



VarioHID 40

USER MANUAL
HB2302A-1
09/2026

VisioBraille – seeing with different eyes

Dear customers,

For many years, VisioBraille has stood for the video magnifiers of the VISIO family and for the VARIO braille displays. Since 2025 VisioBraille has been a brand of LUCAS components GmbH, Germany. Our products, our team and our location in Jena have remained the same throughout this change, as have your contact persons.

Our devices make printed and electronic information accessible: electronic magnifiers for people with low vision and tactile displays for output in braille. At work, in education and in everyday private life - wherever access to the written word determines independence.

Our products are developed and manufactured in Germany. Development, production and repair work together at the same location. This is why we can still give you well-founded information and repair your device even after many years. When it comes to ergonomics, build quality and durability, we apply the standard that an assistive device used every day demands.

If you have any questions about your device, you can reach us by phone at +49 3641 6686 133 or by e-mail at visiobraille@lucas-jena.de. There you will speak with specialists who know your device. For advice near you, our dealer network is at your disposal.

We hope you enjoy your device.

Your VisioBraille team in Jena

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1. About this manual

Congratulations on purchasing a VarioHID 40 braille display from VisioBraille.

This manual describes the functions of the braille display, how to set it up and how to use it with screen readers. It is intended for all users of the device. No prior knowledge of braille displays is required. The device is delivered ready for use. Only a few steps are needed to set it up.

This manual is part of the device. Read it before using the device for the first time, keep it within easy reach and pass it on to the next owner.

At the end of the manual you will find our contact details and the number of our hotline, which you are welcome to contact with any questions or suggestions.

We wish you much enjoyment and successful work with your new braille display.

Conventions and abbreviations

Notes and warnings are presented in this manual as follows:

Note

A note contains important additional information, tips or explanations that make things easier to understand or help you carry out a step.

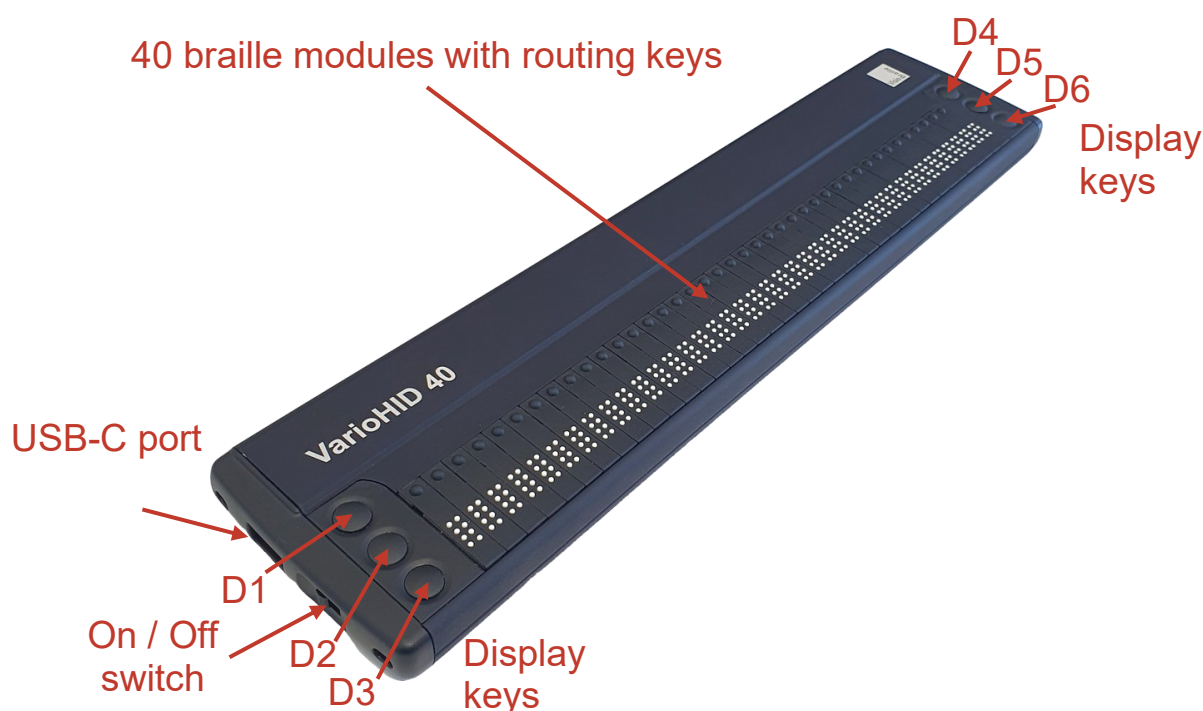
Warning

A warning indicates a possible hazard. Ignoring a warning can lead to injury, property damage or damage to the device. Warnings must therefore always be observed and the described safety measures followed.

2. About the VarioHID 40

2.1 Device description

The following describes the controls and connections of the VarioHID 40.



2.2 Top side of the device

On the top of the VarioHID 40, along the front edge, is the reading line with the 40 braille modules, each of which can display eight dots. The 40 small routing keys behind them let you jump directly to a braille character on the displayed line.

To the left and right of the braille line there are three domed, round display keys on each side. They are named D1, D2, D3 on the left and D4, D5 and D6 on the right, so that the arrangement of six dots corresponds to a braille character. The display keys can be pressed individually or in combination; the combinations differ depending on the screen reader used. You will find detailed information in chapter 5. The basic functions are similar in most screen readers. Use keys D1 and D3 to move the braille display up or down, and D2 and D5 to move it left or right. With the routing keys you jump directly to a character or element. Keys D4 and D6 have different assignments depending on the screen reader, for example toggling or coupling the system

cursor or changing the display mode. With VoiceOver you can use them to switch the navigation level. In combination with D1 and possibly D3 you reach a second level for routing.

2.3 Left side of the device



The USB Type-C port is located on the left side of the VarioHID 40. The special feature of this socket is that the plug is reversible: you can insert it either way round, so you cannot plug it in incorrectly. The VarioHID 40 is connected to the computer via the USB port using the supplied cable, which also supplies it with power.

The power switch is located in front of the USB port. Slide the switch towards the USB socket to switch on the VarioHID 40.

2.4 Intended use

The VarioHID 40 is an electronic braille display for presenting text in braille. It is intended for use at workstations in residential and commercial premises. In medical facilities it may only be used in office rooms.

The expected service life is 7 years, provided the recommended maintenance interval of 2 years is observed. The devices may only be technically overhauled and refurbished by the manufacturer or an authorised company. This service is subject to a charge.

2.5 Scope of delivery:

Please read the safety instructions and check that the delivery is complete and correct.

- VarioHID 40 braille display
- USB cable (Type C to Type C)
- USB cable (Type C to Type A)
- User manual

Please keep the packaging so that you can ship the device safely if it needs servicing. Inadequate packaging may void the warranty. If you need new transport packaging, please contact the manufacturer or your dealer.

The device may only be stored in closed, dry rooms in the original or service packaging, in accordance with the technical data specified in chapter 8.

3. Getting started

3.1 Connection

The VarioHID 40 is connected using the supplied USB cable:

Connect the narrow end of the USB-C cable to the socket in the recess on the rear left side of the housing. Connect the other end to a USB port on the computer.

To switch on the braille display, slide the switch on the left side of the device towards the USB port.

3.2 Driver installation

No driver is required to operate the VarioHID 40. Depending on the screen reader and the operating mode, the display is detected automatically, or a suitable extension for the screen reader has to be installed or activated and, if necessary, the default key assignment has to be selected. You will find more information on setting up and working with screen readers in chapter 5.

4. Functional description

4.1 Switching off and power-saving mode

To switch the device off, slide the switch forwards, i.e. away from the USB socket, or unplug the USB cable. You do not need to switch the VarioHID 40 off before unplugging it. The switch is useful if you change the mode often or use a USB port with a permanent power supply. Examples are notebooks that charge smartphones even when switched off, or computers that remain switched on permanently.

If the braille output does not change for five minutes, the VarioHID 40 enters power-saving mode. It wakes up again as soon as you press a key or the screen reader updates the display. A blinking screen reader cursor prevents power-saving mode. How to switch it off is described in the documentation of your screen reader.

4.2 Switching the operating mode

The VarioHID 40 has three operating modes, which differ in the communication protocol used: the "VarioHID" protocol, and the "VarioClassic" protocol in two variants, "Classic" and "BRLTTY", for different screen readers.

The "VarioHID" protocol implements the native HID braille protocol, which means that no drivers or extensions for screen readers are required. The only requirement is that the screen reader has implemented HID braille. More and more screen reader manufacturers are adopting this universal protocol and replacing complicated individual solutions. The "VarioClassic" protocols are based on the VisioBraille HID protocol and thus provide compatibility with previous Vario braille displays. Some screen readers require extensions for these.

You select the mode by holding down one of the corresponding display keys D4, D5 or D6 while switching the device on. The mode is retained when the device is switched off. The currently selected mode is shown at the far right of the start message. The modes, or communication protocols, are compatible with the following screen readers:

- D4 - "VarioHID" protocol: JAWS / FUSION from version 2026, NVDA from version 2021.3, VoiceOver (macOS, iOS), Windows Narrator from 2026.

- D5 - "VarioClassic" protocol ("Classic"): JAWS / FUSION, VoiceOver (macOS, iOS), NVDA, Dolphin and older screen readers that do not support HID braille
- D6 - "VarioClassic" protocol ("BRLTTY"): BRLTTY for Linux, Android, Windows, ChromeOS

You will find detailed information on using the modes, or protocols, with the various screen readers in chapter 5.

4.3 Flipping the braille display

The VarioHID 40 can be operated rotated by 180 degrees. Some users prefer this because the rear part can then be used as a palm rest; the braille modules are then at the back and the routing keys in front of them. The orientation of the display keys changes accordingly. If the start message is displayed upside down when you switch on the device, the orientation is flipped.

You change the orientation by holding down the middle display keys D2+D5 while switching on the braille display. Repeat this procedure to return to the original orientation. The setting is retained when the device is switched off.

4.4 Self-test

The self-test is used for cleaning and for checking the functions of the VarioHID 40. The self-test lets you check that the braille modules as well as all display keys and routing keys are working properly. No computer is required for this. You start the self-test by holding down keys D1 and D6 while switching the device on.

Step one: all pins up

After starting, all pins of all braille modules are raised. Feel along the line: every dot must be up.

Then press any routing or display key to go to step two.

Step two: the moving dot

The same single dot now runs across all braille modules at half-second intervals: first the left column from top to bottom, then the right column from bottom to top. After eight steps the cycle starts again. Each pin is actuated once.

Step three: checking the keys

As long as you hold down a key, the test interrupts the cycle and shows the corresponding pattern instead. When you release the key, the cycle continues. The following table lists the keys and their functions:

You hold	The display shows
Routing key	all eight dots of the corresponding braille module
D1	the first row of dots on all braille modules
D2	the second row of dots on all braille modules
D3	the third row of dots on all braille modules
D4	the fourth row of dots on all braille modules
D5	the left column of dots on all braille modules
D6	the right column of dots on all braille modules

If you hold several keys at the same time, the patterns are superimposed. This lets you check rows, columns and individual modules against each other.

Step four: ending the self-test

The self-test can be ended in two ways:

Option 1: You do not operate anything for five minutes. The start message then appears again and the braille display can once more be controlled by a screen reader.

Option 2: You switch off the braille display using the switch on the left side. After a restart, the self-test has ended.

4.5 Information on VarioHID and HID braille

HID-braille is a standard that allows braille displays to work without their own driver. The operating system recognises the display like a keyboard or a mouse, and the screen reader addresses it through the same interface. You connect the Vario and can start reading without installing anything first.

However, a standard also defines which controls exist in the first place. HID braille has a fixed list for this: dot keys, space bar, routing keys, rocker, joystick, D-pad and the two panning keys. In addition there are generic keys with no defined meaning. A key that ends up there does nothing unless it is given its own assignment.

This is why we map the six display keys to the D-pad and the two panning keys. Most screen readers come with a default assignment for this group. This means you can operate a VarioHID 40 even if no key assignment list has been set up. The previous D numbering becomes the following names and functions:

- D1 is now called "dpadUp" and acts like the up arrow.
- D2 is now called "panLeft" and moves the display back by one display width.
- D3 is now called "dpadDown" and acts like the down arrow.
- D4 is now called "dpadLeft" and acts like the left arrow.
- D5 is now called "panRight" and moves the display forward by one display width.
- D6 is now called "dpadRight" and acts like the right arrow.

We call this definition of the HID braille protocol for VisioBraille Vario braille displays the "VarioHID" protocol. The advantage of this standardisation is that all devices implementing this protocol can be interchanged without the need to set anything up again on the end device or in the screen reader.

Of course, with the VarioHID protocol you can still set up your own functions with new key combinations in the screen reader.

When integrating screen readers into other systems, it is important to know that screen readers internally sort simultaneously pressed keys into a specific order. For most screen readers this is: "DPadRight, PanRight, DPadLeft, DPadDown, PanLeft, DPadUp". It is best to test this order with your screen reader.

5. Working with screen readers

The following sections describe the setup and the default key assignments for the supported screen readers. While the basic functions are the same, there are in some cases significant differences in the extended key combinations. You can define all unassigned combinations yourself in the respective screen reader. Please note that these assignments may change due to changes made by the screen reader manufacturers. For the exact key assignments and how to assign your own functions, please refer to the documentation of the respective screen reader.

5.1 JAWS

The VarioHID 40 connects to the current version of the JAWS screen reader via the "VarioHID" protocol and via the "VarioClassic" protocol.

JAWS and "VarioHID" protocol

The VarioHID 40 can be used with the JAWS screen reader and the HID braille protocol from version 2026 onwards. Set the VarioHID 40 to the "VarioHID" operating mode. No special driver or extension for the screen reader is required. The display is detected automatically as soon as "HID Braille" is enabled in the braille display settings.

JAWS version 2026 does not yet ship with a default key assignment for the VarioHID 40 in the "VarioHID" operating mode, so initially only the basic functions are active. Create your own key assignments or download them from www.visiobracille.de/variohid-40/, unpack the ZIP file and follow the enclosed instructions.

JAWS and "VarioClassic" protocol

JAWS versions earlier than 2026 do not implement HID braille. Using the established "VarioClassic" protocol, the display can be connected like older Vario braille displays. To do this, a JAWS extension must be installed, unless it has already been set up for other Vario braille displays. Set the VarioHID 40 to the "Classic" operating mode.

Download the JAWS extension from the website www.visiobracille.de/variohid-40/. It is a ZIP file named "vb-vario-screenreader-jaws_extension-v15.53-

20260922.zip", which contains an executable file and instructions.

First install JAWS and activate it. Then run the downloaded executable file to start the installation of the JAWS extension. You will be guided through a simple installation dialog in which you have to confirm "Next" a few times and then "Finish" or "Done".

Then restart the computer once and start JAWS. As a rule, the VarioHID 40 is detected automatically. With some older JAWS versions you may have to activate the "BAUM Universal USB" driver in the JAWS menu under "Options", "Braille" and the "Add Braille Display" button. Follow the instructions; JAWS must then be restarted.

JAWS default key assignments

The following table contains the most important key assignments for the VarioHID 40 in JAWS. The assignments apply to both protocols.

Keys (braille character)	Assignment
D1+D2+D5 (h)	Keyboard help on/off
D2+D4+D5 (j)	Brings the JAWS window to the foreground
D1 (a)	Move line up
D3 (.)	Move line down
D2 (,))	Move one display width to the left
D5 (!)	Move one display width to the right
D4 (")	Toggle between PC cursor and JAWS cursor
D6 (')	Route braille display to active cursor
D2+D4 (i)	Route JAWS cursor to PC cursor
D1+D4 (c)	Moves to the top of the file
D3+D6 (-)	Moves to the bottom of the file
D1+D2 (b)	Shows the top edge of the active window
D5+D6 (<)	Shows the bottom edge of the active window
D1+D2+D3+D5 (r)	Starts automatic braille reading mode
D1+D2+D4+D5 (g)	Contracted braille translation on/off

Keys (braille character)	Assignment
D1+D3+D4+D6 (x)	Turns braille marking off
D1+D2+D3+D6 (v)	Adjusts braille verbosity
D2+D3+D5 (+)	Toggles 6-dot / 8-dot mode
D3+D5 (*)	Moves the active cursor with braille keys
D1+D4+D5 (d)	Minimise all running applications
D3+D4 ()	Activates the 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 element at cursor
D1+D3+D5 (o)	Opens or closes a drop-down list
D2+D4+D6 (9)	Closes a list box
D1+D2+D3 (l)	Opens a dialog with a list of links
D2+D3+D6 ((	Opens a dialog with a list of HTML headings
D1+D2+D4 (f)	Opens a list of all active frames
D1+D3+D4 (m)	Activates the menu bar
D1+D2+D3+D4 (p)	Moves the focus to the previous document window
D1+D3+D4+D5 (n)	Moves the focus to the next document window
D2+D5+D6 (/)	Closes the active document window
D2+D3+D4 (s)	Opens the JAWS Task List dialog
D2+D4+D5+D6 (w)	Places Windows shortcut keys in virtual viewer
D3+D5+D6 ())	Places JAWS keys in virtual viewer
D1+D3+D5+D6 (z)	Announces the time
D1+Routing	Displays formatting information.
D3+Routing	Selecting with the braille display.

5.2 NVDA

The VarioHID 40 connects to the current version of the NVDA screen reader via the "VarioHID" protocol and via the "VarioClassic" protocol.

NVDA and "VarioHID" protocol

The VarioHID 40 can be used with the NVDA screen reader and the HID braille protocol from version 2021.3 onwards. No special driver or extension for the screen reader is required. Set the VarioHID 40 to the "VarioHID" operating mode. The display is detected automatically as soon as you set braille display detection to "Automatic" in the options under "Settings" and "Braille" and enable the item "Standard HID braille displays".

In "VarioHID" mode, NVDA initially assigns only the basic functions after installation. You add the complete default key assignments as follows. Download the default key assignments from www.visiobraille.de/variohid-40/, unpack the ZIP file and follow the enclosed instructions.

NVDA and "VarioClassic" protocol

Using the established "VarioClassic" protocol, the display can be connected like older Vario braille displays. No special driver or extension for the screen reader is required. Set the VarioHID 40 to the "Classic" operating mode. The display is detected automatically as soon as you set braille display detection to "Automatic" in the options under "Settings" and "Braille" and enable the item "Baum/HumanWare/APH/Orbit - braille displays".

NVDA default key assignments

The following table contains the most important key assignments for the VarioHID 40 in NVDA. The assignments apply to both protocols. For even more convenient use with even more commands, we recommend installing the "Braille Extender" add-on.

Keys (braille character)	Assignment
D1+D2+D5 (h)	Input help on/off
D1 (a)	Navigates to the previous line
D3 (.)	Navigates to the next line

Keys (braille character)	Assignment
D2 (,)	Navigates one display width to the left
D5 (!)	Navigates one display width to the right
D4 (")	Shift + Tab
D6 (')	Tab
D1+D2 (b)	Ctrl + Tab
D2+D3 (;)	Alt + Tab
D4+D5 (>)	Key: Page Up
D5+D6 (<)	Key: Page Down
D2+D6 (?)	Key: Home
D3+D5 (*)	Key: End
D1+D4+D6 (3)	Ctrl + Home
D3+D4+D6 (0)	Ctrl + End
D1+D5+D6 (5)	Ctrl + Shift + Escape
D1+D3+D4	Ctrl + Shift + Escape
D4+D6 (\$)	Key: Applications
D1+D5 (e)	Windows key + E
D1+D2+D3+D5 (r)	Windows key + R
D1+D3+D4+D6 (x)	Windows key + X
D1+D4+D5 (d)	Windows key + M
D1+D4 (c)	Moves the NVDA cursor to the first line
D3+D6 (-)	Moves the NVDA cursor to the last line
D1+D2+D4 (f)	Sets the navigator object to the current focus
D2+D4+D5+D6 (w)	Reads all controls in the current window
D2+D3+D5 (+)	Announces the formatting information at the current cursor position
D1+D2+D4+D5 (g)	Unlocks or locks the left mouse button
D2+D3+D5+D6 (=)	Unlocks or locks the right mouse button
D2+D3+D6 (())	Simulates a single click of the left mouse button
D1+Routing	Displays formatting information.

5.3 VoiceOver

The VarioHID 40 connects to the current version of the VoiceOver screen reader via the "VarioHID" protocol and via the "VarioClassic" protocol.

VoiceOver and "VarioHID" / "VarioClassic" protocol

Set the VarioHID 40 to the "VarioHID" or "Classic" operating mode. Connect the VarioHID 40 to the end device. Activate VoiceOver. On macOS this can be done with "Command + F5". The braille display is detected automatically straight away.

VoiceOver supports the basic functions in its key assignments. You can define further key assignments in the VoiceOver settings.

VoiceOver default key assignments

The following table contains the most important key assignments for the VarioHID 40 in VoiceOver. The assignments apply to both protocols.

Keys (braille character)	Assignment
D1 (a)	Move line up
D3 (.)	Move line down
D2 (,)	Move one display width to the left
D5 (!)	Move one display width to the right
D4 (")	Stop interacting with object
D6 (')	Start interacting with object

5.4 Dolphin and Supernova Magnifier

The VarioHID 40 connects to the Dolphin screen reader and to Supernova Magnifier & Screen Reader via the "VarioClassic" protocol.

Dolphin / Supernova Magnifier and "VarioClassic" protocol

Dolphin Screen Reader and Supernova Magnifier & Screen Reader detect the VarioHID 40 via the Dolphin Synthesizer Access Module (SAM), which can be accessed from the Supernova Control Panel in the menu "General > Advanced". The VarioHID 40 is detected there as "VisioBraille VarioUltra Braille Display". If detection does not work automatically, tick the "VisioBraille VarioUltra" check box in the list in SAM and click "Detect all devices". Detection can take some time and must run through completely once. For correct operation, select the "VarioClassic" mode on the VarioHID 40.

Dolphin default key assignments

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

Keys (braille character)	Assignment
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 (,)	Width left (Braille)
D5 (!)	Width 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

Keys (braille character)	Assignment
	movement)
D1+D3 (k)	Shift + Tab key (Simulate keypress)
D4+D6 (\$)	Tab key (Simulate keypress)
D5+D6 (<)	Ctrl + End (Simulate keypress)
D1+D5 (e)	Escape (Simulate keypress)
D2+D6 (?)	Enter key (Simulate keypress)
D1+D3+D4 (m)	Alt (Simulate keypress)
D3+D4 (l)	Windows key (Simulate keypress)
D2+D3+D4 (s)	Item list (Lists)
D2+D3+D5+D6 (=)	Taskbar (Lists)
D1+D3+D5+D6 (z)	Announce date and time

5.5 BRLTTY

The VarioHID 40 connects to the current version of the BRLTTY screen reader via the "VarioClassic" protocol.

BRLTTY can be installed on Windows, Linux, Android and ChromeOS. Set the VarioHID 40 to "BRLTTY" mode. On Linux, some distributions such as Debian 13 already activate the VarioHID 40 during installation. You will find more information on using BRLTTY at <https://brlTTY.app>.

5.6 Narrator

The VarioHID 40 connects to the current version of the Windows Narrator screen reader via the "VarioHID" protocol.

Set the VarioHID 40 to "VarioHID" mode. Start Windows Narrator. The braille display is detected automatically.

6. Maintenance and help

6.1 Cleaning and care

Clean the housing with a clean, dry cloth. Do not use any cleaning agents or solvents. For intensive cleaning, please contact the manufacturer or your dealer.

Note

Use the self-test of the VarioHID 40 to raise all dots. This allows optimal cleaning.

6.2 Firmware updates

We are constantly working to improve our products and adapt them to new needs. Available updates are provided on our website at www.visiobraille.de/variohid-40/ under Downloads. You can easily install the update on the display using an update program. A Windows PC is required for the update. The update program guides you through the update process with integrated speech output. Read the instructions for the update program before updating.

Of course, the firmware can also be updated to the latest version during maintenance by the manufacturer or a service partner.

6.3 Troubleshooting

Your VarioHID 40 is not working properly? Please go through the following list to find the cause of the fault. If this does not help, switch off the device and contact your dealer or the manufacturer.

The device cannot be switched on: Please switch the VarioHID 40 off and on again. Make sure that the USB cable is connected to a switched-on computer or to a working USB port. If necessary, check the port with another USB device and listen for acoustic signals from the operating system when switching your VarioHID 40 off and on. Always use the original cable supplied

and check any USB hub connected in between. We recommend connecting the VarioHID 40 to a USB port directly on your computer.

The braille display shows "VarioHID 40" but does not work: This usually happens when the VarioHID 40 is not recognised by your screen reader. Observe the points above and, with JAWS, make sure that the additional driver has been installed. If available, test the VarioHID 40 with another screen reader or computer to narrow down the problem. If you are using a screen reader that does not support the VarioHID 40, please contact your dealer.

The braille display shows unintelligible characters: The braille output may be flipped and upside down. To flip it back, switch off the VarioHID 40 by sliding the power switch away from the USB socket. Connect the VarioHID 40 to the USB port. Hold down display keys D2+D5 and slide the power switch towards the USB socket.

The display quality of some modules is impaired: Depending on how intensively the device is used, skin oils and fibres accumulate in the module caps over time and prevent the pins from moving smoothly. This can cause dots to become weaker or, in extreme cases, the pins may even wear down. With normal use, you can try disconnecting the braille display and wiping it, with the modules facing downwards, using a cloth lightly moistened with alcohol. Only do this if you have sufficient experience; such cleaning is carried out at your own risk. Even better, and recommended, is regular cleaning by us or your supplier; with regular use this should be done at least every two years. If the problem cannot be solved in this way, modules may be defective or worn out. In these cases the affected elements must be replaced.

6.4 Defects and repair

Your VarioHID 40 is not working and none of the solutions in the troubleshooting chapter 6.3 help? Please contact the manufacturer or your dealer.

You can reach the manufacturer's service department by phone or e-mail. You will find the contact information in chapter 9.4. Our colleagues will help you check the device and, in the event of a defect, can arrange for the device to be collected. In this case you will be sent a service box in which you can pack the device. The carrier can help you with this; if necessary, show them this manual.

7. Safety instructions

Read the user manual and the safety instructions before using the device for the first time.

Warning

If the warnings are not observed, there is a risk of damage to the device and injury to persons. Failure to observe them may void the warranty.

Before using the device, please check that the contents of the package are complete. Please report any missing or damaged parts to the supplier immediately. The device may only be put into operation if no damage to the device or the cable is visible. Damaged devices must not be connected to the computer.

Keep the packaging in a safe place so that the device can be properly packed again for later transport or in the event of a repair. Improper packaging of returned devices may void the warranty. If required, we will send you service packaging.

Keep packaging material, especially films and bags, away from children. There is a risk of suffocation.

The device may only be operated in residential and commercial premises. In medical facilities this device may only be used in office rooms.

Inside the device, 200 V is generated from the USB voltage. This voltage drives the braille modules. Therefore never open, disassemble or modify the device and do not attempt to repair it yourself. Opening the housing can lead to injury and further damage to the device.

Repairs may only be carried out by the manufacturer or by companies authorised by the manufacturer.

Do not place the device on an unstable surface. This can cause the device to fall, damaging it or injuring people.

Route the USB cable so that nobody trips over it and the device cannot be

pulled off the table.

Only operate the device with clean hands. Avoid handling liquids, drinks and food near the device.

Please prevent sand or dust from getting into the device, as this could cause malfunctions and make repair impossible.

Do not insert any objects into the openings.

Avoid impacts and mechanical damage to the housing and accessories. Do not throw or drop the device.

If you hear strange noises or notice smoke or an unusual smell coming from the device, unplug the USB cable immediately.

If liquid or metal parts get into the device, unplug the USB cable immediately.

Only use original accessories, as the use of other accessories could damage the device and compromise safety.

The device must not be used or stored in the following places, as it could be damaged there: cars parked in the sun with the windows closed; in direct sunlight or near fan heaters, radiators, stoves and similar heat sources; in places with strong vibration, for example on washing machines; in damp places such as the bathroom, in or near water, in the rain or in the snow.

Do not use the device below 0 °C or above 40 °C. The humidity should not be below 20 % or above 80 %. Avoid places with extreme or rapid temperature fluctuations.

If you have brought the device from a cold environment into the operating room, it will not work at first and condensation may form. Let it slowly reach room temperature and wait until it is completely dry before putting it into operation.

8. Technical data

The technical data are listed in the following table:

Feature	Value
Dimensions	Width 302 mm, height 21 mm, depth 72 mm
Weight	0.54 kg
Braille modules	40, 8 dots each
Routing keys	40, one per braille module
Display keys	6, three each on the left and right
Computer connection	USB-C
Power supply	5 V DC / max. 500 mA
Power switch	On the left side of the device
Housing	Aluminium, black anodised
Operating temperature	0 °C to 40 °C
Relative humidity during operation	20 % to 80 %
Storage and transport temperature	-10 °C to 50 °C
Relative humidity during storage	30 % to 80 %
Supported screen readers	JAWS, NVDA, VoiceOver and others
System requirements	Computer, tablet or smartphone with a USB port and a compatible screen reader (Windows, macOS, iOS, Linux, Android, ChromeOS); a Windows PC is required for firmware updates

9. Legal information

9.1 CE conformity

The product complies with the directives of the European Union and bears the CE marking. Only accessories intended for this purpose may be used.



RoHS

9.2 Disposal

The device contains electronic components. To prevent environmental risks and hazards caused by improper disposal, the product and its accessories must be disposed of in accordance with the applicable regulations. The product must be handed in at a collection point for the recycling of electronic equipment, or contact your dealer.

The symbol of a crossed-out wheeled bin, which is also shown on the rating plate of the device, indicates that the device and its accessories must not be disposed of with household waste at the end of their service life. Environmentally sound disposal is mandatory.



9.3 Guarantee and warranty

The device is subject to the applicable statutory warranty provisions and to the manufacturer's guarantees granted by LUCAS components GmbH.

LUCAS components GmbH guarantees that the device is free from defects in material and workmanship at the time of delivery. The guarantee begins on the date of the handover receipt or, for shipped orders, on the date of the delivery note to the end customer.

- The guarantee for new devices is 24 months.
- The manufacturer's guarantee for wear parts (e.g. rechargeable batteries / batteries / braille pins / data carriers) is 6 months.

- The warranty for used devices is 12 months.
- The warranty for repairs and spare parts is 12 months.

Defects caused by the user and damage resulting from improper use or use other than as intended are excluded from guarantee and warranty claims.

The device is intended for end customers for use at home or in the office. LUCAS components GmbH reserves the right to repair the device or to replace it with an equivalent or better product.

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

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

Any liability of LUCAS components GmbH or its representatives for indirect or consequential damage is excluded. The remedies available to the original user are limited to the replacement of components of the device.

The warranty only applies if the device has been serviced in the country of purchase by LUCAS components GmbH or an authorised partner and all guarantee seals are intact. For further warranty claims or maintenance measures during or after the guarantee or warranty period, please contact the manufacturer or your dealer.

For repairs or rectification, the device must be sent in its original box or in the service packaging. Postage, packaging and insurance costs are not covered.

The General Terms and Conditions of LUCAS components GmbH

9.4 Manufacturer information

LUCAS components GmbH

Address: Max-Grossmann-Straße 1, 07745 Jena, Deutschland

Phone: +49 3641 6686 133

E-mail: visiobracille@lucas-jena.de

Website: www.visiobracille.de

VisioBraille products are distributed by LUCAS components GmbH as the manufacturer and by its dealer network.

9.5 Documentation and copyright

All technical data, information and product features contained in this manual have been compiled to the best of our knowledge and belief and correspond to the status at the time of publication.

As part of continuous technical development, we reserve the right to make changes and improvements to the product and the associated documentation at any time. Changes may be made without prior notice.

No liability is accepted for damage or consequential damage arising directly or indirectly from incorrect, incomplete or contradictory information in this manual.

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