 W
Standby	2.5 W
Ready to scan, monitor on	75 W
Scanning	130 W

F-G.2 Spécifications électriques

Alimentation électrique extérieure

Tension	100 – 240 V c.a.
Fréquence	47 – 63 Hz
Courant d'appel	120 A maxi / 264 V c.a.
Efficience	85 %
Consommation en veille	≤ 0,5 W
Température de service	0 à 65 °C / 32 à 150 °F
Humidité en service	20 ... 80 % d'HR (sans condensation)
Norme ECO	Niveau CEC V

Scanner

Tension	24 V c.c.
Courant électrique	Maxi 5 A

Consommation électrique

Hors tension, écran allumé	≤ 0,5 W
Standby	2,5 W
Prêt à numériser, écran allumé	70 W
Numérisation	130 W

G.3 Dimensions and Weight

G.3.1 Bookeye® 4 –V3

Scanner outer dimensions	780 x 500 x 580 mm (H x W x D) 30.7 x 19.7 x 22.9 inch
Scanner outer dimensions, book cradle opened	780 x 595 x 580 mm (H x W x D) 30.7 x 23.5 x 22.9 inch
Weight of scanner	Approx. 30 kg / 66 lbs.

Transport Box:

Dimension transport box :	720 x 880 x 620 mm (H x W x D) 28.4 x 34.7 x 24.5 inch
Dim. of transport box with carrier handles:	720 x 910 x 620 mm (H x W x D) 28.4 x 35.9 x 24.5 inch
Weight transport box:	10 kg / 22 lbs.
Total shipping weight	40 kg / 88 lbs.

G.3.2 Bookeye® 4 –V2

Scanner outer dimensions	780 x 670 x 670 mm (H x W x D) 30.7 x 26.4 x 26.4 inch
Scanner outer dimensions, book cradle opened	780 x 765 x 670 mm (H x W x D) 30.7 x 30.2 x 26.4 inch
Weight of scanner	Approx. 40.5 kg / 90 lbs.

Transport Box:

Dimension transport box :	1010 x 810 x 835 mm (H x W x D) 39.8 x 31.9 x 32.9 inch
Weight transport box:	44.5 kg / 98 lbs.
Total shipping weight	85 kg / 188 lbs.

F-G.3 Dimensions et poids

F-G.3.1 Bookeye® 4 –V3

Dimensions extérieures du scanner, berceau de livre fermé	780 x 500 x 580 mm (H x L x P)
Dimensions extérieures du scanner, berceau de livre ouvert	780 x 595 x 580 mm (H x L x P)
Poids total du scanner, prêt à l'emploi	env. 30 kg

Transport Box:

Dimensions du carton de transport	720 x 880 x 620 mm (H x L x P)
Dimension du boîte de transport avec poignées:	720 x 910 x 620 mm (H x L x P)
Weight transport box:	10 kg / 22 lbs.
Total shipping weight	40 kg / 88 lbs.

F-G.3.2 Bookeye® 4 –V2

Dimensions extérieures du scanner, berceau de livre fermé	780 x 670 x 670 mm (H x L x P)
Dimensions extérieures du scanner, berceau de livre ouvert	780 x 765 x 670 mm (H x L x P)
Poids total du scanner, prêt à l'emploi	env. 40,5 kg

Carton du transport

Dimensions du carton de transport	1010 x 810 x 835 mm (H x L x P)
Poids du carton de transport	44,5 kg
Poids de transport total	85 kg

G.4 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)
Ambient luminance	≤ 300 Lux
Noise Level	≤ 42 dB(A) (Operating) ≤ 33 dB(A) (Standby)

F-G.4 Conditions ambiantes

Température de service	5 à 40 °C / 40 à 105 °F
Température de stockage	0 à 60 °C / 32 à 140 °F
Humidité relative	20 à 80 % (sans condensation)
Luminance ambiante	≤ 300 Lux
Niveau de bruit	≤ 42 dB(A) (en marche) ≤ 33 dB(A) (en veille)

For your notes