

**to see with different eyes.**

products for the visually impaired - Development - Production - Sales



# Vario 340

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## User Guide

User guide version: 4.0

English 01/2026



# VisioBraille - see with different eyes

We continue the products of VisioBraille GmbH and BAUM Retec AG!

We, LUCAS components GmbH, are convinced of the quality of the screen readers in the VISIO product family and the VARIO Braille displays. Encouraged by the overwhelmingly positive feedback from customers and distributors, we have decided to continue manufacturing VisioBraille GmbH products and to ensure ongoing service. On this basis, newly developed devices will continue to be available to users in the future.

Encouraged by the overwhelming positive reactions of customers and distributors, we at LUCAS components GmbH have decided to continue manufacturing the products of the company VisioBraille GmbH. In addition, we offer service and support for products from the company BAUM Retec AG.

Building on this foundation, our customers can look forward to newly developed devices in the future.

With these innovative tools, we want to balance the limitations of blind and visually impaired people in the best possible way, strengthen your independence and provide assistance on the way to an independent everyday life.

We reach this aim through our strong commitment developing quality products, through years of experience in this field, through our excellent Know-how and proven expertise, using state-of-the-art technologies that significantly improve the quality of life of our customers. Ergonomics, design and quality of the products developed and produced in Germany fulfill the highest demands.

In the private sector, as well as in education and work, you can break down barriers using our high-quality products and continue to drive your success.

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# 1 About this user guide

Thank you for choosing a Vario 340 from LUCAS components GmbH. The purpose of this user guide is to provide the end user and/or their service provider with details on how to use Vario 340.

Vario 340 is a high-quality, German-made braille display, which will provide you many years of reliable service. This user guide contains everything you need to know to use your new device.

As you will learn, Vario 340 is very easy to use. In addition to instructions on how to operate the device, this user guide also includes recommendations about what to do if anything goes wrong with the device, and important safety guidelines.

We advise that you store this user guide in a safe place for future reference.

This user guide is a part of the Vario 340 product and should be always kept with the product. In the event Vario 340 is sold to a new end user, this user guide must be provided to them.

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## 2 About Vario 340

Vario 340 is the newly launched Braille display from LUCAS components GmbH. It was designed to be a high quality yet affordable braille display for computer users in need of a compact device. It has 40 braille cells and 6 display buttons. Vario 340 features a reversible USB Type C port, which means it doesn't matter which direction the USB plug is facing. No more need for testing and finding the right way to plug it in. Also, the power will be delivered over the USB-Port. The device is so power efficient that no battery or additional power plug is needed. Like other BAUM refreshable braille displays, Vario 340 is a Human Interface Device (HID), which means a driver does not need to be installed to use it.

A specific feature of the Vario 340 is, that it can be used in reverse. This means that the braille cells are now in the back of the braille display.

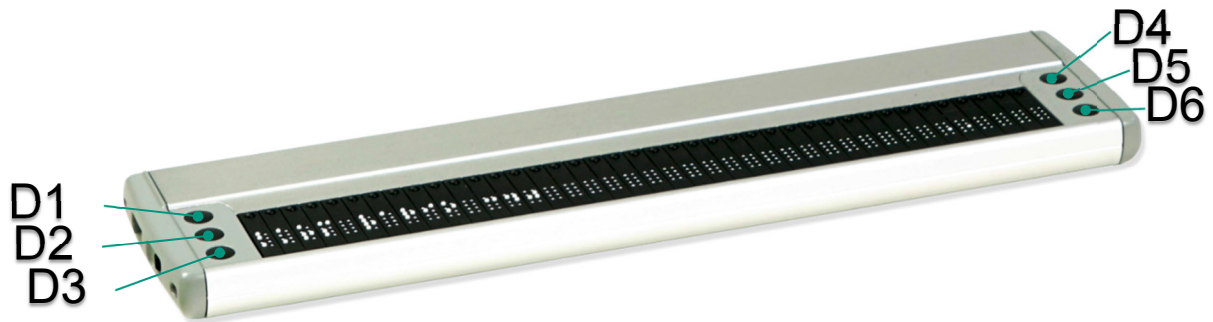
## 3 Before you begin

Please read the safety instructions at the end of this user guide and check the contents of the packaging.

### 3.1 What's in the box

- 1 Vario 340 Braille Display
- 1 USB C cable
- 1 manual

## 4 Vario 340: Getting to know the Device



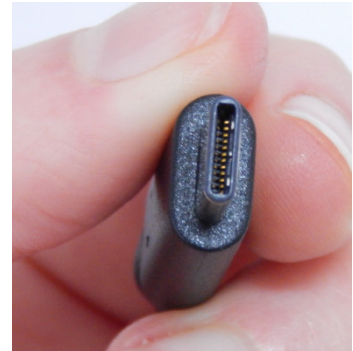
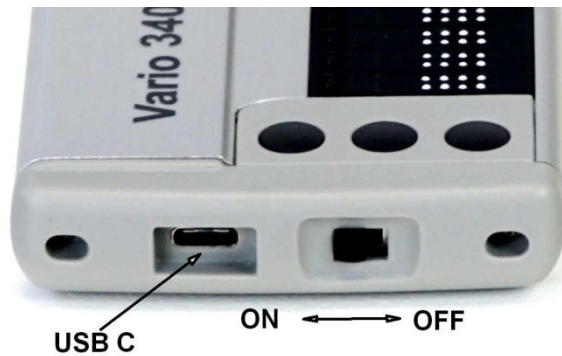
### 4.1 Top Side

The top of Vario 340 features a refreshable braille display with 40 braille cells, cursor routing buttons, and 6 display buttons. Three of the display buttons are located on the left side of the braille cells, the other three on the right side. Let's take a closer look.

#### 4.1.1 Braille Display and Display Buttons

To the left and right side of the braille display, you will find three small, round buttons. These are the display keys, which we refer to as D1, D2, D3, D4, D5, and D6. Think of these 6 buttons as a braille cell split in two, with D123 on the left and D456 on the right. These buttons are used to navigate the display left and right, up and down, and used to control the screen reader on a computer.

## 4.2 Left Side



On the left side of Vario 340 you can find the USB port, which is USB type C. Special about the USB Type C port is, that it doesn't matter which direction the USB plug is facing. No more finding the right position of the plug.

With this USB Port and the included cable, the Vario 340 is connected to a computer. The cable is simultaneously used for power supply and USB connection.

Next to the USB port is the power switch, which slides away from you to power on the device. That means the switch must be slide towards the USB port to be on.

## 5 First steps

As a low-power USB device, the power consumption of the Vario 340 is so low that the battery life of a connected notebook is only insignificantly reduced. By dispensing with a battery, the Vario 340 is particularly well-suited for continuous operation on a computer, as no battery needs to be replaced or can be damaged by the permanent power supply.

Connect the Vario 340 to a free USB port on your computer using the supplied USB cable. If you use a USB hub, it should have an active power supply; otherwise, smooth operation cannot be guaranteed. Operation with other USB cables is possible but not recommended. If you wish to operate the Vario 340 on a USB-C port, the use of a USB-C adapter is advisable.

After you have connected the Vario 340 to the computer, slide the switch on the left side backwards towards the USB socket. After 10 seconds, the power-on message "VisioBraille Vario 340" followed by the version number is displayed. When set up correctly and after starting a screen reader, this message is replaced by the screen reader's display, and you can control the screen reader using the display buttons.

To switch off, slide the switch forward or away from the USB socket, or remove the USB cable. You do not need to switch off the Vario 340 when you unplug the USB cable. However, the switch is useful if you are using a USB port with a permanent power supply. This could be notebooks with USB sockets for charging smartphones while switched off, or if your workstation computer must remain switched on permanently.

The Vario 340 has an energy-saving mode. If there is no change in the Braille display for five minutes, the Vario 340 switches off until you either press a key or the screen reader updates the display. If you use a blinking cursor in your screen reader, this will prevent energy-saving mode. You can find information on how to deactivate a blinking cursor in the documentation of your screen reader.

The Vario 340 can also be operated upside down. This is preferred by some users because the rear part then serves as a palm rest; the Braille modules are then located in the rear part and the cursor routing keys in front of them. The orientation of the display buttons changes accordingly. Once the mode is activated, the Vario 340 remains in this mode until you change it again. If the start-up message is displayed upside down when switching on, the orientation is rotated.

To activate the upside-down mode, press and hold display buttons D2+D5 (the middle two display buttons) while switching on the Braille display. You can switch the Vario 340 back to normal display mode in the same way.

## 5.1 Updates for Vario 340

Your Vario 340 generally does not require any updates. Should it become necessary for technical reasons, your dealer or LUCAS components GmbH can perform an update. The version currently available at the time of this manual is 2.1. If you have an older firmware version or if the Vario 340 does not function as expected, please contact your supplier.

## 6 Braille Display Functions

Depending on your screen reader, there are a few points you need to keep in mind. You do not need a device driver because the computer automatically recognizes and integrates the HID device. Below, we point out some special features for common screen readers that are valid at the time this manual was created. Please note that changes may occur depending on the version.

When using JAWS for Windows, you need the installation file "jaws\_uni\_15\_53.exe," which you can download from our websites. First, install and activate JAWS, then install the downloaded driver file. The Vario 340 will be recognized and connected directly after starting JAWS following a restart. With older JAWS versions, you may need to activate the "BAUM Universal USB" driver in the JAWS menu under "Options," "Braille," and using the "Add Braille Display" button. Follow the instructions; JAWS must be restarted afterwards.

Dolphin ScreenReader and Supernova Magnifier & ScreenReader recognize the Vario 340 via the Dolphin Synthesizer Access Module (SAM), which can be accessed via the Supernova Control Panel in the "General," "Advanced" menu. The Vario 340 is recognized there as "VisioBraille VarioUltra Braille Display." If the recognition does not work automatically, check the box in the SAM list and click "Detect all devices." The detection may take some time and must be carried out completely once.

In conjunction with NVDA for Windows, use the automatic braille display detection. This is activated by default and recognizes the Vario 340 automatically. Otherwise, use the driver for "BAUM / HumanWare / APH / Orbit Braille Displays." Press the NVDA key and N for the NVDA menu, then select "Options," "General," and then the "Braille" tab to change the settings.

On Apple computers, simply connect to the Vario 340 and activate VoiceOver with Command + F5. The braille display is automatically recognized immediately.

# 7 Key Assignment

Below you will find the key assignments for the supported screen readers. While the basic functions are similar, there are some significant differences in certain areas. You can define all unassigned combinations, as well as D-key + routing keys, yourself. These tables do not claim to be correct or complete, as changes may occur depending on the version. For the exact key assignments and information on how to assign your own functions, please refer to the documentation of the respective screen reader.

## 7.1 JAWS for Windows

The following table contains all current key assignments based on JAWS Version 2025

### Display Keys

(Braille)	Action:
D1+D2+D5 (h)	Keyboard Help on/off
D2+D4+D5 (j)	Bring JAWS window to foreground
D1 (a)	Move line up
D3 (.)	Move line down
D2 (,)	Pan left (one display width)
D5 (!)	Pan right (one display width)
D4 (")	Toggle between PC and JAWS cursor
D6 (')	Route Braille display to active cursor
D2+D4 (i)	Route JAWS cursor to PC cursor
D1+D4 (c)	Move to beginning of file
D3+D6 (-)	Bewegt an das Dateiene
D1+D2 (b)	Move to end of file
D5+D6 (<)	Show top edge of active window
D1+D2+D3+D5 (r)	Start Auto-Advance Braille mode
D1+D2+D4+D5 (g)	Toggle Grade 2 (Contracted Braille) translation on/off
D1+D3+D4+D6 (x)	Toggle Braille markings off

D1+D2+D3+D6 (v)	Adjust Braille verbosity
D2+D3+D5 (+)	Toggle between 6-dot and 8-dot mode
D3+D5 (*)	Move active cursor using Braille keys
D1+D4+D5 (d)	Minimize all running applications
D3+D4 (l)	Activate Start menu
D1+D3 (k)	Shift + Tab
D4+D6 (\$)	Tab
D2+D3+D4+D5 (t)	Alt Tab
D1+D5 (e)	Escape
D2+D6 (?)	Enter
D4+D5 (>)	Delete item at cursor
D1+D3+D5 (o)	Open or close a drop-down list (Combo Box)
D2+D4+D6 (9)	Close a list box
D1+D2+D3 (l)	Open Links List dialog
D2+D3+D6 (l)	Open Headings List dialog
D1+D2+D4 (f)	Open list of all active frames
D1+D3+D4 (m)	Activate menu bar
D1+D2+D3+D4 (p)	Focus previous document window
D1+D3+D4+D5 (n)	Focus on the next document window
D2+D5+D6 (/)	Close active document window
D2+D3+D4 (s)	Open JAWS Task List dialog
	Copy useful Windows shortcuts to Virtual
D2+D4+D5+D6 (w)	Viewer
D3+D5+D6 ())	Copy JAWS keys to Virtual Viewer
D1+D3+D5+D6 (z)	Announce current time

## 7.2 Dolphin ScreenReader and Supernova Magnifier & ScreenReader

Dolphin categorizes key assignments into logical groups. The following table has been sorted according to these categories based on version 24.05.

### Display Keys

(Braille)	Action:
D1+D2+D5 (h)	Keyboard Help on/off
D2+D4+D5 (j)	Open Control Panel (Action keys)
D1 (a)	Line up (Braille)
D3 (.)	Line down (Braille)
D2 (,)	Pan left (Braille)
D5 (!)	Pan right (Braille)
D4 (")	Cursor on/off (Braille)
D6 (')	Go to focus (Braille)
D1+D4 (c)	Top (Braille)
D3+D6 (-)	Bottom (Braille)
D1+D2+D4+D5 (g)	Contracted Braille on/off (Braille)
D2+D3+D5 (+)	8-dot / 6-dot (Braille)
D1+D2+D3+D6 (v)	Select Verbosity Scheme (Braille)
D2+D4 (i)	Jump to Application Cursor (Dolphin Cursor movement)
D1+D3 (k)	Shift + Tab (Simulated keystroke)
D4+D6 (\$)	Tab key (Simulated keystroke)
D5+D6 (<)	Ctrl + End (Simulated keystroke)
D1+D5 (e)	Escape (Simulated keystroke)
D2+D6 (?)	Enter key (Simulated keystroke)
D1+D3+D4 (m)	Alt (Simulated keystroke)
D3+D4 (l)	Windows key (Simulated keystroke)
D2+D3+D4 (s)	Item Finder (Lists)
D2+D3+D5+D6 (=)	Taskbar (Lists)
D1+D3+D5+D6 (z)	Announce date and time

## 7.3 NVDA Screenreader for Windows

For comfortable use, we recommend the "Braille Extender" add-on, which must be installed optionally and contains additional key assignments. The following table is based on NVDA 2025 and the factory default assignments.

Display Keys (Braille)	Action:
D1+D2+D5 (h)	Input Help on/off
D1 (a)	Navigate to previous line
D3 (.)	Navigate to next line
D2 (,)	Pan left (one display width)
D5 (!)	Pan right (one display width)
D4 (")	Emulate Shift + Tab key
D6 (')	Emulate Tab key
D1+D2 (b)	Emulate Ctrl + Tab key
D2+D3 (;)	Emulate Alt + Tab key
D4+D5 (>)	Emulate Page Up key
D5+D6 (<)	Emulate Page Down key
D2+D6 (?)	Emulate Home key
D3+D5 (*)	Emulate End key
D1+D4+D6 (3)	Emulate Ctrl + Home key
D3+D4+D6 (0)	Emulate Ctrl + End key
D1+D5+D6 (5)	Emulate Ctrl + Shift + Escape key
D1+D3+D4	Emulate Ctrl + Shift + Escape key
D4+D6 (\$)	Emulate Applications key (Context Menu)
D1+D5 (e)	Emulate Windows key + E (File Explorer)
D1+D2+D3+D5 (r)	Emulate Windows key + R (Run Dialog)
D1+D3+D4+D6 (x)	Emulate Windows key + X (Quick Link menu)
D1+D4+D5 (d)	Emulate Windows key + M (Minimize all)
D1+D4 (c)	Route NVDA cursor to first line
D3+D6 (-)	Route NVDA cursor to last line

D1+D2+D4 (f)	Set navigator object to current focus
D2+D4+D5+D6 (w)	Read all controls in the current window
D2+D3+D5 (+)	Announce formatting information at the current cursor position
D1+D2+D4+D5 (g)	Lock or unlock the left mouse button
D2+D3+D5+D6 (=)	Lock or unlock the right mouse button
D2+D3+D6 (l)	Simulate a single left mouse click
D3+D5+D6 (r)	Simulate a single right mouse click

## 7.4 Vario 340 with Mac OSX and VoiceOver

Currently, only the basic functions of the Vario 340 are assigned in macOS; however, you can define your own assignments in the VoiceOver settings. We have informed Apple of this situation and hope that this will change in future versions.

### Display Keys

(Braille)	Action:
D1 (a)	Move line up
D3 (.)	Move line down
D2 (,)	Pan left (one display width)
D5 (!)	Pan right (one display width)
D4 (")	Stop interacting with object
D6 (')	Start interacting with object

## 8 Troubleshooting

Although the Vario 340 is a solid and easy-to-use Braille display, malfunctions may occur from time to time. The following list will help you resolve typical errors. If these steps do not succeed, please contact your dealer.

### **The device does not turn on.**

Please turn the Vario 340 off and then on again. Ensure that the USB cable is connected to a computer that is powered on or to a functioning USB port. If necessary, test the port with another USB device and listen for acoustic signals from the operating system when switching your Vario 340 off and on. It is essential to use the original cable provided and to check any USB hubs that may be connected in between. We recommend connecting the Vario 340 directly to a USB port on your computer.

### **The Braille display shows "Vario 340" but does not function.**

This usually happens when the Vario 340 is not recognized by your screen reader. Follow the points mentioned above and, if using JAWS, ensure that the additional driver has been installed. If available, test the Vario 340 with a different screen reader or computer to better isolate the problem. If you are using a screen reader that does not support the Vario 340, please contact your dealer.

### **The Braille display shows incomprehensible characters.**

It is possible that the Braille display is inverted and upside down. To reverse this, turn off the Vario 340 by sliding the power switch away from the USB port. Connect the Vario 340 to the USB port. Hold down display keys D2+D5 and slide the power switch toward the USB port.

**The performance of some modules is impaired.**

Depending on the intensity of use, sebum and other fibers can deposit in the module caps over time, preventing the smooth movement of the pins. This can cause dots to weaken or, in extreme cases, result in the pins wearing down. Under normal usage conditions, you can try disconnecting the Braille display and wiping the modules—pointing downward—with a cloth slightly dampened with alcohol. Only do this if you have sufficient experience; such cleaning is at your own risk. It is even better and highly recommended to have the device cleaned regularly by us or your supplier; with regular use, this should occur at least every two years. If the problem cannot be solved this way, the modules may be defective or worn out. In these cases, the affected elements must be replaced.

If the problem cannot be resolved, please contact your dealer. For safety reasons, do not continue to use a defective device! Pull the plug and disconnect the power supply. Please contact your dealer or LUCAS components GmbH immediately.

You can reach the service department of LUCAS components GmbH by phone at +49 (0)3641 - 6686-133 in Germany. Our colleagues will assist you in checking the device and, in the event of a defect, can arrange for the device to be picked up. In this case, you will be sent a service box in which you can pack the device.

## 9 Compliances

### 9.1 Product Type

The product is an electronic Braille display designed for the electronic presentation of text in tactile form as Braille. According to DIN EN ISO 9999, it is classified as a "Tactile Computer Display"—devices that present information from a computer via the sense of touch (Code 22 39 05).

### 9.2 CE Conformity

This product conforms to the guidelines of the European Union and takes the CE- and RoHS Marking.

**WARNING:** The use of cables, power supplies, or spare parts that have not been expressly approved by the manufacturer of the device may lead to an increase in emissions or a reduction in electromagnetic immunity, thereby posing a significant safety risk.



### 9.3 Environmentally friendly disposal according to EU-Directive (EU) 2012/19EU



The symbol (crossed garbage can), which is also attached to the device, states that this device and its accessories, once come to the end of its lifetime, should not be regarded as household waste. An environmentally friendly way of final disposal is compulsory.

This device contains electronic components. To avoid risks or dangers for the environment through non-professional waste disposal, the disposal of this device and its accessories must correspond to the valid EC-Directives or other local regulations. Please check your local regulations for proper disposing of this device or consult your local distributor.

For data privacy protection reasons, please remove all personal data from the device prior to disposal.



## EG Konformitätserklärung *EC Declaration of Conformity*

Wir, die Firma  
*We, the company*

LUCAS components GmbH  
Max-Grossmann-Straße 1  
07745 Jena

erklären hiermit, dass das folgende Produkt  
*declare that the following product*

### Vario340 (Rev.2)

die grundlegenden Anforderungen der aufgeführten EU-Richtlinien erfüllt:  
*meets the essential requirements of the following EU-Directives:*


- |            |   |
|------------|---|
| 2014/30/EU | Richtlinie über die elektromagnetische Verträglichkeit /<br><i>Directive on electromagnetic compatibility</i>   |
| 2011/65/EU | Richtlinie zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und<br>Elektronikgeräten /<br><i>Directive on the restriction of the use of certain hazardous substances in electrical and<br/>electronic equipment</i> |

Folgende Normen und Standards wurden angewandt:  
*The following norms and standards were applied:*

EN55035:2017 + A11:2020  
EN55032:2015 + AC:2016 + A11:2020 + A1:2020

Bevollmächtigter zur Zusammenstellung der technischen Unterlagen  
*Authorized person for technical documentation*

Jena, 19.01.2026  
Ort, Datum

  
Thomas Lucas  
(Geschäftsführer)

Diese Erklärung gilt für alle identischen Einheiten des Produkts, die gemäß den Konstruktions-, Fertigungszeichnungen und Beschreibungen hergestellt wurden, die integraler Bestandteil dieser Erklärung sind. Die Sicherheitshinweise in der mitgelieferten Bedienungsanleitung müssen bei der Verwendung des Produkts beachtet werden.

*This declaration applies to all identical units of the product manufactured in accordance with the design, manufacturing drawings and descriptions that form an integral part of this declaration. The safety instructions in the supplied operating manual must be observed when using the product.*

# 10 Limited Warranty

Every product manufactured by LUCAS components GmbH is tested for flawless functionality before leaving the factory to ensure long-lasting operation. In addition to statutory warranty claims, end consumers receive a voluntary factory warranty covering all parts under normal use of the device. When asserting a warranty claim, please note the following points:

- For end consumers, the warranty period is 24 months from the date of purchase; for institutions and organizations, it is 12 months.
- The warranty covers all components; however, a warranty of only six months is granted for wear parts such as batteries, Braille pins, and data storage media.
- The warranty claim expires in the event of liquid damage, external interference, or demonstrable damage not attributable to normal use of the device.
- For repairs, the warranty is limited to two years or six months (see batteries) specifically for the repaired components.

Defects caused by the user or through improper or non-intended use are excluded from warranty claims. In these cases, we will provide a cost estimate for a repair order. These costs will be credited if a repair order is placed.

Parts replaced during a repair or rectification become the property of LUCAS components GmbH.

The device is intended for use by end customers or individuals at home or in the office. LUCAS components GmbH reserves the right to repair the device or replace it with an equivalent product, for example, if a repair should prove uneconomical.

Liability on the part of LUCAS components GmbH or its representatives for indirect or consequential damages is excluded in all cases. The warranty is valid only on the condition that the device has been serviced

in the country where it was purchased by LUCAS components GmbH or a partner authorized by LUCAS components GmbH, and that all warranty seals are intact. In the event of further warranty claims or maintenance measures during or after the warranty period, please contact your dealer.

LUCAS components GmbH assumes no liability for any use of the device other than that described in the manual.

For repairs or rectifications, the device must be sent to LUCAS components GmbH in its original box or the service packaging.

Postage, packaging, and insurance costs will not be covered by us.

Our General Terms and Conditions apply.

# 11 For your safety

**Important note:** Failure to observe the following warnings may invalidate the guarantee and could cause damage of the device or serious injury.

Please check the contents of package before you use the device. If parts are damaged or missing, please do not hesitate to inform your dealer.

Please keep the shipping box, so you can safely pack the device in case you have to ship it for service, etc. Improper packaging could cause loss of warranty. In case you need a new shipping box, your dealer can send you one.

Please carefully read the user guide and safety instructions before you use the device for the first time.

This device may only be used in a home or office environment.

Do not place on an instable surface. It may fall causing serious damage to the device or injury to the user. Please follow the instructions on how to place the device especially in respect to avoidance of tilting and falling by keeping proper space to edges of table.

Connect the power supply to a grounding-type power outlet only.

Do not use the device if you find any damage to the device or wires.

If the device appears to be operating abnormally, or to be damaged in any way, please contact your LUCAS components GmbH dealer as soon as possible.

If you smell smoke or an odor coming out of the device, turn off the power immediately and unplug the cable.

Do not try to repair the device yourself. Opening or removing housing may cause damage or injury.

Do not allow sand or dust to come into contact with the device as this may lead to serious damage and could make repair impossible.

Use the device with clean hands only.

Do not use it in locations where strong radio waves are emitted or where there is radiation. Keep a distance of at least 30cm to mobile phones.

Only use original accessories. Use of second source accessories may damage the device or cause malfunction or safety issues.

Do not use a power supply not made for this device. Only use the original power supply!

Do not use the power supply with other devices.

Avoid liquids and food near the device.

Do not use or store the device in any of the following places as this may cause damage:

- Inside cars parked with the windows closed in the hot sun.
- In direct sunlight or close to heaters, radiators, etc.
- Locations are subject to severe vibration such as on top of a washing machine.
- Locations subject to strong magnetism such as near loudspeakers.
- Humid places (bathrooms), in water, or near water.
- In rain or snow
- Do not use or store below 0°C / 41°F or above 40°C / 104°F.
- Humidity shall be within 20% to 80%
- Avoid fast temperature changes

If you bring the device from cold places into a warm room, humidity may condensate. Wait until the device is dry and well-tempered to room temperature before use.

Unplug from mains before cleaning.

Wipe dust and dirt from the device with a soft cloth dampened with a diluted neutral detergent, then wipe dry with a cloth. Do not bring in contact with water.

Do not insert objects into openings.

Do not use device during thunderstorms. Unplug from mains during thunderstorms. We recommend use of an overvoltage protection adapter, which can be bought from your local electro store. Please note, this does not provide a 100% protection from overvoltage.

Do not insert or remove the plug with wet hands.

Do not heat in a microwave oven, on a cooker or similar.

Never disassemble, attempt to repair or modify device yourself.

If liquids or metal fragments should enter device, switch it off and remove the power lead immediately.

Do not pull the plug out by the lead when removing the power plug.

Avoid shock. Do not throw or let fall.

Repairs may only be carried out by LUCAS components GmbH service personal or by service technicians authorized by LUCAS components GmbH.

## **Care and Maintenance**

Avoid moisture and dampness.

Clean the housing only with a clean, dry cloth. Do not use cleaning agents or solvents.

For intensive cleaning, please contact VisioBraille GmbH or your dealer.

In cases of extreme cold or frost, the device will not function and must be brought to room temperature slowly.

Avoid mechanical damage to the housing or the accessories.

## 12 Technical details

- 40 Braille cells with integrated Cursor Routing buttons
- HID - Human Interface Device
- Six function keys
- Power switch
- USB Type C Port
- Housing: Aluminum, brushed
- Measurements: 30.2 x 2.1 x 7.2 cm (11.9 x 0.8 x 2.8 inches)
- Weight: 540 g (1.1 pounds)
- Power supply via USB
- Charging rate: 500mA max.

# 13 Information on Re-use

## **Product Type:**

Electronic Braille display for the electronic presentation of text in tactile form as Braille. Classified according to **DIN EN ISO 9999** as a "Tactile Computer Display" devices that display information from a computer via the sense of touch, Code **22 39 05**.

## **Intended Use:**

Braille displays are electronic assistive devices for reading text, e.g., from a PC. Blind and severely visually impaired individuals use them to compensate for their visual impairment or condition.

## **Service Life:**

7 years from the date of manufacture, provided the prescribed maintenance cycles are followed

## **Re-use / Installation and Maintenance:**

Devices may only be technically overhauled and refurbished by LUCAS components GmbH or an authorized company. Re-use is only permitted after safety-related cleaning, disinfection, and inspection.

## **Special Instructions for Transport and Storage:**

For safety reasons, this device may only be transported in the intended original packaging or the designated service packaging. Storage must only take place in enclosed and dry rooms within the original or service packaging. The following storage and transport conditions must be observed:

- Temperature range: -10° to +50°C
- Relative humidity: 30% to 80%



**Warning:** The use of accessories other than those specified may lead to increased emissions and/or reduced immunity.





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Please be advised that this user guide may contain errors, and is therefore subject to being changed or updated without prior notice.