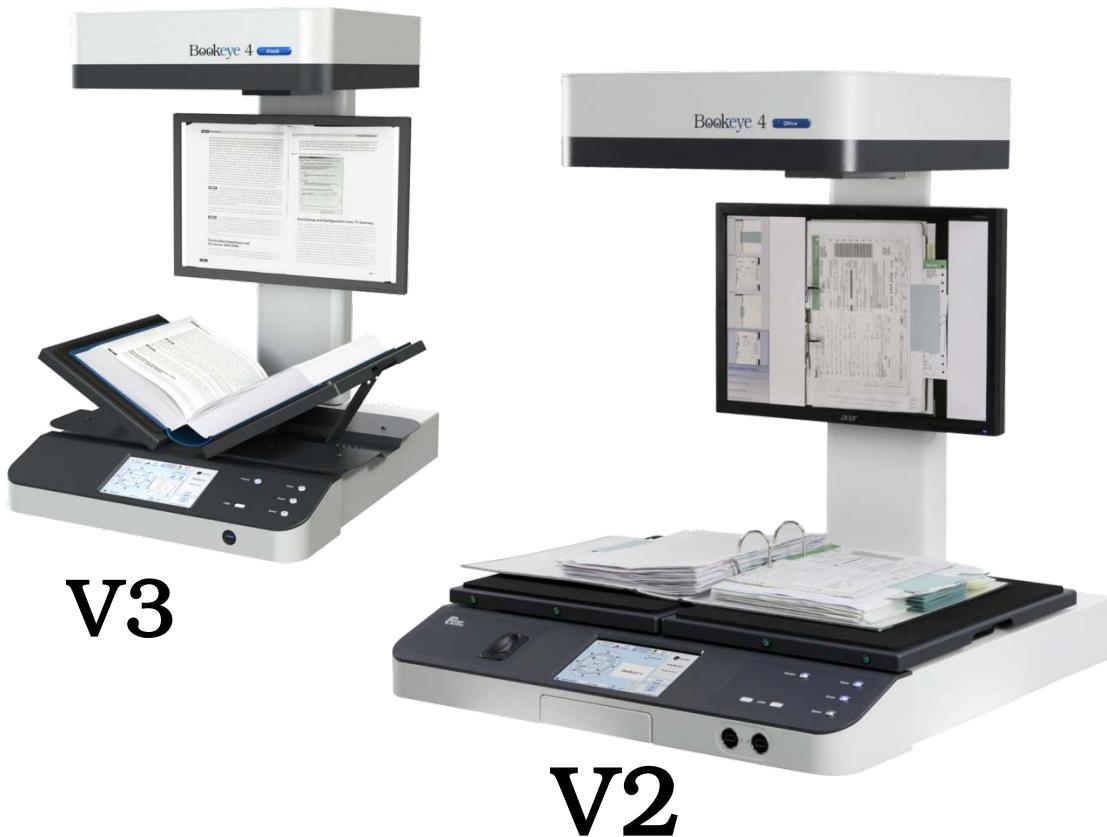




Bookeye® 4



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.

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

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.

In addition please consider the following points:

- Damages to your unit may have occurred during shipping. Please check for damages immediately after delivery of the unit. Inform your supplier if damage has occurred.
- Read and ensure that you understand the safety notes. They were developed for your protection and safety as well as to protect the unit.
- Regular maintenance conserves the high quality and safety of the 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 called “Power user”. This “Power user” 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 the sections A to E.

- Section A** contains the safety notes and the safety precautions. These safety precautions must be followed carefully to avoid injury to the user while working with the scanner.
- Section B** describes the scanner hardware and the first steps to take after the device has been delivered.
- Section C** describes the setup and adjustments which can be done with the touchscreen. It includes information about the firmware update procedure.
- 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** shows all technical data and necessary declarations.

Version History

Version	Published in	Content/Changes/Supplements
A	January 2011	First version as separate setup manual.
....
D	November 2012	Rework of chapter C. New menu item „Test Suite“ introduced, new settings available in menu item “User Settings”. Rework of chapter D.
D1	January 2013	Chapter D.4.6 added. The watermark settings can now be defined from the Poweruser level. Chapter D.6.6 added. The Scan2Net interface can now be unlocked from the Poweruser level.
E	June 2013	Model BE4-V2B introduced. New device housing design. New firmware version. The user interface has been redesigned, some additional menu items in the setup menus. Chapter D.5.4 renamed and former chapter D.5.4 and all following subchapters renumbered a level lower. New: Chapter D.6.2 Status Notification. Former chapter D.6.2 and following chapters renumbered. Chapter D.7.4 Reset Surface. Former chapter D.7.4 renumbered. Chapter D.7.6 Set Default Password inserted.
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	Some modifications have been established in the network configuration menus. New: Description of firewall settings in chapter D.4.2.6. Former chapter D.4.2.6 and all followings chapters have been renumbered.
H	July 2014	The manual bases on version G of the Bookeye® 4 setup manual. 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. Chapter D.7 with new content, former chapter D.7 and all following chapters renumbered.

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A Safety Notes

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.



WARNING!

<Text with description of potential hazard.>

A.1.2 Laser Safety Note



CAUTION!

Laser Class 1

Certified acc. IEC 60825-1:2008-05

Do not stare into beam!

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 !

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 for testing purposes.

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-1 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.



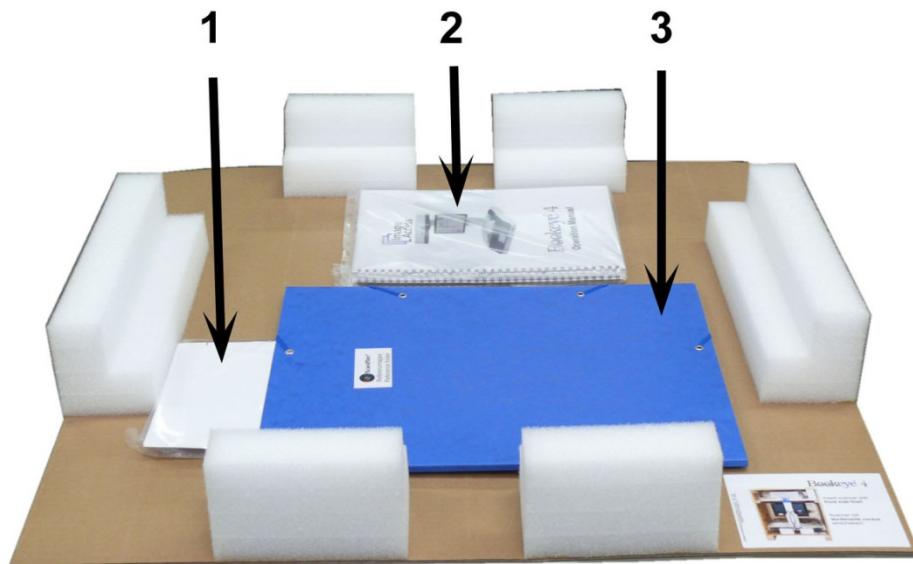
Picture 4: Scanner outside the transport box

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

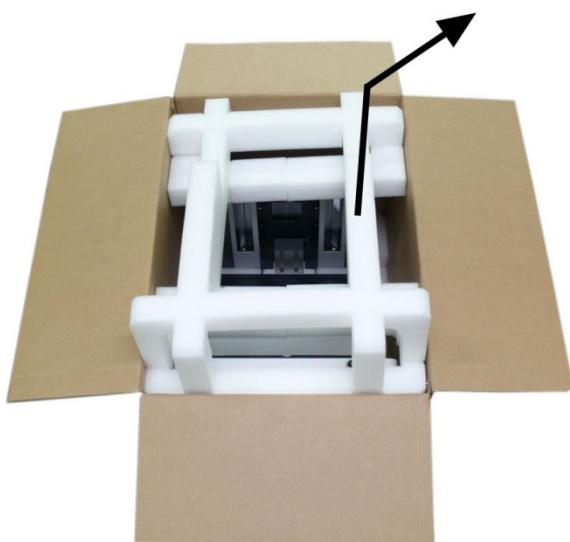
B.1.4 Unpacking the Transport Box

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.



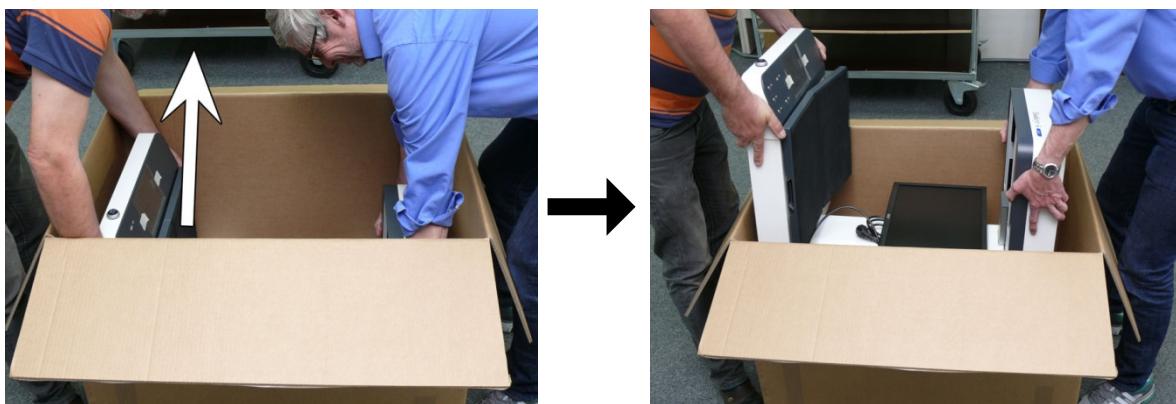
Picture 9: How to remove the plastic foam element

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

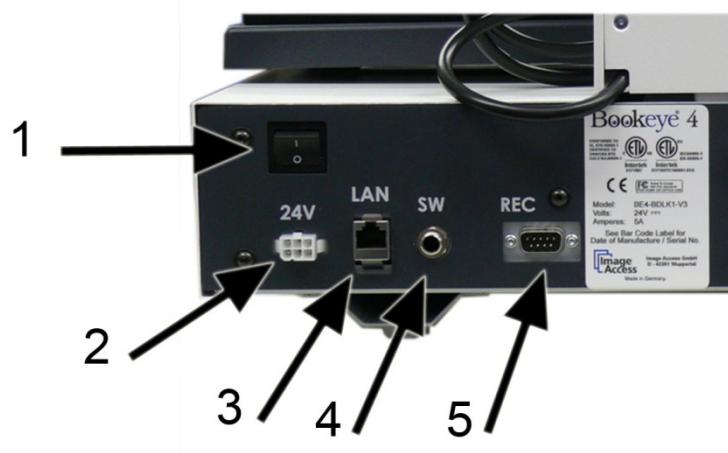
Some of the major components of the Bookeye® 4 scanner have been identified in the picture above. The main hardware elements are:

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-position is 120 degree.
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.

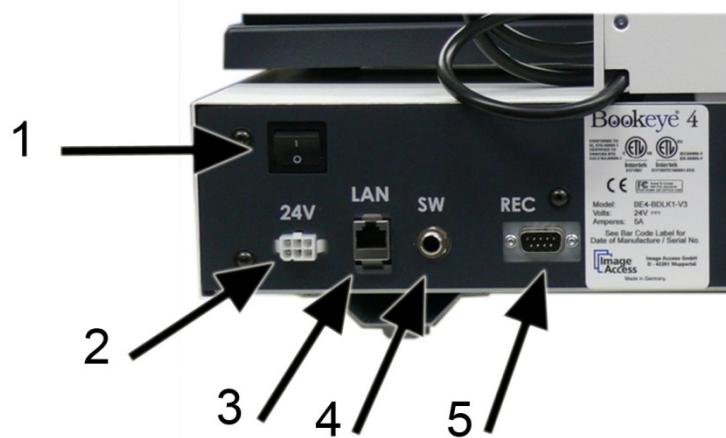


Photo 2: Connecteurs sur le côté arrière

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 on/off button lights up.

Red illumination of the on/off button 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 the illuminated “Power” button at the front panel 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

While using the Bookeye® 4 under normal working conditions,
only use the on/off button to switch to standby mode!

IMPORTANT: The main power switch at the back 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.

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

The Bookeye® 4 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.

To enter the setup menu, tap the touchscreen at the date and time section ten times successively.



Picture 16: Touchscreen, Kiosk application

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

The menu bar shows four 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.



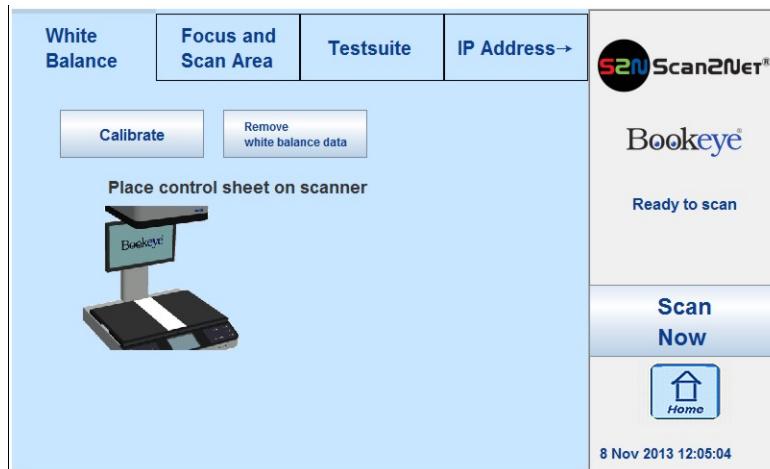
Picture 17: Setup menu items

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.1 White Balance



Picture 18: 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.

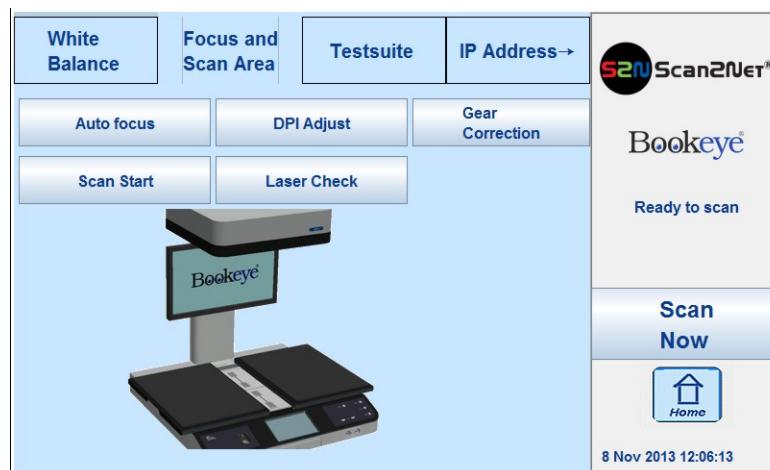
The calibration sequence will be executed. It takes approximately 40 seconds.

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.2 Focus and Scan Area



Picture 19: 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.2.1 Auto focus Scan Start DPI Adjust Gear Correction



Picture 20: 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.2.2 Laser Check



Picture 21: Reference target position

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

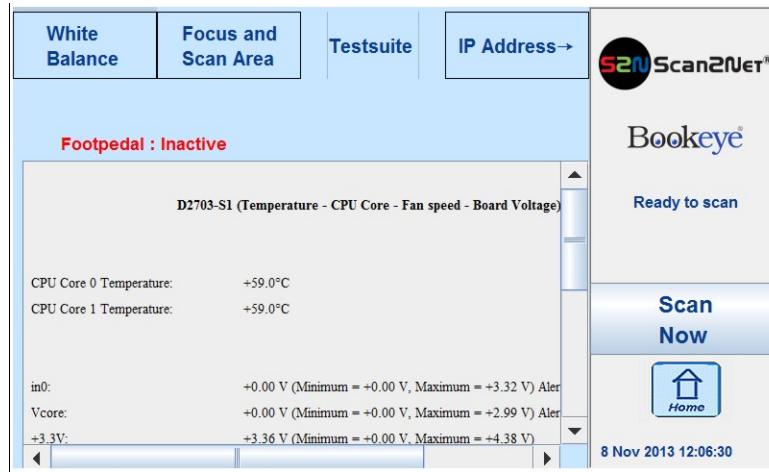
The markers in the middle of the long side of the reference target should be covered by the vertical laser line. To identify the marker on one side it is marked with **Laser Check**.

Touching the **Next Step** button starts the measurement. The laser will be switched off and on during the measurement. During the measurement, a small clock icon is displayed on the touchscreen.

The results of the measurement are displayed on the touchscreen.

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

C.3 Test Suite



Picture 22: Testsuite

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

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

Temperature of CPU core 0 and CPU core 1.

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.

C.4 IP Address



Picture 23: 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.9.1 describes how to save the parameters.

C.4.1 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.4.

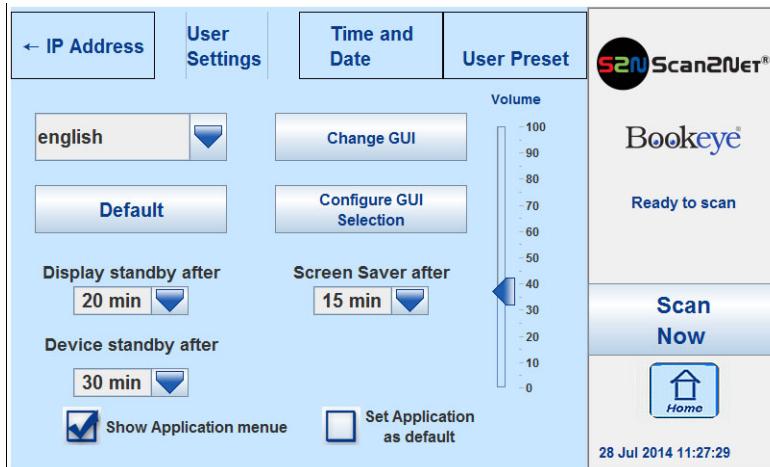
C.4.2 Serial Number and Firmware Version

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-BDLO2-V2-001999d42eb6 **Firmware version: 6.12E**

C.5 User Settings



Picture 24: 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

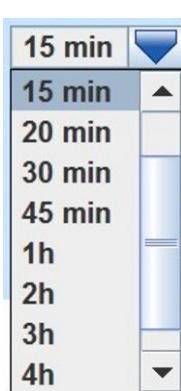
Returns all scanner settings to default values.

Change GUI

Opens a menu window, which shows the predefined settings (presets) and allows selecting one of these. Chapter C.5.1 provides more details.

Configure GUI Selection

Opens a menu window that shows all available predefined settings, with a checkbox before the name. Chapter C.5.2 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.
---------------	---

Show Application menu	To show the application menu when starting the scanner, click at the checkbox. A little checkmark in the checkbox indicates when the function is activated.
------------------------------	--

Set Application as default	To activate automatically the application when starting the scanner, click at the checkbox. A little checkmark in the checkbox indicates when the function is activated.
-----------------------------------	---

C.5.1 Change GUI



Picture 25: Selectable presets

The **Change GUI** menu shows all predefined settings (presets). By default, the presets **Easy** and **Expert** are defined.

Selecting **App Selection** switches the touchscreen to the system start screen, followed by a selection screen with the presets.

After selecting one of the presets, the scanner starts in **Job Mode** with the selected preset.

To return to the previous screen without selecting any preset, touch the **Back** button.

C.5.2 Configure GUI Selection



Picture 26: Presets selection screen

All presets are displayed. The checkbox in front of each entry defines whether the respective preset is displayed in the **Change GUI** screen.

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

C.6 Time and Date



Picture 27: 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.

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

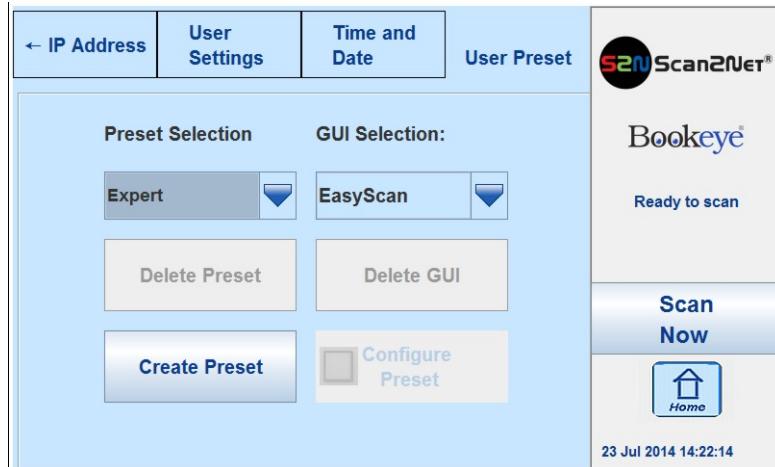
Reset time and date: Sets the values to default values when pressed.

To select a time zone, click at the selection arrow. Select the desired time zone from the list.



Picture 28: Time zone list

C.7 User Preset



Picture 29: User preset screen

The screen here allows selecting from the available presets in the left column and from the available GUIs (Graphic User Interface) in the right column.

Preset Selection

By default, two presets are defined.

Easy Contains only the basic elements of the kiosk application. This preset only allows modifying a few parameters.

Expert Contains all elements of the kiosk application and allows control over all scanner parameters.

GUI Selection

By default, two GUIs are defined:

EasyScan Shows in the start screen the EasyScan start button.

App Selection Shows the GUI (Graphic User Interface) on the start screen which is selected in the screen **Configure GUI Selection** (chapter C.5.2).

Delete Preset / Delete GUI Allows deleting presets / GUIs except the ones which are installed by default. First select the preset / GUI, then touch the button.

C.7.1 Creating preset

User defined presets can be created in a few steps.

At first enter a name for the new preset.

- Create Preset** Opens a screen with a keyboard. Enter the name for the new preset.
- Key **↑**: Shifts the keyboard between upper case/ lower case letters.
 - Key **←**: Deletes the character left from the cursor.
 - Key **123** and/or **abc**: Shifts the keyboard between numeric and letter layout. All special characters remain at the same position.
 - Keys **←** or **→**: Position the cursor while typing in the input field.
 - Touch **Apply** to save the new preset.
 - Touch **Cancel** to return to the former screen.

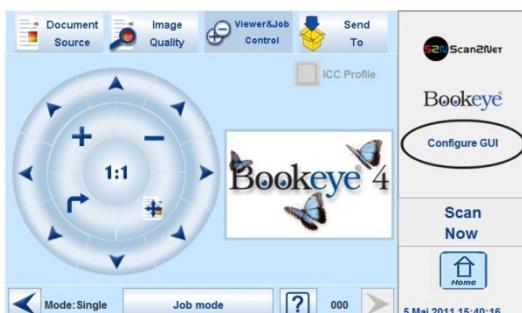
After touching the **Apply** button the display returns after a few seconds to the former screen.

The name of the new preset is displayed in the **Preset Selection** list.

To configure the content of the preset select its name from the list.

The button **Configure Preset** will be activated.

- Configure Preset** Touch this button to define the elements that should be displayed with the preset in the kiosk application.



The touchscreen changes from the setup menu to the kiosk application.

The status section on the right side of the kiosk application shows the message: **Configure GUI**

C.7.1.1 Activating a function in the menus

Select a menu from the menu list on top of the touchscreen.

Touch one of the displayed buttons or controller near the respective title and hold for at least three seconds.

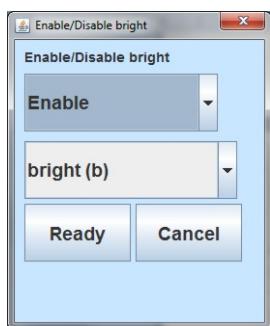
A small additional window opens, showing in three lines

- the title of the selected button or controller,
- the action called by the button,
- the buttons **Ready** and **Cancel** in the last line.

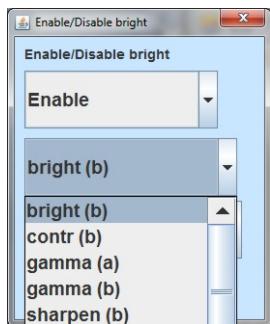
The first line always shows **Disable <name of the selected function>**.



Touch the selection arrow in the first line to change to **Enable**. This will show the available functions in the second line.



Touch the selection arrow in the second line to show the available list of functions.



Selecting functions with the extension **(a)** will select automatically between button, controller or list when the function is displayed at the touchscreen.

Functions with the extension **(b)** will always display a button at the touchscreen.

Touch **Ready** to save the selected function.

Touch **Cancel** to abort.

C.7.1.2 Saving the functions of the preset

After selecting the desired buttons and controllers, touch the date and time section ten times to return to the setup menu.

The touchscreen will change directly to the **User preset** screen (Picture 29).

All settings of the user preset will be saved automatically when returning to the setup menu.

Remove the checkmark from **Configure Preset**.

C.7.1.3 Deleting a preset

Select the preset to be deleted from the list.

Touch the **Delete Preset** button. The preset will be deleted.

Preset selection Select here the preset that should be used when selecting the kiosk application in the start screen of the touchscreen.

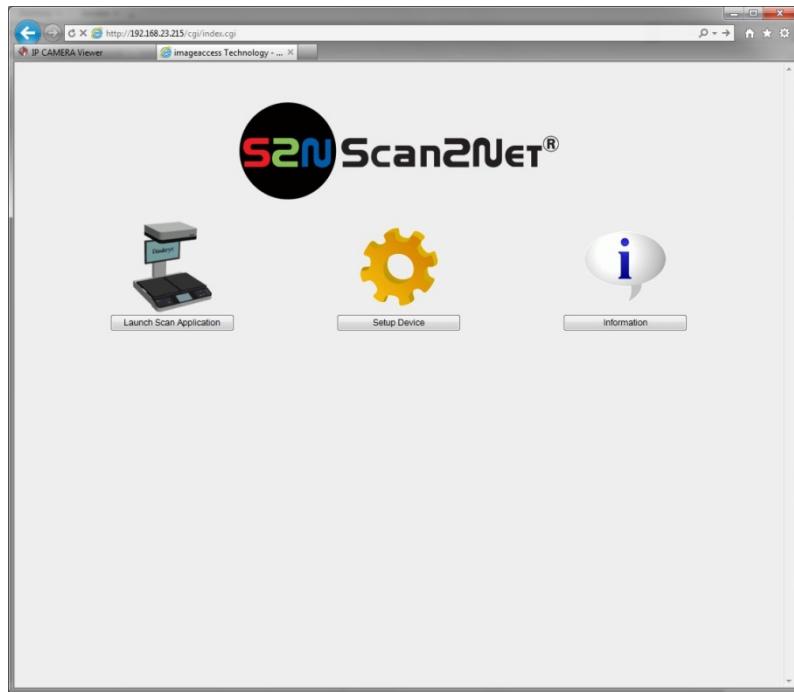
Application An application allows defining an individual user interface for the touchscreen. The application contains graphical and functional elements.

The application will be generated by the administrator.

Preset A preset contains the elements used in the kiosk application to control the scanner.

D The Poweruser Level

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



Picture 30: 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.

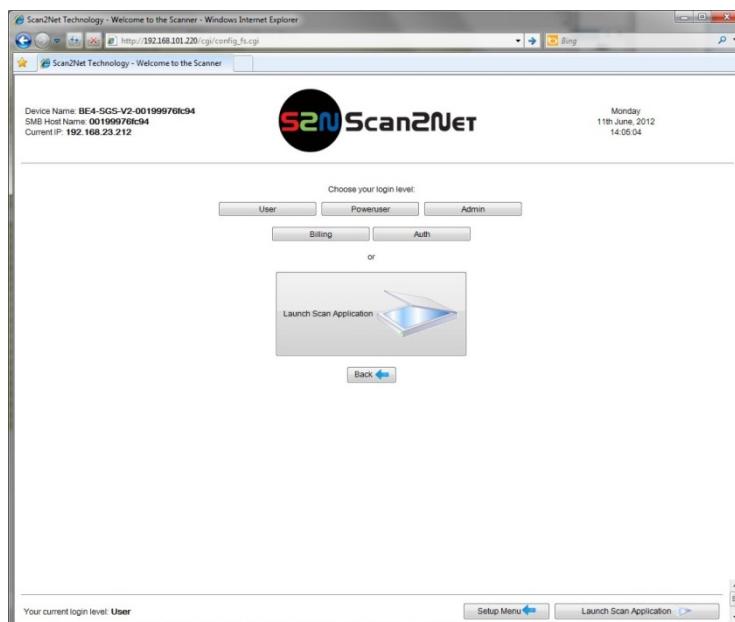
Select **Setup Device** to open the Setup menu.

D.1 Setup Menu

The login level screen shows the buttons of the login level. 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.

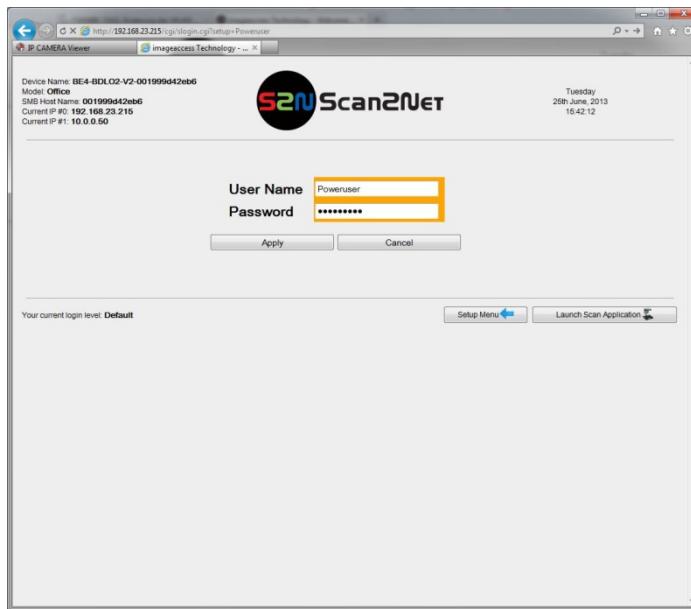


Picture 31: Login level screen

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 32: Poweruser log-in menu

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

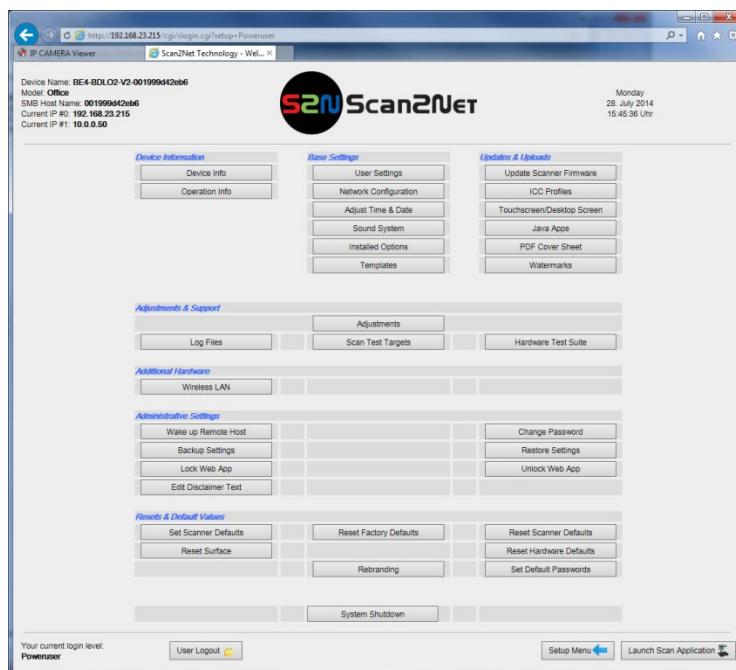
Consider the case sensitivity of user name and password.

Click the button **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 six sections.



Picture 33: Main menu Poweruser level

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. Parameters often used are found in the upper sections. Parameters with lower priority are present in the middle sections.

The Set-and Reset-Functions can be found in the bottom sections.

D.2.1.1 Navigating through the menus

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

Setup Menu

Returns to the login screen.

Launch Scan Application

Switches to the main screen of the integrated Scan2Net 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 start menu (Picture 33).

The log file section ([Adjustments & Support](#) → Log Files) contains two more buttons:

Download

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

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. if a firmware update is executed.

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.

New with software 6.x or higher

 User Logout

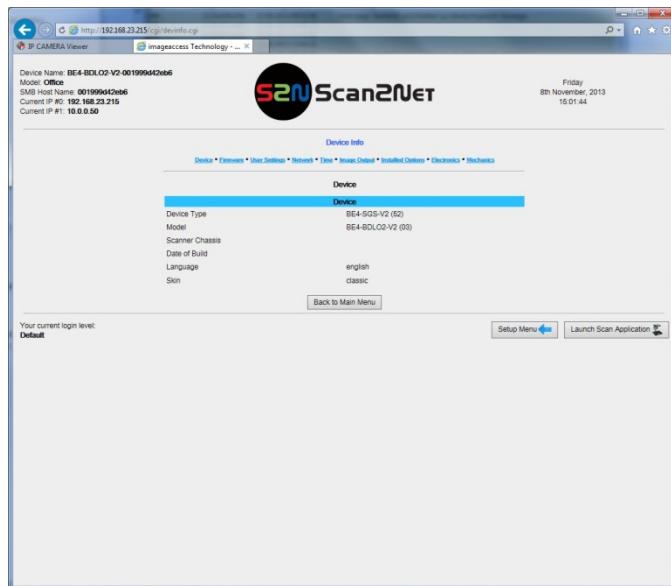
Always click at this button when leaving the setup menu to avoid unauthorized use of the setup features.

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 links.



Picture 34: Device Info

D.3.2 Operation Info

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



Picture 35: Operation Info

D.4 Base Settings

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

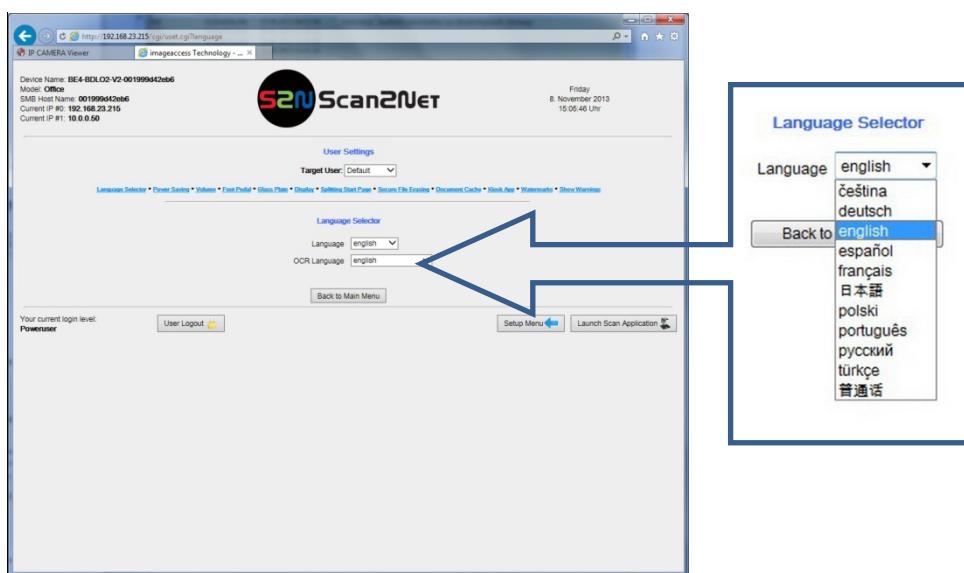
D.4.1 User Settings

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 Language Selection

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



Picture 36: 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.

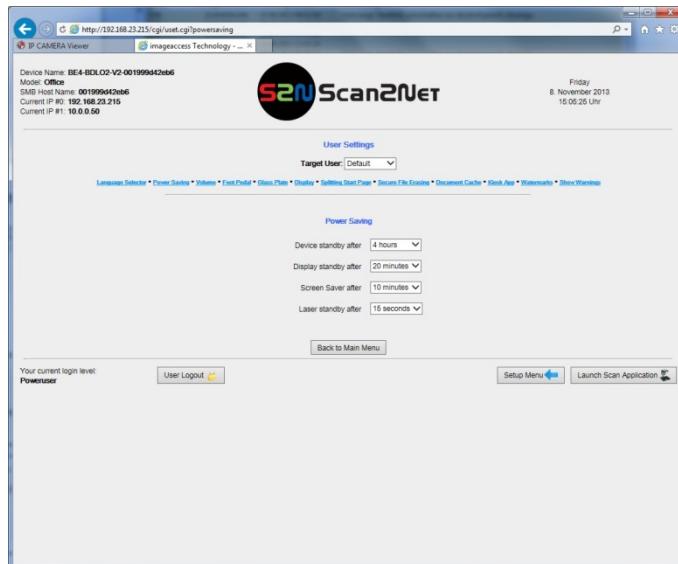
To return to the previous screen click the button **Back to Main Menu**.

D.4.1.2 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. Four settings can be defined.

Click on the link **Power Saving**.



Picture 37: Power Saving

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

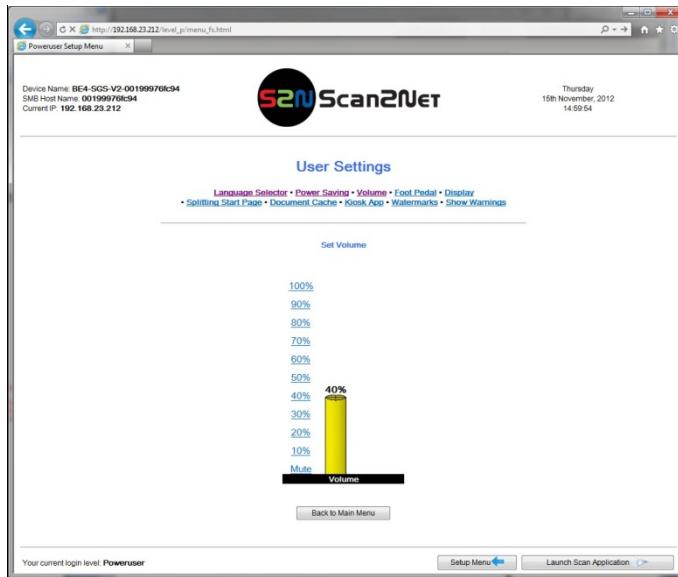
Standby mode	Available values
Device standby	<div style="border: 1px solid black; padding: 5px;"> Device standby after: Never Device standby after: 5 minutes Device standby after: 10 minutes Device standby after: 15 minutes Device standby after: 20 minutes Device standby after: 30 minutes Device standby after: 45 minutes Device standby after: 1 hour Device standby after: 2 hours Device standby after: 3 hours Device standby after: 4 hours Device standby after: Never </div>
Display standby	<div style="border: 1px solid black; padding: 5px;"> Display standby after: Never Display standby after: 5 minutes Display standby after: 10 minutes Display standby after: 15 minutes Display standby after: 20 minutes Display standby after: 30 minutes Display standby after: 45 minutes Display standby after: 1 hour Display standby after: 2 hours Display standby after: 3 hours Display standby after: 4 hours Display standby after: Never </div>
Screen Saver	<div style="border: 1px solid black; padding: 5px;"> Screen Saver after: Never Screen Saver after: 5 minutes Screen Saver after: 10 minutes Screen Saver after: 15 minutes Screen Saver after: 20 minutes Screen Saver after: 30 minutes Screen Saver after: 45 minutes Screen Saver after: 1 hour Screen Saver after: 2 hours Screen Saver after: 3 hours Screen Saver after: 4 hours Screen Saver after: Never </div>
Laser standby	<div style="border: 1px solid black; padding: 5px;"> Laser standby after: 30 Seconds Laser standby after: 15 Seconds Laser standby after: 30 Seconds Laser standby after: 45 Seconds Laser standby after: 60 Seconds Laser standby after: 75 Seconds Laser standby after: 90 Seconds Laser standby after: Back to Main M </div>

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

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

D.4.1.3 Volume

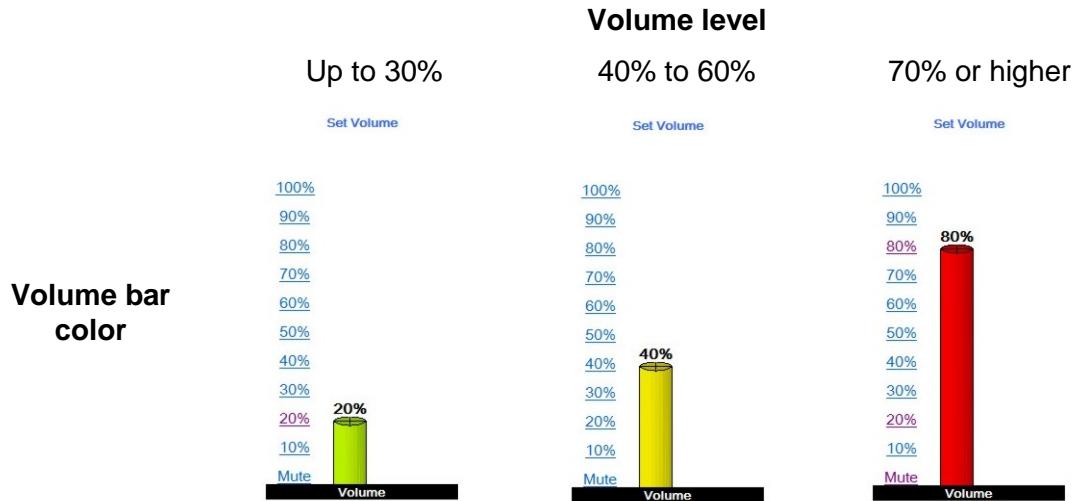
Use the function **Volume** to set the volume level of the loudspeakers volume in the scanner.



Picture 38: Volume level

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

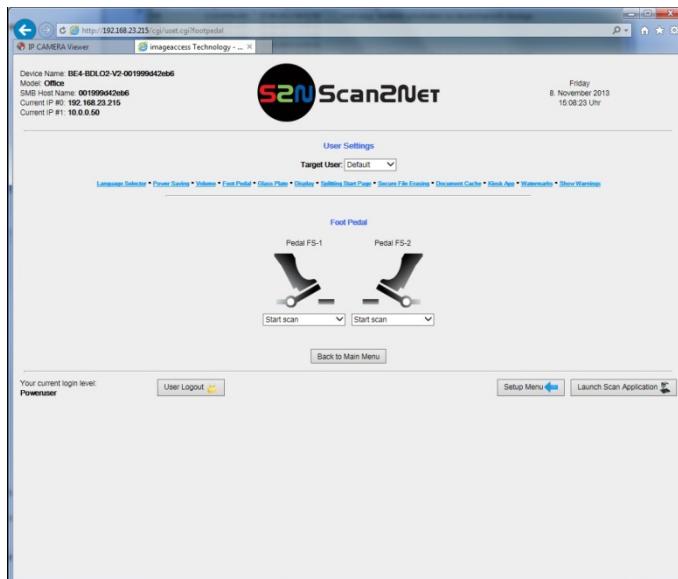
Click on the percentage value to change the volume level. The color of the graphic will change depending on the selected volume level.



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

D.4.1.4 Foot Pedal

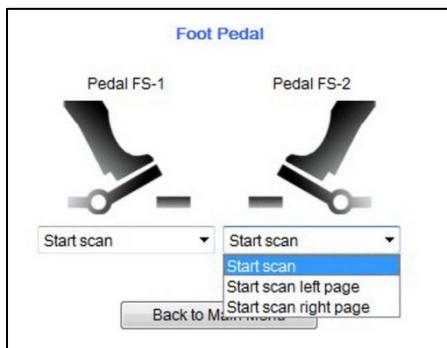
Use the function **Foot Pedal** to define an action for the foot pedals.



Picture 39: Foot pedal settings

The scanner has a connector on its back to connect a foot pedal. The symbol for the second foot pedal will be used in a later 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.

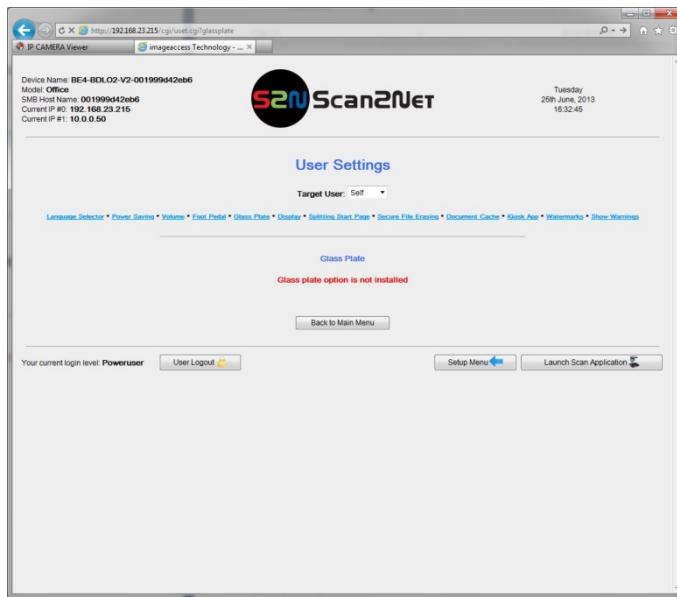


Picture 40: Functions for the foot pedal

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.4.1.5 Glass Plate

New with software 6.x or higher.



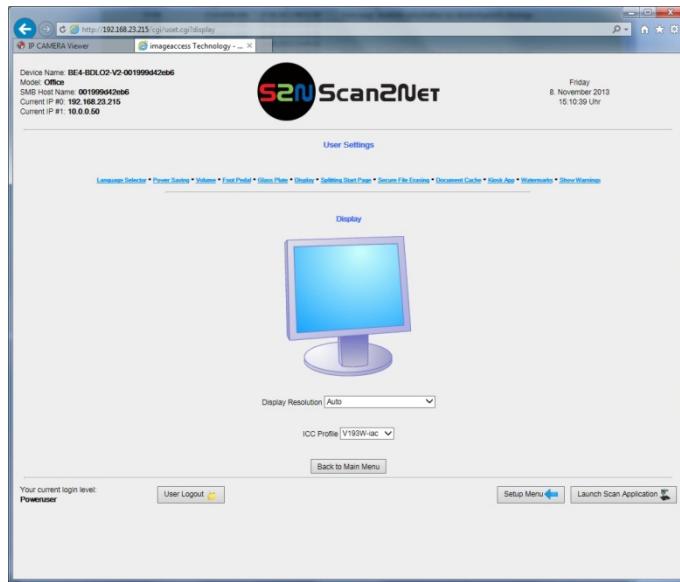
Picture 41: Shows glass plate parameters if installed

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.

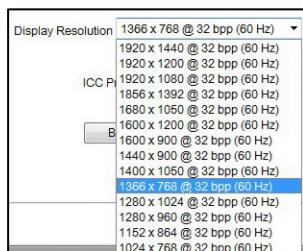
D.4.1.6 Display

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



Picture 42: Display parameters

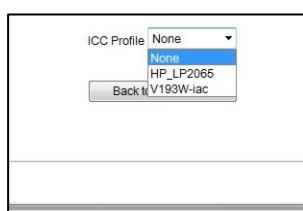
The Bookeye[®] 4 scanner comes with an external monitor with a resolution of 1366 x 768 pixels by default.



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**.

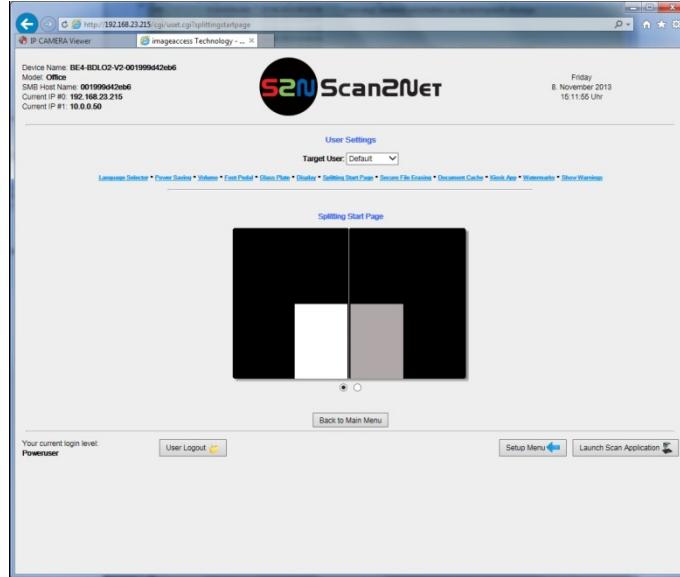
The ICC profiles available will be displayed. Select the desired profile.

Restart the scanner to activate the setting.

D.4.1.7 Splitting Start Page

Use the function **Splitting Start Page** to define the page which is displayed first, when **Splitting Image** is set to **Auto** in the Scan2Net user interface.

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



Picture 43: Splitting start page

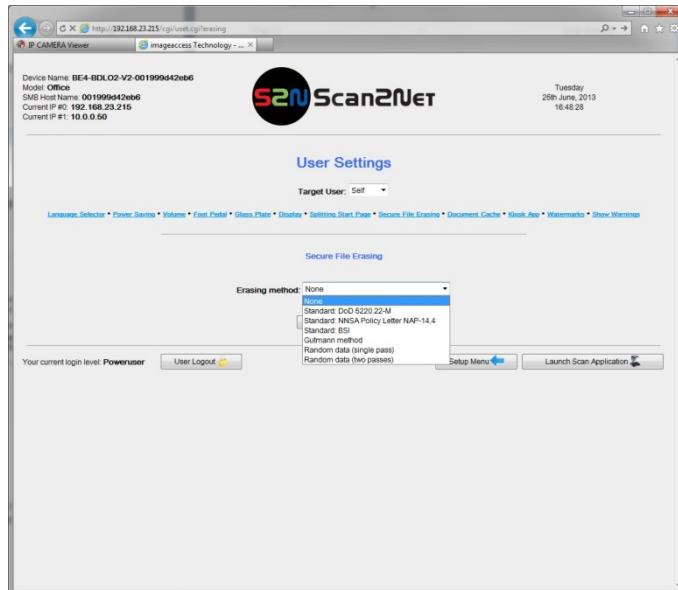
The selected start page is highlighted.

Click on the radio button to change the selected page.

D.4.1.8 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.



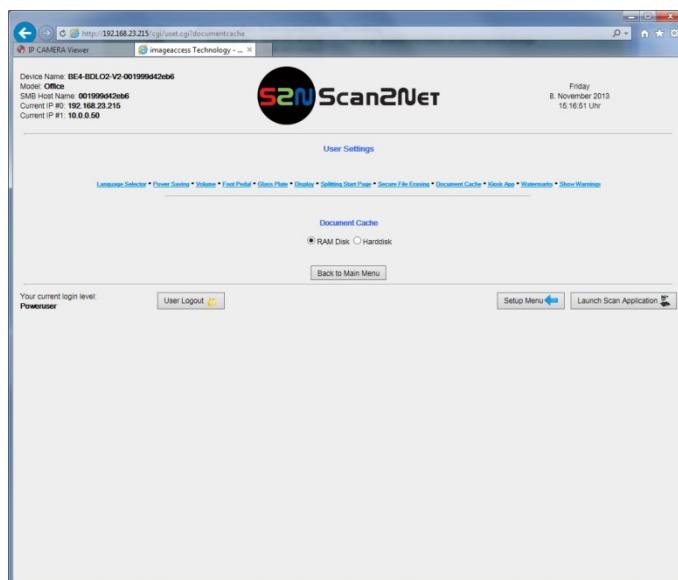
Picture 44: List of available erasing methods

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

Select the desired method by clicking on the methods name.

D.4.1.9 Document Cache

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

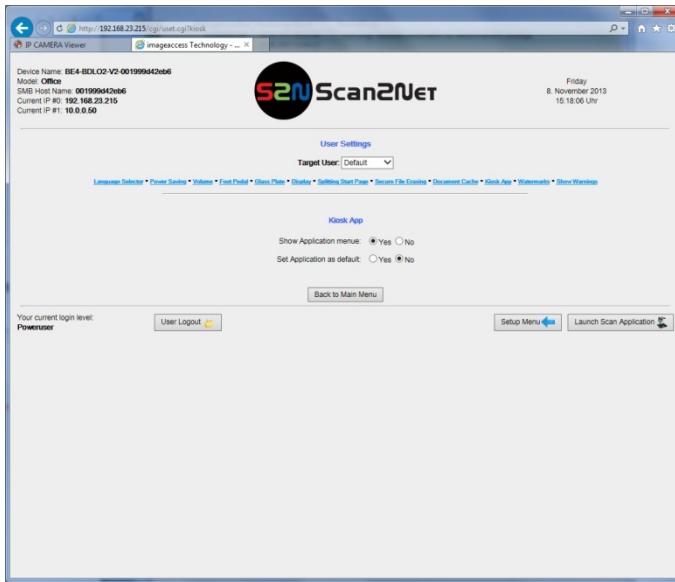


Picture 45: Document cache selector

Click on the radio button to select the desired storage media.

D.4.1.10 Kiosk App

Use the function **Kiosk App** to define how the scanner behaves when starting.



Picture 46: Kiosk App selection

Show Application menu:

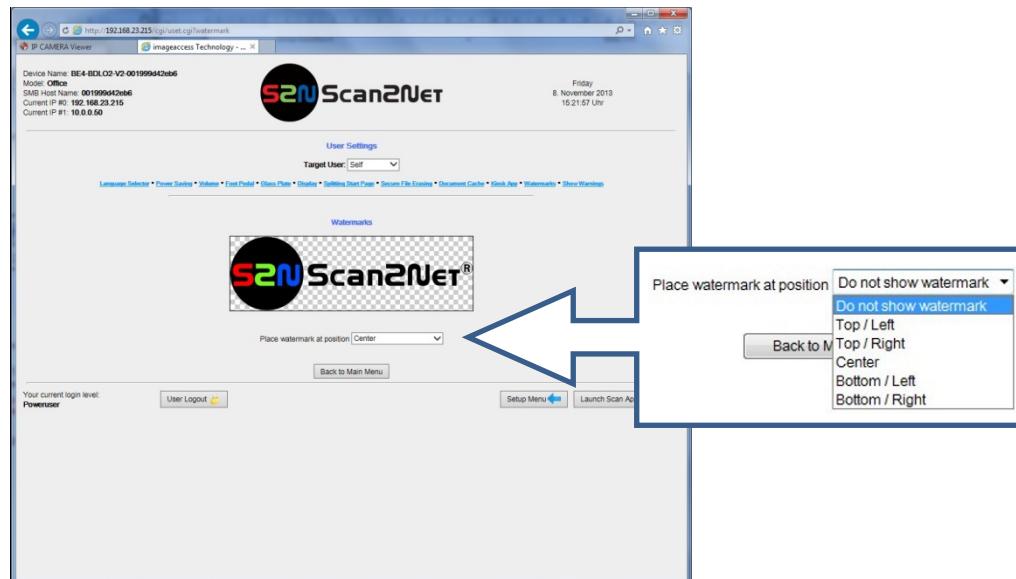
- Yes** With factory settings, the scanner's touchscreen shows at the end of the start sequence the buttons for the applications **EasyScan** and **Scan2Net**.
 By touching the respective button, the scanner starts with the selected application.
- No** At the end of the start sequence the touchscreen does not show the selection screen.

Set Application as default:

- Yes** The Bookeye® 4 scanner starts with the application selected in **Updates & Uploads** → Java Apps.
 See chapter D.5.4.
- No** At the end of the start sequence the touchscreen shows the Scan2Net application.

D.4.1.11 Watermarks

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



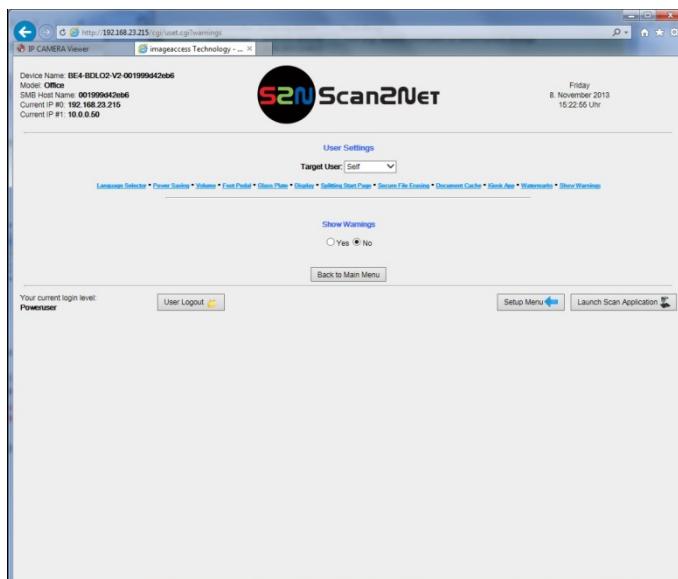
Picture 47: Set Watermark position

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

The watermark text itself can be defined by clicking on the button **Watermarks** in section **Updates & Uploads** (chapter D.5.6).

D.4.1.12 Show Warnings

Use the function **Show Warnings** to set warning messages on or off in the Scan2Net user interface.



Picture 48: Show Warnings selector

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 at the WLAN module, which is installed into the scanner, the menu content can vary.

Important, when configuring network settings:

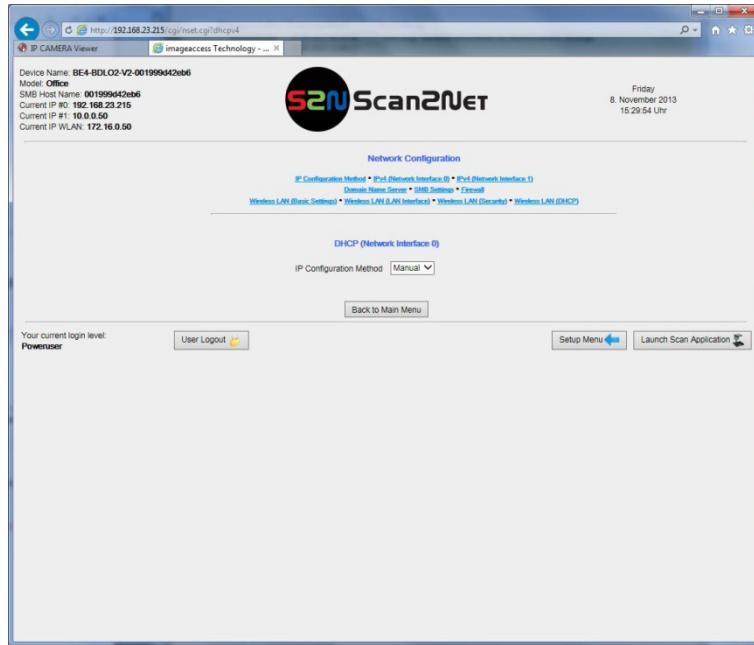
After changing the IP address settings and transferring the new settings enter the new IP address of the scanner in your browser and reopen the **Poweruser** main menu as previously described.

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 49: 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 restored 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.

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 50: 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.

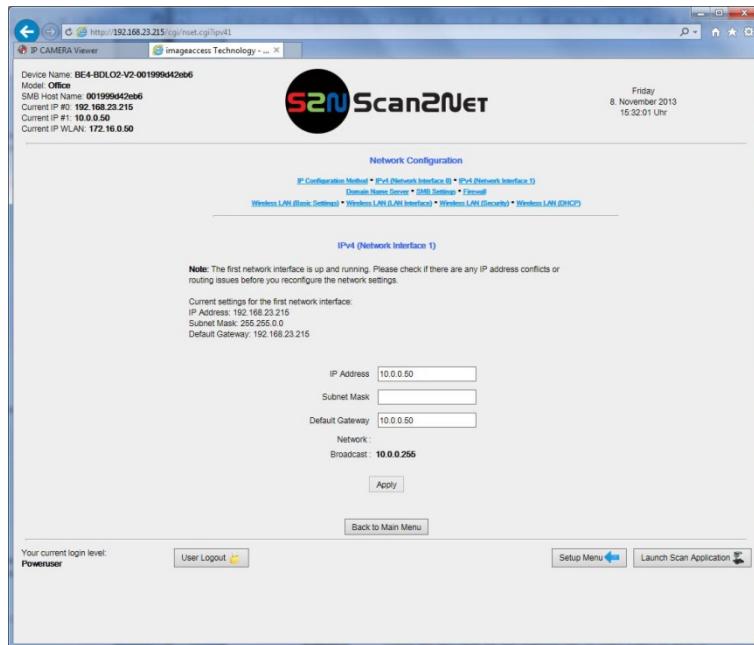
After modifying the network parameters, click on the **Apply** button to transfer the new settings to the scanner. The scanner is now accessible with its new IP address.

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 used for communication with internal network devices, e.g. the WLAN module (Office version) or a fingerprint reader (Kiosk version).



Picture 51: 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 the **Apply** button 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.4).

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

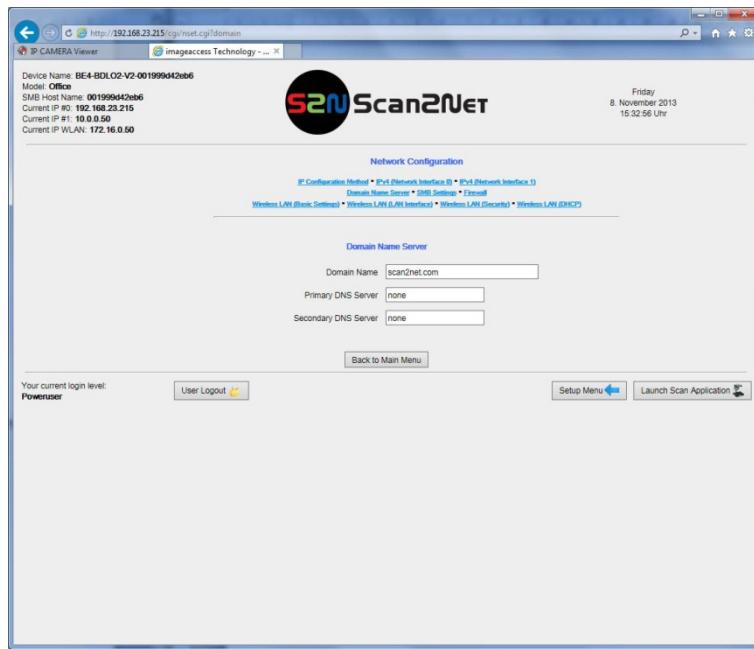
Click the **Apply** button. The connection between WLAN module and scanner is now accessible.

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 52: Domain Name Server parameters

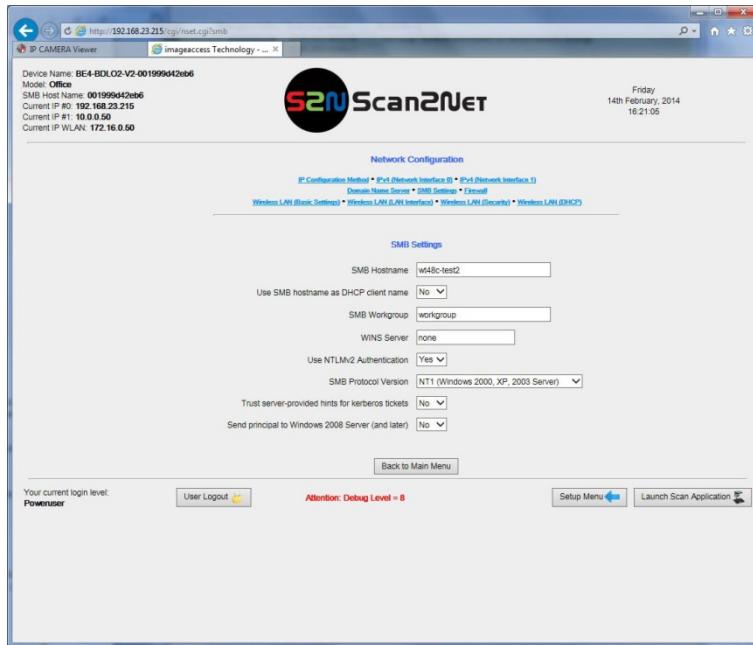
Domain Name Enter the domain name here.

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**.



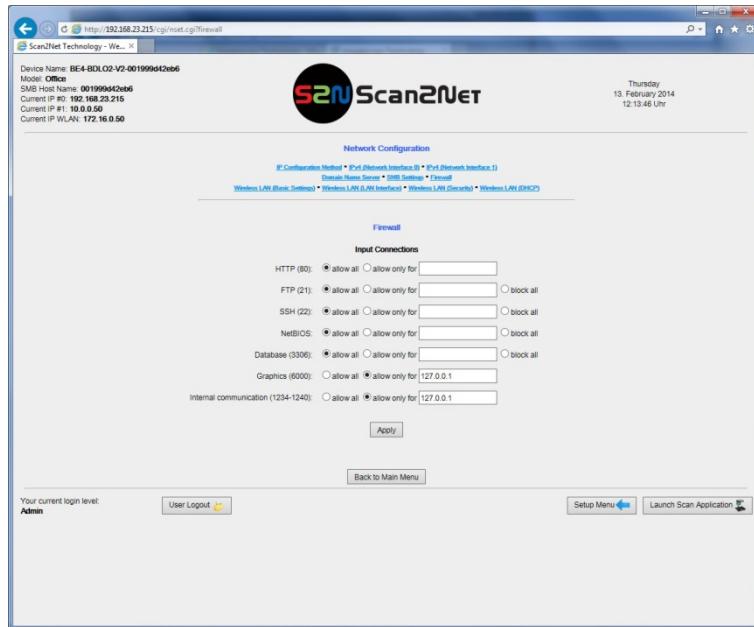
Picture 53: SMB Settings

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	No: Recommended Yes: Can be used with older Windows server systems
Send principal to Windows 2008 Server (and later)	No: Recommended, higher security. Yes: Low security, but higher compatibility.

D.4.2.6 Firewall

This section allows setting the firewall parameters.



Picture 54: Firewall settings

The standard ports for the protocols are displayed in brackets.

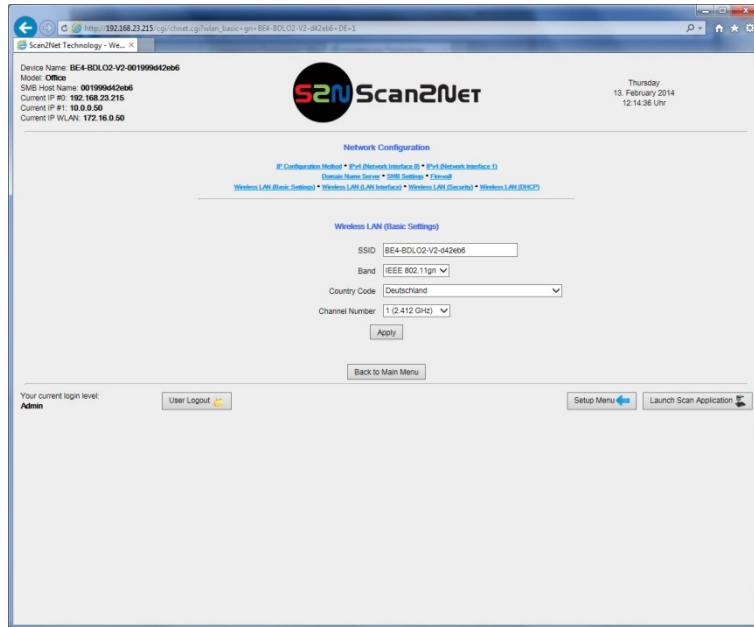
- | | |
|-----------------------|--|
| allow all | No restriction for the use of the protocol |
| allow only for | Enter the IP address or the address range in CIDR notation for the devices which are allowed to use the protocol.
CIDR notation means e.g. 192.168.0.x/24 or 172.16.x.x/16. |
| block all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

After modifying the values click at the **Apply** button 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 55: Wireless LAN Basic Settings

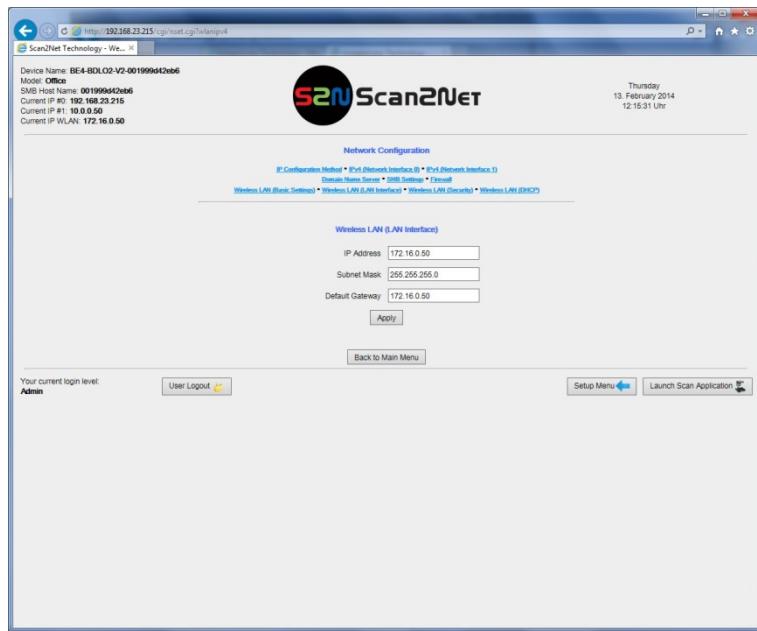
Note: The default settings are recommended.

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 at the Apply button 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 at the Apply button 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 56: 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.

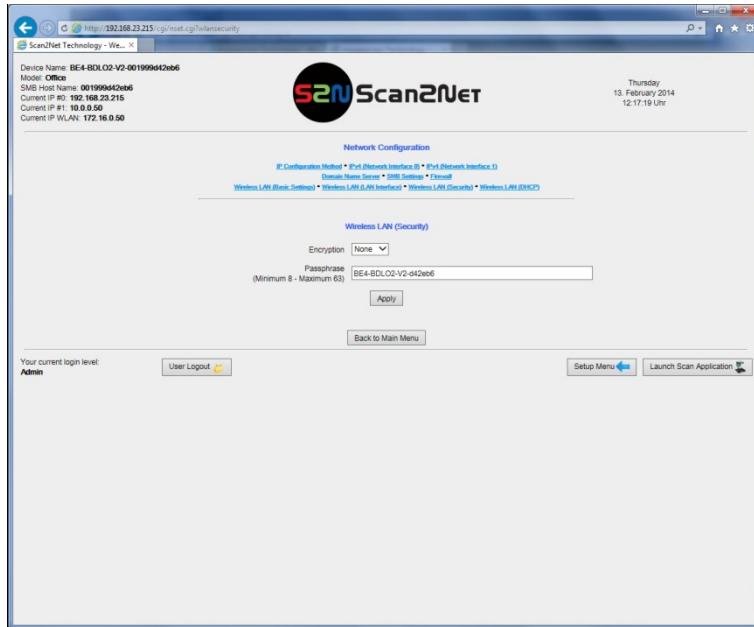
Default Gateway Enter the value for the gateway.

After modifying the network parameters, click on the **Apply** button 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 57: 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

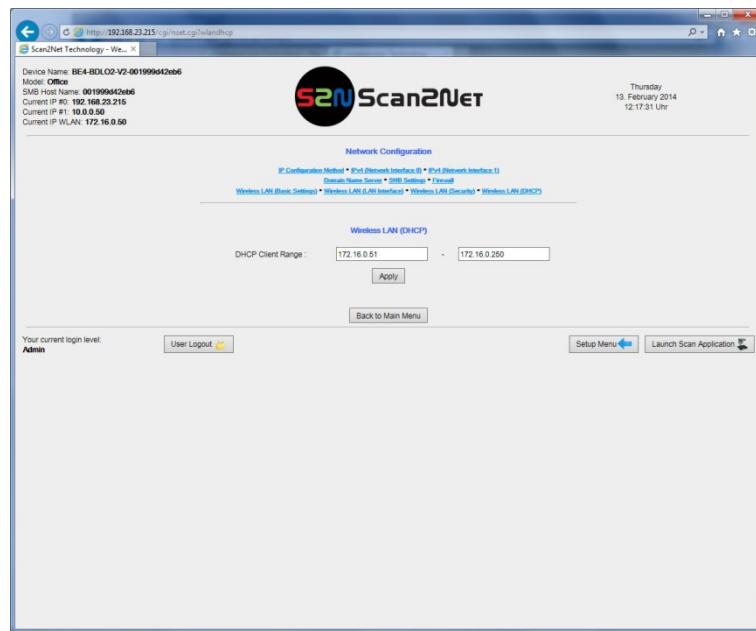
Enter a string as passphrase here.

After modifying the parameters, click on the **Apply** button 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 58: 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 **Adjust Time & Date** start screen is the **Manual Adjustment** screen. The following description starts with the **Time Format** screen.

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

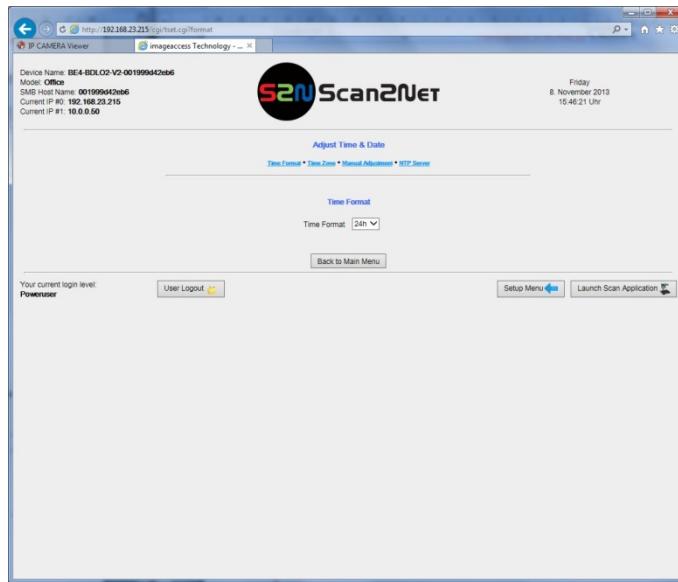
Select the time zone. See chapter D.4.3.2.

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.



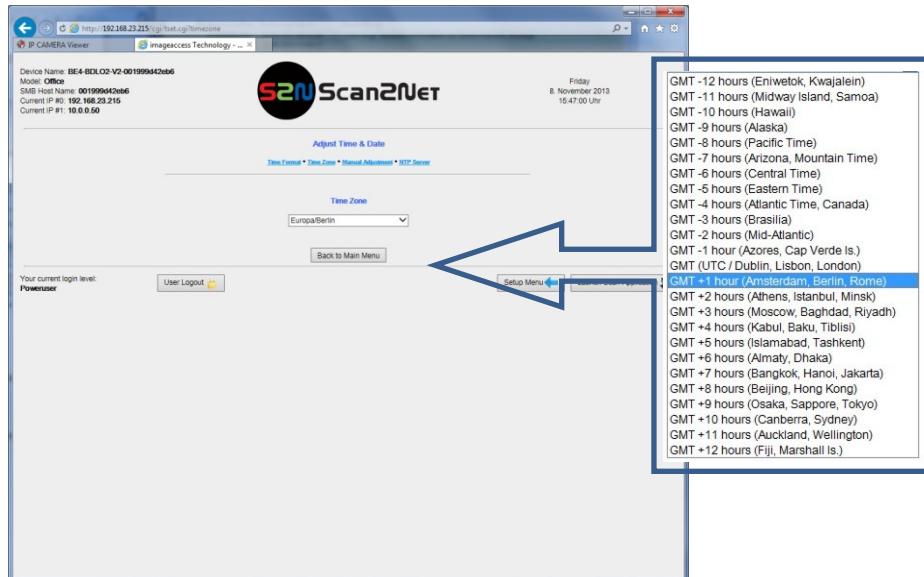
Picture 59: Time Format

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

	Time Format 12h	Time Format 24h
Display from 00:00 to 11:59	Wednesday 23th May, 2012 11:05:08 AM	Wednesday 23th May, 2012 11:05:21
Display from 12:00 to 23:59	Wednesday 23th May, 2012 01:43:10 PM	Wednesday 23th May, 2012 13:43:22

D.4.3.2 Time Zone

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



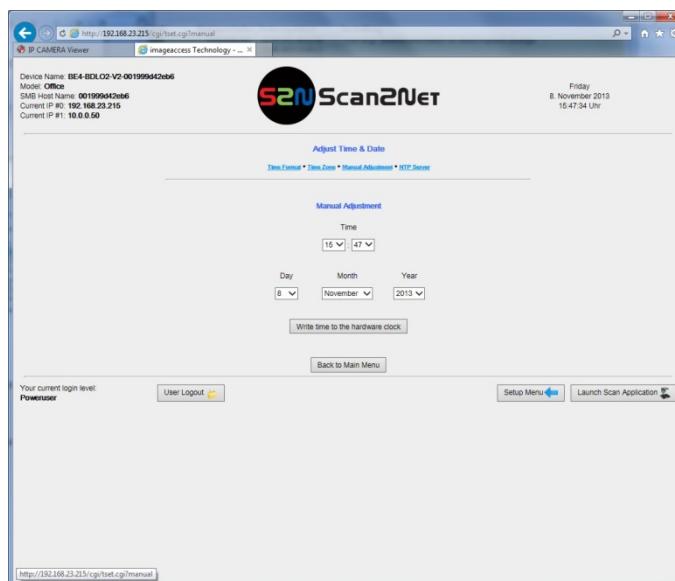
Picture 60: Time Zone screen

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 Scan2Net user interface.



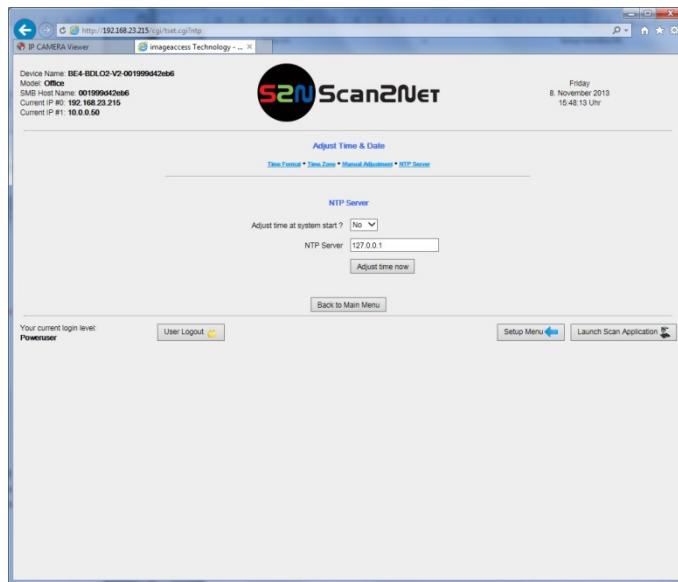
Picture 61: Manual Adjustment

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 62: NTP Server setting

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

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

Enter the address of the NTP server in the line **NTP server**. It is a necessary requirement that your local network enables the scanner to connect with the internet.

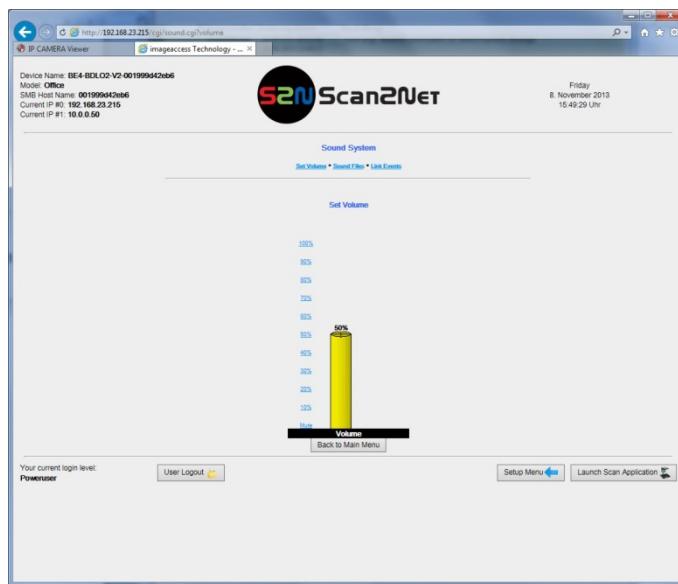
D.4.4 Sound System

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

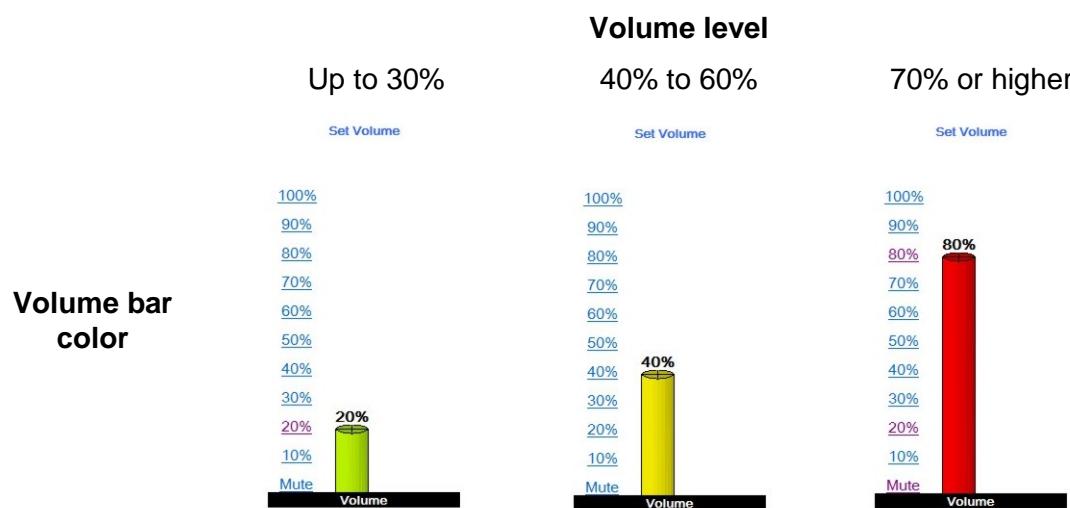
Use the function **Set Volume** to set the loudspeakers volume of the scanner.



Picture 63: Set Volume

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

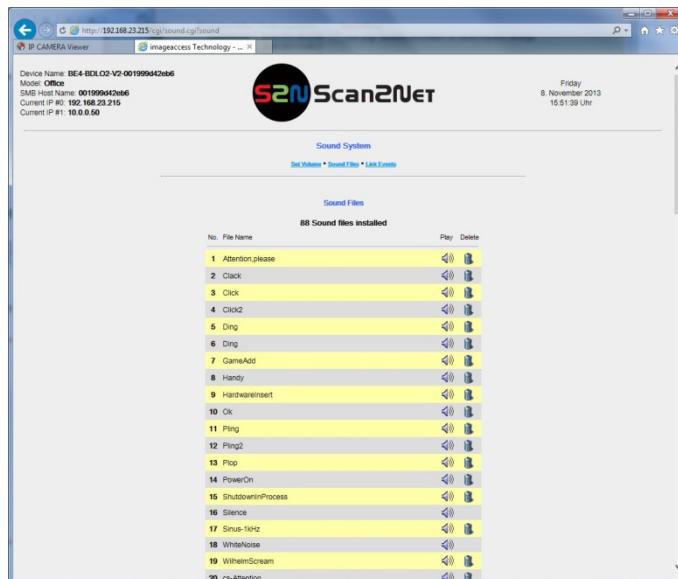
Click on the percentage value to change the volume level. The color of the graphic will change depending on the selected volume level.



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

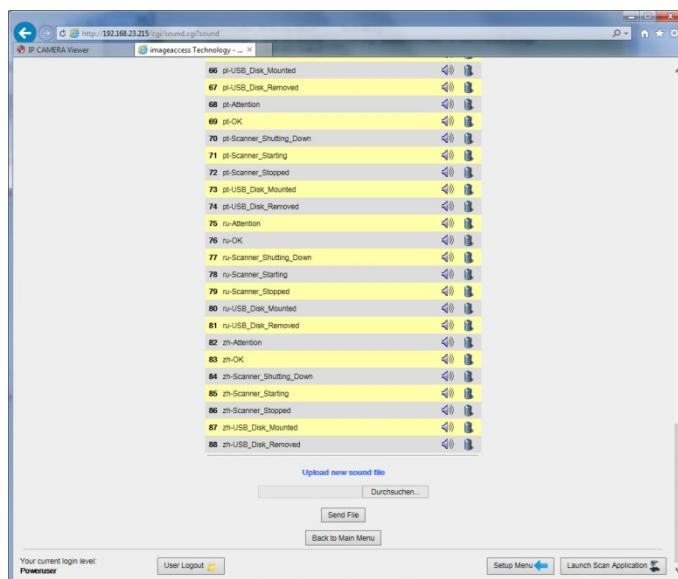
D.4.4.2 Sound Files

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



Picture 64: Sound Files list

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



Picture 65: Upload new sound files

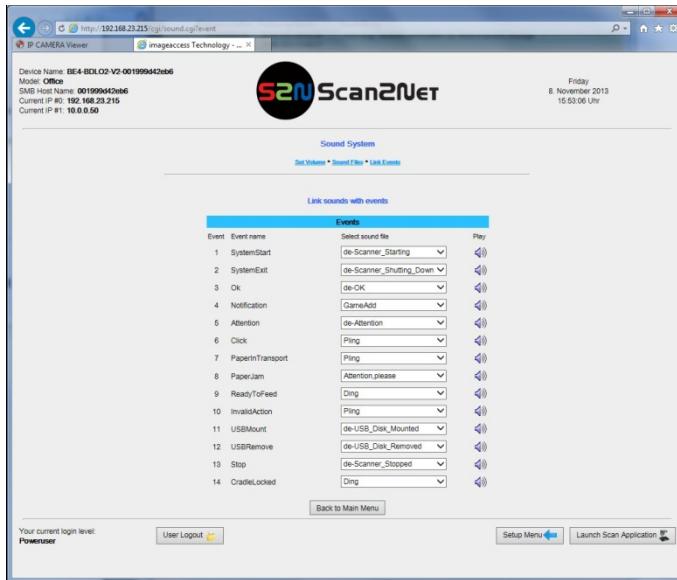
Click on the button **Search** to search the directories of your local PC and/or your network for sound files.

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

Click on the trash can 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 66: Link Events list

The sound file that is listed at each event is dependent on the language set for the scanner (see chapter D.4.1.1).

To identify the language of the sound file, an identifier can be 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.

Click on the selection arrow beside the sound file name. A list with all available sound files opens.

Select the desired sound file from the list.

Click on the loudspeaker symbol to play the sound.

D.4.5 Installed Options

This section shows all available options for the scanner.

After clicking on **Install Options** and/or **Installed Options** a screen opens and lists all options which are available for the scanner. Please be patient as it will take a moment to actualize the list.



Picture 67: Options List

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, its color turns to "Green", which indicates active options.

D.4.6 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	<input type="text" value="Color Printer FE"/>
Privacy	<input type="button" value="Public ▾"/>
Owner	<input type="button" value="Default ▾"/>

Picture 68: 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. |

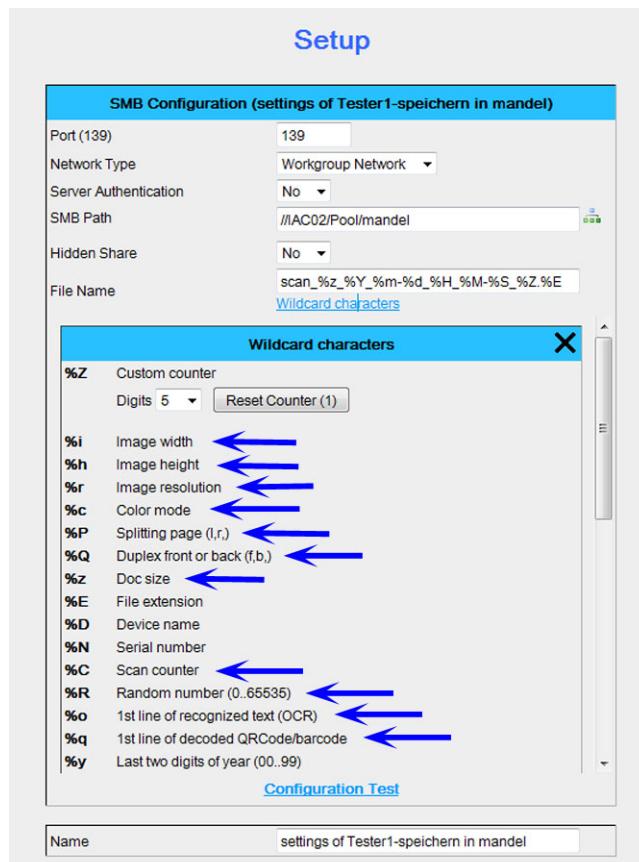
D.4.6.1 Exclusion of Wildcard Characters for Jobmode Scanning

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



Picture 69: 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.4.6.3 FTP Server

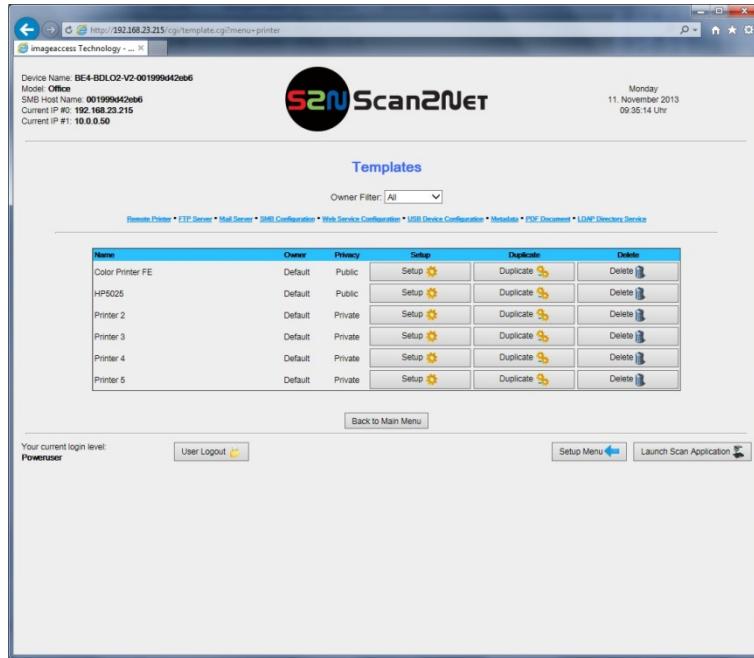
D.4.6.4 Mail Server

D.4.6.5 SMB Configuration

D.4.6.6 Web Service Configuration

D.4.6.7 USB Device Configuration

D.4.6.2 Remote Printer



The screenshot shows a web-based management interface for a Scan2Net device. At the top, there is a header bar with the URL <http://192.168.23.215/cgi/template.cgi?menu=printer>, the Image Access logo, and the date/time: Monday, 11. November 2013, 09:35:14 Uhr. Below the header, the Scan2Net logo is displayed. The main content area is titled "Templates". A table lists five printer templates:

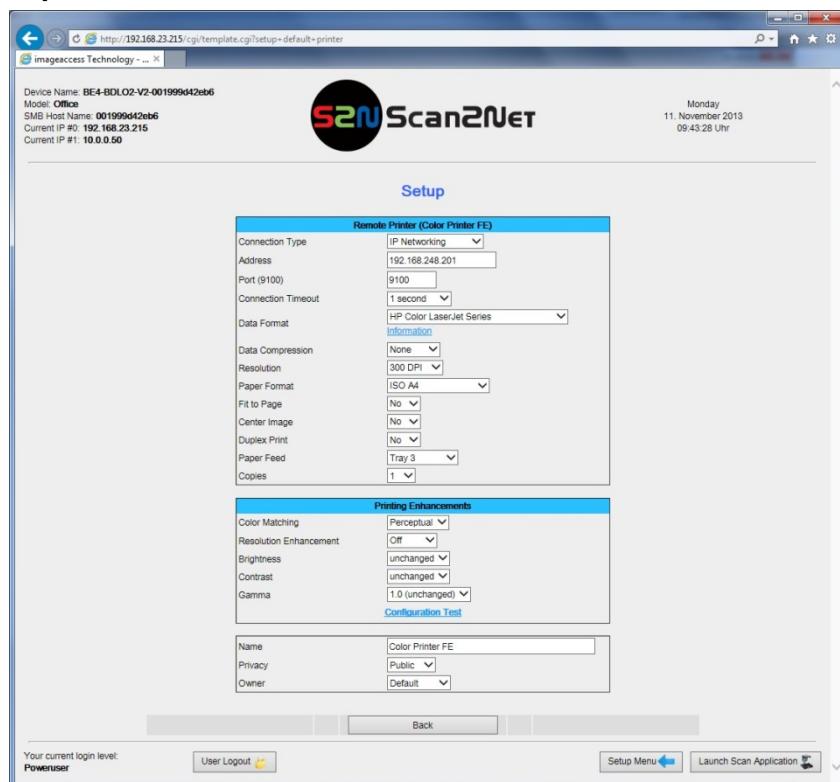
Name	Owner	Privacy	Setup	Duplicate	Delete
Color Printer FE	Default	Public			
HP5025	Default	Public			
Printer 2	Default	Private			
Printer 3	Default	Private			
Printer 4	Default	Private			
Printer 5	Default	Private			

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

Picture 70: Template list for remote printer

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

D.4.6.2.1 Setup



Picture 71: Remote printer parameters

Parameter	Description
Connection Type	Choose between IP Networking and SMB Printer Queue .
Address (with IP Networking only)	Enter the IP address of the printer.
Port (9100) (with IP Networking only)	Enter the IP port of the remote printer. Default is port 9100.
Connection Timeout (with IP Networking only)	Choose the timeout for connecting to the remote printer before the connection is aborted.
Port (139) (with SMB Printer Queue only)	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 (with SMB Printer Queue only)	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.

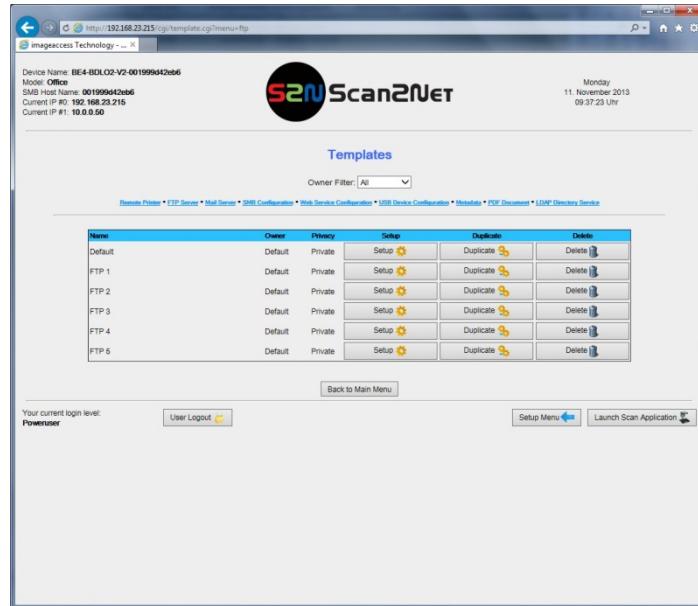
Accounting

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.

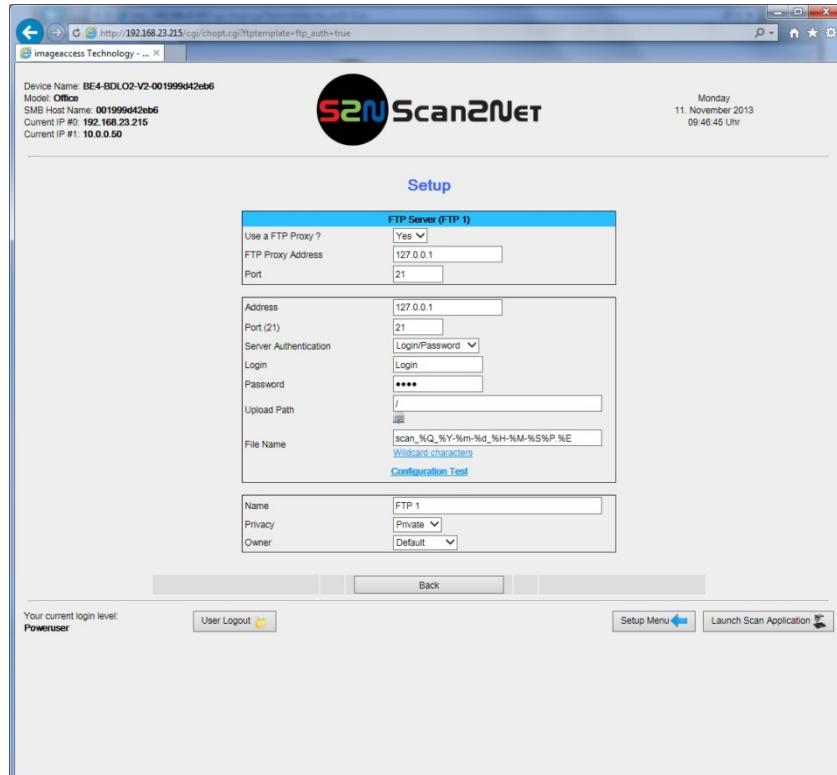
D.4.6.3 FTP Server



Picture 72: Template list for FTP Server

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

D.4.6.3.1 Setup



FTP Server (FTP 1)	
Use a FTP Proxy ?	Yes
FTP Proxy Address	127.0.0.1
Port	21
Address	127.0.0.1
Port (21)	21
Server Authentication	Login/Password
Login	<input type="text"/>
Password	*****
Upload Path	/
File Name	scan_%Q_%Y-%m-%d_%H-%M-%S%P.%E Wildcard characters
Configuration Test	
Name	FTP 1
Privacy	Private
Owner	Default

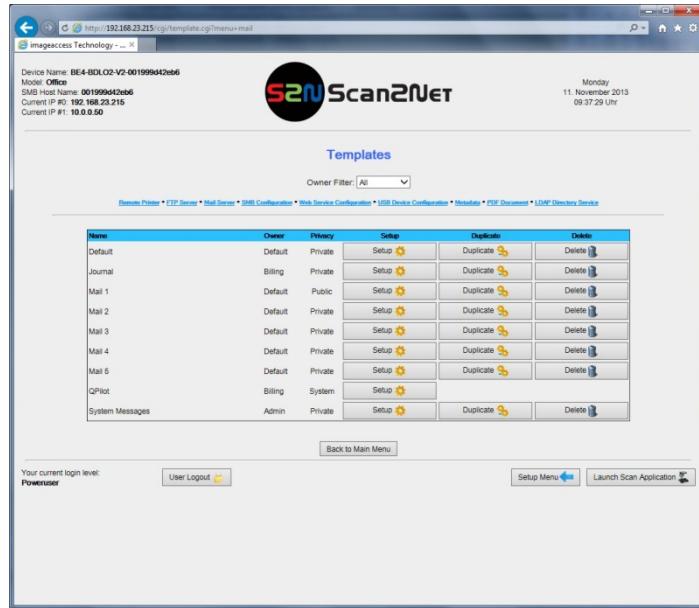
Picture 73: FTP Server parameters

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 at 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.4.6.4 Mail Server



The screenshot shows a Windows application window titled "Template" from the "Scan2Net" software. The window displays a list of templates with columns for Name, Owner, Privacy, Setup, Duplicate, and Delete. The templates listed are:

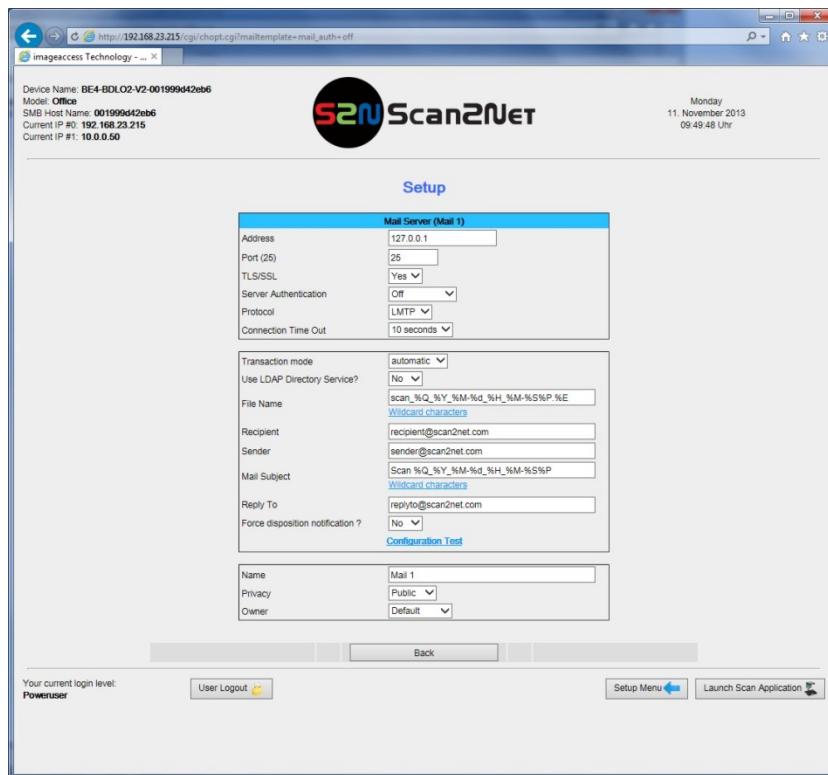
Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Private			
Journal	Billing	Private			
Mail 1	Default	Public			
Mail 2	Default	Private			
Mail 3	Default	Private			
Mail 4	Default	Private			
Mail 5	Default	Private			
QNNot	Billing	System			
System Messages	Admin	Private			

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

Picture 74: Template list for Mail Server

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

D.4.6.4.1 Setup



Picture 75: Mail Server parameters

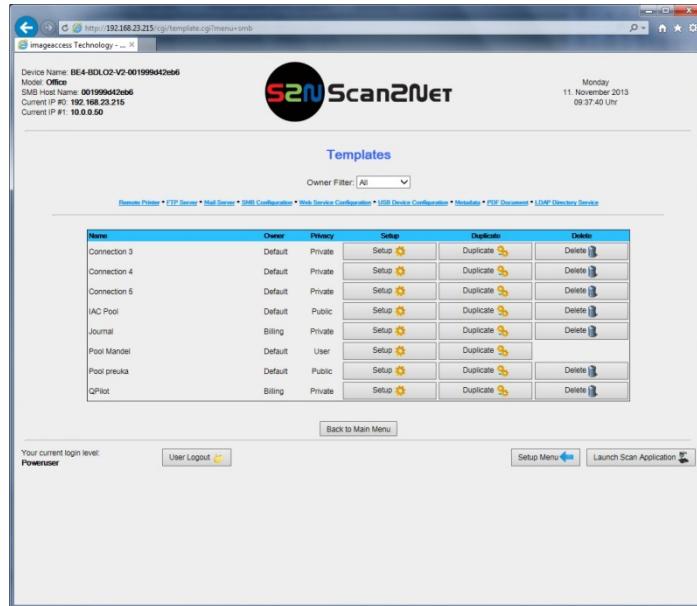
Parameter	Description
Address	Enter the IP address of the outgoing mail (SMTP/LMTP) server.
Port (25)	Enter the IP Port of the outgoing mail server. Default: Port 25.
TLS/SSL	Select Yes if the SSL protocol should be used for the mail transfer.
Server Authentication	Set to YES if the mail server requires 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.

Parameter	Description
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.

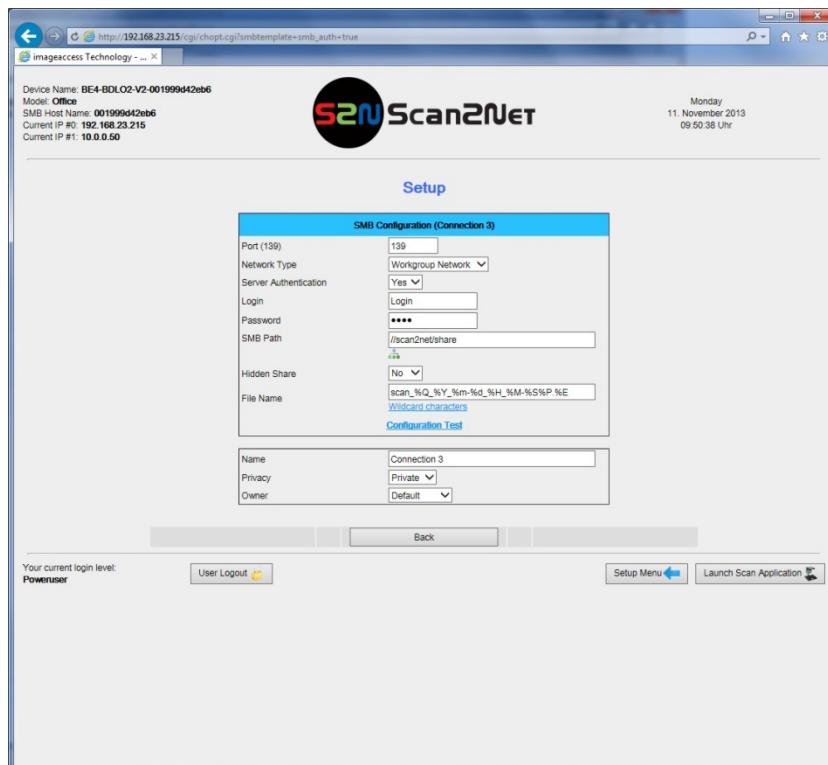
D.4.6.5 SMB Configuration



Picture 76: Template list for SMB Configuration

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

D.4.6.5.1 Setup



Picture 77: 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.
Hidden Share	Select Yes or No .
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.

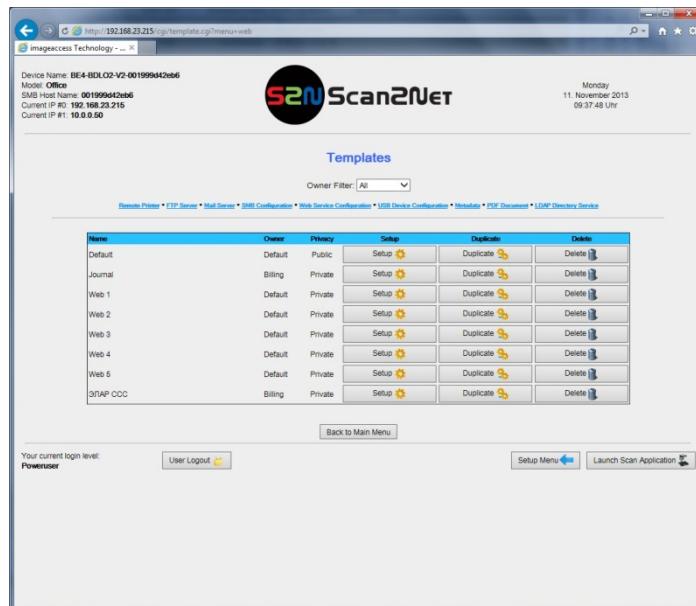
Please note: Each change to an entry field is transferred to the scanner immediately.

D.4.6.6 Web Service Configuration

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.



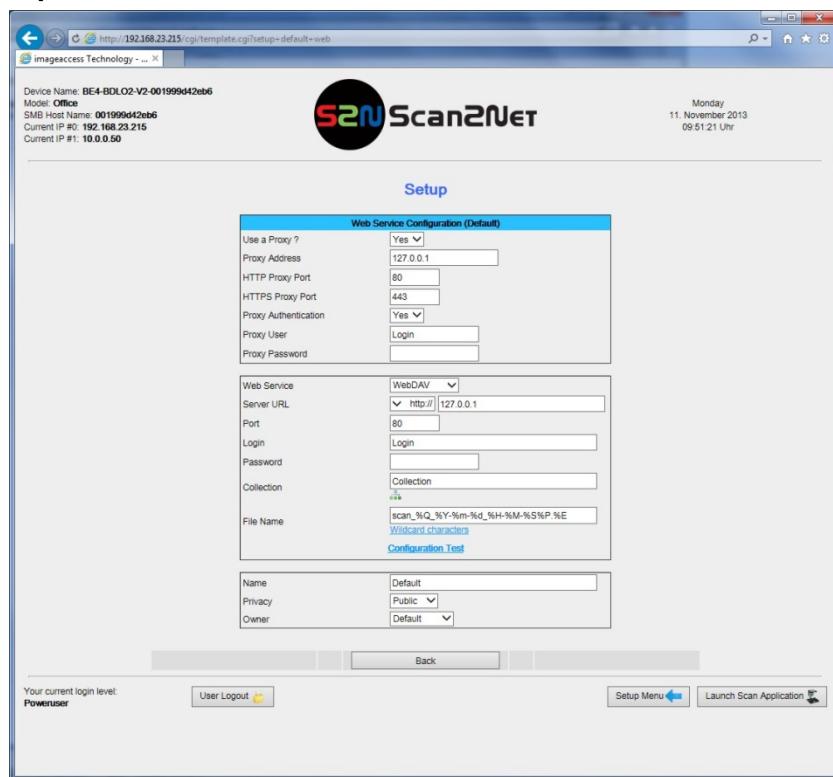
The screenshot shows a web-based configuration interface for Scan2Net. At the top, there is a header bar with the URL <http://192.168.23.215/cgi/template.cgi?menu=web>, the Image Access Technology logo, and the date/time: Monday 11. November 2013 09:37:48 Uhr. Below the header, the Scan2Net logo is displayed. The main content area is titled "Templates". A sub-header "Owner Filter: All" is present. Below this is a table listing eight templates:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public			
Journal	Billing	Private			
Web 1	Default	Private			
Web 2	Default	Private			
Web 3	Default	Private			
Web 4	Default	Private			
Web 5	Default	Private			

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

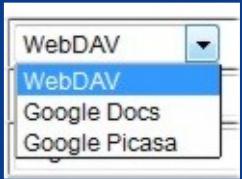
Picture 78: Template list for Web Service Configuration

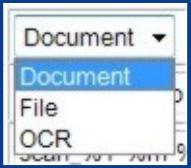
D.4.6.6.1 Setup



Picture 79: 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

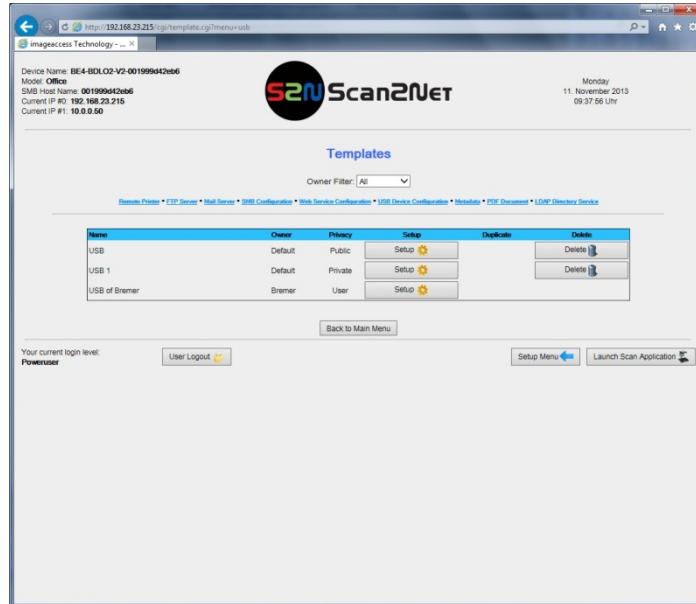
Parameter	Description
Collection (only with WebDAV)	Enter the name of the directory where the files should be stored.
Upload Mode (only with Google Docs)	Select the data format. Currently the file size for the data format "Document" and "File" is limited to 1 MB.  If "Document" is selected, a new document 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.

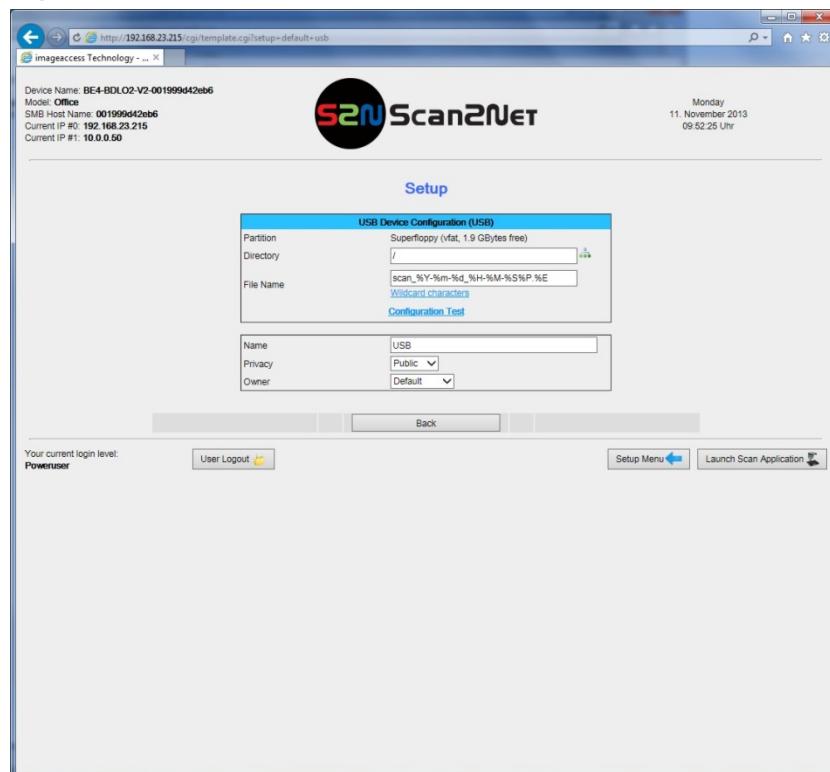
D.4.6.7 USB Device Configuration

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 80: Template list for USB Device

D.4.6.7.1 Setup



Picture 81: 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 81.

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.4.6.7.2 List of suitable USB storage media

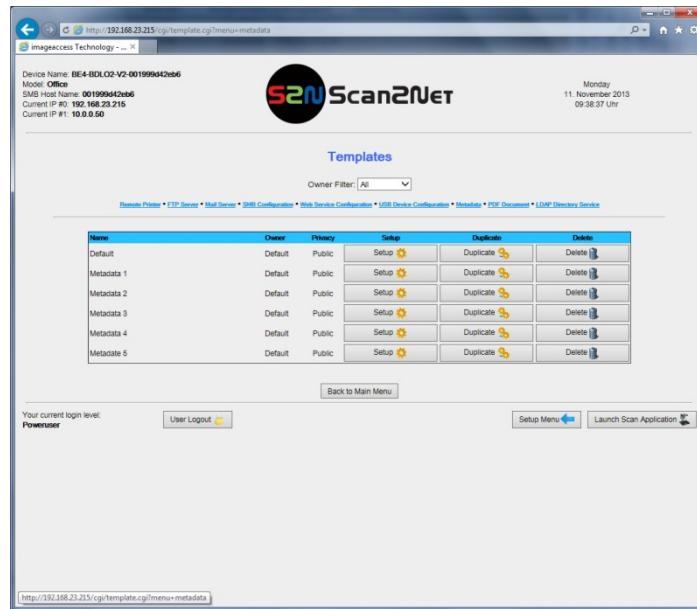
The criteria in the following list have been defined as a guide line for the storage media that can be connected to the USB connectors.

- 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.4.6.8 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 is a status bar with device information: Device Name: BE4-8DL02-V2-001999a42eb6, Model: Office, SMB Host Name: 0000000000000000, Current IP #0: 192.168.23.215, and Current IP #1: 10.0.0.50. The date and time are listed as Monday, 11. November 2013, 09:38:37 Uhr.

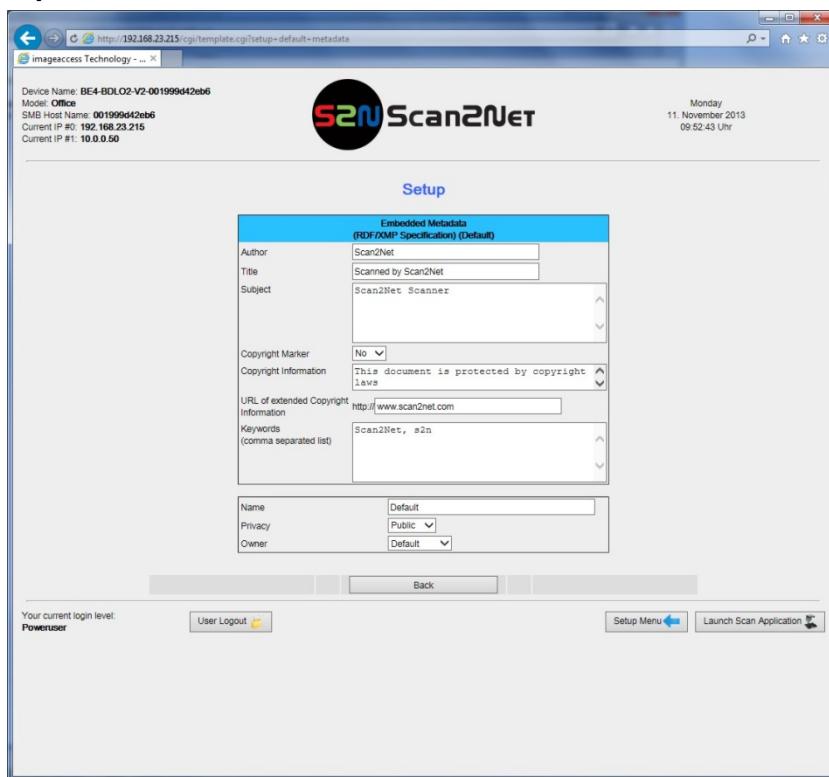
The main content area is titled "Templates". It features a table with columns: Name, Owner, Privacy, Setup, Duplicate, and Delete. The table contains six rows, each representing a metadata template:

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			

Below the table are several buttons: "Back to Main Menu", "User Logout", "Setup Menu", and "Launch Scan Application". A status message at the bottom left says "Your current login level: Poweruser". The URL in the browser's address bar is http://192.168.23.215/cgi/template.cgi?menu=metadata.

Picture 82: Template list for Metadata

D.4.6.8.1 Setup



Picture 83: Metadata parameters

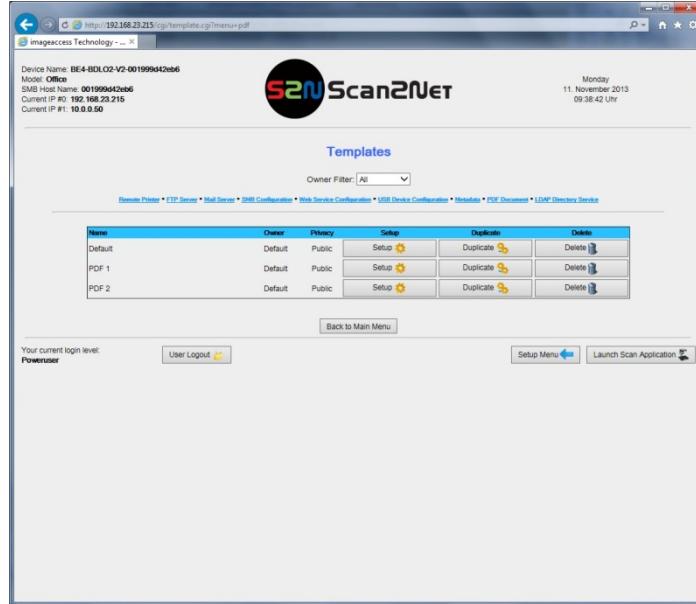
Parameter	Description
Author	The name or organization creating the document or the copyright owner of the document.
Title	A short title for the scanned document.
Subject	Abstract of the document.
Copyright Marker	Select if the scanned document is copyright protected.
Copyright Information	The copyright 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.4.6.9 PDF Document

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

PDF documents can be displayed with all common PDF viewers.



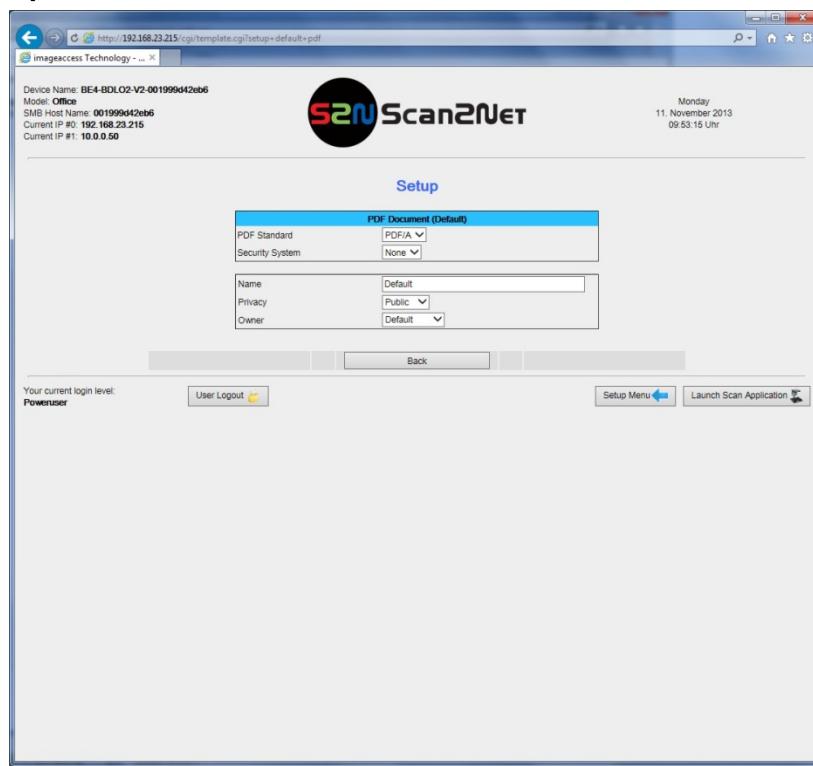
The screenshot shows a web-based configuration interface for a Scan2Net device. At the top, there's a header bar with the device name (BE4-BDL02-V2-001999d42e6), model (Office), and connection details (SMB Host Name: 001999d42e6, Current IP #0: 192.168.23.215, Current IP #1: 10.0.0.50). The date and time (Monday, 11. November 2013, 09:38:42 Uhr) are also displayed. The main content area is titled 'Templates' and contains a table with three rows:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public			
PDF 1	Default	Public			
PDF 2	Default	Public			

Below the table, there are buttons for 'Back to Main Menu', 'User Logout', 'Setup Menu', and 'Launch Scan Application'. A note at the bottom left says 'Your current login level: Poweruser'.

Picture 84: Template list for PDF document

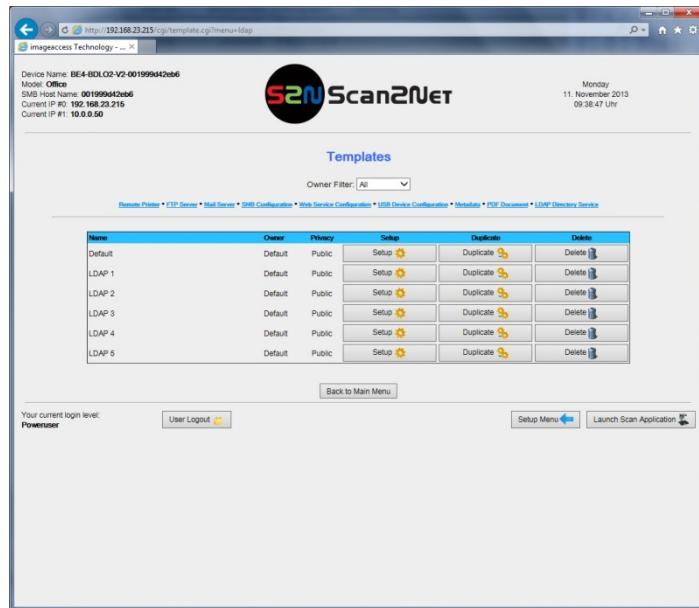
D.4.6.9.1 Setup



Picture 85: PDF Document parameters

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

D.4.6.10 LDAP Directory Service



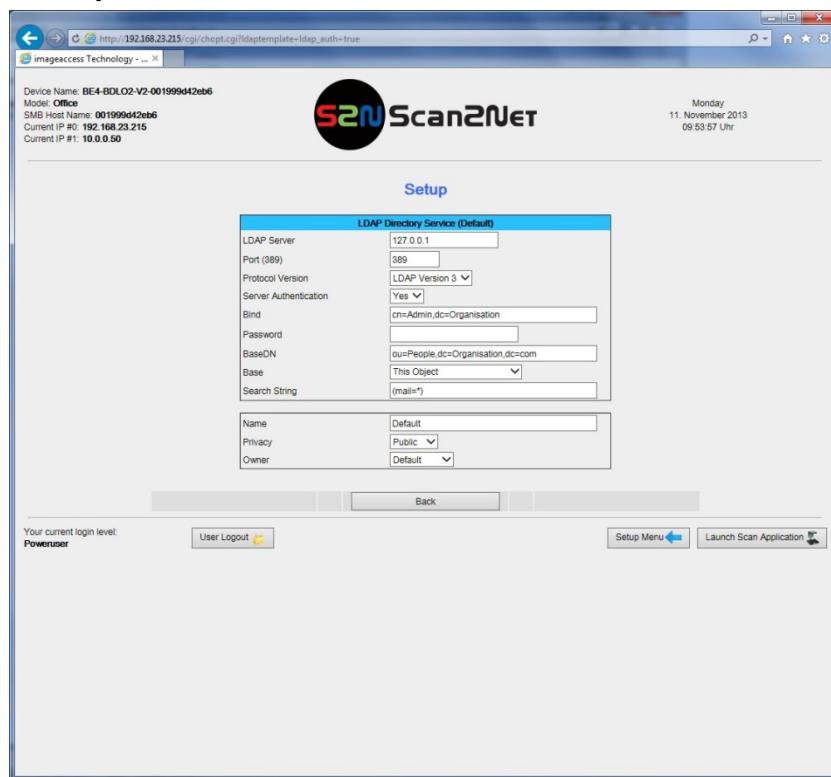
The screenshot shows a web-based management interface for a Scan2Net device. At the top, there's a header bar with the URL <http://192.168.23.215/cgi/template.cgi?menu=ldap>, the device name (BE4-BDL02-V2-001999d42eb6), model (Office), and various connection details. The main content area is titled "Templates" and displays a table of existing LDAP configurations. The table has columns for Name, Owner, Privacy, Setup, Duplicate, and Delete. The entries are:

Name	Owner	Privacy	Setup	Duplicate	Delete
Default	Default	Public			
LDAP 1	Default	Public			
LDAP 2	Default	Public			
LDAP 3	Default	Public			
LDAP 4	Default	Public			
LDAP 5	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 86: LDAP Directory Service templates

D.4.6.10.1 Setup



Picture 87: 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 at the selection arrow and select from the list.
Search String	Enter the search string here.

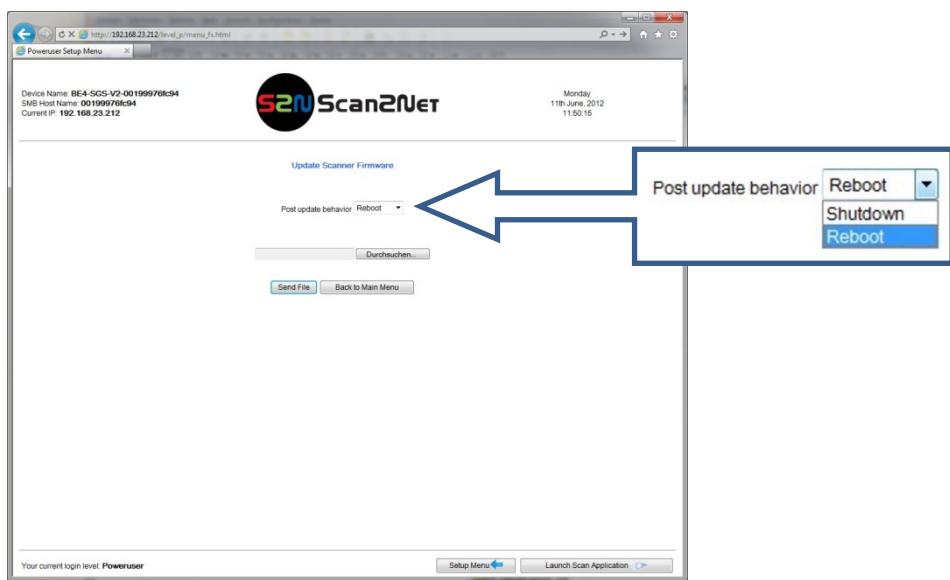
Please note: Each change to an entry field is transferred to the scanner immediately.

D.5 Updates & Uploads

In the section **Updates & Uploads** several updates can be initiated, screensavers can be defined and installed and Java applications can also be installed. The PDF cover sheet can be uploaded and activated here as well.

D.5.1 Update Scanner Firmware

Upload a new firmware version to the scanner.



Picture 88: Update Scanner Firmware

The Image Access Customer Service Portal (CSP) at <http://portal.imageaccess.de/> offers firmware updates for every Scan2Net scanner. In order to download the appropriate firmware version update for your scanner, you must be a registered user. Log in to the CSP with your personal login name and password.

Select **Actions → S2N Device Updates** to download the current firmware version.

Follow the steps described on the website. Download the ZIP archive of the current firmware version to your local PC.

The ZIP archive contents:

- Three “txt” files with information concerning the installation, the release notes and the version number.
- One “tar” archive with the firmware

Important: Never unpack the ZIP archive file!

Always send the complete ZIP archive to the scanner!

In the screen **Update Scanner Firmware** (see Picture 88) click on the selection arrow beside “Post update behavior” of the scanner from the list.

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

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.

Note: A White Balance adjustment must always be executed after a firmware update.

See chapter C.1 for more information about the White Balance adjustment.

All installed options will stay active.

D.5.2 ICC Profiles

The section **ICC Profiles** is divided into the subsections **Scanner Profile**, **Monitor Profiles**, and **Printer Profiles**.

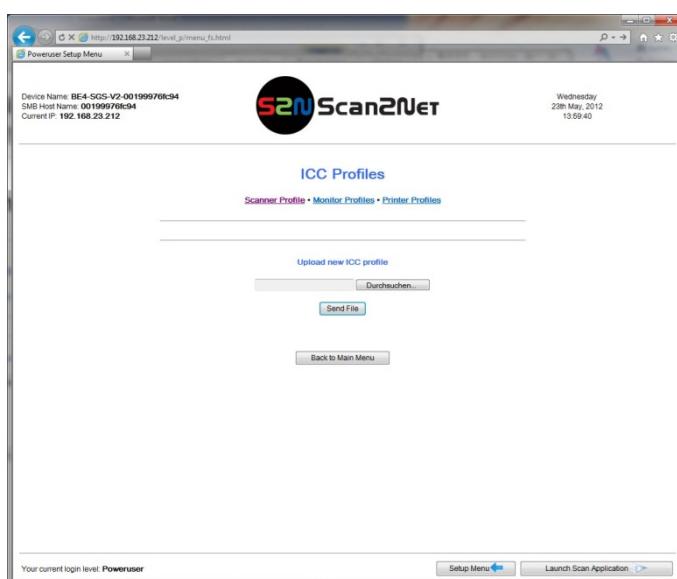
ICC profiles are integrated in the image file data.

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

D.5.2.1 Scanner Profile

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

Select **Scanner Profile** to upload an ICC profile to the scanner.



Picture 89: Scanner Profile

Search

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

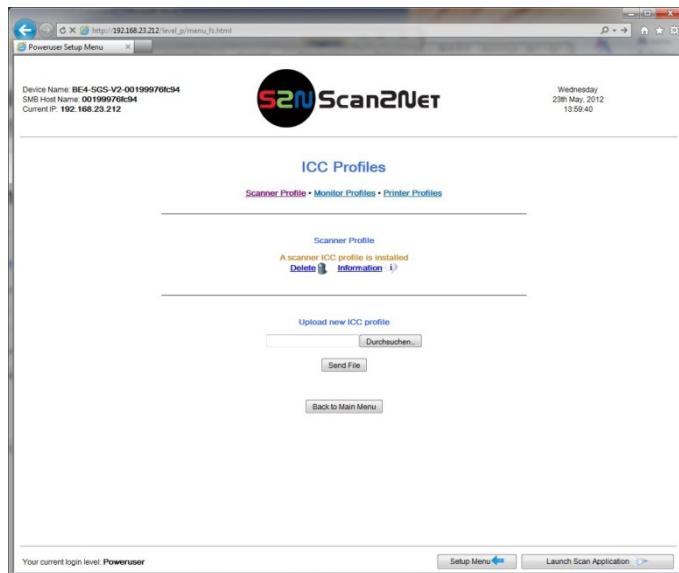
Send File

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

After uploading, the ICC profile will be displayed.

Activating the ICC profile:

Select **ICC Profiles** in section **Quality** of the ScanWizard user interface.



Picture 90: ICC Profile installed



To delete the ICC profile, click on the “Delete” symbol.



To get information about the ICC profile, click on the information symbol

Information	
Information (Scanner Profile)	
Size	48124 bytes
Color Management Module	argl
Version	2.2.0
Device Class	Input
Color Space	RGB
Profile Connection Space (PCS)	XYZ
Date & Time	22 Nov 2010, 11:32:34
Platform	Unrecognized - **nix'
Flags	Not Embedded Profile, Use anywhere
Manufacturer	customized
Device Model	customized
Attributes	Reflective, Glossy
Rendering Intent	Relative Colorimetric
Illuminant	0.964203, 1.000000, 0.824905 [Lab 100.000000, 0.000498, -0.000436]
Creator	argl
Description	Bookeye 4 Gamma/Matrix Default Profile
Copyright Marker	(c) 2010 Image Access GmbH
Device Model Description	Bookeye 4

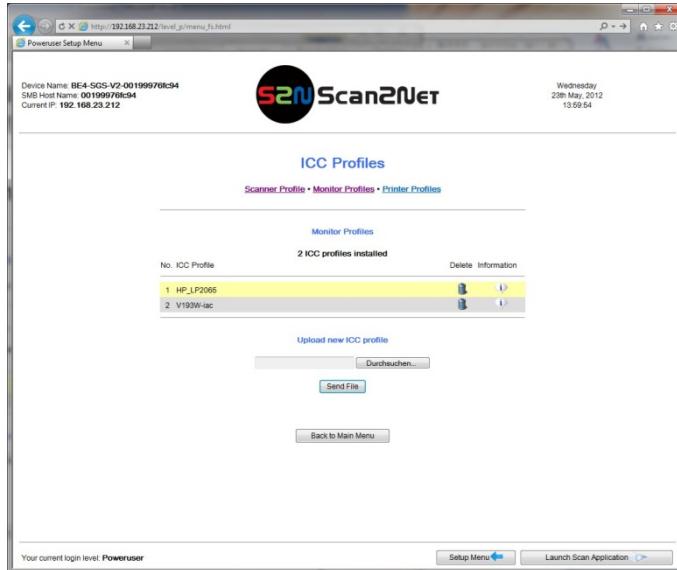
[Back to Main Menu](#)

Picture 91: ICC Profile information

D.5.2.2 Monitor Profiles

The ICC profile will be adapted to the image data displayed at the external monitor of the Bookeye® 4 scanner.

Select **Monitor Profiles** to upload an ICC profile for the external monitor.



Picture 92: Monitor Profiles

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.

Selecting the ICC profile to be used:

Select section **User Settings**, function **Display** (see chapter D.4.1.6) and select the ICC profile as described.



To delete the ICC profile, click on the “Delete” symbol.



To get information about the ICC profile, click on the information symbol



Picture 93: ICC Profile information

To activate the ICC profile for the external monitor, select the menu **Viewer & Job Control** in the touchscreen and mark the checkbox for the **ICC Profile**.

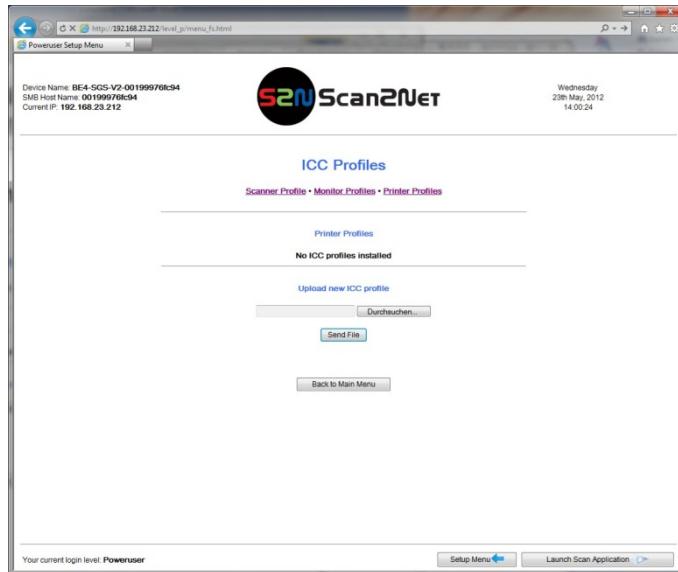


Picture 94: Touchscreen menu, ICC profile selected

D.5.2.3 Printer Profiles

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

Select **Printer Profiles** to upload an ICC printer profile.

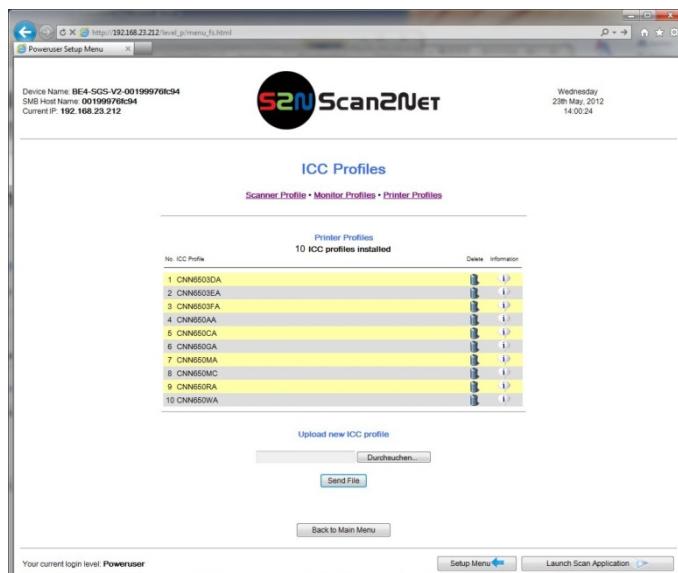


Picture 95: Printer Profiles

[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 profiles will be displayed.



Picture 96: List of ICC profiles



To delete the ICC profile, click on the “Delete” symbol in the line of the ICC profile to be deleted.



To get information about the ICC profile, click on the information symbol in the line of the ICC profile.

Information	
Information (JapanColor2001Uncoated)	
Size	557168 bytes
Color Management Module	ADBE
Version	2.1.0
Device Class	Output
Color Space	CMYK
Profile Connection Space (PCS)	Lab
Date & Time	1 Sep 2002, 0:00:01
Platform	Macintosh
Flags	Not Embedded Profile, Use anywhere
Manufacturer	ADBE
Device Model	0x0
Attributes	Reflective, Glossy
Rendering Intent	Perceptual
Illuminant	0.964203, 1.000000, 0.824905 [Lab 100.000000, 0.000498, -0.000436]
Creator	ADBE
Description	Japan Color 2001 Uncoated
Copyright Marker	Copyright 2002 Adobe Systems, Inc.
Device Model Description	

[Back to Main Menu](#)

Selecting the ICC profile to be used:

In the S2N user interface of the scanner click on the link [Options](#) below the button [Copy](#).

The **Printer Preset** window opens. Click on **Printing Enhancements**.

Select **Color Matching → ICC Profile**.

The additional line **ICC Profile** is added to the menu below **Color Matching**.

Click on the selection arrow. All installed ICC profiles will be listed.

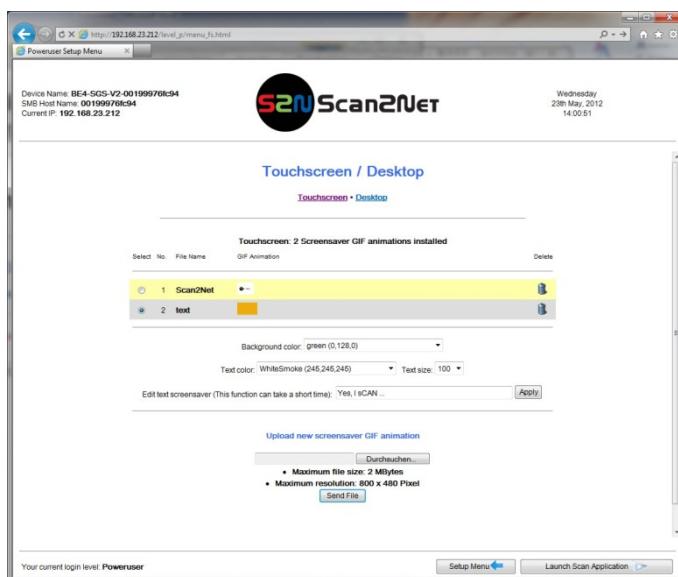
Select the desired ICC profile from the list.

D.5.3 Touchscreen / Desktop

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

D.5.3.1 Touchscreen

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



Picture 97: Touchscreen screensaver

The installed screensavers are listed.



To delete a screensaver, click on the “Delete” symbol at the right side of the line.

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 the **Search** button to search the directories of your local PC and/or your network for a suitable file.

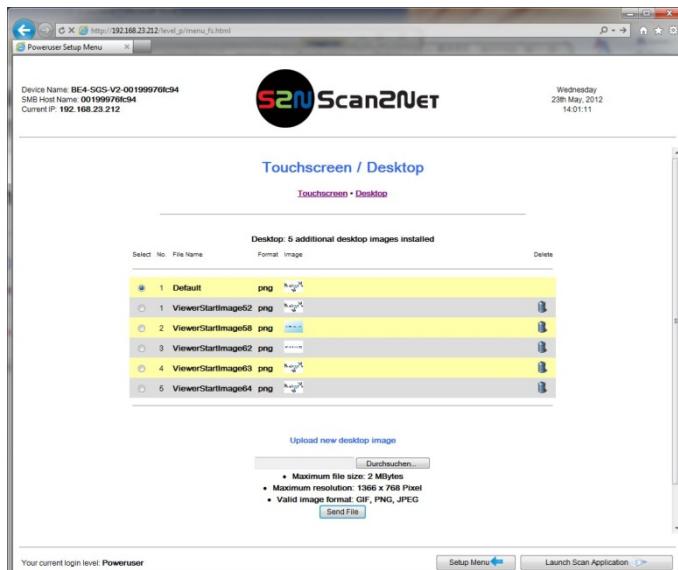
Click on **Send File** to transfer the selected file to the scanner.

A message signalizes the end of the upload sequence.

To activate the changes, restart the scanner.

D.5.3.2 Desktop

This section allows the operator to install desktop images for the external monitor.



Picture 98: Desktop screensaver list

The installed desktop images are listed on the screen.



**Upload new
desktop image**

To delete a desktop image, click on the “Delete” symbol at the right side of the line.

Click on the **Search** button 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 see the available desktop image in detail, click on the preview image in the column “Image”. This shows the image in full size.



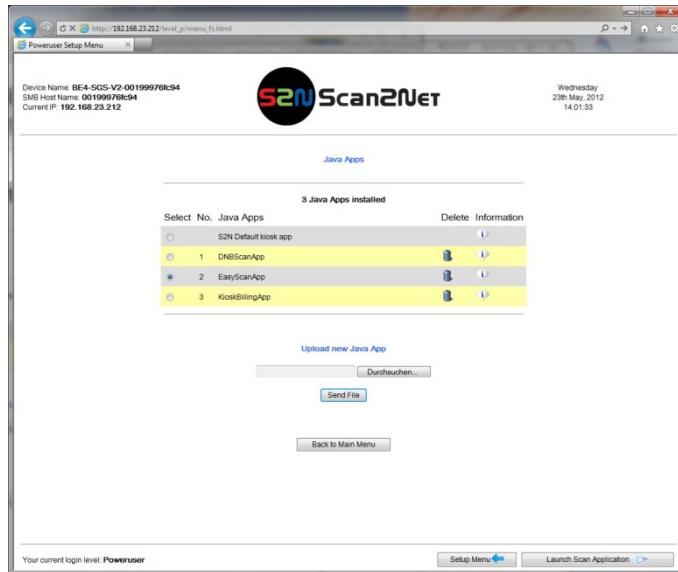
Picture 99: Preview of desktop image

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.5.4 Java Apps

This section enables installing and selecting Java applications for special user-defined tasks.



Picture 100: Java Apps

The installed Java Apps are listed on the screen.



To delete a Java App from the list, click on the “Delete” symbol at the right side of the line.

To get information about the Java App, click on the information symbol in the line of the Java App.

Information	
EasyScanApp.app	
File size	971767 Bytes
MD5 check sum	13cc936618084544fad27dcbadfc2dcc
Manifest	<pre>Manifest-Version: 1.2 Implementation-Vendor: "Image Access GmbH" Implementation-Title: "ESA" Implementation-Version: "build12" Specification-Vendor: "Image Access GmbH" Name: EasyScanApplication Specification-Title: "EasyScan" Specification-Version: "1.2" Main-Class: EasyScanApp</pre>

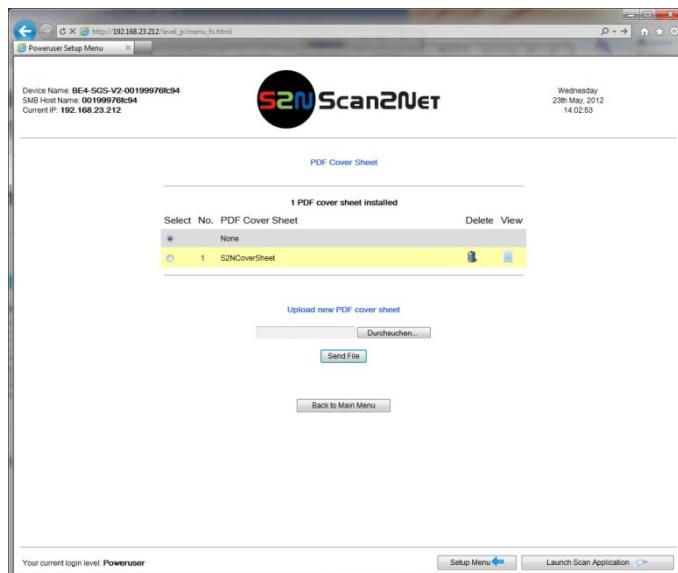
Upload new Java App

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.5.5 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 101: PDF Cover Sheet

The preinstalled cover sheets are displayed in the list.



To delete a PDF cover sheet from the list, click on the “Delete” symbol.



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

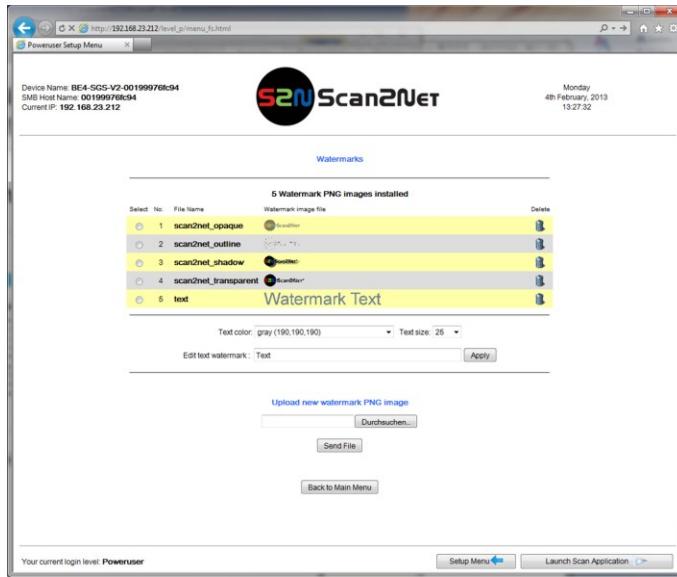
**Upload new
PDF cover sheet**

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.5.6 Watermarks

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



Picture 102: 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**.



To delete a watermark from the list, click on the “Delete” symbol.

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

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

Click on **Apply** to transfer the text to the scanner.

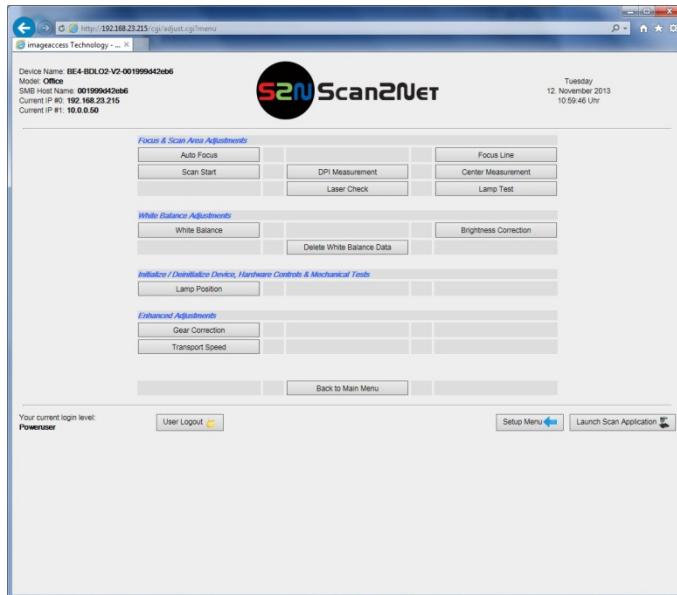
To upload a new watermark image click on the **Search** button. The PNG file format is required for the images.

Send File transfers the selected image to the scanner.

D.6 Adjustments & Support

D.6.1 Adjustments

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



Picture 103: 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.

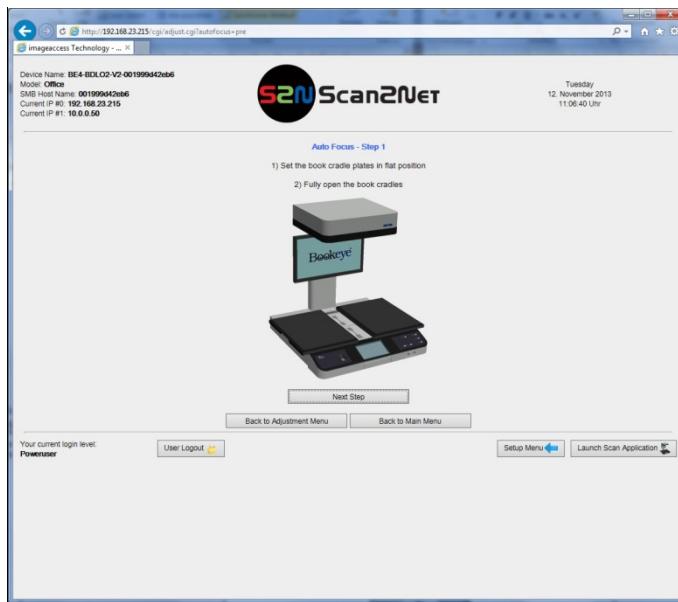
The **Initialize / Deinitialize Device, Hardware Controls & Mechanical Tests** section offers a setup routine for the lamps positions (firmware version up to 5.8x).

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.

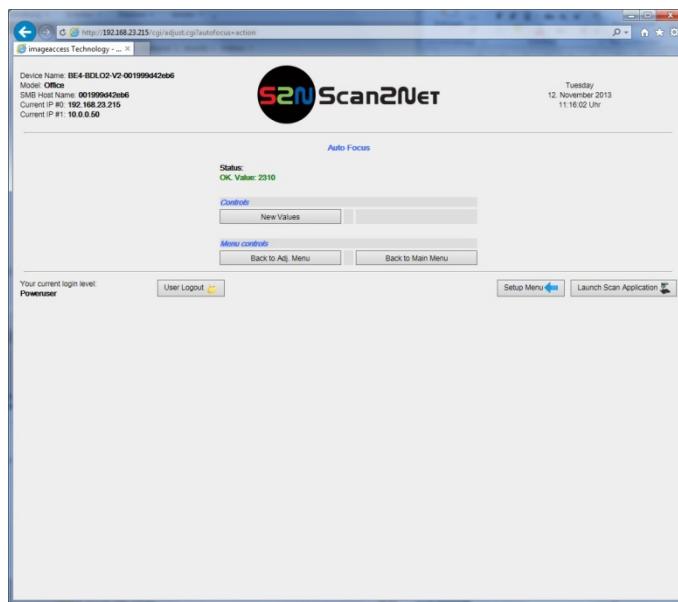


Picture 104: Auto Focus start screen

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 105: Auto Focus results

New Values

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

Back to Adj. 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.

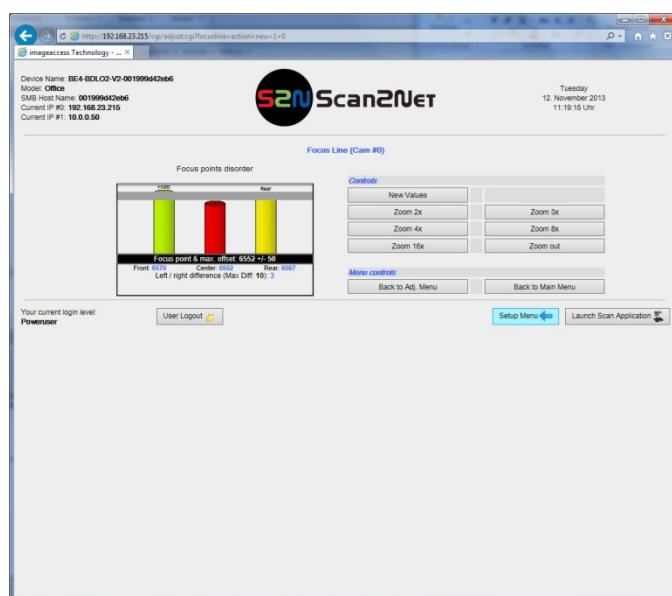


Picture 106: Focus Line screen with options for resolution

Close the book cradles and place the test target document in the scan area as illustrated on the screen.

Click on a button with the desired resolution. The measurement starts.

The results will be displayed in the next screen.



Picture 107: 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 Adj. 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.



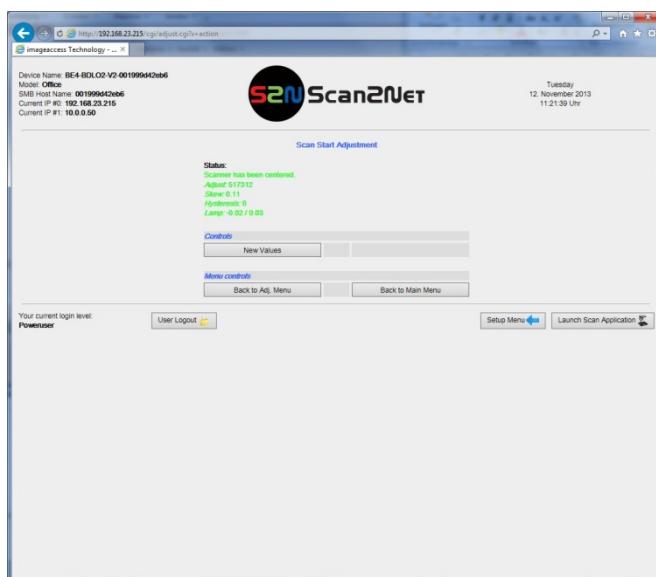
Picture 108: Scan Start screen

Open the book cradles as shown on the screen.

Click on **Next Step** to start the measurement. The sound of the moving camera mirror is audible, then after a brief moment both lamps light up, positioned in the horizontal middle of the scan area and the sound of the moving camera is again audible. Finally, the light bar of each lamp moves over the scan area.

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.

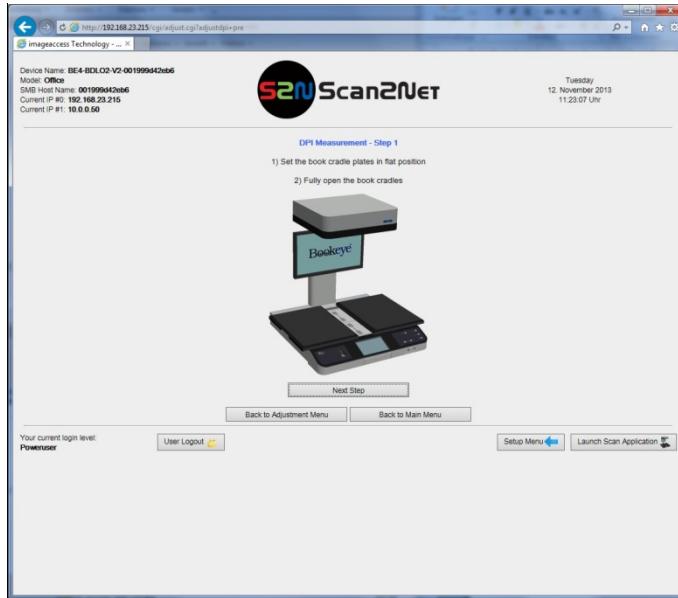
An error is always shown in red text and usually comes with an explanatory remark.



Picture 109: 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.

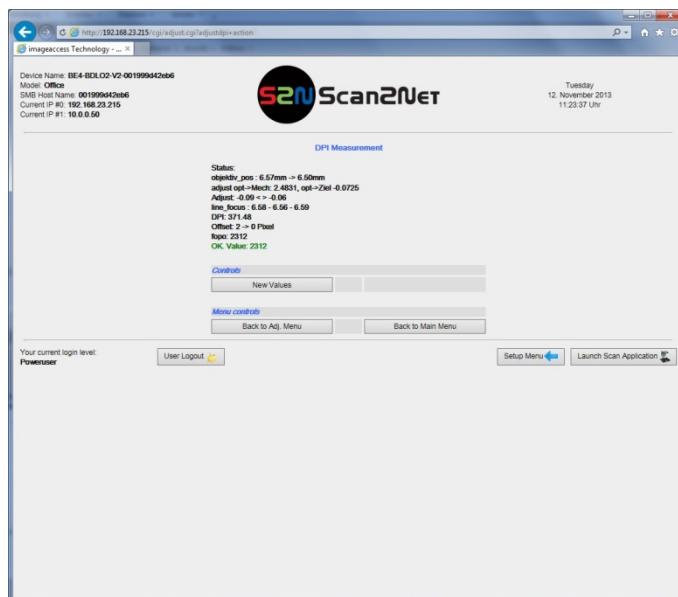


Picture 110: DPI Measurement start screen

Open the book cradles as shown on the screen.

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

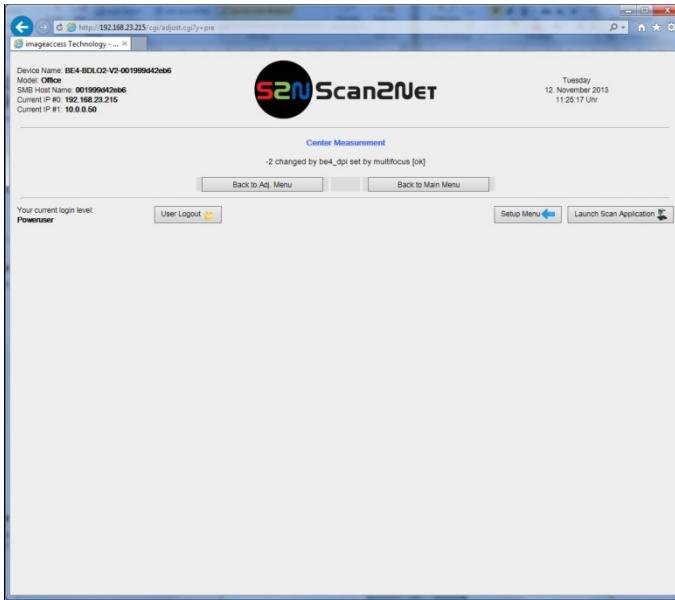
The lamps light up for a short time and the measurement will be executed. At the end, the screen shows the results.



Picture 111: Result of DPI measurement

D.6.1.5 Center Measurement

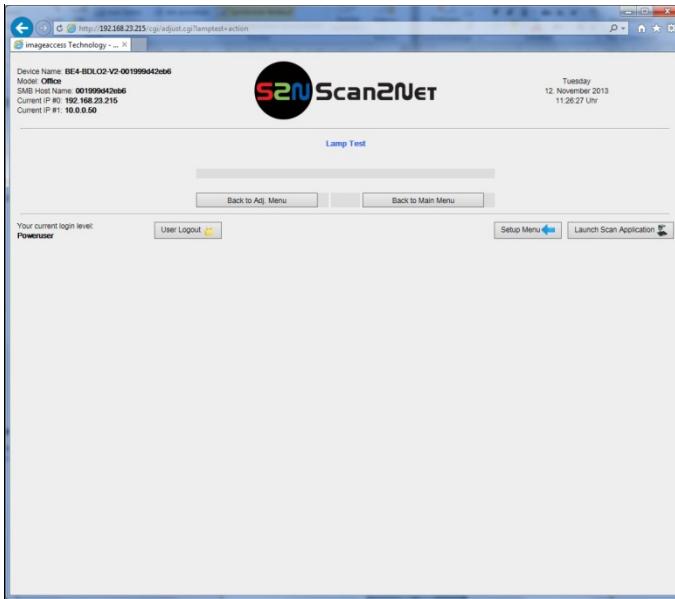
The button **Center Measurement** delivers status information about the center position.



Picture 112: Center Measurement information

D.6.1.6 Lamp Test

The button **Lamp Test** turns the lamps on with reduced brightness. The lamps illuminate the middle of the left and the right book cradle.



Picture 113: Lamp Test screen

The lamps automatically switch off after 30 seconds or if another measurement function is selected.

D.6.1.7 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.



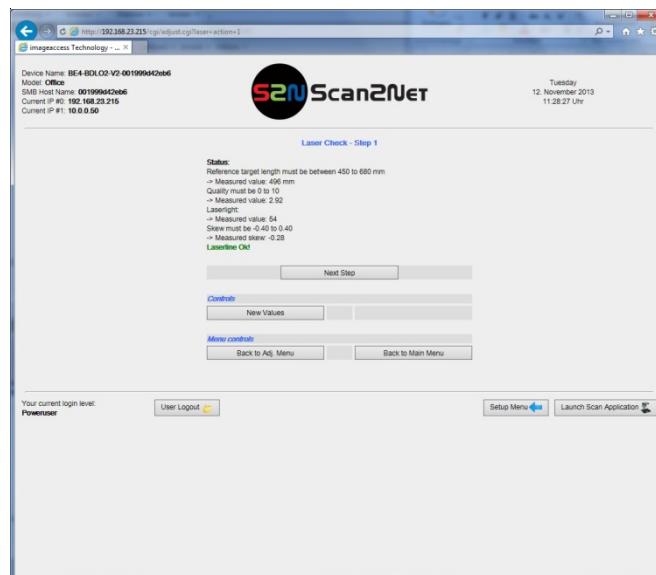
Picture 114: Laser Check screen

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

In the middle of each long side, the test target has a marking. Place the test target on the book cradles so that the vertical laser line covers these markings.

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

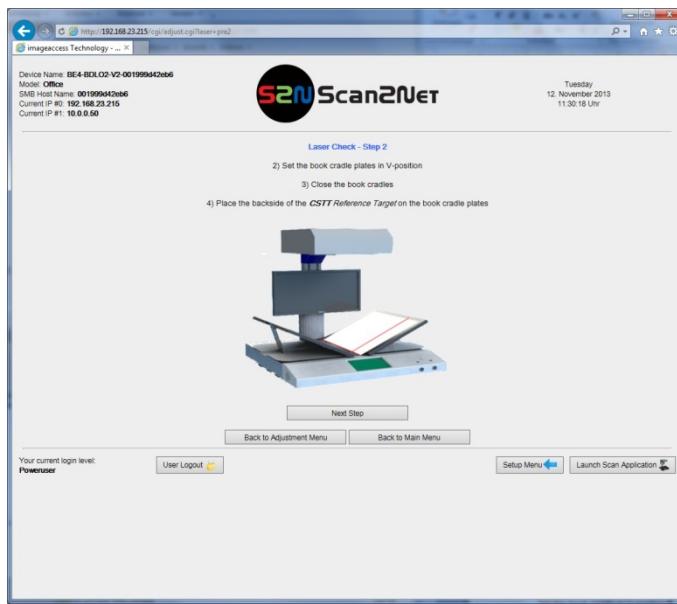
While the test sequence runs, the lamps will not light up. When the function has finished, the screen shows the result. As long as the displayed text is green, the result is ok. Any error will be shown in red followed by some explanatory remarks.



Picture 115: Laser Check result

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

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



Picture 116: Laser Check, optional measurement

Set the book cradle in V-position.

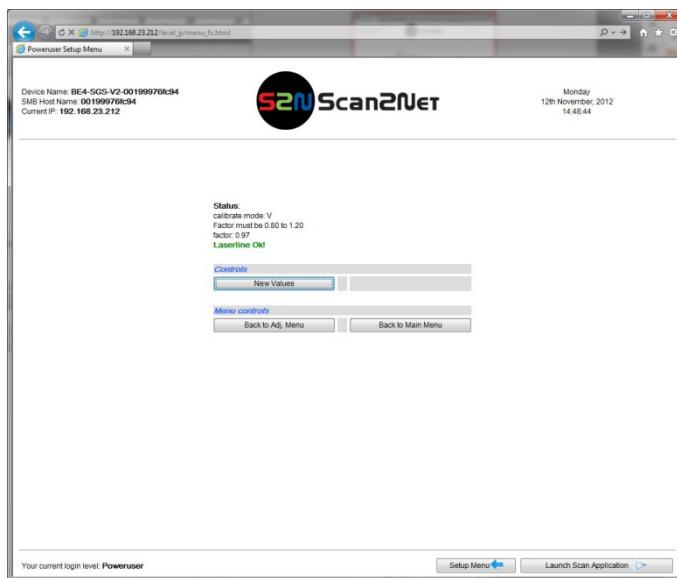
Close the book cradle, i.e. push the book cradle plates together.

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 117: Laser check result with book cradle in V-position

D.6.1.8 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.

Firmware version up to 5.8x



Picture 118: Test target placed on left side

Firmware version 6.x or higher



Picture 119: Test target placed in the middle

Place the test target on the book cradle as shown, depending on the firmware version. The test target must overlap the upper and the lower margins 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.

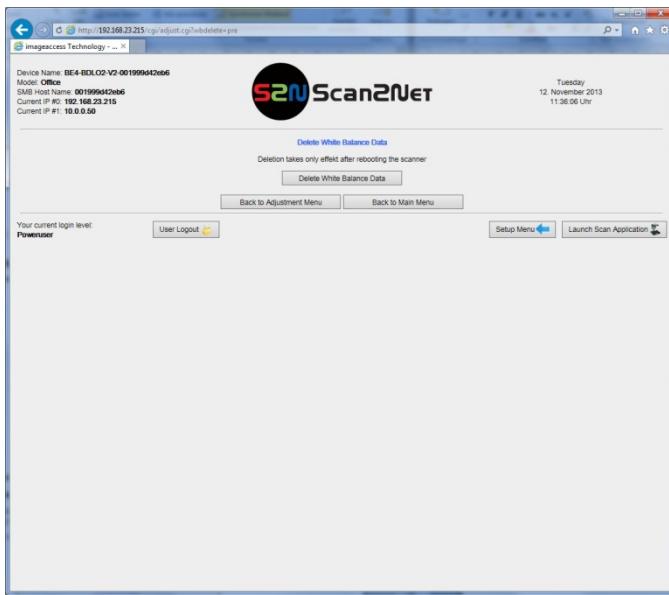


Picture 120: White Balance results

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.6.1.9 Delete White Balance Data

The white balance data, measured with the white balance function, will be deleted.



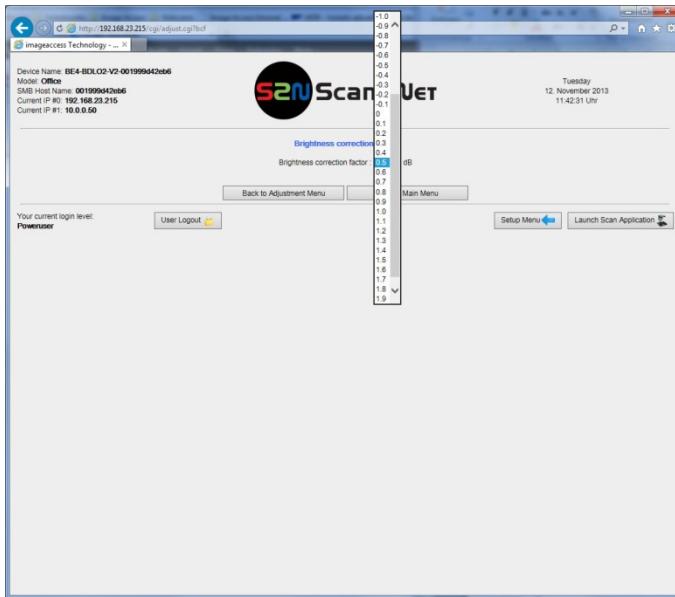
Picture 121: Information about deleting the white balance data

Delete White Balance Data

Click at the button to execute the deletion.

D.6.1.10 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 122: Brightness Correction factor list

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

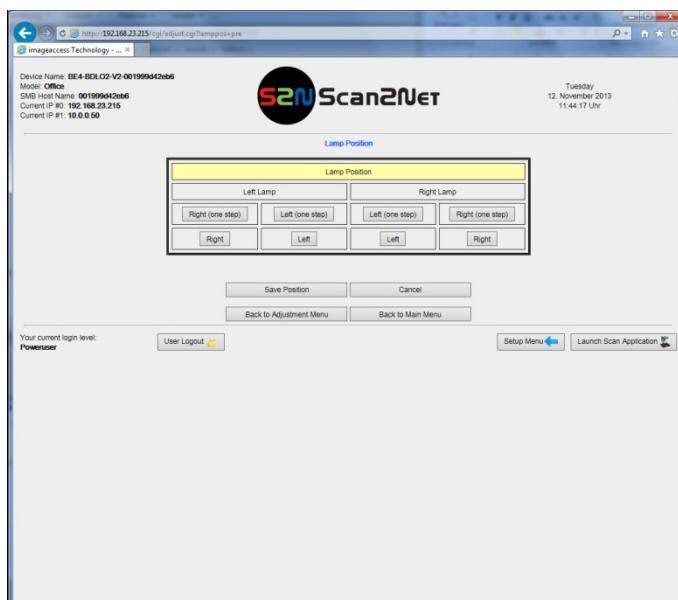
The correction factor will be effective immediately.

D.6.1.11 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 123: 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)

Left / **Right**

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.

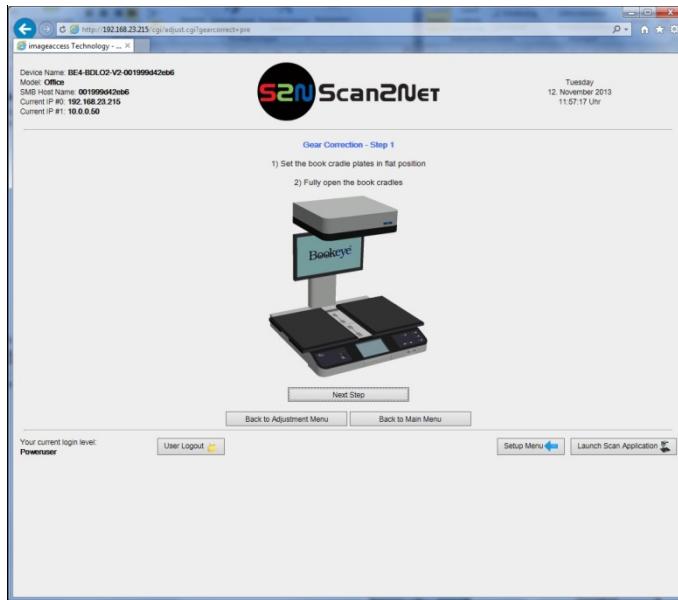
Click on the button **Save Position** to save the position of the lamps.

Back to Adjustment Menu returns to the former menu.

Back to Main Menu returns to the **Poweruser** level main menu (Picture 33).

D.6.1.12 Gear Correction

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

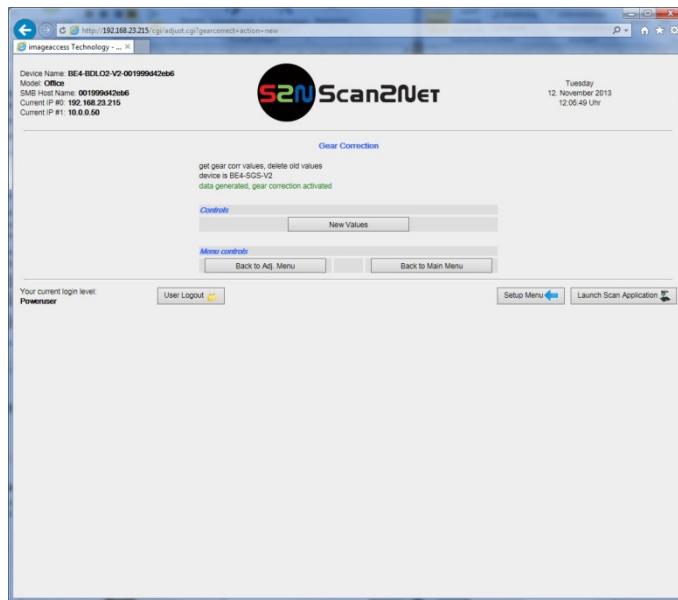


Picture 124: Gear Correction start screen

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. Finally the status message will be displayed.

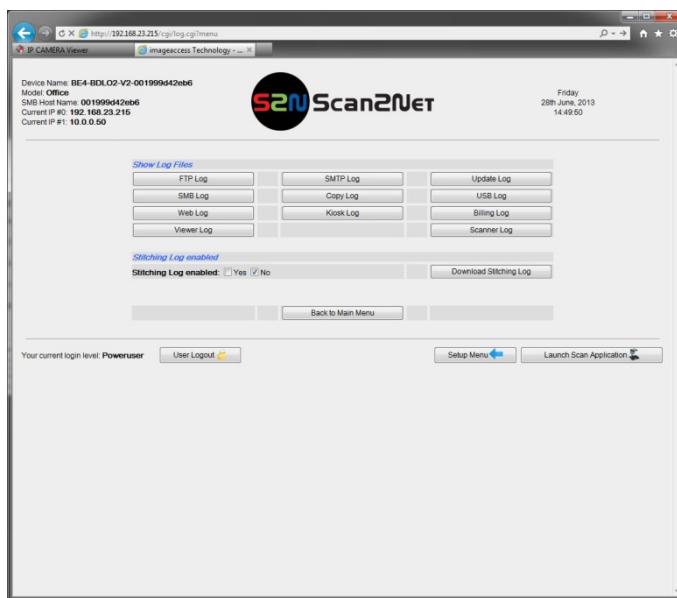


Picture 125: Gear Correction status

D.6.2 Log Files

D.6.2.1 Show Log Files

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



Picture 126: Log files overview, software version 6.x

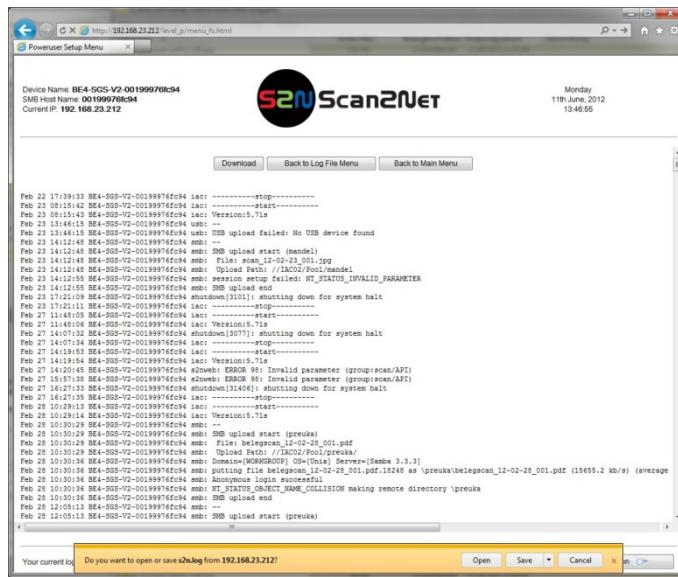
Log file	Content
FTP Log	FTP transfers will be logged with all transfer data.
SMTP Log	SMTP transfers will be logged with all transfer data.
Update Log	All firmware updates will be logged.
SMB Log	SMB transfers will be logged with all data.
Copy Log	The data transfer between scanner and printer will be logged.
USB Log	The data transfer to connected USB devices will be logged.
Web Log	The data transfer to a target in the internet will be logged.
Scanner Log	All system activities of the scanner will be logged.
Billing Log	All billing relevant data will be logged.
Kiosk Log ¹	All activities in conjunction with the kiosk functionality will be logged.
Viewer Log ²	All viewer activities will be logged.

All logs can be saved as ASCII files.

¹ New menu item with software version 6.x.

² New menu item with software version 6.x.

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



Picture 127: Selection box at the bottom of the screen

Depending at the selected log file, the amount of information varies.

Click on the button **Download** to save the log file.

A dialog box opens where the operator can select between saving and opening the log file. If the operator selects saving, the file will be saved in ASCII format, which can be opened with any text editor program.

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

D.6.2.2 Stitching Log enabled

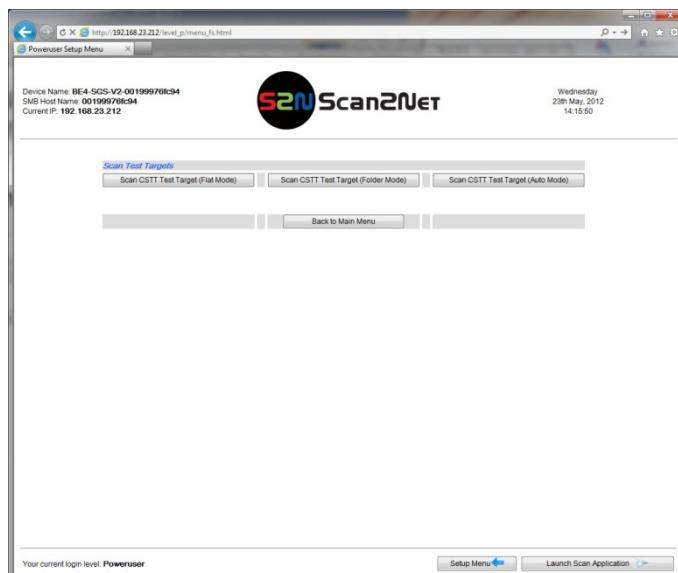
This setting is not activated for the Bookeye scanner.

D.6.3 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.

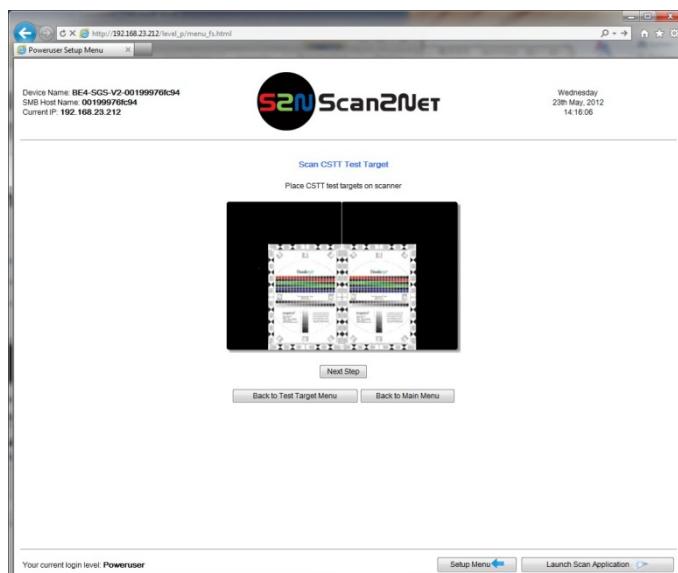
A button is available for each focus mode.



Picture 128: 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 129: Placing the CSTT test target

Next Step starts the scan sequence.

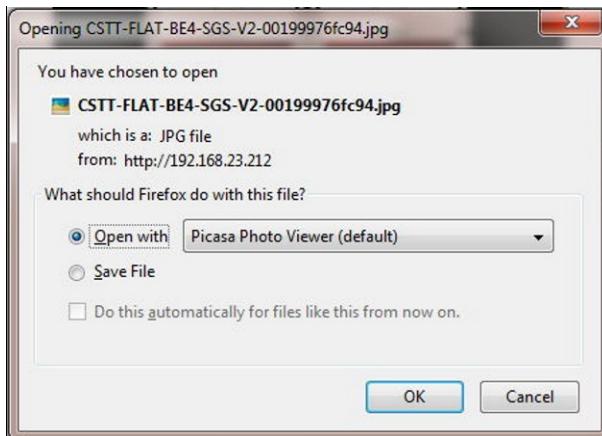
After scanning, the image will not be displayed.

A small window – depending on the browser used for scanning – opens.

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 130 shows as example the window of the Mozilla Firefox browser.



Picture 130: 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

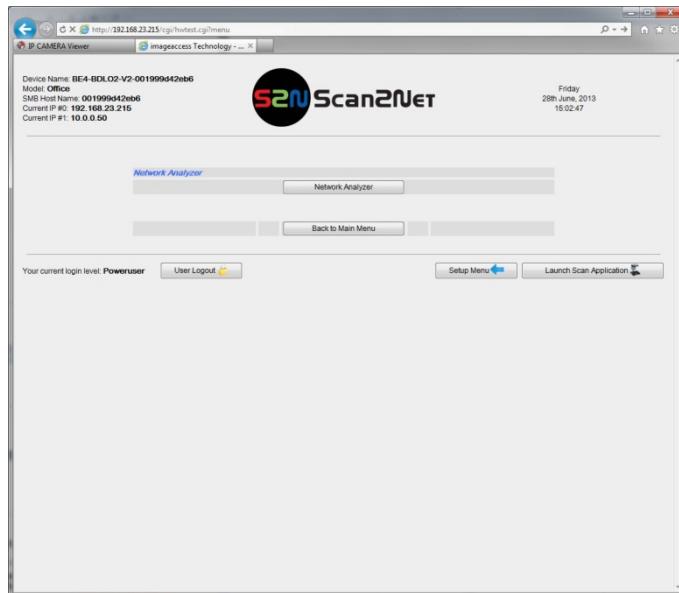
00199976fc94: Serial number of the scanner.

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.6.4 Hardware Test Suite

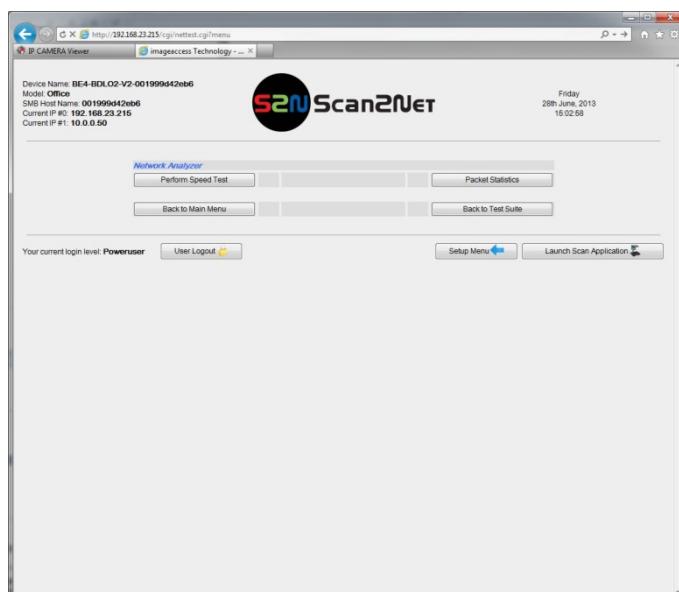
This menu has only one item, the network analyzer.



Picture 131: Hardware Test Suite start screen

D.6.4.1 Network Analyzer

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



Picture 132: Network Analyzer menu items

D.6.4.1.1 Perform Speed Test

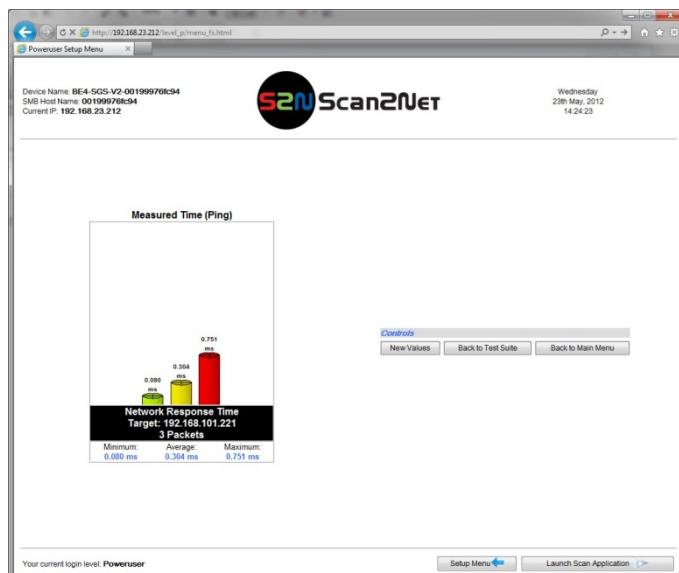
Click on **Perform Speed Test** to check the date transfer speed.



Picture 133: 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 **Poweruser** level start menu (Picture 131).

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



Picture 134: 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.6.4.1.2 Packet Statistics

Packet Statistics Shows the current network packet statistics.

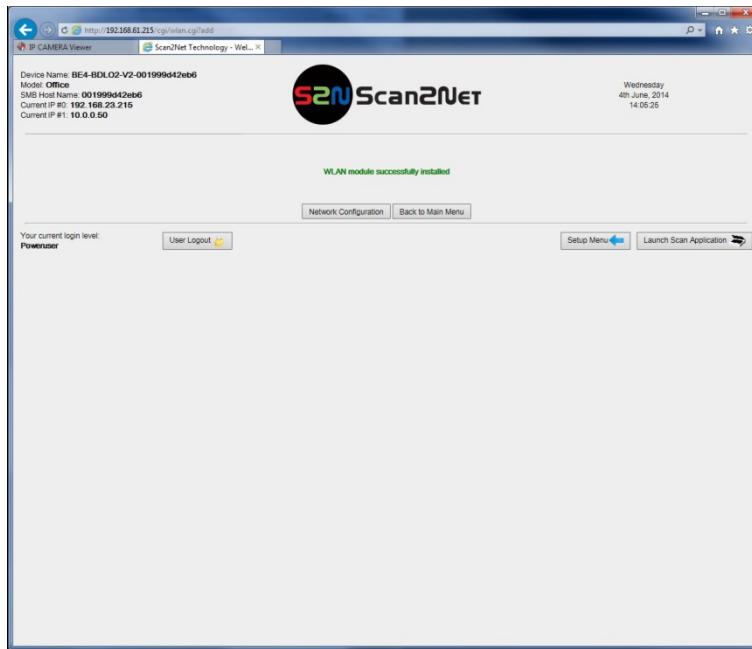


Picture 135: Packet Statistics values

D.7 Additional Hardware

D.7.1 Wireless LAN

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



Picture 136: WLAN module activated

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

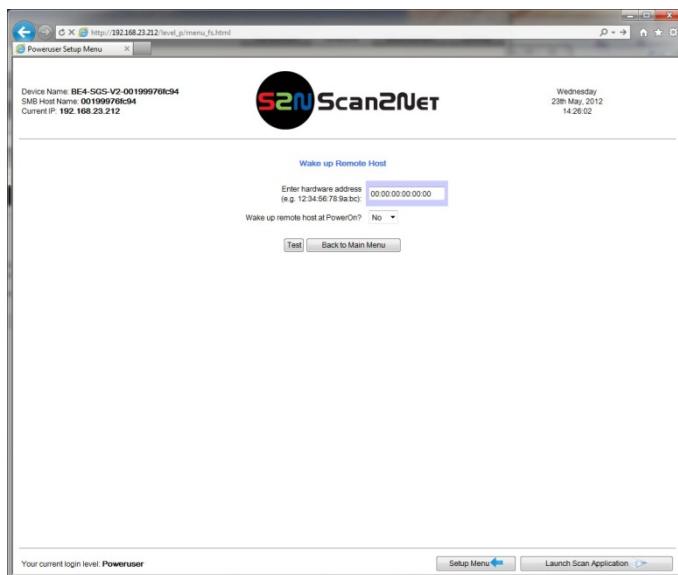
The button **Network Configuration** switches to the settings of the network parameters. See chapter D.4.2.

D.8 Administrative Settings

D.8.1 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 137: 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.

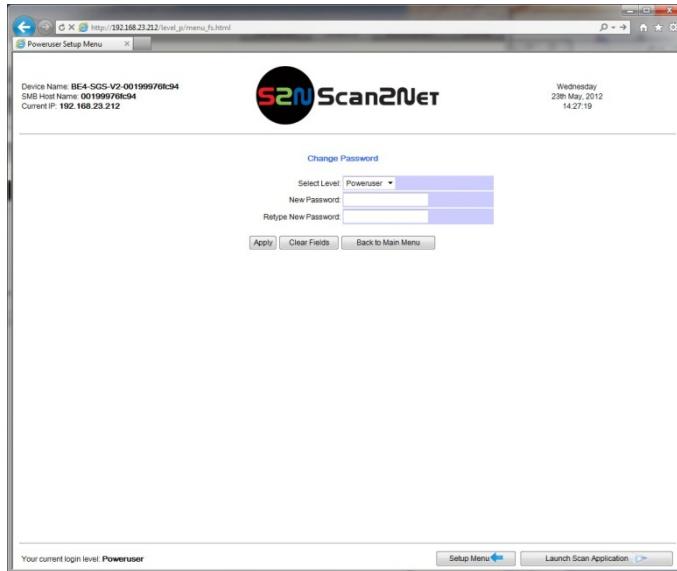
Enter hardware address Enter the MAC address of the network card of the PC here.

Wake up remote host at PowerOn **Yes** Starts the remote PC when the scanner is started.
No: Disabled the function.

D.8.2 Change Password

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

Click on **Change Password**.



Picture 139: 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 checks the syntax (upper and lower case) of the password.

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

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

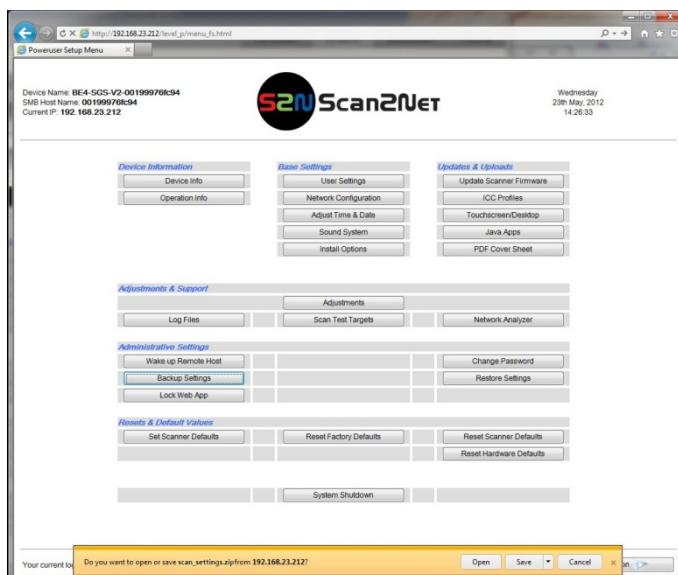
The screen returns to the start screen of the **Poweruser** level.

D.8.3 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 140 shows the small window at the bottom when using the “Internet Explorer 9”.



Picture 140: 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. |

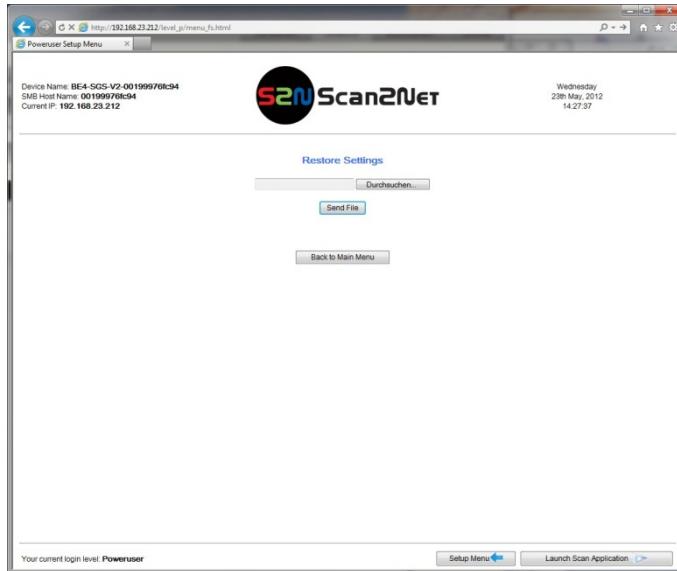
The ZIP archive contains printer specific settings, mail addresses for the data transfer via SMTP or the network settings for SMB network share.

Using this function is recommended in order to have the current settings available after the scanner has been reset to factory defaults (chapter D.9.2).

D.8.4 Restore Settings

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

Click on **Restore Settings**

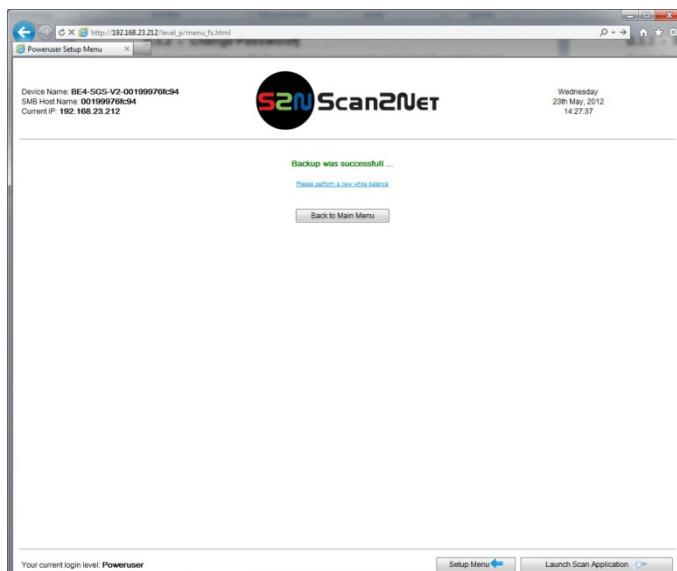


Picture 141: Restore setting from ZIP file

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.

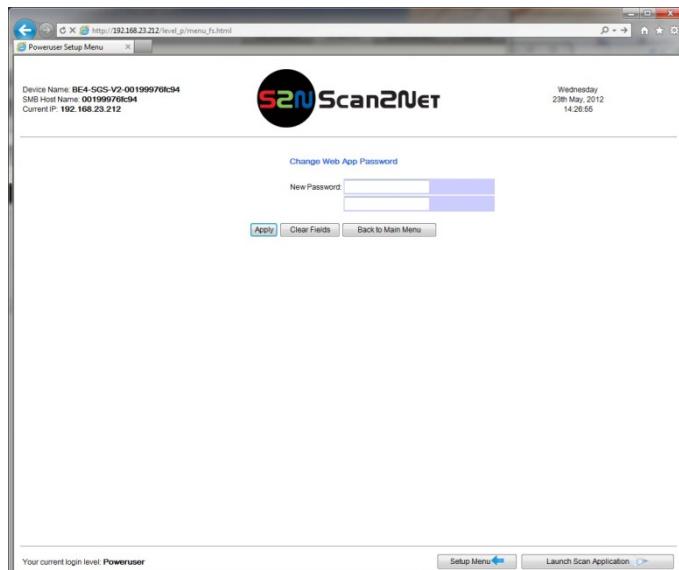


Picture 142: Message after restoring

D.8.5 Lock Web App

This function locks the Scan2Net user interface.

When the Scan2Net user interface is locked, the scanner can only be controlled by the touchscreen or by external software.



Picture 143: Enter password to lock the Scan2Net user interface

New Password Enter the new password.

Retype New Password Type the new password again.

Note: The system checks the syntax (upper and lower case) of the password.

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

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

D.8.6 Unlock Web App

This function unlocks the Scan2Net user interface.

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

D.8.7 Edit Disclaimer Text

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

D.9 Resets & Default Values

D.9.1 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.9.2 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.9.3 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.9.4 Reset Surface

This function resets the surface to factory defaults.

D.9.5 Reset Hardware Defaults

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

D.9.6 Set Default Passwords

This function resets all passwords to factory defaults.

E Technical Data / Caractéristiques techniques

E.1 Scanner Specifications

E.1.1 Bookeye® 4 –V2

Scan Area / Document Size

Maximum Scan Area [mm]	620 x 460 mm
	24.4 x 18 inch
Sensor resolution	400 dpi (Basic, Kiosk, Office) 600 dpi (Professional)
Scan resolution	400 x 400 dpi (Basic, Kiosk, Office) 600 x 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

E.1.2 Bookeye® 4 –V3 Specification

Scan Area / Document Size

Maximum Scan Area [mm]	390 x 480 mm
	15.4 x 18.9 inch
Sensor resolution	400
Scan resolution	400 x 400
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-E.1 Spécifications du scanner

F-E.1.1 Bookeye® 4 –V2

Zone de numérisation

Surface de numérisation maxi [mm]	620 x 460 mm
Résolution du capteur	400 dpi (Basic, Kiosk, Office) 600 dpi (Professional)
Résolution de numérisation	400 x 400 dpi (Basic, Kiosk, Office) 600 x 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

F-E.1.2 Bookeye® 4 –V3

Scan Area / Document Size

Surface de numérisation maxi [mm]	390 x 480 mm
Résolution du capteur	400
Résolution de numérisation	400 x 400
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.)

E.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-E.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	10 ... 93 % 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

E.3 Dimensions and Weight

E.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.

E.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-E.3 Dimensions et poids

F-E.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 955 x 580 mm (H x L x P)
Poids total du scanner, prêt à l'emploi	Approx. 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-E.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

E.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-E.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