Introduction

Dear Customer,

We congratulate you on the acquisition of this innovative product from Image Access. We at Image Access are proud of the work we do; it is the result of our extremely high standards of production and stringent quality control.

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

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

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

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

In addition please consider the following items:

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

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

For your daily work with the Bookeye® 4 scanner, we wish you success and complete satisfaction.

Regards

Your Image Access Team
About the Manual

Setup Manual

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

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

This manual is divided into sections that relate to specific topics.

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

Section B describes the scanner hardware and the first steps to take after the device has been delivered.

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

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

Section E describes the Recovery function.

Section F contains the error codes and the warning messages.

Section G shows all technical data of the scanners.
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<td>A</td>
<td>January 2011</td>
<td>First version as separate setup manual.</td>
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<td>E</td>
<td>June 2013</td>
<td>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.</td>
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<td>F</td>
<td>October 2013</td>
<td>Additional information added in chapter D.4 Base Settings</td>
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<tr>
<td>F1</td>
<td>November 2013</td>
<td>Chapter D.4.6.1 with new content added. Former chapters D.4.6.1 to D.4.6.9 renumbered.</td>
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<td>G</td>
<td>February 2014</td>
<td>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.</td>
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<td>H</td>
<td>July 2014</td>
<td>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.</td>
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<td>H2b</td>
<td>March 2015</td>
<td>Chapter D.4.1.9 Description of document cache settings added.</td>
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<td>K</td>
<td>January 2016</td>
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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!

LASER RADIATION
DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
CLASS 2M LASER PRODUCT
Wavelength: 630-670nm
Max. Power: 5mW
≥ 7.5mrad
Certified acc. IEC 60825-1:2008-05
F-A.1 Notes de sécurité

Lisez ces notes de sécurité et veillez à bien les comprendre.
Ces notes ont été rédigées pour assurer votre protection et votre sécurité.
Respectez toutes les notes de sécurité pour éviter d’endommager le dispositif.

F-A.1.1 Marquage des notes de sécurité

Toutes les notes de sécurité sont marquées par un panneau d’avertissement.
Vous trouverez une description du risque de sécurité à droite, à côté du panneau d’avertissement.

```
MISE EN GARDE!
<Texte avec description du danger potentiel.>
```

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

```
ATTENTION!
Laser Classe 1
Certifié conformément à IEC 60825-1:2008-05
Ne regardez pas dans le faisceau !
```

```
RAYONNEMENT LASER
NE PAS REGARDER DANS LE FAISCEAU
NI À L’OEIL NI À L’AIDE D’UN
INSTRUMENT OPTIQUE
APPAREIL À LASER DE CLASSE 2M
Longueur d’onde: 630-670nm
Performance max.: 5mW
≥ 7.5mrad
Certifié conformément à IEC 60825-1:2008-05
```
A.2 Safety Precautions

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

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

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

1. Openings in the scanner’s housing are provided for air circulation. Do not cover or block the openings.

2. Do not place the scanner near a heat or cold emitting source such as a space heater, furnace, or air conditioning unit.

3. Do not place the scanner near any devices or electrical boxes emitting high voltage.

4. Always place the scanner on a stable surface.

5. Do not place cups containing liquids or other such objects on the scanner or on the book cradles. If liquid spills into the scanner it can cause damage. If this occurs, turn the scanner off, unplug the power cord from the wall receptacle and contact the Image Access Technical Support.

6. Do not put any objects into any scanner housing openings unless specifically instructed to do so by Image Access Technical Support.

7. Do not disassemble the scanner. If there is a need to disassemble the scanner, please contact the Image Access Technical Support.

8. Do not use the scanner if it has been physically damaged. If this occurs, turn the scanner off, unplug the power cord from the power outlet and contact the Image Access Technical Support.

9. The scanner should be used only with the power supply that is delivered with the scanner. If you are unsure, please contact the Image Access Technical Support.

10. Image Access recommends plugging the scanner into an appropriately rated power outlet.

11. Always turn the power off and unplug the power cord from the power outlet before cleaning the scanner.

12. When cleaning, do not use any type of solutions, abrasives, or acids such as acetone, benzene, kerosene, mineral spirits, ammonia, or nitric acid. Do not use any cleaners that contain these chemicals.

13. Do not spray any liquids directly onto the scanner. Spray cleaning fluids directly onto the cleaning cloth and use the cloth to clean the scanner.
F-A.2   Précautions de sécurité

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

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

Respectez toutes les notes de sécurité pour éviter de vous blesser ou d’endommager le dispositif.
1. Des ouvertures sont pratiquées dans le boîtier du scanner pour la circulation de l’air. Ne couvrez ou n’obstruez pas ces ouvertures.
2. Ne placez pas le scanner à proximité d’une source de chaleur ou de froid telle qu’un radiateur électrique portatif, un poêle ou un appareil de climatisation.
3. Ne le placez pas près d’appareils ou de boîtiers électriques émettant une haute tension.
4. Posez toujours le scanner sur une surface stable.
5. Ne posez pas de tasses contenant des liquides ou d’autres objets similaires sur le scanner ou sur les berceaux de livres. Si un liquide est répandu sur le scanner, il risque de l’endommager. Si cela se produit, éteignez le scanner, débranchez le cordon d’alimentation de la prise de courant murale et contactez l’Assistance Technique de Image Access.
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.
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.
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 Bookeye® 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.

The transport box contains the scanner, accessories and reference targets. The box marked with (1) contains:

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

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

Please note: Keep the wooden transport box for future use! If the scanner needs to be returned to depot, it must be sent back in the original transport box to avoid transport damages.
B.1.2 Unpacking the Transport Box

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

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

![Picture 2: Detail view into the transport box](image)

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](image)

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](image)

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](image)
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](image)

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](image)
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**.

**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 …

…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.

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

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

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


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. Écran 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. Écran tactile : L’écran tactile affiche tous les menus utilisés pour paramétrer 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:

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

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

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

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

5. Turn the device off before plugging or unplugging any cable.

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

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

Red illumination of the Power button in the front panel signals that the Bookeye® 4 is in standby mode.
F-B.2 Raccordement à l'alimentation électrique

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

- Veillez à ce que la prise de courant soit en parfait état et qu'elle est correctement mise à la terre.
- Veillez à ce que la prise de courant soit munie d’un fusible d’une capacité adéquate.
- La prise de courant doit être à proximité de cet appareil et aisément accessible.
- Inspectez le câble d'alimentation et veillez à ce qu'il ne soit pas endommagé. Utilisez uniquement le câble d'alimentation fourni avec le scanner.
- Éteignez l’appareil avant de brancher ou de débrancher un câble.

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

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

Lorsque le bouton de marche/arrêt s'allume en rouge, cela signifie que le Bookeye® 4 est en mode de veille.
B.3.1 Starting the Bookeye 4

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

The button illumination changes to blue.

The scanner starts with self-test routines and verifies all system components. Status messages will be displayed on the TFT flat screen and on the WVGA color touchscreen.

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

---

B.3.2 Switching the Bookeye 4 to Standby Mode

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

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

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

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

The power down sequence will take a few seconds.

At the end of the power-down sequence the TFT flat screen and the touch screen will be turned off, and the **Power** button lights up red.
F-B.2.1 Mise en marche du Bookeye 4
Poussez le bouton **Power** lumineux sur le panneau pour démarrer le scanner.

La lumière de ce bouton devient bleue.
Le scanner démarre par des procédures d'auto-test et vérifie tous les composants du système. Des messages d'état seront affichés sur l'écran plat TFT et sur l'écran tactile.
A la fin de la séquence de démarrage, l'écran tactile affiche l'écran de démarrage.

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

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

Appuyez sur le bouton de marche/arrêt et restez appuyé dessus pendant au moins trois secondes. Pendant que vous appuyez sur le bouton, un "clic" devient audible.
Le contenu de l'écran plat TFT et de l'écran tactile change et vous voyez s'afficher le message : **Arrêt imminent de l'appareil …**
Pour finir, l'écran plat TFT et l'écran tactile s'éteignent et le bouton de marche/arrêt s'allumera en rouge.
C  The Touchscreen Setup Menu

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

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

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

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

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

![Touchscreen with home screen](image)

**Picture 16: Touchscreen with home screen**

C.1  Setting the Touchscreen Language

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

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

![Language list](image)

**Picture 17: Language list**

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

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

With a short delay the language of the touchscreen changes.
C.2 Activating the Setup Menu

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

![Symbol to activate the setup menu](image)

Enter in the login screen user name and password.

User login and password are: Poweruser

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

![Login window](image)

After entering the user login and the password tap on **Ok** to complete the entry.
The screen content changes and shows the setup menu start screen.

![Setup menu, start screen](image)

**Picture 20: Setup menu, start screen**

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

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

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

![Setup menu items](image)

**Picture 21: Setup menu items**

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

Touching the **Home** button returns the touchscreen from the setup menu to the user menu.
C.3 White Balance

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

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

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

Touch the **Calibrate** button.

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

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

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

Repeat the White Balance calibration after deleting the stored data.
C.4 Focus and Scan Area

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

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

C.4.1 Auto focus  Scan Start  DPI Adjust  Gear Correction

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

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

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

The results of the measurements are displayed on the touchscreen.

Touching the Back button returns to the Focus and Scan Area menu.
C.4.2  Laser Check

Picture 25: Reference target position
The book cradles must be closed. Place the reference target **BE4-Z-V2-A** on the book cradles as shown in the picture.

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

The results of the measurement are displayed on the touchscreen.

Remove the reference target.

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

Picture 26: Measurement in V-Mode position
Place two CSTT-2 targets with the white back side up at the book cradles. The touchscreen shows an illustration.

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

Again, the touchscreen shows the results.

Remove the reference targets from the book cradles.

After the calibration, press **Back** to return to the **Focus and Scan Area** menu.
C.5 Test Suite

The Testsuite menu delivers information about the following parameters:

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

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

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

- Available voltages for the mainboard and at the mainboard
- Input voltage of the external power supply.
- Voltage, generated on the mainboard.
- Voltage, available from the keyboard connector.
- Rotation speed of the fan / of the fans.
- Temperature of the mainboard.
- Temperature at other measuring points (if available).
C.6 IP Address

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

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

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

Enter the new values with the numeric keypad.

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

Cancel closes the window. All changes get lost.

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

Set network settings Saves the new and/or modified values when pressed.
Reset to Factory Resets all network parameters to factory default settings.
Reset network settings Resets all network parameters to previously defined value when pressed. Chapter D.8.1 describes how to save the parameters.
C.6.1 WLAN module settings

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

The name of the WLAN module will be displayed in this section in the upper line.
Beside the name the WLAN module can be activated and deactivated. Touch the selection arrow and selected On or Off.
The WLAN IP settings will be displayed in the same order like the settings of the scanner.
Modifying the values will be done in the same way as described in chapter C.6.

C.6.2 DHCP

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

DHCP On: The scanner network settings will be delivered from the DHCP server.
DHCP Off: The values for IP address, gateway and netmask must be entered manually.

C.6.3 Serial Number and Firmware Version

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

In the bottom line the serial number and the firmware version are displayed.
C.7 User Settings

The User Settings menu allows defining the touchscreen menu parameters.

Language selector

The currently selected language is displayed.

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

Touching the name of the desired language completes the selection.

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

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

Default

Returns all scanner settings to default values.

Change GUI

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

Configure GUI Selection

Opens a menu window that shows all available predefined settings, with a checkbox in front of the name. Chapter 0 describes more details.
Display standby after  Sets the time of inactivity after the external display and the touchscreen switches to standby. The touchscreen and the external display turn to black.

They will return after pressing the standby button or touching the touchscreen.

Screen Saver after  Sets the time of inactivity after the screen saver is activated.

Device standby after  Sets the time of inactivity after the scanner switches to standby mode. Click at the selection arrow and select the value from the list.

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

Volume  Click at the selection arrow to set the volume for audio signals.
C.7.1 Change GUI

![Change GUI menu](image)

Picture 31: Selectable presets

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

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

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

C.7.2 Configure GUI Selection

![Configure GUI Selection](image)

Picture 32: Presets selection screen

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

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

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

- **Single mode**: As default, the selected GUIs start in “Job mode”. Activate the checkbox here to start in “Single mode”.

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

After selecting the desired presets, touch the **Back** button to return to the previous screen.
C.8 Time and Date

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

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

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

Use the numeric keypad in order to enter digits.

Selecting the time zone

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

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

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

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

Reset time and date: Sets the values to default values when pressed.
C.8.1 Back to the Kiosk Application

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

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

![Scan2Net Start Screen](image)

**Picture 35: Scan2Net Start Screen**

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

- **Launch Scan Application** changes to the main screen of the user interface.
- **Setup Device** changes to the setup menu. Starting with the following chapter, the basics of the scanner configuration will be described.
- **Information** shows a list of basic information about the scanner, e.g. serial number, the firmware version, the IP address and many more.

Select **Setup Device** to open the Setup menu.
D.1 Login Level Screen

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

The button Launch Scan Application starts the Scan2Net scan application.
The button Back returns to the former screen.

![Picture 36: Login level screen](image)

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**.

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

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

Click on **Apply** to finish the entry.
D.2 Main Menu

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

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

**Picture 38: Poweruser level main menu**

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

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

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

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

Settings for additional hardware components, which are very rarely modified, are placed at the end.
D.2.1 Navigating through the menus

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

- **User Logout**: Always click on this button to leave the setup menu. This avoids unauthorized changes of the setup features. The browser shows the Scan2Net start screen (Picture 35).
- **Setup Menu**: Returns to the login level screen (Picture 36).
- **Launch Scan Application**: Switches to the main screen of the integrated ScanWizard user interface.

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

- **Back to Main Menu**: Returns to the *Poweruser* level main menu (Picture 38).

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

- **Download**: Downloads the currently displayed log to a text file with the extension “log”.
- **Refresh**: Refreshes the log file.
- **Back to Log File Menu**: Returns to the previous menu, where the desired log file can be selected.

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

- **Send File**: Transfers the selected data file to the scanner, e.g. to execute a firmware update.

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

- **Apply**: Transfers the unique key code of the option to the scanner.

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

- **New Values**: Repeats the measurement and shows the result.
D.3  Device Information

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

D.3.1  Device Info

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

![Picture 39: Device Info]

To return to the Poweruser level main menu click the button Back to Main Menu.
D.3.2 Operation Info

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

Picture 40: Operation Info
D.3.3 Log Files

D.3.3.1 Show Log Files

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

![Log files overview](image.jpg)

Picture 41: Log files overview

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

All logs can be saved as ASCII files.
Click on the button of the desired log file to view its contents.

![Selection box at the bottom of the screen](image)

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

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

A dialog box opens.

- **Open**: Opens the log file as ASCII file in a text editor (depends on the operating system).
- **Save**: Select between
  - **Save**: Saves the log file as ASCII file. File extension “log”.
  - **Save as**: Allows to save the same log file with a different name.
  - **Save and open**: Saves the log file and opens the log file in a text editor.
- **Exit**: Closes the dialog box.

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

**D.3.3.2 Stitching Log enabled**

The stitching function is not available with Bookeye scanners.
D.3.4 Scan Test Targets

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

The CSTT test target can be scanned in three different focus modes. A button is available for each focus mode.

![Focus modes for test scans](Picture 43)

Select the desired focus mode for the test scan.

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

![Placing the CSTT test target](Picture 44)

Next Step starts the scan sequence.
After scanning, the image will not be displayed.

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

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

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

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

![Picture 45: Request after scanning the test target](image)

The file name contains the following information:

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

CSTT: Test target name.

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

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

00199976fc94: Serial number of the scanner.

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

The test target image contains information which allows analysis of the current settings of the scanner and comparison with the factory settings.
D.4  Base Settings

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

D.4.1  User Settings

The section User Settings is divided into subsections.

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

D.4.1.1 Target User

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

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

**All**  The settings modified when the target user All is selected affects all users defined in the list.

**Self**  The settings defined here affects the currently active user.

**Default**  The settings defined with the target user Default are active when the scanner is reset to default settings.

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

![List of available users settings](image)

Picture 46: List of available users settings

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

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

### D.4.1.2 Language Selection

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

![Picture 47: Language selector](Image)

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

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

To return to the **Poweruser** level main menu click the button [Back to Main Menu](#).
D.4.1.3 File Name

**Please note:** Available from firmware version 6.08.

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

![Picture 48: File Name settings](image1)

Variables can be used in the file name. Click on the link **Wildcard characters** to list the available variables.

![Wildcard characters](image2)

An example of the resulting file name is displayed below in a separate line.
D.4.1.4 Power Saving

Note: The Power Saving screen is the start screen of the User Settings section. Use the function Power Saving to set the timers for the standby modes and the standby method. The available settings are displayed on the screen.

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.

<table>
<thead>
<tr>
<th>Standby mode</th>
<th>Available values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device standby</td>
<td>![Device standby list]</td>
</tr>
<tr>
<td>Display standby</td>
<td>![Display standby list]</td>
</tr>
<tr>
<td>Screen Saver</td>
<td>![Screen Saver list]</td>
</tr>
<tr>
<td>Laser standby</td>
<td>![Laser standby list]</td>
</tr>
<tr>
<td>Standby Method</td>
<td>![Standby Method list]</td>
</tr>
</tbody>
</table>

“Never” disables the power save function of the respective menu item.
D.4.1.5 Volume

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

![Picture 50: Set Volume](image)

A screen opens and shows a graphic to symbolize the volume level. Click on the scale to set the volume level or right-click with the mouse at the arrow and move the arrow to the desired value while holding the mouse button pressed.

To return to the previous screen click the button **Back to Main Menu**.
D.4.1.6 Foot Pedal

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

![Picture 51: Foot pedal settings](image)

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

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

![Picture 52: Functions for the foot pedal](image)

<table>
<thead>
<tr>
<th>Drop-down list item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start scan</td>
<td>Starts the scan with the selected scan area size.</td>
</tr>
<tr>
<td>Start scan left page</td>
<td>Starts the scan and displays the left page of the selected scan area size.</td>
</tr>
<tr>
<td>Start scan right page</td>
<td>Starts the scan and displays the right page of the selected scan area size.</td>
</tr>
</tbody>
</table>
D.4.1.7 Glass Plate

Available with software 6.x or higher.

Picture 53: Shows glass plate parameters if installed

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

This feature will be used in a coming software version.
D.4.1.8 Display

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

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

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

Select the desired resolution from the list.

Restart the scanner to activate the setting.

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

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

Restart the scanner to activate the setting.
D.4.1.9 Splitting Start Page

The availability depends on the Bookeye® 4 scanner model.

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

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

Picture 55: Splitting start page

The selected start page is highlighted.

Click on the radio button to change the selected page.
D.4.1.10 Secure File Erasing

New with software 6.x or higher.

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

Picture 56: List of available erasing methods

Click on the selection arrow to open the list of erasing methods.
Select the desired method by clicking on the methods name.
D.4.1.11 Document Cache

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

![Document cache selector](image.png)

**Picture 57: Document cache selector**

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

**RAM disk:** Default setting:
Images will be stored in **Job** mode only in the RAM disk.
That means: Power off ➔ Data gone
When the **Job** mode is finished, the data will be deleted automatically.

**Harddisk** (volatile mode): The data will be stored at the integrated hard disk.
The advantage in comparison to RAM disk is that a greater amount of images can be stored on the hard disk.
That means: Power off ➔ Data gone
When the **Job** mode is finished, the data will be deleted automatically.

**Harddisk** (persistent mode): The data will be stored permanently at the hard disk.
This mode is used in conjunction with applications that open more than one job at the same time.
D.4.1.12 Watermarks

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

![Image of Watermark settings](image)

**Picture 58: Set Watermark position**

Select from the list the desired position of the watermark text. The watermark will be inserted in every image at the defined position.
D.4.1.13   Show Warnings

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

![Show Warnings selector](image)

**Picture 59: Show Warnings selector**

D.4.1.14   Validate Certificates

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

![Activate/deactivate certificate validation](image)

**Picture 60: Activate/deactivate the certificate validation**
D.4.1.15 OCR

The availability depends on the Bookeye® 4 scanner model.

Select Yes in order to add the resulting text as additional layer to the PDF file after using the OCR function.
D.4.2 Network Configuration

The section Network Configuration is divided in subsections.

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

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

Important, when configuring network settings:

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

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

A note will inform you at the respective menu items.
D.4.2.1 IP Configuration Method

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

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

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

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

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

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

**Important for the next steps:**
After changing the network settings, enter the new IP address of the scanner in your browser and reopen the **Poweruser** main menu as previously described.
D.4.2.2 IPv4 (Network Interface 0)

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

![Picture 63: Settings of IPv4 (Network Interface 0)]

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

**IP address**

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

**Subnet Mask**

Enter the value for the subnet mask.

**Default Gateway**

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

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

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

Depending on the browser used, it is necessary to delete the browser cache before the scanner is accessible.
D.4.2.3 IPv4 (Network Interface 1)

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

![Network Configuration](image)

**Picture 64: Settings of IPv4 (Network Interface 1)**

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

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

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

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

- **Subnet Mask**
  - Enter the value for the subnet mask.

- **Default Gateway**
  - Enter the value for the gateway.

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

**Note:** Depending on the browser to be used, it is necessary to delete the browser cache before the scanner is accessible.
D.4.2.3.1 Solving a routing conflict in a network

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

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

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

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

1. Note the network settings of the existing network, in which the scanner should be integrated.

2. The “Network Interface 0” parameters of the scanner must be set temporarily to the factory values. This can be done directly from the touchscreen (see chapter C.6).
   - IP address: 192.168.1.50
   - Subnet mask: 255.255.255.0
   - Default gateway: 192.168.1.50

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

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

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

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

7. Select Base Settings ➔ Network Configuration ➔ Wireless LAN (LAN Interface). See chapter D.4.2.8. Set the parameters for the WLAN module as follows:
   - IP address: 172.16.0.1
   - Subnet mask: 255.255.255.0
   - Default gateway: 172.16.0.1

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

8. Select Base Settings ➔ Network Configuration ➔ IPv4 (Network Interface 1). See chapter D.4.2.3. Set the parameters for “Network Interface 1” as follows:
   - IP address: 172.16.0.50
   - Subnet mask: 255.255.255.0
   - Default gateway: 172.16.0.50

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

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

The same procedure can be executed when the WLAN module with IP address 172.16.0.50 should be used in a network that is configured in the address range 172.16.0.x/24 or 172.16.x.x/16. Adapt the network address accordingly.
D.4.2.4 Domain Name Server

This section defines the parameters for the Domain Name Server.

![Image of Domain Name Server parameters](image)

**Picture 65: Domain Name Server parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain Name</td>
<td>Enter the domain name here.</td>
</tr>
<tr>
<td>Primary DNS Server</td>
<td>Enter the address of the primary DNS server here.</td>
</tr>
<tr>
<td>Secondary DNS Server</td>
<td>Enter the address of the secondary DNS server here.</td>
</tr>
</tbody>
</table>
D.4.2.5 SMB Settings

This section defines the parameters for the **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.

![Firewall settings](image)

The standard ports for the protocols are displayed in brackets.

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

After modifying the values click on **Apply** to transfer the modified settings.
D.4.2.7 Wireless LAN (Basic Settings)

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

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

![Picture 68: Wireless LAN Basic Settings](image)

**Note:** The default settings are recommended.

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

After modifying the WLAN parameters, click on [Apply] to transfer the new settings.

Follow the note regarding the reboot sequence.
D.4.2.8 Wireless LAN (LAN Interface)

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

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

![Image of Wireless LAN (LAN Interface)](image)

The WLAN modules differ in the IP address which is available for communication. The IP address which can be entered here must fulfil two criteria:

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

**IP address**

Enter the IP address of the WLAN module.

**Subnet Mask**

Enter the value for the subnet mask.

**Default Gateway**

Enter the value for the gateway.

After modifying the network parameters, click on [Apply] to transfer the new settings to the scanner. The scanner is now accessible with its new IP address.
D.4.2.9 Wireless LAN (Security)

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

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

The screen shows the parameters for wireless LAN security.

**Encryption**

- **None:** No encryption, no security.
- **WPA 2:** Recommended.
  Encryption according to the WPA 2 standard, high security.

**Passphrase**

Enter a string as passphrase here.

After modifying the parameters, click on **Apply** to transfer the settings to the scanner.
D.4.2.10 Wireless LAN (DHCP)

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

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

Click in the corresponding fields and enter the start IP address and the end IP address to define the address range that can be used.
D.4.3 Adjust Time & Date

The section Adjust Time & Date is divided into subsections.

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

The description here starts with the Time Format screen.

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

Select the time zone. See chapter D.4.3.2.
Set your local time with the manual adjustment. See chapter D.4.3.3.
Establish a connection to an NTP server. See chapter D.4.3.4.
D.4.3.1 Time Format

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

![Picture 72: Time Format](image)

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

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

<table>
<thead>
<tr>
<th>Time Format 12h</th>
<th>Time Format 24h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display from 00:00 to 11:59</td>
<td>Dienstag 8. Oktober 2013 10:38:03 AM Uhr</td>
</tr>
<tr>
<td></td>
<td>Dienstag 8. Oktober 2013 10:38:21 Uhr</td>
</tr>
<tr>
<td>Display from 12:00 to 23:59</td>
<td>Dienstag 8. Oktober 2013 1:37:28 PM Uhr</td>
</tr>
<tr>
<td></td>
<td>Dienstag 8. Oktober 2013 13:37:05 Uhr</td>
</tr>
</tbody>
</table>
D.4.3.2 Time Zone

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

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.

Picture 73: Time Zone screen
D.4.3.3 Manual Adjustment

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

![Picture 74: Manual Adjustment](image_url)

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

Select from the list. The new value will be transferred directly to the system clock and is displayed in the headline of the Scan2Net interface.
D.4.3.4 NTP Server

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

**Picture 75: NTP Server setting**

To connect to an NTP server, the scanner must have a connection to the internet. Ask your network administrator for special information concerning your local network.

**Adjust time at system start?**

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

**NTP Server**

Enter the IP address of the NTP server here.

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

Finally click on **Adjust time now** to read the information from the NTP time server and to transfer to the scanner.
D.4.4 Sound System

The section Sound System is divided into three subsections.

The Sound System start screen is the Set Volume screen.

D.4.4.1 Set Volume

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

Picture 76: Set Volume

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

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

To return to the previous screen click on Back to Main Menu.
D.4.4.2 Sound Files

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

Picture 77: Sound Files list

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

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

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

Click on this icon to delete the file.
D.4.4.3 Link Events

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

![Link Events list](image)

**Picture 78: Link Events list**

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

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

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

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

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

Select the desired sound file from the list.

Click on the loudspeaker symbol to play the sound.
D.4.5 ICC Profiles

The section ICC Profiles is divided into the subsections

- Scanner Profile
- Monitor Profiles
- Printer Profiles

ICC profiles are integrated in the image file data.

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

D.4.5.1 Scanner Profile

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

Click on this icon to display the scanner profiles.

![Scanner Profiles]

**Picture 79: Scanner Profiles**

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

The section Upload new ICC profile shows two functions:

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

- **Send File**
  Click the button to upload the selected file to the scanner.
The installed profiles are displayed in the list.

<table>
<thead>
<tr>
<th>Color Space</th>
<th>ICC Profile</th>
<th>Information</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>ActiveD188</td>
<td>Scanner Profile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target</td>
<td>Scanner Profile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td>A scanner ICC profile is installed</td>
<td>Information</td>
<td>Delete</td>
</tr>
</tbody>
</table>

**Picture 80: ICC profile installed**

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

**Picture 81: Scanner ICC profile information**

Click on this icon to delete the selected profile.
D.4.5.2 Monitor Profiles

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

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

![Monitor Profiles](image)

Already installed profiles will be displayed in a list.

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

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

- **Send File**
  
  Click the button to load the selected file to the scanner.

After uploading, the ICC profile will be displayed in the monitor profile list.
The installed monitor profiles are displayed in the list.

![List of monitor ICC profiles](image)

**Picture 83: List of monitor ICC profiles**

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

![Information](image)

**Picture 84: Monitor ICC profile information**

Click on this icon to delete the selected monitor file.

![Delete](image)

**Selecting the ICC profile to be used:**

Select section **User Settings**, function **Display** (see chapter D.4.1.8) and select the ICC profile as described.
D.4.5.3 Printer Profiles

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

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

![Printer Profiles](image)

### Picture 85: Printer Profiles

Already installed profiles will be displayed in a list.

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

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

- **Send File**
  - Click the button to load the selected file to the scanner.

After uploading, the ICC profile will be displayed in the printer profile list.
Click on this icon to get information about the installed printer profile.

![Image of printer profile information](image.png)

**Picture 86: Details printer profile**

Click on this icon to delete the selected printer profile.

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

Click beside the matching printer at **Setup**.

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

Select ICC Profile.
D.4.6 Touchscreen

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

D.4.6.1 Touchscreen

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

Picture 87: Touchscreen screensaver

The installed screensavers are listed.

- **Delete**
  - Click on this icon symbol to delete a screensaver.

**Background color**
- Click on the selection arrow to open the list of available colors.
- Select the desired background color from the list with a mouse click.

**Text color**
- Click on the selection arrow to open the list of available colors.
- Select the desired text color from the list with a mouse click.

**Text size**
- Click on the selection arrow to open the list of available sizes from 50 to 400.
- Select with a mouse click.

**Edit text screensaver**
- Enter the desired text here.
- Click on **Apply** to transfer the text to the scanner.

**Upload new screensaver GIF animation**
- Click on **Search** to search the directories of your local PC and/or your network for a suitable file.
- Click on **Send File** to transfer the selected file to the scanner.

A message signalizes the end of the upload sequence.

To activate the changes, restart the scanner.
D.4.6.2 Desktop

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

The installed background images are listed on the screen.

**Click on this icon symbol to delete a screensaver.**

**Show QRCode** Select **Yes** to display on the screen a QR code with information which can be decoded with an appropriate application.

**Upload new desktop image** 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 89: Preview of desktop image](image)

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

To activate the changes, restart the scanner.
D.4.6.3 Lock Screen

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

![Background images list](image)

**Picture 90: Background images list**

Click on this icon symbol to delete a desktop image

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

Scroll to the bottom of the window and click on **Back to Touchscreen / Desktop Menu** to return to the previous screen.
D.4.7 Touchscreen GUI

GUI: Graphic User Interface

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

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

![Touchscreen GUI](image)

**Picture 91: Kiosk App selection**

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

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

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

  Otherwise the batch mode is activated as default.

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

  Click on this icon symbol to delete a GUI or an application.
Click on this icon to get information about the application.

The browser shows information about the selected GUI.

Click on **Back to Java App Menu** to return to the former browser screen.

**Picture 92: Information about application**

Click on **Search** in order to find a JAVA based application.
Select the desired file.
Click on **Send File** in order to upload the file to the scanner.

Click on **Search** in order to find an HTML based application.
Select the desired file.
Click on **Send File** in order to upload the file to the scanner.

Click here to activate the changes.
D.4.8  Job List

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

Click on the selection arrow.
Select a value from the list.

Select **Never** to disable this function.
D.4.9  **PDF Cover Sheet**

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

![PDF Cover Sheet](image)

**Picture 94: PDF Cover Sheet**

The preinstalled cover sheets are displayed in the list.

- Click on this icon symbol to delete a PDF cover sheet from the list.
- Click on the “View” symbol to open the selected file with your associated PDF viewer software.
- **Upload new PDF cover sheet** Click on the **Search** button to search the directories of your local PC and/or your network for a Java Application file.
- Click on **Send File** to transfer the selected file to the scanner.
D.4.10 Watermarks

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

![Watermark list and text editor](image)

**Picture 95: Watermark list and text editor**

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

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

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

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

- **Text color**
  - **Text size**

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

- **Edit text watermark**

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

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

- **Upload new watermark PNG image**

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

- **Send File**

  Transfers the selected image to the scanner.
D.4.11  Edit Disclaimer Text

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

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

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

![Picture 96: Editor for disclaimer text](image)

Click in text screen to edit the text.  
**Apply**  
Click here, to save the edited text.
D.4.12 Certificates

Shows detailed server certificate information.

Picture 97: Certificate content

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

Upload Server Certificate/Keyfile (Zip)

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

[Send File] transfers the data to the scanner.
D.4.13 OCR

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

![List of languages of the OCR module]

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

Click at **Search**.
D.4.14 Templates

The section Templates contains all settings for the data output.

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

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

**All:** Shows all available templates.

**Self:** Shows the templates available for the user who is currently logged-in to the scanner.

**Default:** Shows the configurable outputs available as standard.

The following description of the templates uses the Owner Filter “All”.

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

To open the templates, just click the respective link.

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

**Name, Privacy and Public**

These field names are shown in every setting.

![Selector for Name, Privacy and Owner](image)

**Picture 99: Selector for Name, Privacy and Owner**

- **Name** Enter the name for the template here.
- **Privacy** Select the privacy level from the list. Available are:
  - **Public** Available for every user.
  - **Private** Only for users logged-in to the scanner.
  - **System** Only for system function, used by the administrator
  - **User** Available for the currently logged-in user.
- **Owner** Select the name from the user list.
D.4.14.1 Exclusion of Wildcard Characters for Jobmode Scanning

Please note: Valid for firmware before V 6.08.

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

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

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

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

This limitation affects the settings in the following chapters:

D.4.14.3 FTP Server
D.4.14.4 Mail Server
D.4.14.5 SMB
D.4.14.6 Web Service
D.4.14.7 USB Storage Configuration
D.4.14.2 Remote Printer

The data output **Remote Printer** sends the images after scanning to a previously defined network printer.
D.4.14.2.1 Setup

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

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

**Please note:** Each change of an entry field is transferred to the scanner immediately.
Remote Printer, continued

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Type</td>
<td>Select <strong>Homegroup Network</strong> or <strong>Workgroup Network</strong>.</td>
</tr>
<tr>
<td>Password</td>
<td>Enter the password for the Homegroup Network.</td>
</tr>
<tr>
<td>(with SMB Printer Queue)</td>
<td></td>
</tr>
<tr>
<td>Homegroup Network</td>
<td></td>
</tr>
<tr>
<td>Server Authentication</td>
<td>Select <strong>Yes</strong> or <strong>No</strong>.</td>
</tr>
<tr>
<td>(with SMB Printer Queue)</td>
<td></td>
</tr>
<tr>
<td>Workgroup Network</td>
<td></td>
</tr>
<tr>
<td>Login</td>
<td>If Server Authentication is set to <strong>Yes</strong>, enter the login here.</td>
</tr>
<tr>
<td>(with SMB Printer Queue)</td>
<td></td>
</tr>
<tr>
<td>Workgroup Network</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td>If Server Authentication is set to <strong>Yes</strong>, enter the password for the printer here.</td>
</tr>
<tr>
<td>(with SMB Printer Queue)</td>
<td></td>
</tr>
<tr>
<td>SMB Path</td>
<td>Enter the path of the directory where the printer is established.</td>
</tr>
<tr>
<td>(with SMB Printer Queue only)</td>
<td></td>
</tr>
<tr>
<td>Data Format</td>
<td>Choose the data format of the remote printer. The supported formats are:</td>
</tr>
<tr>
<td></td>
<td>• HP Color LaserJet Series</td>
</tr>
<tr>
<td></td>
<td>• HP LaserJet Series</td>
</tr>
<tr>
<td></td>
<td>• Postscript</td>
</tr>
<tr>
<td></td>
<td>• Postscript (PJL)</td>
</tr>
<tr>
<td></td>
<td>• HP DesignJet Series</td>
</tr>
<tr>
<td></td>
<td>• Native Image Format (JPEG, TIFF, PDF)</td>
</tr>
<tr>
<td></td>
<td>• Konica Minolta Bizhub Series</td>
</tr>
<tr>
<td></td>
<td>• PDF (PJL)</td>
</tr>
<tr>
<td></td>
<td>Changing the data format will change some of the options in this configuration window.</td>
</tr>
<tr>
<td>Data Compression</td>
<td>Select the data compression of the data to be sent to the printer.</td>
</tr>
<tr>
<td>(not with all Data Formats)</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>Select the printing resolution. If an exact 1:1 copy of the scanned document is required, the scanning resolution and printing resolution must match.</td>
</tr>
<tr>
<td>(not with Native Image Format)</td>
<td></td>
</tr>
<tr>
<td>Paper Format</td>
<td>Choose the paper format for the output.</td>
</tr>
<tr>
<td>(not with HP Design Jet, Native Image Format, PDF (PJL))</td>
<td></td>
</tr>
<tr>
<td>Fit to Page</td>
<td><strong>Yes</strong> / <strong>No</strong></td>
</tr>
<tr>
<td>(with HP Color LaserJet Series / LaserJet/ DesignJet Series only)</td>
<td></td>
</tr>
<tr>
<td>Margins (1/10 mm)</td>
<td>Add the size of the desired margins into the corresponding fields.</td>
</tr>
<tr>
<td>(with HP Color LaserJet Series / HP LaserJet Series only)</td>
<td>Position the cursor with the mouse in the field and enter the value with the PC keyboard.</td>
</tr>
</tbody>
</table>
### Remote Printer, continued

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

### Printing Enhancement

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

**Please note:** Each change to an entry field is transferred to the scanner immediately.
Accounting
Only available with Konica Minolta Bizhub Series

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Yes / No</td>
</tr>
<tr>
<td>Account Name</td>
<td>Enter the account name here.</td>
</tr>
<tr>
<td>Use Password</td>
<td>Yes / No</td>
</tr>
<tr>
<td>Account Password</td>
<td>Enter the password for the accounting here.</td>
</tr>
<tr>
<td>Hold Job</td>
<td>Yes / No</td>
</tr>
<tr>
<td>Job Type</td>
<td>Public / Private</td>
</tr>
<tr>
<td>Hold Key</td>
<td>Enter the hold key here.</td>
</tr>
<tr>
<td>Job ID</td>
<td>Enter the ID for the job here.</td>
</tr>
</tbody>
</table>

Please note: Each change to an entry field is transferred to the scanner immediately.
D.4.14.3 FTP Server

![FTP Server](image)

**Picture 103: Template list for FTP Server**

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

D.4.14.3.1 Setup

![FTP Server parameters](image)

**Picture 104: FTP Server parameters**
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a FTP Proxy?</td>
<td>Switch on/off the use of an FTP proxy for connecting to a remote FTP server outside the local network.</td>
</tr>
<tr>
<td>FTP Proxy Address</td>
<td>Specify the IP address of the FTP proxy.</td>
</tr>
<tr>
<td>Port (if FTP Proxy = Yes)</td>
<td>Specify the IP port of the FTP proxy.</td>
</tr>
<tr>
<td>Address</td>
<td>Enter the IP address of the remote FTP server.</td>
</tr>
<tr>
<td>Port (21)</td>
<td>Enter the IP port of the remote FTP server. Default is port 21.</td>
</tr>
<tr>
<td>Server Authentication</td>
<td>Select the authentication method.</td>
</tr>
<tr>
<td>Login (not with “Anonymous FTP”)</td>
<td>Enter the login name.</td>
</tr>
<tr>
<td>Password (not with “Anonymous FTP”)</td>
<td>Enter the password for the login at the remote FTP server. The password is stored using encryption.</td>
</tr>
<tr>
<td>Upload Path</td>
<td>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. <strong>Note:</strong> You must have a valid login for browsing the directory structure.</td>
</tr>
<tr>
<td>File name</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Configuration Test:** Click on this link to test the settings. A separate window will open, showing the results of the test.

**Please note:** Each change to an entry field is transferred to the scanner immediately.
D.4.14.4 Mail Server

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

D.4.14.4.1 Setup

Picture 106: Mail Server parameters
### Parameter Description

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

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

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

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

**Please note**: Each change to an entry field is transferred to the scanner immediately.
D.4.14.5 SMB Share

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

D.4.14.5.1 Setup

Picture 107: Template list for SMB Configuration

Picture 108: SMB Configuration parameters
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port (139)</td>
<td>Enter the IP port for the SMB network communication. Default is port 139.</td>
</tr>
<tr>
<td>Network Type</td>
<td>Select between <strong>Workgroup Network</strong> and <strong>Homegroup Network</strong>. For detailed information about the correct network type ask your network administrator.</td>
</tr>
<tr>
<td>Server Authentication</td>
<td>Select the authentication method. Set to <strong>YES</strong> if an authentication is required.</td>
</tr>
<tr>
<td>(only with Workgroup Network)</td>
<td></td>
</tr>
<tr>
<td>Login</td>
<td>Enter the user name on the Windows workstation/file server which you want to connect to.</td>
</tr>
<tr>
<td>Password</td>
<td>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.</td>
</tr>
<tr>
<td>SMB Path</td>
<td>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. <strong>Note:</strong> A valid login for browsing the directory structure is necessary.</td>
</tr>
<tr>
<td>File Name</td>
<td>Enter the file name. A time stamp will be added to this prefix to form the complete file name.</td>
</tr>
</tbody>
</table>

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

**Please note:** Each change to an entry field is transferred to the scanner immediately.
D.4.14.6  Web Service

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

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

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

![Template list for Web Service Configuration](image)

Picture 109: Template list for Web Service Configuration
### D.4.14.6.1 Setup

#### Picture 110: Web Service parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a Proxy?</td>
<td>Switch on/off the use of a proxy for connecting to a remote server outside the local network.</td>
</tr>
<tr>
<td>Proxy Address</td>
<td>Specify the IP address of the proxy.</td>
</tr>
<tr>
<td>HTTP Proxy Port</td>
<td>Enter the port for HTTP communication.</td>
</tr>
<tr>
<td>HTTPS Proxy Port</td>
<td>Enter the Port for HTTPS communication.</td>
</tr>
<tr>
<td>Proxy Authentication</td>
<td>Select <strong>Yes</strong> if an authentication should be used.</td>
</tr>
<tr>
<td>Proxy User</td>
<td>Enter here the user name for using the proxy.</td>
</tr>
<tr>
<td>Proxy Password</td>
<td>Enter here the Proxy password.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Web Service</td>
<td>Select from the list the web service where the data should be stored.</td>
</tr>
<tr>
<td></td>
<td>Available are:</td>
</tr>
<tr>
<td></td>
<td>• WebDAV</td>
</tr>
<tr>
<td></td>
<td>• Google Docs</td>
</tr>
<tr>
<td></td>
<td>• Google Picasa</td>
</tr>
<tr>
<td></td>
<td>• Post Method</td>
</tr>
<tr>
<td></td>
<td>Depending on the selected web service the next parameters will vary.</td>
</tr>
<tr>
<td>Server URL</td>
<td>Click on the selection arrow and select the protocol. Enter the server URL.</td>
</tr>
<tr>
<td>(only with WebDAV</td>
<td></td>
</tr>
<tr>
<td>and Post Methode)</td>
<td></td>
</tr>
<tr>
<td>Port</td>
<td>Default with http: 80</td>
</tr>
<tr>
<td>(only with WebDAV</td>
<td>Default with https: 443</td>
</tr>
<tr>
<td>and Post Methode)</td>
<td>The value can vary in dependence of the network structure.</td>
</tr>
<tr>
<td>Login</td>
<td>Enter your login for the selected web service.</td>
</tr>
<tr>
<td>(With Post Methode</td>
<td>only if Authentication = Yes)</td>
</tr>
<tr>
<td>Password</td>
<td>Enter your password</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Collection</td>
<td>Enter the name of the directory where the files should be stored.</td>
</tr>
<tr>
<td>(only with WebDAV)</td>
<td></td>
</tr>
<tr>
<td>Upload Mode</td>
<td>Select the data format. Currently the file size for the data format “Document” and “File” is limited to 1 MB.</td>
</tr>
<tr>
<td>(only with Google Docs)</td>
<td>If “Document” is selected, a new document will be opened and the image will be imported into the document.</td>
</tr>
<tr>
<td></td>
<td>If “File” is selected, the image will be stored as it is.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Subfolder</td>
<td>Select the subfolder where the images should be stored.</td>
</tr>
<tr>
<td>(only with Google Docs)</td>
<td></td>
</tr>
<tr>
<td>Web Album</td>
<td>Select an album in your Google Picasa account where the images should be stored.</td>
</tr>
<tr>
<td>(only with Google Picasa)</td>
<td></td>
</tr>
<tr>
<td>File Name</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

**Please note:** Each change to an entry field is transferred to the scanner immediately.
D.4.14.7 USB Storage Configuration

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

![Picture 111: Template list for USB Device]

D.4.14.7.1 Setup

![Picture 112: USB Device parameters]

**Note:** An USB device must be connected to one of the two USB connectors at the front side of the scanner to get list displayed in Picture 112.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition</td>
<td>Shows the status and available memory of the actual mounted partition on the connected USB flash device.</td>
</tr>
<tr>
<td>Directory</td>
<td>Allows the user to choose a subdirectory on the connected USB drive for storing the scans.</td>
</tr>
<tr>
<td>File name</td>
<td>Shows the current setting of wildcard characters for the automated naming scheme of each produced image file.</td>
</tr>
</tbody>
</table>

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

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

### D.4.14.7.2 List of suitable USB storage media

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

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

The file system EXT4, BTRFS, UFS, ZFS or exFAT currently will not be supported.
D.4.14.8 Metadata

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

Picture 113: Template list for Metadata
D.4.14.8.1 Setup

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

Please note: Each change to an entry field is transferred to the scanner immediately.
D.4.14.9  PDF Document

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

PDF documents can be displayed with all common PDF viewers.

![Picture 115: Template list for PDF document]
## D.4.14.9.1 Setup

![PDF Document parameters](image)

### Picture 116: PDF Document parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF Standard</td>
<td>Click on the selection arrow and select the desired PDF standard from the list</td>
</tr>
<tr>
<td>Security System</td>
<td>Click on the selection arrow and the desired security system from the list.</td>
</tr>
</tbody>
</table>
Picture 117: LDAP Directory Service templates
D.4.14.10.1 Setup

![LDAP Directory parameters](image)

**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
Server Authentication | Yes / No
Bind (with Server Authentication = Yes) | Enter the desired value here.
Password (with Server Authentication = Yes) | Enter the password here.
BaseDN | Enter the desired value here.
Base | Click on the selection arrow and select from the list.
Search String | Enter the search string here.

**Please note:** Each change to an entry field is transferred to the scanner immediately.
D.4.14.11 OCR

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

For this purposes some templates are pre-installed.

Picture 119: List of OCR templates
### D.4.14.11.1 Setup

![Setup Interface](image.png)

**Picture 120: Settings of the OCR module**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OCR engine</strong></td>
<td>Click on the selection arrow to see a list of optional installed OCR software. <em>Internal</em>: The internal OCR software will be used.</td>
</tr>
<tr>
<td><strong>OCR Language</strong></td>
<td>Click on the selection arrows to show the list of languages available for the OCR function</td>
</tr>
<tr>
<td><strong>Additional OCR Language</strong></td>
<td></td>
</tr>
</tbody>
</table>

![Language List](image.png)

**Picture 121: List of languages**
D.4.15 Scan settings templates

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

Each page lists ten scan templates.

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

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

A list opens. Select here the desired number of entries.
D.4.15.1  Elements and their functions

The scan templates installed as default are protected against modification. For this reason the buttons **Save current settings** and **Edit current settings** are blanked out for the default scan templates.

**Name**  
Shows the scan template name.  
If displayed, click at the pen symbol right beside the name to edit the name. A small window opens.  
Click with the mouse in the field in which the name is displayed.  
Edit the name with the PC keyboard.  
Click at **Save** to accept the edited template name and to close the window.  
Click at **Cancel** to close the window without changing the template name.

**Visibility**  
Click at the selection arrow.  
**Public**  
Lists the template on the external touchscreen monitor (optional).  
**Disabled**  
The template is not visible on the external touchscreen monitor.

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

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

**Duplicate**  
Click here to duplicate the template with all settings.  
The duplicate will be added to the list with the name **Copy of <name>**.

**Delete**  
Click here to delete the template.
Templates from other scanners of the same type saved as “*.sql” files can be uploaded.

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

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

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

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

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

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

Click at **Export** to save the selected templates in an “sql” file.
Depending on the browser, an additional window opens or at the bottom of the browser window a query line is displayed.

Picture 126: Select the action for the export file
Select here the action for the file which should be exported.

D.4.15.2 Save current settings

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

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

To save settings execute the following steps:

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

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

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

Finally return to the browser which displays the scan templates.

Click in the line of the copied scan template the button.
D.4.15.3 Edit current settings

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

![Parameter list with current values](image)

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

The values can be modified in different ways.

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

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

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

Click here return without saving the changed values. The window closes and returns to the scan templates screen.
D.4.15.4 Duplicate

To create a new template duplicate an already existing scan template. The duplicate will be named as Copy of <name>. It will be sorted into the list automatically. The list is in alphabetical order.

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

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

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

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

Click here return without saving the changed values.

D.4.15.5 Delete

Click this button to delete a template.

**Note:** There is no safety request before deleting.
D.5 Updates & Uploads

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

D.5.1 Firmware Download

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

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

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

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

Click at Send.

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

Follow the steps described on the website.

Download the ZIP archive file to your local computer.

**IMPORTANT:** Do not unpack the ZIP archive!

All components of the ZIP archive are necessary for the update.
D.5.2 Update of the Scanner Firmware

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

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

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

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

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

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

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

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

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

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

When restarting after a firmware update, the scanner reboots with factory default settings. All installed options will stay active.
Note: After a firmware update some measurements have to be executed. For this measurements always use the test targets delivered with the scanner. The Bookeye® 4 scanner is delivered with the listed test targets.

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

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

Perform the measurement in this order:

1. **White Balance**. This function calibrates the camera, depending on the lighting conditions at the installation site. It is recommended to always perform this function if the lighting conditions change significantly.
2. **Auto Focus**. This function measures a reference value for the focus adjustment. It should be repeated when no proper focusing is possible.
3. **Focus Line**. This function determines the horizontal center of the scan area.
4. **DPI Measurement**. This function measures the resolution for the entire scan area.
5. **Laser Check**. This function checks the integrated laser.
6. **Gear correction**. This function calculates a correction function for the mirror motor of the camera.
7. **White Balance**. Repeat the white balance after executing the other measurements.
D.5.3  Installed Options

This section shows all available options for the scanner.

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

![Options List](image)

**Picture 130: Options List**

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

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

**Activate options**

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

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

Enter the key in the respective line and click on [Apply].

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

**Deactivating options**

Delete the software key of the option. Click on [Apply].
D.6 Adjustments & Support

D.6.1 Adjustments

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

![Picture 131: Adjustment main screen](image)

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.

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.

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

**Back to Adjustment Menu** Returns to the former menu.
D.6.1.2 Focus Line

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

Open the book cradles as illustrated on the screen.

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

The results will be displayed in the next screen.

**Picture 134: Focus Line screen with options for resolution**

**Picture 135: Result of Focus Line measurement**

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

- **Back to Adjustment Menu**: Returns to the former menu.
D.6.1.3 Scan Start

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

Open the book cradles as shown on the screen.

Click on [Next Step] to start the measurement.

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

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

Picture 136: Scan Start screen

Picture 137: Results of Scan Start adjustment
D.6.1.4 DPI Measurement

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

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 138: DPI Measurement start screen](image)

![Picture 139: Result of DPI measurement](image)
D.6.1.5 Center Measurement

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

![Center Measurement information](image)

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

**Back to Adjustment Menu**
Returns to the former menu.
D.6.1.6 Laser Check

This function checks the integrity and position of the laser line. The function will return skew and relative position to its ideal values and is used to track potential misalignment. The laser line is used by the camera electronics to measure the document’s contour and to calculate the correction for the curvature of the document binding.

Close the book cradles and place the Laser Check test target as displayed on the screen. Click on **Next Step** to start the measurement.

While the test sequence runs, the lamps will not light up. When the function has finished, the screen shows the result. As long as the displayed text is green, the result is ok. Any error will be shown in red followed by some explanatory remarks.
Click on **Next Step** to execute the measurement with the book cradle in V-Mode position.

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

![Picture 143: Laser Check, optional measurement](image)

Set the book cradle in V-Mode position.

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

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

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

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

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

![Picture 144: Laser check result with book cradle in V-Mode position](image)
D.6.1.7 White Balance

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

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

![Picture 145: Test target placed in the middle](image1)

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

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

![Picture 146: White Balance results](image2)

As long as the displayed text is green, the result is ok. Text in red displays errors and is followed by some explanatory remarks.
D.6.1.8 Brightness Correction

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

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

The correction factor will be effective immediately.

D.6.1.9 Delete White Balance Data

Click on the button to execute the deletion.

After the white balance data have been deleted, repeat the white balance measurement.
D.6.1.10  Lamp Position

This function allows modifying the position of the lamps.

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

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

![Lamp Position control](image)

**Picture 149: Lamp Position control**

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

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

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

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

- **Left (one step)**, **Right (one step)**
- **Left** / **Right**

Moves the lamp’s light bar one unit to the left / one unit to the 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 38).
D.6.1.11 Lamp Test

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

D.6.1.12 Gear Correction

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

Open the book cradle plates as shown on the screen.

Click on Next Step to start the measurement.

The lamps light up and move over the scan area. The status message will be displayed.
D.6.2 Hardware Test Suite

This menu contains the network analyzer and the screenshot function.

![Picture 152: Hardware Test Suite start screen]

D.6.2.1 Network Analyzer

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

![Picture 153: Network Analyzer menu items]
D.6.2.1.1 Perform Speed Test

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

**Picture 154: Network Analyzing Parameters**

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

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

**Perform Now**  Starts the test sequence.

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

**Back To Test Suite**  Returns to the **Hardware Test Suite** screen (Picture 152).
The result of the measurement is displayed at the next screen.

![Image]

**Picture 155: Measured Time**

The bar graphic shows the three values:

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

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

### D.6.2.1.2 Packet Statistics

**Packet Statistics**

- Shows the current network packet statistics.

![Image]

**Picture 156: Packet Statistics values**
D.6.2.2 Screen Shot

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

![Screenshot of touchscreen and monitor content](image)

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

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

This function can be used for example for remote diagnosis purposes.
D.7 Administrative Settings

D.7.1 Wake up Remote Host

If an external PC is used with the scanner, it is helpful to start the PC at the same time when the scanner starts. This can be done by activating the **Wake up Remote Host** function.

![Picture 158: Wake up Remote Host](image)

The requirements for using this function:

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

**Enter hardware address**

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

**Wake up remote host at PowerOn**

- **Yes**: Starts the remote PC when the scanner is started.
- **No**: Disabled the function.
D.7.2 Status Notification

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

Status Notification parameters

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

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

Mail status to admin? Select Yes or No.

Error level

Click at the selection arrow and select the error level which triggers the mail. Available error levels are:

Critical Error, Error, Warning and Info.
D.7.3 Change Password

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

Click on **Change Password**.

![Picture 159: Change password menu](image)

**Select Level**

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

**New Password**

Enter the new password.

**Retype New Password**

Type the new password again.

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

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

Click on **Clear Fields** to clear the fields where the password can be entered.
D.7.4 Backup Settings

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

Click on [Backup Setting] to create the ZIP archive.

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

![Backup Settings Window](image)

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

**Open**
Opens a window and shows the contents of the ZIP file. The ZIP file contains a directory which is named according to the scanner device type and its serial number. The directory can be opened but all files therein are password protected and cannot be opened.

**Save**
Saves the ZIP file with an automatically generated file name. The contents of the small window change after saving. The buttons in the small window allow opening the ZIP file, the directory of the ZIP files or opens the download lists in a separate window.

**Save as**
Save the ZIP file. The desired file name can be entered before saving.

**Save and open**
Saves the ZIP file and opens a window which shows the contents of the ZIP file.

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

Using this function is recommended in order to have the current settings available after the scanner has been reset to factory defaults (chapter D.8.2).
D.7.5  Restore Settings

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

Click on **Restore Settings**

![Picture 161: Restore setting from ZIP file](image)

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

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

After restoring the scanner settings the screen shows a message and reminds the operator to perform a White Balance sequence.
D.7.6  Lock Web App
This function locks the Scan2Net user interface.
When the ScanWizard interface is locked, the scanner can only be controlled by the touchscreen or by external software.

D.7.7  Unlock Web App
This function unlocks the Scan2Net user interface.
Enter the password that has been used to lock the Scan2Net user interface.
D.8  Resets & Default Values

D.8.1  Set Scanner Defaults
This function enables saving settings for color mode, resolution, document mode as well as network parameters and other parameters. When powering up, the scanner starts with the saved settings.

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

Return to the Poweruser level.

Click on [Set Scanner Defaults] to execute.

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

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

D.8.2  Reset Factory Defaults
This function sets all parameters back to factory settings.

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

Click on [Reset Factory Defaults] to execute the function.

D.8.3  Reset Scanner Defaults
Resets all scanner parameters to the values which were set with [Set Scanner Defaults].

Click on [Reset Scanner Defaults] to execute the function.

D.8.4  Reset Surface
This function resets the surface to factory defaults.

D.8.5  Reset Hardware Defaults
This function resets the hardware parameters to the values which were defined during the basic setup when assembling the scanner.

D.8.6  Set Default Passwords
This function resets all passwords to factory defaults.
D.9 Additional Hardware

D.9.1 Wireless LAN

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

![WLAN module activated](image)

**Picture 162: WLAN module activated**

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

- **Network Configuration** switches to the settings of the network parameters.

See chapter D.4.2.
D.9.2 Audio

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

![Audio source](image)

**Picture 163: Audio source**

Available audio sources are listed after clicking at the selection arrow.
The recovery function helps to set all device parameters to factory defaults after a fatal system breakdown.

The recovery key is necessary to invoke the recovery procedure.

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

### IMPORTANT:

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

### E.1 BEFORE Recovering to Factory Defaults

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

**Before starting** the recovery sequence write down the values for the IP address, subnet mask and gateway of the device.
E.2 Executing the Recovery

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

Plug the recovery key into the Recovery key connector at the connector's panel.
See Picture 14, detail #5

Press the Power button to start the scanner.

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

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

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

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

After the device has powered down unplug the recovery key.

E.3 AFTER Recovering to Factory Defaults

Power up the device with the Power button.

The factory default IP address of the device is: 192.168.1.50

After recovering to the factory defaults do the following steps:

- Change the network parameters to the values which were used before running the recovery sequence. See chapter C.6 and its sub-chapters for more information.
- Executed a firmware update. See chapter D.5.2 for more information. Make sure an update file is available on the local computer.
- Perform a white balance adjustment. See chapter C.3 (touchscreen) or chapter D.6.1.7 (Poweruser setup).
- After the white balance adjustment, the software adjustment for the device must be performed.
  
  Select Setup Device ➔ Poweruser Login as Poweruser.
  
  Locate the section Adjustments & Support and click the button Adjustments. Perform all adjustments in this section by clicking the appropriate buttons.

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

Options, which were purchased at a later time, must be reactivated with their matching key code.
The scanner does report error conditions on the display and through the API. Some errors are only sent to the API.

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

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

### F.1 Error Codes

<table>
<thead>
<tr>
<th>Error #</th>
<th>Error message shown in the display</th>
<th>Error message sent to application</th>
<th>Problem description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scanner in use.</td>
<td>An attempt to access the scanner was made from a different application.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Invalid session ID.</td>
<td>An attempt to access the scanner with an invalid session ID was made.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Invalid password</td>
<td>The stop button was pressed during the operation.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>E05 S2N BOARD</td>
<td>S2N board failure</td>
<td>The S2N board is either not found or found defective. Make sure board is sitting correctly on the motherboard.</td>
</tr>
<tr>
<td>7</td>
<td>USER BREAK</td>
<td>Stop button pressed.</td>
<td>The stop button was pressed during the operation.</td>
</tr>
<tr>
<td>8</td>
<td>User timeout</td>
<td>The function ended because of a time out</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Warming up</td>
<td>The device is still warming up and cannot be used.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Invalid setting value.</td>
<td>The value sent to the device is invalid.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Setting does not exist.</td>
<td>The settings does not exist.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Invalid user docsize.</td>
<td>The size of the user format is invalid.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Invalid resolution or color mode.</td>
<td>Either the resolution or the color mode is invalid.</td>
<td></td>
</tr>
<tr>
<td>Error #</td>
<td>Error message shown in the display</td>
<td>Error message sent to application</td>
<td>Problem description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------</td>
<td>-----------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>20</td>
<td>ERROR 20: MOTOR 1/1 (CCD DRV) SWITCH PERM. OPEN</td>
<td>Motor 1 / PCI 1 (CCD drive): End switch permanently open</td>
<td>The home position switch is permanently open. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>21</td>
<td>ERROR 21: MOTOR 1/1 (CCD DRV) SWITCH PERM. CLOSED</td>
<td>Motor 1 / PCI 1 (CCD drive): End switch permanently closed</td>
<td>The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>22</td>
<td>ERROR 22: MOTOR 2/1 (L. LAMP) SWITCH PERM. OPEN</td>
<td>Motor 2 / PCI 1 (Left lamp): End switch permanently open</td>
<td>The home position switch is permanently open. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>23</td>
<td>ERROR 23: MOTOR 2/1 (L. LAMP) SWITCH PERM. CLOSED</td>
<td>Motor 2 / PCI 1 (Left lamp): End switch permanently closed</td>
<td>The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>24</td>
<td>ERROR 24: MOTOR 3/1 (R. LAMP) SWITCH PERM. OPEN</td>
<td>Motor 3 / PCI 1 (Right lamp): End switch permanently open</td>
<td>The home position switch is permanently open. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>25</td>
<td>E25 MOTOR 3/1 (R. LAMP) SWITCH PERM. CLOSED</td>
<td>Motor 3 / PCI 1 (Right lamp): End switch permanently closed.</td>
<td>The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>26</td>
<td>E26 MOTOR 4/1 (LENS) SWITCH PERM. OPEN</td>
<td>Motor 4 / PCI 1 (Lens): End switch permanently open.</td>
<td>The home position switch is permanently open. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>27</td>
<td>E27 MOTOR 4/1 (FOCUS) SWITCH PERM. CLOSED</td>
<td>Motor 4 / PCI 1 (Lens): End switch permanently closed.</td>
<td>The home position switch is permanently closed. The mechanics of the corresponding motor could be blocked or the switch/cable is defective.</td>
</tr>
<tr>
<td>Error #</td>
<td>Error message shown in the display</td>
<td>Error message sent to application</td>
<td>Problem description</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------</td>
<td>----------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>30</td>
<td>File format not supported.</td>
<td>The specified file format is not supported or it is invalid in combination with the color mode.</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Preview not possible</td>
<td>The application specified an invalid preview scale. Not all scale factors are allowed with all image sizes.</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Invalid color conversion</td>
<td>The application changed the color depth between scanning and image transfer and a conversion between these modes is not possible. Example: scan in binary, then changed color mode to truecolor.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>No image available</td>
<td>The application attempted to get an image from the scanner and there was no scan since the device was turned on.</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Wrong S2N board detected (not enough CCD ports)</td>
<td>The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Wrong S2N Board detected (Revision not OK)</td>
<td>The S2N board found is not the right one for this device. Error can occur after a repair/exchange. Exchange with correct board.</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Camera 1 failed</td>
<td>Initializing of camera 1 failed. Check power, cables and S2N-PCI board.</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Camera 1 data bus error.</td>
<td>Test data transfer to camera 1 failed. Check cables / connectors to camera 1 and S2N-PCI board.</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Camera 1 adc error.</td>
<td>Test data transfer through analog digital converter failed. Check cables / connectors to camera 1.</td>
<td></td>
</tr>
</tbody>
</table>
### Error Messages

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

### F.2 Warnings

<table>
<thead>
<tr>
<th>#</th>
<th>Warning shown in the display</th>
<th>Warning sent to application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>Bad keyboard config</td>
<td>Bad keyboard configuration</td>
<td>Hardware error in the keyboard PCB. Service necessary.</td>
</tr>
<tr>
<td>128</td>
<td>Book cradle not adjusted</td>
<td>Mechanical problem: Left Book cradle is not adjusted</td>
<td>The book cradle is not in its home position when the scanner starts. Move the book cradle down to the home position.</td>
</tr>
<tr>
<td>130</td>
<td>WARNING: Foot Pedal 1: Switch permanently closed</td>
<td>WARNING: Foot Pedal 1: Switch permanently closed</td>
<td>The book cradle is not in its home position when the scanner starts. Move the book cradle down to the home position.</td>
</tr>
<tr>
<td>131</td>
<td>WARNING: Foot Pedal 2: Switch permanently closed</td>
<td>Foot Pedal 2: Switch permanently closed</td>
<td>The book cradle is not in its home position when the scanner starts. Move the book cradle down to the home position.</td>
</tr>
<tr>
<td>144</td>
<td>Light level is low</td>
<td>Light level is low</td>
<td>The light level is found to be low during the white balance function.</td>
</tr>
<tr>
<td>145</td>
<td>Camera adjustment required</td>
<td>Camera adjustment required</td>
<td>General information about the camera adjustment. Check for details and readjust.</td>
</tr>
<tr>
<td>146</td>
<td>W146 LEFT LAMP BLOCKED</td>
<td>Left lamp blocked.</td>
<td>The left lamp's slewing range is blocked.</td>
</tr>
<tr>
<td>147</td>
<td>W147 RIGHT LAMP BLOCKED</td>
<td>Right lamp blocked.</td>
<td>The right lamp's slewing range is blocked.</td>
</tr>
<tr>
<td>160</td>
<td>WARNING 160: No white balance data</td>
<td>No white balance data</td>
<td>No white balance data was found. Perform white balance procedure.</td>
</tr>
<tr>
<td>183</td>
<td>Document oversized (Out of memory)</td>
<td>Document oversized (Out of Memory)</td>
<td></td>
</tr>
<tr>
<td>184</td>
<td>Failed to execute Auto Exposure (Memory?)</td>
<td>Failed to execute Auto Exposure (Memory?)</td>
<td></td>
</tr>
<tr>
<td>186</td>
<td>Failed to execute Crop/Deskew (Memory ?)</td>
<td>Failed to execute Crop/Deskew (Memory ?)</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td>Warning shown in the display</td>
<td>Warning sent to application</td>
<td>Description</td>
</tr>
<tr>
<td>----</td>
<td>------------------------------</td>
<td>-----------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>191</td>
<td>Bookfold failed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>192</td>
<td>Bookfold failed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>193</td>
<td>Bookfold failed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>194</td>
<td>Crop failed (left edge!)</td>
<td>Crop failed (left edge!)</td>
<td>The crop function failed. Reposition document or select another document mode. If the document is held in an open position, move the left hand to a lower position.</td>
</tr>
<tr>
<td>195</td>
<td>Crop failed (right edge!)</td>
<td>Crop failed (right edge!)</td>
<td>The crop function failed. Reposition document or select another document mode. If the document is held in an open position, move the right hand to a lower position.</td>
</tr>
<tr>
<td>196</td>
<td>Crop failed (upper edge!)</td>
<td>Crop failed (upper edge!)</td>
<td>The crop function failed. Move the document at the book cradle upwards or select another document mode.</td>
</tr>
<tr>
<td>197</td>
<td>Crop failed (lower edge!)</td>
<td>Crop failed (lower edge!)</td>
<td>The crop function failed. Move the document at the book cradle downwards or select another document mode.</td>
</tr>
<tr>
<td>198</td>
<td>Crop failed (wide open!)</td>
<td>Crop failed (wide open!)</td>
<td>The crop function failed. Move the document at the book cradle upwards or close the book cradle plates or select another document mode.</td>
</tr>
</tbody>
</table>

F.3 Information

<table>
<thead>
<tr>
<th>#</th>
<th>Information shown in the display</th>
<th>Information sent to application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>CREATING RECOVERY PART..</td>
<td>Creating Recovery Partition</td>
<td>While creating the recovery partition, the scanner cannot be accessed.</td>
</tr>
</tbody>
</table>
## G Technical Data / Caractéristiques techniques

### G.1 Scanner Specifications

#### G.1.1 Bookeye® 4 –V3

<table>
<thead>
<tr>
<th>Scan Area / Document Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Scan Area [mm]</td>
<td>390 x 480 mm</td>
</tr>
<tr>
<td></td>
<td>15.4 x 18.9 inch</td>
</tr>
<tr>
<td>Scanner resolution</td>
<td>400 x 400 dpi</td>
</tr>
<tr>
<td>Optical resolution</td>
<td>400 dpi</td>
</tr>
<tr>
<td>Pixel dimension</td>
<td>9.3 x 9.3 µm</td>
</tr>
<tr>
<td>Minimum document size</td>
<td>100 x 100 mm / 4 x 4 inch</td>
</tr>
</tbody>
</table>

**Luminosity**

<table>
<thead>
<tr>
<th>Light intensity while scanning:</th>
<th>Max. 1800 LUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby, idle</td>
<td>0 LUX (lamps off)</td>
</tr>
</tbody>
</table>

**Lamps**

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

**Color modes**

<table>
<thead>
<tr>
<th>Grayscale digitization</th>
<th>12 bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color digitization</td>
<td>36 bit</td>
</tr>
<tr>
<td>Scan modes</td>
<td>24 bit color, 8 bit grayscale, bitonal, enhanced halftone</td>
</tr>
</tbody>
</table>
G.1.2  Bookeye® 4 – V2

Scan Area / Document Size

<table>
<thead>
<tr>
<th>Maximum Scan Area [mm]</th>
<th>620 x 460 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24.4 x 18 inch</td>
</tr>
<tr>
<td>Scanner resolution</td>
<td>400 x 400 dpi (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 x 600 dpi (Professional)</td>
</tr>
<tr>
<td>Optical resolution</td>
<td>400 dpi (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 dpi (Professional)</td>
</tr>
<tr>
<td>Pixel dimension</td>
<td>9.3 x 9.3 µm</td>
</tr>
<tr>
<td>Minimum document size</td>
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</tr>
</tbody>
</table>

Luminosity

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<tbody>
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Lamps

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</tr>
<tr>
<td>Temperature-related alteration</td>
<td>None</td>
</tr>
<tr>
<td>IR-/ UV radiation</td>
<td>None</td>
</tr>
<tr>
<td>Lifetime</td>
<td>50,000 hours (typ.)</td>
</tr>
</tbody>
</table>

Color modes

<table>
<thead>
<tr>
<th>Grayscale digitization</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Scan modes</td>
<td>24 bit color, 8 bit grayscale, bitonal, enhanced halftone</td>
</tr>
</tbody>
</table>
F-G.1 Spécifications du scanner

F-G.1.1 Bookeye® 4 –V3

Scan Area / Document Size

<table>
<thead>
<tr>
<th>Surface de numérisation maxi [mm]</th>
<th>390 x 480 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Résolution du capteur</td>
<td>400 (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 (Professional)</td>
</tr>
<tr>
<td>Résolution de numérisation</td>
<td>400 x 400 (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 x 600 (Professional)</td>
</tr>
<tr>
<td>Taille des pixels</td>
<td>9.3 x 9.3 µm</td>
</tr>
<tr>
<td>Minimum la taille du document</td>
<td>100 x 100 mm</td>
</tr>
</tbody>
</table>

Luminosité

<table>
<thead>
<tr>
<th>Intensité lumineuse pendant la numérisation</th>
<th>Max. 1800 LUX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veille, au repos</td>
<td>0 LUX (lampes éteintes)</td>
</tr>
</tbody>
</table>

Lampes

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

Lampes

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<td>Aucun</td>
</tr>
<tr>
<td>Durée de vie</td>
<td>50 000 heures (typ.)</td>
</tr>
</tbody>
</table>
F-G.1.2 Bookeye® 4 –V2

Zone de numérisation

<table>
<thead>
<tr>
<th>Surface de numérisation maxi [mm]</th>
<th>620 x 460 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Résolution de numérisation</td>
<td>400 x 400 dpi (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 x 600 dpi (Professional)</td>
</tr>
<tr>
<td>Résolution du capteur</td>
<td>400 dpi (Basic, Kiosk, Office)</td>
</tr>
<tr>
<td></td>
<td>600 dpi (Professional)</td>
</tr>
<tr>
<td>Taille des pixels</td>
<td>9.3 x 9.3 µm</td>
</tr>
<tr>
<td>Minimum la taille du document</td>
<td>100 x 100 mm</td>
</tr>
</tbody>
</table>

Luminosité

<table>
<thead>
<tr>
<th>Intensité lumineuse pendant la numérisation</th>
<th>Max. 1800 LUX</th>
</tr>
</thead>
<tbody>
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</table>

Lampes

<table>
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<tr>
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<td>Aucun</td>
</tr>
<tr>
<td>Durée de vie</td>
<td>50 000 heures (typ.)</td>
</tr>
</tbody>
</table>

Modes de couleur

<table>
<thead>
<tr>
<th>Niveaux de grise numérisation</th>
<th>12 bits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numériser en couleur</td>
<td>36 bits</td>
</tr>
<tr>
<td>Modes de numérisation</td>
<td>Couleur 24 bits, 8 bits en niveaux de gris, monochrome, renforcée en demi-teinte</td>
</tr>
</tbody>
</table>
## G.2 Electrical Specifications

### External Power Supply

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100 – 240 V AC</td>
</tr>
<tr>
<td>Frequency</td>
<td>47 – 63 Hz</td>
</tr>
<tr>
<td>Inrush current</td>
<td>120 A max / 264 V AC</td>
</tr>
<tr>
<td>Efficiency</td>
<td>85 %</td>
</tr>
<tr>
<td>Idle consumption</td>
<td>≤ 0.5 W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 to 65 °C / 32 to 150 °F</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>20 … 80 % RH, non-condensing</td>
</tr>
<tr>
<td>ECO standard</td>
<td>CEC level V</td>
</tr>
</tbody>
</table>

### Scanner

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Current</td>
<td>Max. 5 A</td>
</tr>
</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sleep</td>
<td>≤ 0.5 W</td>
</tr>
<tr>
<td>Standby</td>
<td>2.5 W</td>
</tr>
<tr>
<td>Ready to scan, monitor on</td>
<td>75 W</td>
</tr>
<tr>
<td>Scanning</td>
<td>130 W</td>
</tr>
</tbody>
</table>
## F-G.2 Spécifications électriques

### Alimentation électrique extérieure

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

### Scanner

<table>
<thead>
<tr>
<th>Spécification</th>
<th>Valeur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension</td>
<td>24 V c.c.</td>
</tr>
<tr>
<td>Courant électrique</td>
<td>Maxi 5 A</td>
</tr>
</tbody>
</table>

### Consommation électrique

<table>
<thead>
<tr>
<th>Spécification</th>
<th>Valeur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hors tension, écran allumé</td>
<td>≤ 0,5 W</td>
</tr>
<tr>
<td>Standby</td>
<td>2,5 W</td>
</tr>
<tr>
<td>Prêt à numériser, écran allumé</td>
<td>70 W</td>
</tr>
<tr>
<td>Numérisation</td>
<td>130 W</td>
</tr>
</tbody>
</table>
G.3 Dimensions and Weight

G.3.1 Bookeye® 4 –V3

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions/Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanner outer dimensions</td>
<td>780 x 500 x 580 mm (H x W x D) 30.7 x 19.7 x 22.9 inch</td>
</tr>
<tr>
<td>Scanner outer dimensions, book cradle opened</td>
<td>780 x 595 x 580 mm (H x W x D) 30.7 x 23.5 x 22.9 inch</td>
</tr>
<tr>
<td>Weight of scanner</td>
<td>Approx. 30 kg / 66 lbs.</td>
</tr>
</tbody>
</table>

**Transport Box:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions/Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension transport box :</td>
<td>720 x 880 x 620 mm (H x W x D) 28.4 x 34.7 x 24.5 inch</td>
</tr>
<tr>
<td>Dim. of transport box with carrier handles:</td>
<td>720 x 910 x 620 mm (H x W x D) 28.4 x 35.9 x 24.5 inch</td>
</tr>
<tr>
<td>Weight transport box:</td>
<td>10 kg / 22 lbs.</td>
</tr>
<tr>
<td>Total shipping weight</td>
<td>40 kg / 88 lbs.</td>
</tr>
</tbody>
</table>

G.3.2 Bookeye® 4 –V2

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions/Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanner outer dimensions</td>
<td>780 x 670 x 670 mm (H x W x D) 30.7 x 26.4 x 26.4 inch</td>
</tr>
<tr>
<td>Scanner outer dimensions, book cradle opened</td>
<td>780 x 765 x 670 mm (H x W x D) 30.7 x 30.2 x 26.4 inch</td>
</tr>
<tr>
<td>Weight of scanner</td>
<td>Approx. 40.5 kg / 90 lbs.</td>
</tr>
</tbody>
</table>

**Transport Box:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions/Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension transport box :</td>
<td>1010 x 810 x 835 mm (H x W x D) 39.8 x 31.9 x 32.9 inch</td>
</tr>
<tr>
<td>Weight transport box:</td>
<td>44.5 kg / 98 lbs.</td>
</tr>
<tr>
<td>Total shipping weight</td>
<td>85 kg / 188 lbs.</td>
</tr>
</tbody>
</table>
### F-G.3 Dimensions et poids

#### F-G.3.1 Bookeye® 4 –V3

<table>
<thead>
<tr>
<th>Dimensions extérieures du scanner, berceau de livre fermé</th>
<th>780 x 500 x 580 mm (H x L x P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions extérieures du scanner, berceau de livre ouvert</td>
<td>780 x 595 x 580 mm (H x L x P)</td>
</tr>
<tr>
<td>Poids total du scanner, prêt à l’emploi</td>
<td>env. 30 kg</td>
</tr>
</tbody>
</table>

**Transport Box:**

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

#### F-G.3.2 Bookeye® 4 –V2

<table>
<thead>
<tr>
<th>Dimensions extérieures du scanner, berceau de livre fermé</th>
<th>780 x 670 x 670 mm (H x L x P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions extérieures du scanner, berceau de livre ouvert</td>
<td>780 x 765 x 670 mm (H x L x P)</td>
</tr>
<tr>
<td>Poids total du scanner, prêt à l’emploi</td>
<td>env. 40,5 kg</td>
</tr>
</tbody>
</table>

**Carton du transport**

<table>
<thead>
<tr>
<th>Dimensions du carton de transport</th>
<th>1010 x 810 x 835 mm (H x L x P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poids du carton de transport</td>
<td>44,5 kg</td>
</tr>
<tr>
<td>Poids de transport total</td>
<td>85 kg</td>
</tr>
</tbody>
</table>
### G.4 Ambient Conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>5 to 40 °C / 40 to 105 °F</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0 to 60 °C / 32 to 140 °F</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>20 to 80% (non-condensing)</td>
</tr>
<tr>
<td>Ambient luminance</td>
<td>≤ 300 Lux</td>
</tr>
<tr>
<td>Noise Level</td>
<td>≤ 42 dB(A) (Operating)</td>
</tr>
<tr>
<td></td>
<td>≤ 33 dB(A) (Standby)</td>
</tr>
</tbody>
</table>

### F-G.4 Conditions ambiennes

<table>
<thead>
<tr>
<th>Condition</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Température de service</td>
<td>5 à 40 °C / 40 à 105 °F</td>
</tr>
<tr>
<td>Température de stockage</td>
<td>0 à 60 °C / 32 à 140 °F</td>
</tr>
<tr>
<td>Humidité relative</td>
<td>20 à 80 % (sans condensation)</td>
</tr>
<tr>
<td>Luminance ambiante</td>
<td>≤ 300 Lux</td>
</tr>
<tr>
<td>Niveau de bruit</td>
<td>≤ 42 dB(A) (en marche)</td>
</tr>
<tr>
<td></td>
<td>≤ 33 dB(A) (en veille)</td>
</tr>
</tbody>
</table>
For your notes