

User manual

VOXbox LV modul battery

NEW



Please read this user manual carefully prior to installation, use and maintenance for your own safety and in order to avoid damages on your system.

Gewa art.nr.: 1169240

Konformitätserklärung

Declaration of conformity

Wir erklären in alleiniger Verantwortung für alle unsere Systeme, dass diese mit den folgenden Normen oder normativen Dokumenten übereinstimmen.

We declare under our sole responsibility that the systems, which have been brought into the market by us, meet the requirements of the following directives.

VOXbox

(Art.-Nr.: VOXBOX30)

**Richtlinie 93/42/EWG
des Rates vom 14. Juni 1993 über Medizinprodukte
Risikoklasse I nach Anhang IX Regel 12
CE Konformität nach Anhang VII
und
RoHS II (EG Richtlinie 2011/65/EU)**

***Council directive 93/42/EEC
of 14th June 1993 concerning medical devices
risk class I according to Annex IX standard 12
CE conformity of Annex VII
and
RoHS II (Council directive 2011/65/EEC)***

Die CE– Kennzeichnung auf dem Gerät dokumentiert diese Übereinstimmung.

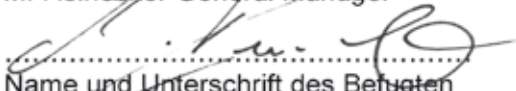
The CE mark on the system points out this accordance.

Alsbach-Hähnlein,

08.10.2015

.....
Ort und Datum der Ausstellung
Place and date of issue

M. Reinecker Geschäftsführer
M. Reinecker General Manager



.....
Name und Unterschrift des Befugten
Name and signature of the authorized person

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13B 1

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I. General information

Important notes on the operation of the reading system VOXbox!

Please read them carefully prior to the operation of the reading system!

Notes on the electromagnetic compatibility (EMC)

This reading system is suited for use in all set-ups including the domicile that are connected directly to a public power supply for buildings with residential purposes. This reading system is designed for the use in the indicated electromagnetic environment. The user should ensure the use in the indicated environment.

This reading system operates on HF-Energy exclusively for its own function. Therefore the emitted interference of high frequency disturbances is very low and the interference with other appliances operated close-by is improbable. When operating the reading system simultaneously with other systems, however, the possibility of disturbances of the system or other systems should not be neglected.

For this reason it should be ensured that the system is not placed directly beside or on top of another system. If the set-up of this system in the proximity of medical, measuring devices cannot be avoided, the operator of these devices has to be informed that it is necessary to observe the performance of the system to control the conventional use of the system in the chosen set-up.

Electronic devices are sensitive towards electric discharge and towards high frequency electromagnetic fields.

Attention: In order to avoid high frequency disturbances the operator should respect a minimum distance of one meter to portable and mobile HF-telecommunication devices.

The device may not be used in the patients environment.

Storage of the user manual

The user manual is an essential part of your reading system. Please keep the booklet in a safe place for future reference.

Product description

VOXbox is a self-contained, compact reading system with a camera unit to convert text into synthetic speech. It corresponds to product category 07 of the directory of assistive technologies (in Germany) and meets all requirements in terms of quality and functions, described herein:

- high quality reader function; reading speed and volume to be adjusted according to individual needs; navigation by paragraph, by sentences, by words or by characters
- high performance camera scanner for DIN A4 documents which can also be taken out of the housing
- detachable operating board with clearly arranged keys
- contemporary design, light weight, mobile: the complete system is offered in form of a practical carrying bag
- optionally available: battery pack, low vision module, DAISY-module

Medical device

This reading system is classified as a Medical Device, class I according to 93/42/EEC, Annexe IX, standard 12. For the distribution to countries outside the EU the respective country-specific guidelines have to be regarded.

Purpose

VOXbox is a medical device of class I, that is determined for the use by blind people and people with low vision.

Life span of product

Seven years from the date of invoice (ex Reinecker). According to EEC the supplier of medical devices is obliged to define the life span of a product.

Note: The mentioned life span does not reflect the complete life span of the VOXbox. It is rather an indication on when the product might be obsolete and substitution might be recommended due to new product developments.

Safety advice

VOXbox has to be installed in closed and dry rooms only. Do not plug VOXbox into an electrical circuit that is also being used for any life sustaining or support systems. The device may not be used in the patients environment.

This device should not be operated in explosion-endangered environments. This device should only be installed in conjunction with modern electrical circuitry. It is a device of protection class II. The openings in the casing ensure optimum cooling and must not be covered.

Combination with other products

Warning: This reading system must not be located directly beside, next or on top of another medical device. If the device is used near another electrical device, monitor the other device to ensure that it is working properly. In case of doubt please contact Reinecker Vision GmbH or any licensed distribution partner.

Precautions by alteration of the performance of the system

Stop using the reading device if technical features or performances should change. Switch the device off and disconnect the power supply from the mains wall socket. Refer directly to your authorized dealer or to Reinecker Vision GmbH Service Center.

Reinstatement and installation

This device may be technically maintained and reconditioned by Reinecker Vision GmbH only or by an authorized technician. Reinstatement may only take place after the system has been cleaned and safety checked.

Cleaning of the system

- VOXbox has to be disconnected from the power supply before cleaning.
- Clean the system with a slightly damp cloth and a mild household detergent.
- Interior of device must NOT come in contact with liquids.

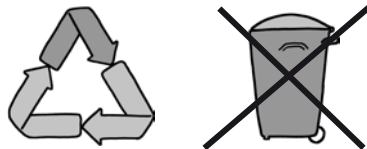
Special advice for transport and storage

For reasons of safety, the unit must only be transported and stored in the original packing. The unit must be stored in dry and closed rooms in the original packing. The following conditions for transport and storage have to be respected:

- Air pressure 700 - 1000 hPa
- Temperature range +5° to + 50°
- Relative air humidity 30% to 80%

Disposal of the unit according to EU directive 2002/96/EEC

VOXbox contains of electronic components. In order to avoid damage to the environment, the country-specific rules have to be respected.



Power supply

Only use the original power supply which is included in the delivery by Reinecker Vision GmbH.

Caution: The use of any other equipment might lead to an increased electromagnetic emission and to a product damage.

Important note for scanning and reading of medication leaflets

Dosing quantities that have been read by VOXbox MUST always be double checked and confirmed independently.

Always ask your doctor or pharmacist how to dose your medication, or refer to a person of your trust.

Safety instructions

Please respect the following safety instructions:

1. Do not plug the AC adapter into a faulty electrical outlet. Doing so may cause electrical shock or fire.
2. Do not touch the AC adapter with wet hands.
3. Only use the original power supply which is included in the delivery by Reinecker Vision GmbH. The use of any other equipment might lead to a product damage.
4. Only use the original battery which is included in the delivery by Reinecker Vision GmbH when ordered as an option. The use of any other equipment might lead to a product damage.
5. Do not expose the system to direct sunlight or to very hot or cold environment, as this would harm the picture quality.
6. Do not use this device below +5°C or above +40°C.
7. No liquids must reach the interior of the system. Only use the device in a dry environment.
8. The device may not be used next to medical devices (patients environment).
9. Do not lean on the system and do not put heavy objects on it as the system could be damaged.
10. Do not try to repair or to dismantle the system by your own. This would automatically void the warranty. If you need any technical assistance please get in contact with the local distributor or with Reinecker Vision GmbH.
11. Always switch OFF the system and disconnect it from the power supply before cleaning it. Only use a soft and slightly dampened cloth. Only use a mild household detergent. Do not use alcohol containing or strong detergents.

II. Instructions for the reading system VOXbox

Delivery content

- Reading system VOXbox
- Operating board with key covering
- Shoulder strap
- Positioning aid for documents
- Covers for controll buttons
- Headphone (not pictured)
- User manual
- Information sheet for repair cases

Available options

- Battery
- Low vision module: including mouse, HDMI-cable (2,0 m), USB interface (with four ports) and USB-dongle
- DAISY-module: CD drive incl. connector cable and USB interface (with four ports)

Setting up the system

Take the system carefully out of the packaging and place it onto a stable surface. Make sure you have enough space for it.

Note: Do not expose the system to direct light as reflections on gloss papers may reduce the quality of the scan.

Description of the system





- ① Connectors
- ② Shoulder strap
- ③ Aid for easy positioning of the documents
- ④ Control button covers

Connection of the unit

Make sure that the power cord is connected with a power supply.



- ① USB port
- ② Power cord
- ③ HDMI port (plug type A)

Installation and set up of the system

Hook and loop the velcro fastener and take out the camera scanner from the carrying bag or leave it inside of the bag for operating. (For further description please see the quick start guide.)

Note: Remove the camera scanner always with care and make sure not to disconnect the cables. The firmly integrated connecting cable has a maximum length of approx. 60cm.

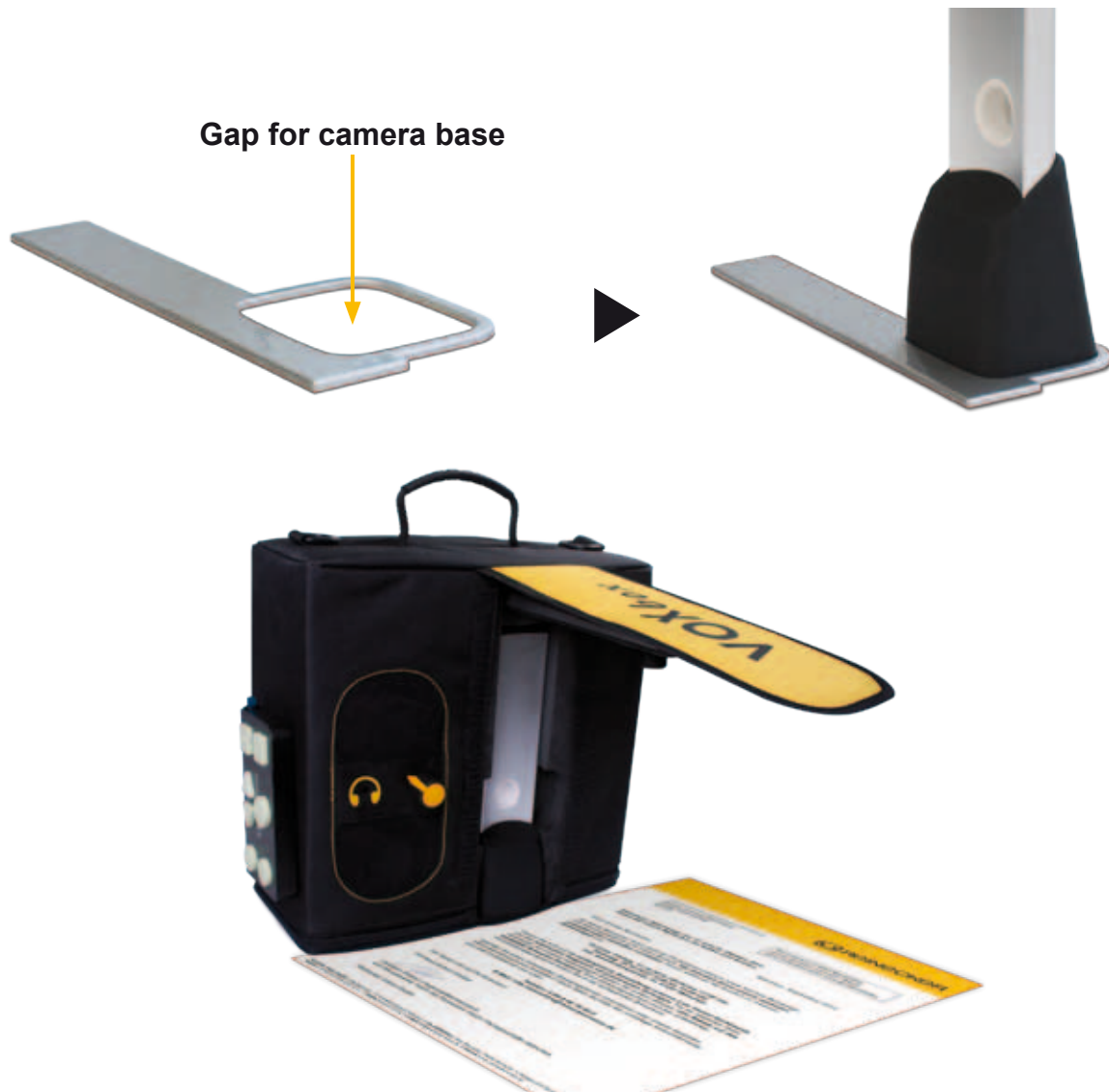


Flip the lower part of the camera head to 90 degrees until stop.



Positioning Aid

Take the aid for easy positioning of the documents out from one of the zip pockets at the rear side of VOXbox and place it onto a firm surface. Make sure the long side is facing you. Put the camera base in the appropriate gap so that the opened camera head faces in front.



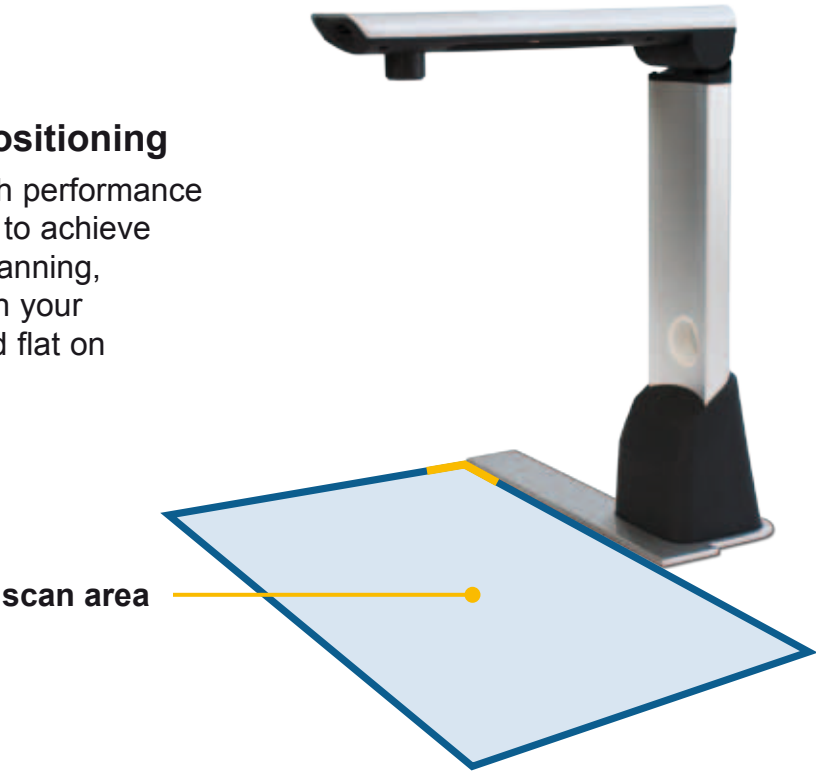
Positioning of the documents

The camera scanner is designed to capture documents of a size a little bigger than DIN A4. Position the document in landscape format so that the document head is on the left hand side of the aid for easy positioning of the documents. Make sure that the camera head has been flipped out.

If the low vision module were chosen as an option, the reading text can be displayed on an external monitor. Without the low vision module, an external monitor cannot be connected.

Advice for correct positioning

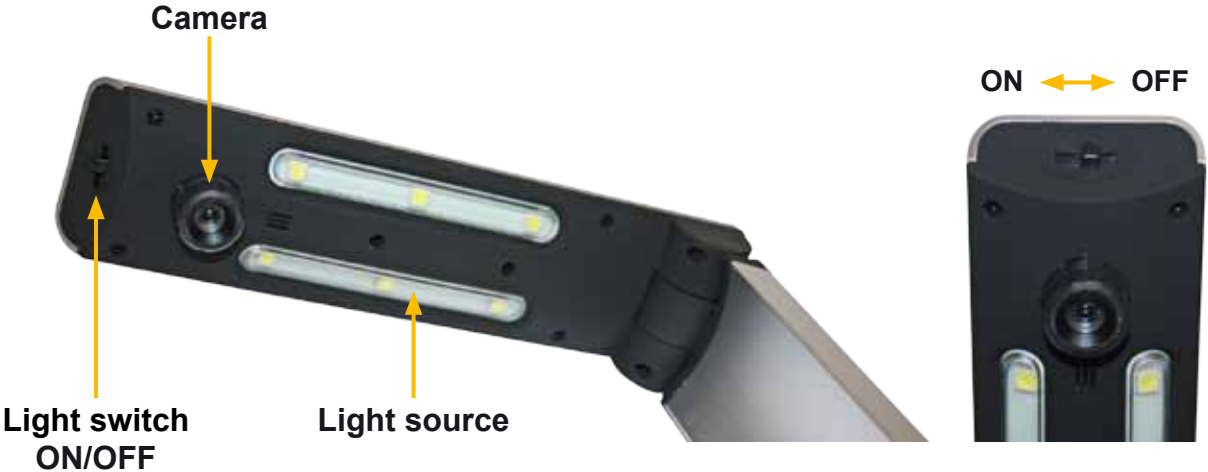
VOXbox consists of a high performance camera scanner. In order to achieve utmost accuracy when scanning, we recommend to position your document rectangular and flat on a surface.



LED Light On/Off

The camera scanner has an integrated switchable LED light. In a dark environment, it may be helpful to turn the LED light on. However, this can affect the reading accuracy in high-gloss materials.

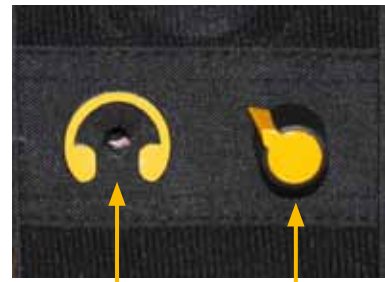
The switch is positioned at the front of the camera head. Move the switch to the left, to switch on the light. To switch it off, move it to the right.



Headphone operation/volume control

Use headphones by connecting them with the 3,5mm jack socket. Volume of the headphones can only be controlled by the volume control at the operating board. However, the volume of the loud speakers can be controlled either by the volume control on the VOXbox or by the keys of the operating board.

The acoustic loudspeakers are automatically turned off when in headphone mode.



Headphone jack

Volume control

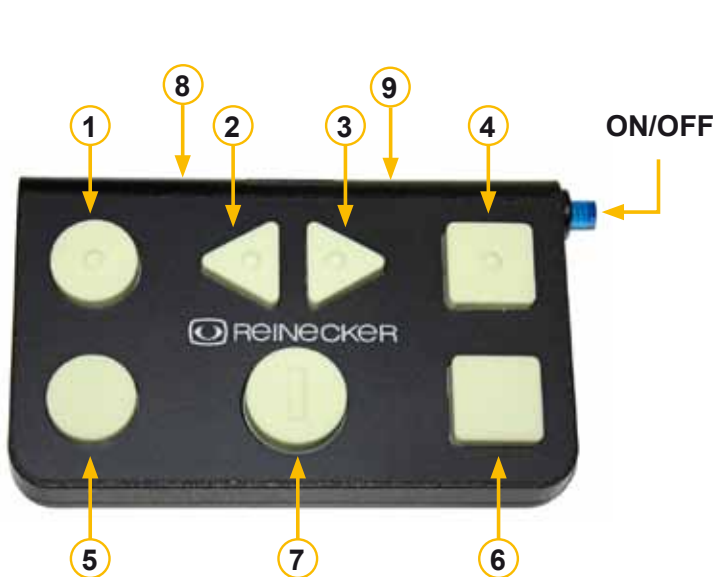
Covers Control Buttons

Buttons which are not used can be covered with the special covers.



Description Control Buttons

VOXbox consists of a cable connected operating board which is located sideways at the unit and offers 7 controls and 1 ON/OFF button.



- ① Voice mode
- ② Parametric value backwards
- ③ Parametric value forwards
- ④ Color selection, Viewing mode
- ⑤ Reading mode
- ⑥ Stop reading mode, Exit
- ⑦ Reading/Scanning, Pause, Play
- ⑧ Speed: slower
- ⑨ Speed: faster






Description of the controls


Basic functions


- **Control 1 (Voice mode):**
By pressing this round key which is embossed in the center, you can adjust the following: Volume, reading speed, voice, and language. By pressing button 2 or 3 you scroll forwards or backwards within every submenu. The selected adjustment will be announced.
- **Control 2 (arrow key showing to the left):**
In any menu level, the left arrow key guides you to the previous parametric value or reduces e.g. reading speed or volume.
- **Control 3 (arrow key showing to the right):**
In any menu level, the right arrow key guides you to the previous parametric value or reduces e.g. reading speed or volume.
- **Control 4 Color selection and Viewing mode (active only in combination with low vision module):**
By pressing this rectangular key which is embossed in the center, you can set your color and viewing mode, when activated in combination with the low vision function (available as an option).
- **Control 5 (reading mode):**
By pressing this round key which is embossed in the center, you can select the following reading modes: Words, sentences, paragraphs, document, column detection, characters. Pressing one of the arrow keys in this menu level allows you to jump backwards or forwards within the current text.
- **Control 6 (stop reading mode):**
By pressing this rectangular key which is not embossed in the center, you exit reading mode.
- **Control 7 (Reading / Scanning / Pause / Play):**
By pressing this round key which is embossed by a dash in the center, a document is going to be scanned. During processing, an acustical signal can be heard. When scanning has been completed, reading of the text starts automatically. When pressing this key again, reading will be paused. When pressing this key in pause mode, reading continues.
- **Control 8 and 9:**
Pressing this buttons makes the reading speed slower (Controll 8) and faster (Coltroll 9)
- **Key combinations**
- By shortly pressing buttons 1 and 5 simultaneously the current picture will be saved as picture file.
- By pressing buttons 4 and 6 simultaneously, you open a picture file. Date and number of picture will be announced.
- By pressing button 2 or 3 you scroll within the saved images. Stop scrolling by the image that you want to be read out loud. Press button 7 in order to activate reading of the saved image.


- By firmly pressing buttons 1 and 5 simultaneously the current image will be deleted. To delete the next image, firmly press both buttons 1 and 5 simultaneously, again.
- By shortly pressing button 6 the image loading mode will be closed.
- Press key 7 shortly in the image loading mode in order to capture it and start reading.


Overview of the function controls

| Key 1 | Voice mode | Settings/adjustment range |
|---|--|---|
|  | Volume control | 20 40 60 80 100 |
| | Reading speed | 20 40 60 80 100 |
| | Current Reading voice | e.g. German: Hans (male), Marlene (female) |
| | Non selected reading voices | Norwegian (choice of 3 languages) |
| Key 2 | Parametric value backwards | Settings/adjustment range |
|  | Selection key | Reduce value or jump backwards |
| Key 3 | Parametric value forwards | Settings/adjustment range |
|  | Selection key | Increase value or jump forwards |
| Key 4 | Colour mode selection | Settings/adjustment range |
|  | Colour combinations* (only active in combination with the optionally available low vision module) | full colour display black font, white background white font, black background black font, yellow background yellow font, black background black font, green background green font, black background blue font, yellow background yellow font, blue background |
| Key 4 | Viewing mode | Settings/adjustment range |
|  | Displays* | Display the text in a line |
| | | Display the text in columns |
| | | Display the text word by word |
| | | Wrapped view |
| | | View by default |
| | | Enhanced display (Redrawn view) |

| Key 5 | Reading mode | Settings/adjustment range |
|---|--------------------|---------------------------|
|  | Words | Select words |
| | Show paragraphs | Select paragraph |
| | Document | Beginning End |
| | Column recognition | ON OFF |
| | Characters | Spell |

| Key 6 | Exit functions | Settings/adjustment range |
|---|----------------|---------------------------|
|  | In stop mode | Exit all functions |

| Key 7 | Reading/Scanning | Settings/adjustment range |
|---|------------------|---------------------------|
|  | In stop mode | Capture start reading |
| | In reading mode | Pause Play |

| Key 8+9 | Speed | Settings/adjustment range |
|---|--------|---------------------------|
|  | slower | 20 40 60 80 100 |
| | faster | |

Set up VOXbox

Turn ON VOXbox in mains operation

Connect the power cord firmly to a power outlet. Then press the (blue) ON/OFF button at the side of the operating board in order to turn the unit ON. During the boot process you will hear a vibrant buzz. After the booting process has been completed, you will hear a signal and a voice that the camera is ready.

Turn OFF the VOXbox

Press the (blue) ON/OFF button at the side of the operating board in order to turn the unit OFF. You will hear an audible feedback when VOXbox will shut down in a controlled manner.

Note: It takes approx. 20 seconds until the VOXbox will be shut down completely. Do not remove VOXbox from power supply during the shut down process.

Saving of individual adjustments

When turning the unit OFF, all individual adjustments will automatically be saved and recalled when turning ON again.

Replacement of lighting

The camera scanner is equipped with high power LED lighting. If replacement of the lamp is required it should only be done by an authorized technician or by Reinecker Vision GmbH.

Low Vision module

When adding the low vision module as an option, you can upgrade your VOXbox to a two-in-one system that combines reading with magnifying. The low vision module consists of a mouse, a HDMI cable, USB interface and a USB dongle. You need the USB dongle in order to activate the low vision functions.

Connection of a monitor

When connecting a monitor to VOXbox, your documents can be displayed even in magnification modes on that external screen.

- Connect a monitor via HDMI cable (not included in the scope of delivery) with the HDMI port of the VOXbox.



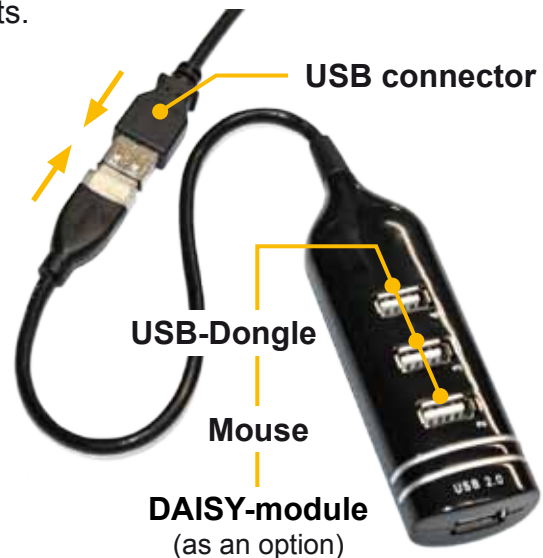
HDMI input jack

USB interface

The integrated USB interface offers up to 4 ports.

- Connect the Mouse and the Dongle with the USB-interface.
- Connect the power cable with a wall socket and turn the system ON.
- Press the blue ON/OFF button at the side of the operating board in order to boot the VOXbox. After approx. 40 seconds the system is ready for operation.

Note: When upgrading VOXbox with the optional low vision module, you need to connect the USB interface with the USB output of VOXbox.



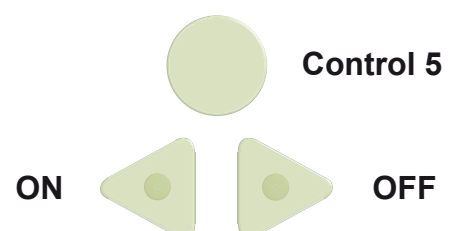
Low vision functions - Display on Screen

(Only active, after having purchased the optionally available low vision module)

Column recognition ON/OFF

Determine the column recognition prior to scanning a document. The automatic column recognition can be turned ON and OFF.

- Press control 5 at the operating board and select the menu option column recognition.
- By pressing the parametric backwards and forwards keys, you turn the column recognition either ON or OFF.



How to capture a document

- Move the cursor to the loudspeaker icon at the bottom left side of the screen and press the left mouse key.
- The document will be captured and read out loud line by line.



Capture

Start/Pause

- By pressing the left mouse key again, reading mode will be paused or activated. The Start/Pause icon will be displayed at the bottom left side.
- While in Pause mode, you can select a text passage from which reading shall be started, by moving the cursor there. Press the left mouse key to activate reading.



Start

Pause

Stop reading mode

- If you want to quit the reading mode, move your mouse cursor to the X-icon which is located at the bottom right side of the screen.



Stop

Menu selection

- You get the menu selection by pressing the left mouse when while clicking to the tool symbol.



Menu settings

Color selection

Select the color that suits you best. True color is helpful when viewing at photos. In artificial color mode always two different colors will be combined and contrast enhanced displayed on the screen.

| Color | | | |
|---------------------|--|--|--|
| full colour display | | | |
| black on white | | | |
| white on black | | | |
| black on yellow | | | |
| yellow on black | | | |
| black on green | | | |
| green on black | | | |
| blue on yellow | | | |
| yellow on blue | | | |

Reading mode

Within the reading mode you can adjust color combinations and text passages according to your individual needs.

| Read out loud | Emphazize | Color | Type |
|---------------|------------------|--------|------------|
| | | red | Framework |
| | | green | Underline |
| | | blue | Background |
| | | yellow | |
| Read out loud | View | | |
| | highlighted | | |
| | Original | | |
| | Enhanced display | | |
| | Show a line | | |
| | Show a column | | |
| | Show a word | | |

Voice mode

Choose of 3 different languages and its version. Select your language first, then the corresponding voice (in some languages female or male voices can be chosen from). Adjust reading speed and volume.

| Language | Reading speed | Volume | Voice |
|----------|---------------|--------|-----------------------|
| | 20 | 20 | |
| | 40 | 40 | |
| | 60 | 60 | |
| | 80 | 80 | |
| | 100 | 100 | |
| | | | choice of 3 languages |
| | | | |

Selection of different voices

You have the choice of 3 languages.

Other

With the capture delay you can determine when scanning shall be started.

| Capture delay | | | |
|---------------|--|--|--|
| 1 seconds | | | |
| 4 seconds | | | |
| 7 seconds | | | |
| 10 seconds | | | |
| 15 seconds | | | |
| 20 seconds | | | |

Help

The hardware identification of your VOXbox will be displayed which is important for identification of software licenses. Reset VOXbox to factory settings by “Loading default settings”.

| Help | | | |
|--------------------------|--|--|--|
| Hardware-Identifikation | | | |
| Loading default settings | | | |

Quit/Exit

VOXbox shuts down automatically.

Note: It takes approx. 20 seconds until VOXbox will be turned OFF completely. Do not remove VOXbox from power supply during this process.

Technical data

- **Language features:** Navigation: paragraph by paragraph, sentences by sentences, word by word, character by character
- **Languages:** choice of 3 languages
- **Output:** 2x1 watt stereo active speakers,
3,5 mm jack socket for headphones
- **Magnification:** Available low vision module only:
magnification approx. 2,2 to 110x (with a 24" class monitor)
- **Color mode:** True color, pre-selected color combinations
- **Connections:** HDMI and USB
- **Weight:** approx. 3 kg
- **Dimensions:** approx. 30 x 27 x 13 cm (W x H x D)

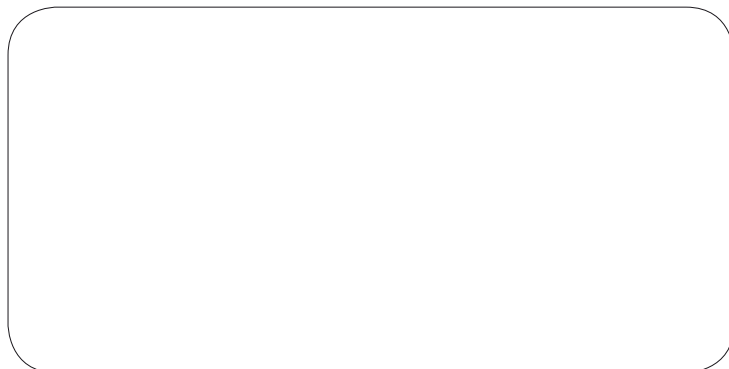
Warranty Information

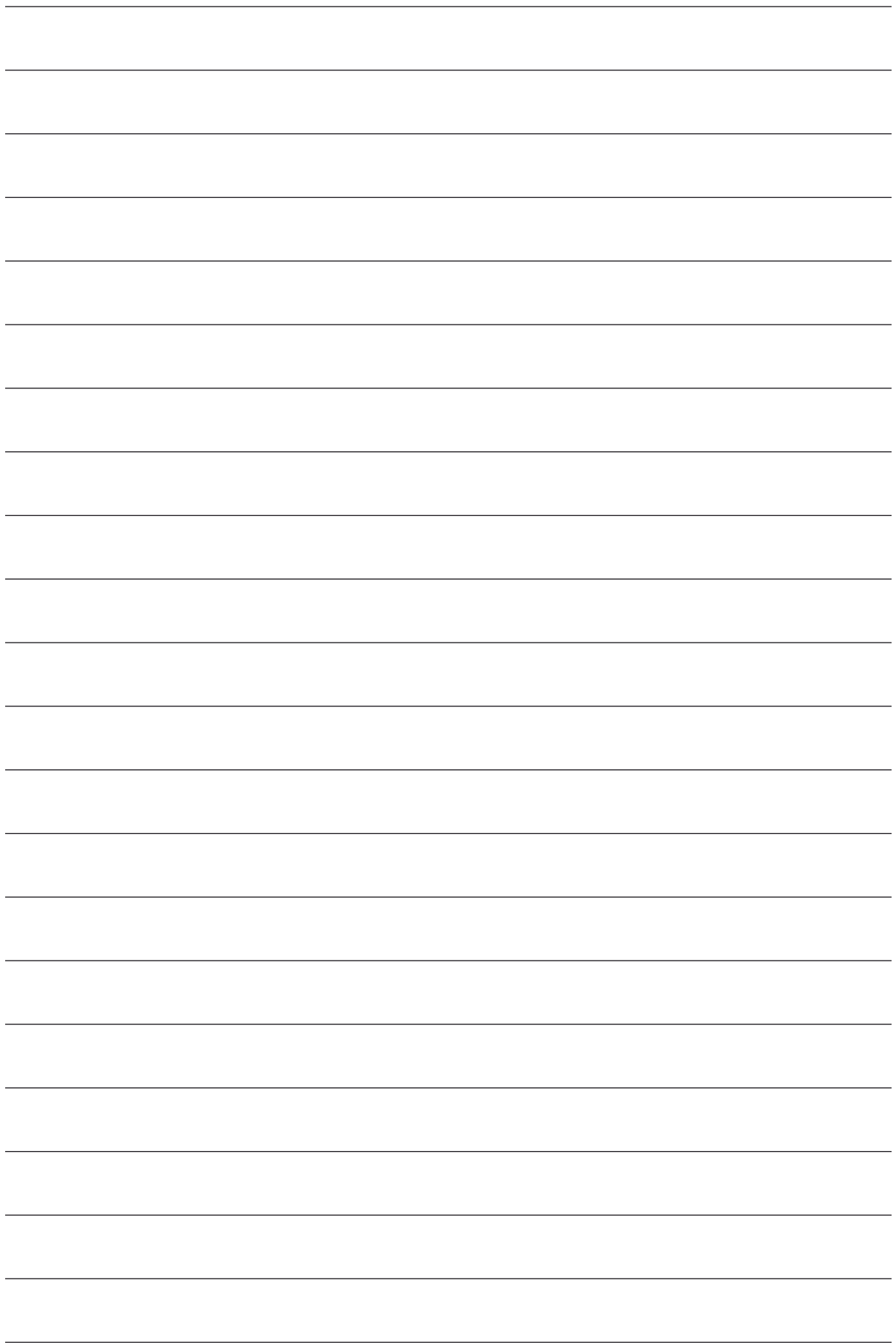
1. Reinecker Vision GmbH grants a warranty of 24 months (warranty period only valid within the European Union) against defects in manufacture counted from date of invoice ex Reinecker Vision GmbH.
2. All parts that have been replaced when repairing the unit will automatically become property of Reinecker Vision GmbH.
3. Damage caused by improper use or by non-compliance with the operating instructions will result in the invalidation of the warranty.
4. Interventions from persons other than Reinecker Vision GmbH authorised specialists may lead to invalidity of warranty.
5. Not included in this warranty are light sources serving to illuminate the reading object, batteries and other parts subject to wear and tear.
6. If a warranty claim is necessary, the system has to be returned to the manufacturer in Alsbach-Hähnlein or to your authorised dealer in the original packaging including all components. The manufacturer does not carry the cost for transport, packaging and insurance.

Phone number: +49 (0) 625793110

View our General Terms and Conditions.

Your authorized distributor:





Type: VOX*box* (VOXBOX3.0)

Serial-Number:

Manufacturer: Reinecker Vision GmbH

Final examination:

Power supply: 100 VAC – 240 VAC 50-60 Hz

Power consumption: max. 50 watt

**Reinecker Vision GmbH
International Contact**

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Tel.: 0 18 05-54 56 65*

Fax: 0 62 57-93 11-8008

Email: info@reineckervision.de

www.reineckervision.de

*Festnetzpreis 14 ct/min, Mobilfunkpreis max. 42 ct/min

In case service is necessary, please contact your authorized distributor.

Bitte wenden Sie sich bei Fragen oder einem Servicefall direkt an unser Hauptwerk in Alsbach-Hähnlein oder an eine unserer Niederlassungen.

Bei im Ausland erworbenen Produkten kontaktieren Sie im Servicefall bitte Ihren dort ansässigen Händler.