



Operating instructions  
MyEcc Prop (iOS)

**Specialist retailers**



**HomeBrace**  
Your home at your hands

# Contents

	Page
01 Version information Instructions	3
02 Foreword	4
03 Intended use	5
04 Application area/environment	5
05 Environmental hazard analysis	6
06 Incidents/malfunctions	6
07 Reuse	6
08 Warnings/Precautions + Delivery Checklist	7
09 Warranty	13
10 Product liability	13
11 Package contents/scope of delivery	14
12 Hardware	15
13 Note	18
14 Installation on the wheelchair	19
15 Requirements for the power wheelchair	20
16 Programme installation	20
17 Programme start	21
18 Programme version	23
19 Settings	23
19-01 Driving mode	23
19-02 Settings menu	26
19-03 Driving geometry adjustment	27
19-04 List of MyEcc devices	28
20 General settings	29
21 Safety instructions	32
22 Safety functions	33
23 Combination with third-party products	33
24 Artificial intelligence (AI)	34
25 Care and maintenance	35
26 Software update	36
27 Disposal	36
28 Expected service life	36
29 Nameplate	37
30 Technical data	38
31 Network security	38
32 State of the art	38
33 Residual risks	39
34 FAQ / frequently asked questions	40
35 Contact	41

# 01 Version information Instructions

These operating instructions were created on 27.01.2026.

## **Revision history:**

V1.0 → 27.01.2026 → Creation of these operating instructions

V1.1 → 13.02.2026 → Extension of the user manual to include a delivery checklist

## 02 Foreword

### **Welcome to the operating instructions for the MyEcc Prop (iOS).**

These operating instructions are intended for specialist retailers/technicians who install and maintain this system. These and other instructions from HomeBraceGermany GmbH (hereinafter referred to as “HomeBraceGermany”) have been written without a “GENDER”, which makes them easy to read (they can also be read aloud by the computer). This form of expression in no way constitutes discrimination against other gender groups.

Please read these instructions carefully. It provides important information on installing the hardware and software. It also contains safety/warning instructions that must be followed at all times. If you have any questions, please contact HomeBraceGermany immediately. The contact details are at the end of the instructions. Information on reuse and storage can also be found at the end of these instructions.

A space for notes and notes on settings has been created on the last pages of these instructions. This can be a great help to you and subsequent technicians.

These operating instructions must always be kept close to the system. If the system is stored or used for the first time, these instructions must always be supplied with it. You can request a replacement from HomeBraceGermany or download it from the homepage.

Install the system with care and do not allow it to become a routine operation. Every user has different needs, which can be adapted to the MyEcc Prop (iOS) using these instructions.



It is not the user who adapts to the system, the system will adapt to the user.

Additionally, this manual includes a delivery checklist for traceable documentation of installation and commissioning. There is also a separate chapter with a small overview of possible errors and how to rectify them.

**Together  
we can do  
great things!**

## 03 Intended use

The MyEcc Prop (iOS) special wheelchair control is a manufacturer-independent power wheelchair control that enables people with a disability or complete inability to walk to control their power wheelchair safely and independently indoors and outdoors.

Existing eye control systems (e.g. ALEA, Tobii) can be used for eye control. If attachments such as robot arms are available, these can also be controlled.

Any other use is **NOT** in accordance with the intended use and leads to exclusion of liability and loss of warranty. A change in the intended use or unauthorised conversions/modifications also lead to an exclusion of liability and loss of warranty.

## 04 Application area/environment

The MyEcc Prop (iOS) special control unit, in combination with a power wheelchair and an eye-controlled communication aid, can be used indoors and outdoors. When used in public areas, the applicable national laws and regulations of the respective country must be observed.

Weather conditions (rain, snow, sunlight, darkness) do not affect the operation of the MyEcc Prop (iOS). Restrictions on the user environment may be specified by the wheelchair manufacturer or the manufacturer of the eye control system. The respective user manual must be read and observed.



Operation is intended for indoor and outdoor use only. Failure to do so will invalidate all liability and warranty claims.

## 05 Environmental hazard analysis

Before use, a hazard analysis of the surroundings must be carried out and the user must be made aware of any recognised hazards (e.g. unsecured stairways, ramps, slopes without railings, etc.).

HomeBraceGermany recommends an EMERGENCY STOP switch (mechanical or wireless) provided by the wheelchair manufacturer. This helps to minimise any hazardous situations that may occur but cannot be seen.

## 06 Incidents/malfunctions

If the system malfunctions, please contact HomeBraceGermany directly. The address can be found at the end of these instructions. Should an incident occur, please report it directly to HomeBraceGermany.

Please provide as much detail as possible so that we can gain a full understanding of the incident in question.



A notification to the competent authority (BfArM) [www.bfarm.de](http://www.bfarm.de) can and may also be made by any person.

We have a very high standard of quality and we hope that there will be no incidents. If, despite all this, there are any defects or suggestions regarding our product, please let us know directly. This helps HomeBraceGermany to maintain the high standard of its products and can also contribute to product improvements.

## 07 Reuse

The products in the HomeBrace range are generally suitable for reuse. All hardware must be returned to HomeBraceGermany for the following measures before being used again:

- Cleaning and disinfection of equipment received (to prevent infection)
- Photo documentation of the components
- Functional test of the components (hardware)
- Checking the software
- De-personalisation (always carried out in accordance with the GDPR)

# 08 Warnings/Precautions + Delivery Checklist

Explanation of the symbols:



Information



Warning

Please read the following warnings/precautions carefully and draw the user's attention to them. Failure to follow these instructions could have consequences. This could result in danger to life and limb. If these instructions are disregarded or even deliberately circumvented, the manufacturer's warranty is void and product liability no longer applies.

For optimum use of the system, HomeBraceGermany recommends an appropriate driving stabilisation programme from the wheelchair manufacturer (ESP, gyro). Such a system ensures automatic correction of the direction of travel (e.g. on slopes or gradients). It reduces the possibility of "drifting".



## **Danger to persons:**

**Non-compliance will result in death or serious injury.**



### ▪ **First drive**

The first time you drive your wheelchair must be in the presence of a certified Assistive Technology Professional or therapist who is qualified to ensure that the wheelchair is properly configured for you, and you are in a safe environment.



### ▪ **Qualified service technician**

Only carry out maintenance and minor adjustments that are specified in the user manual. All other maintenance, service, configuration, and repairs must be carried out by a qualified service technician authorized by HomeBraceGermany.



### ▪ **Do not drive near edges or on elevated surfaces**

MyEcc Prop (iOS) is not designed to be used near edges or on elevated surfaces, such as ramps, stairs, and multi-level floors.



▪ **Sunlight interferes with eye control**

Eye control cameras rely upon being able to see your eyes' pupils clearly to determine where you are looking on the display device. Sunlight interferes with these cameras and can cause loss of control. You may lose precision of control or be stranded.



▪ **Changing seating position can affect eye control**

Eye control cameras rely upon a proper position relative to your head in order to have a clear view of your eyes. Changing seating position can cause this relative position and the camera view to be compromised resulting in loss of precision control.



▪ **Do not drive while reclined, tilted, or elevated**

Do not drive the wheelchair using MyEcc Prop (iOS) while the wheelchair is reclined, tilted, or elevated. These positions can affect the camera view in MyEcc Prop (iOS).



▪ **Drive on public roads**

Your wheelchair is not an automobile. Obey all local pedestrian rules and always drive your wheelchair defensively. MyEcc Prop (iOS) is a wheelchair control interface only, it does not change how your wheelchair behaves.



▪ **Use only approved eye gaze devices**

Using MyEcc Prop (iOS) on untested devices is known to be unsafe and can cause injury.



▪ **Calibration of the eye control system before program start**

Before starting the program, it must be ensured that the user's eye control system is correctly calibrated. If this is not the case, calibration must be performed.



▪ **Do not modify the wheelchair or MyEcc Prop (iOS) components**

Do not modify your wheelchair, MyEcc Prop (iOS), or any of its components. MyEcc Prop (iOS) and your wheelchair have been configured specifically for your needs as prescribed by your healthcare provider. Special skills, training, and knowledge are needed to set up, modify, and repair MyEcc Prop (iOS) and the wheelchair.



▪ **Do not use a damaged wheelchair**

If the wheelchair or its accessories have suffered transportation damage during driving, or damage from other causes, you must inform your assistive technology professional as soon as possible and immediately stop using your wheelchair. There is a risk that the wheelchair or its accessories can no longer be used safely. Contact your service provider for further information.

▪ **Discontinue use after extraordinary events**



Do not use your device if it has been dropped, crushed, exposed to fire, submerged in water, or involved in a vehicular accident, or other extraordinary events. Events like these can lead to significant damage that is impossible to detect upon inspection. Contact your service provider. Damage caused by these types of incidents exceeds the limits covered by the manufacturer's warranty.

▪ **Supervise children and those with cognitive disabilities**



Do not let children or people with cognitive disabilities drive the wheelchair without supervision. A buddy button must be available for the caregiver.

▪ **Discontinue use if the wheelchair does not behave as it should**



If the wheelchair is not behaving as it should, or if you suspect that something is wrong, stop MyEcc Prop (iOS) immediately to stop the wheelchair. Turn off the power and contact your service provider or HomeBraceGermany for further information.

▪ **Turn off the power before you transfer or before you lift the armrest**



Turn off the power before you transfer in or out of the wheelchair or lift the armrest. If you do not, it can lead to bodily injury.

▪ **Eye gaze devices must be securely mounted**



Eye gaze devices must be securely mounted in the appropriate position for eye gaze control. The mounting system must be able to maintain the positioning of the eye gazed device while the power wheelchair is being driven.

▪ **Installing software or changing settings can lead to lack of control**



Installing 3rd party software, or changing the default settings such as power management, or notifications on approved devices can lead to MyEcc Prop (iOS) being less responsive to eye gaze commands leading to lack of powerchair control and potential injury.

▪ **Stacked equipment**



Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

▪ **Use approved cables**



Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.



- **Replace damaged components**

If either the plug or cable becomes damaged, both must be replaced by qualified personnel.



- **Do not drive near fast-moving objects**

Do not drive the wheelchair near fast-moving objects such as trains, planes, cars, and buses.



- **Portable RF communications equipment**

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the ADT, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



- **MyEcc Prop (iOS) is not to be used for life sustaining or life saving**

Use of this equipment is not meant to provide life sustaining or life saving functionality.



- **Cleaning and Maintenance**

If cleaning is required, spot clean the affected areas with a slightly damp cloth. Do not use aggressive cleaning agents, solvents, or abrasive materials, as these may damage the surface or impair functionality. Ensure that no moisture enters any electronic components.

## Delivery Checklist

### MyEcc Prop / MyEcc Pupil Prop

#### Customer data

Commission: \_\_\_\_\_  
 Delivery no.: \_\_\_\_\_  
 Medical supply store: \_\_\_\_\_  
 Project number: \_\_\_\_\_

#### Product

MyEcc V5  
 Serial number: \_\_\_\_\_

#### MyEcc Prop

##### Software

Software-Version:	_____
-------------------	-------

Button Timing	
Hold focus until activation:	(300)
Focus-Timeout:	(600)

**Note:** Values in brackets are default values. If changed, please enter new values!

Function checked after change + active

#### MyEcc Pupil Prop

##### Hardware (MyEcc Frame)

Sensor version / angel:	<input type="checkbox"/> V1	<input type="checkbox"/> V2
Sensor option:	<input type="checkbox"/> Left	<input type="checkbox"/> Right
Staple length:	<input type="checkbox"/> M	<input type="checkbox"/> L
Serial number:	_____	

##### Software

Software-Version:	_____
-------------------	-------

Local USB Source	
Resolution:	(192,192)
Frame rate:	(60)
Exposure Mode:	(auto mode)

Pupil Detector	
Intensity Range:	(23)
Pupil Min:	(10)
Pupil Max:	(100)
Focus-Timeout:	(600)

**Note:** Values in brackets are default values. If changed, please enter new values!

Function checked after change + active

Installation technician, specialist dealer

User / legal representative



## Delivery Checklist

### MyEcc Prop / MyEcc Pupil Prop

	MyEcc Prop			MyEcc Pupil Prop		
	Yes	No	N/A	Yes	No	N/A
Users can control the software after approval						
Users can activate indoor driving mode						
Users can activate driving mode in sunlight						
Users can deactivate driving mode indoors						
Users can deactivate driving mode in sunlight						
Users can drive straight ahead						
User can drive backwards						
User can drive curves (left/right)						
Users can stop the software by closing their eyes						
Users can stop the software by looking outside the display *						
Users can stop the wheelchair using the focus/neutral zone						
The user is familiar with the functionality and operation of all available modes						
The user is familiar with the function of the mode button and the procedure for changing modes						
Users should be aware that tilt and recline adjustments should only be made within safe angles so as not to impair eye control						
The environmental conditions are safe for driving the electric wheelchair						
The system can be removed or detached for user transfer						

\* Applies only to MyEcc Prop

## Signature – Confirmation of installation and instruction

By signing, all parties confirm the proper installation, instruction, and complete handover of the device from HomeBraceGermany GmbH.

\_\_\_\_\_  
 Installation technician, specialist dealer

\_\_\_\_\_  
 User / legal representative

All tests and instructions required by HomeBraceGermany GmbH were carried out in accordance with the relevant specifications.

**Note:** This installation and instruction protocol is part of the technical documentation and must be kept by the specialist dealer. A copy will be given to the user.

## 09 Warranty

The systems supplied by HomeBraceGermany are supplied with a two-year warranty (in accordance with the German Civil Code). Damage reports must be submitted within the statutory deadlines.

## 10 Product liability

Pursuant to the liability of manufacturers for their products as defined in the German Product Liability Act, the instructions provided in this brochure must be observed (product information and intended use, improper use, product performance, product maintenance, information and instruction obligations). Non-observance releases the manufacturer from any liability.



Failure to follow the instructions and requirements in this manual will void any liability or warranty provided by HomeBraceGermany.

## 11 Package contents/scope of delivery



- 
- 1** Bluetooth connection for iPad - Item 10478
  - 2** MyEcc V5 Box (Hardware) - Item 10467
  - 3** Connection cable with red plugs
  - 4** Storage bag for attachment to the wheelchair

## 12 Hardware

### MyEcc V5 Box

Front view:



### MyEcc V5 Box

Connection strip (left):



- 1: "PC"** → Connection to tablet PC (USB C).
- 2: "Chair"** → Wheelchair control connection (9-pin DSUB) incl. switch 1 function.
- 3: "5V USB"** → Control LED (red, 5V power supply via USB C).

## MyEcc V5 Box

Connection strip (right):



**A: "12V CHAIR"** → LED voltage wheelchair (blue, 12 V from wheelchair).

**B: "PROP"** → PROP mode active (blue, 12 V is switched through in proportional operation, voltages / reference / speed / direction are ready).

**CHECK 1 - 4** → LED driving relay (only in switch mode):

- 1: Forwards
- 2: Right
- 3: Backwards
- 4: Left

**CHECK 5 - 8** → LED additional switching functions (1 - 4):

- 5: Switch 1
- 6: Switch 2
- 7: Switch 3
- 8: Switch 4

**CHANNELS 6-8** → (output, potential-free, cable with 3.5 mm jack plug):

- B2:** Switch function 2
- B3:** Switch function 3
- B4:** Switch function 4

**Important:**

Version 5.0 MyEcc boxes must be connected to the cable (item 10438) with red plugs.



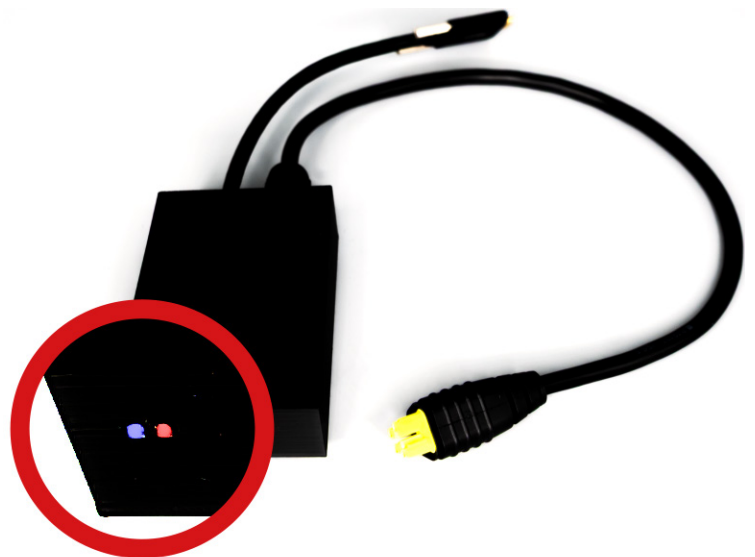
Only the original cable from HomeBraceGermany may be used. Using other cables will lead to a malfunction.

**iOS Bluetooth module – LED indicators**

The LEDs indicate the following statuses ...

Red LED = Module is powered

Blue LED = Bluetooth connection to the display is active



## 13 Note

The eye control must be fitted to the back of the wheelchair if the seat/back adjustment is to be controlled from assistant or caregiver. When adjusting the seat position, eye focus with the cameras may be lost.

When adjusting the backrest, attention must be paid to dynamic length compensation (biomechanics of the backrest). This is the only way to ensure that the scanning area of the eye control is **NOT** left.

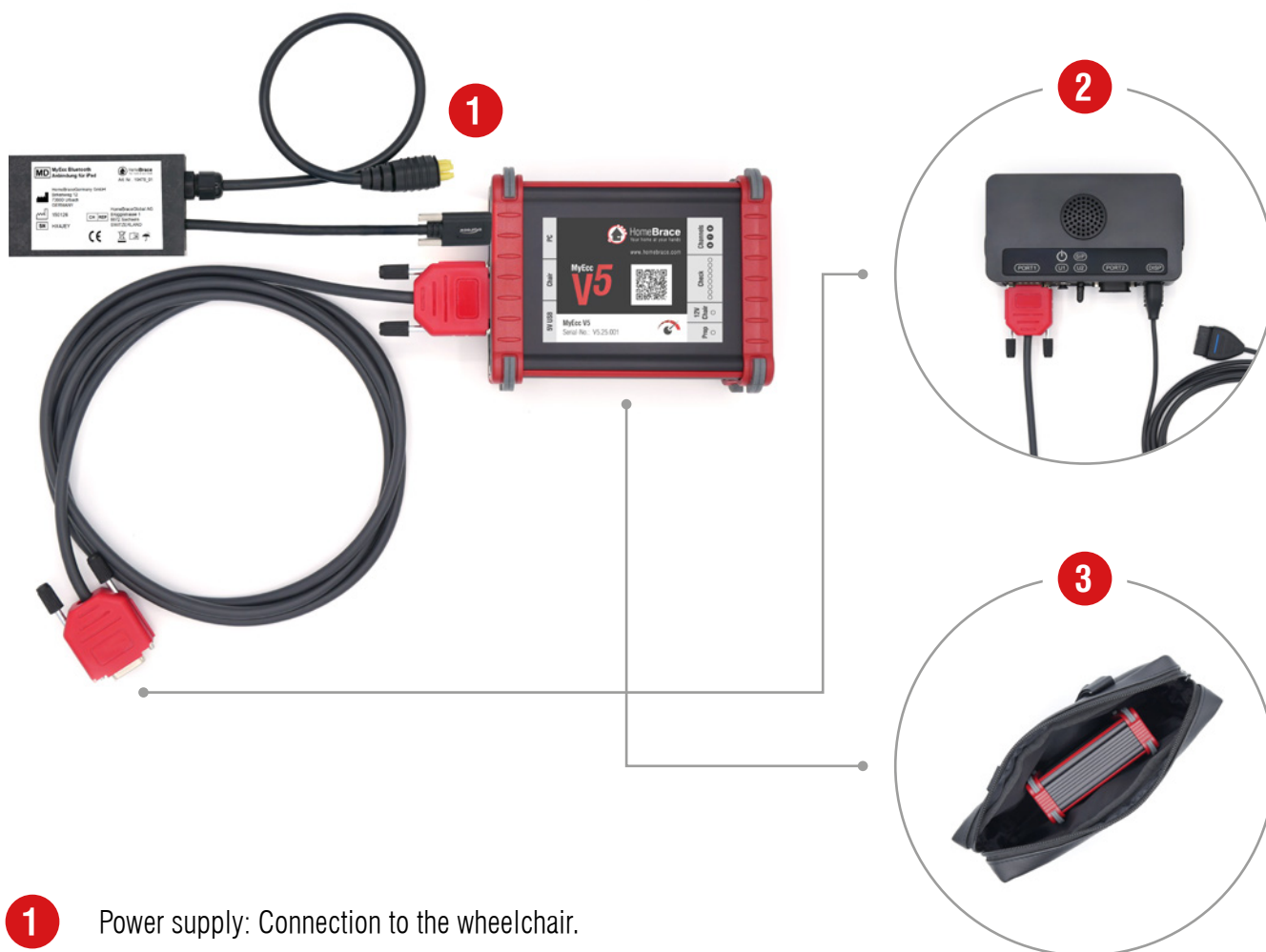
The user must always have the wheelchair display in focus. Installing a second display (e.g. the OMNI2 display) at eye control level is a useful addition. This enables safe switching between the different modes.



When wiring and installing, pay attention to the wheelchair's travel paths to avoid damage caused by incorrectly laid cables.

The MyEcc Prop (iOS) must be attached to the wheelchair with the supplied bag (waterproof); we recommend installing on the back of the wheelchair or the armrest. The cables for the eye control are detachable and should remain detachable during assembly so that the carer can easily remove the eye control from the wheelchair during transfers.

# 14 Installation on the wheelchair



- 1** Power supply: Connection to the wheelchair.
- 2** Connection to the wheelchair input (here OMNI2).
- 3** Store the MyEcc V5 Box and all cables in the storage bag and attach it to the wheelchair.

# 15 Requirements for the power wheelchair

The power wheelchair is equipped with one of the following power electronics. A switch control may also be required (not included in the scope of delivery):

- **R-Net (Curtiss-Wright Corporation) plus OMNI1 or OMNI2**  
→ (possible power wheelchairs from the following manufacturers: Sunrise, Permobil, Meyra, SKS, Life&Mobility)
- **LiNX / DX2 (manufacturer Dynamic Control)**  
→ (possible power wheelchairs from the manufacturer: INVACARE)
- **Q-Logic 3**  
→ (possible wheelchairs from the manufacturer: Quantum Pride)

# 16 Programme installation

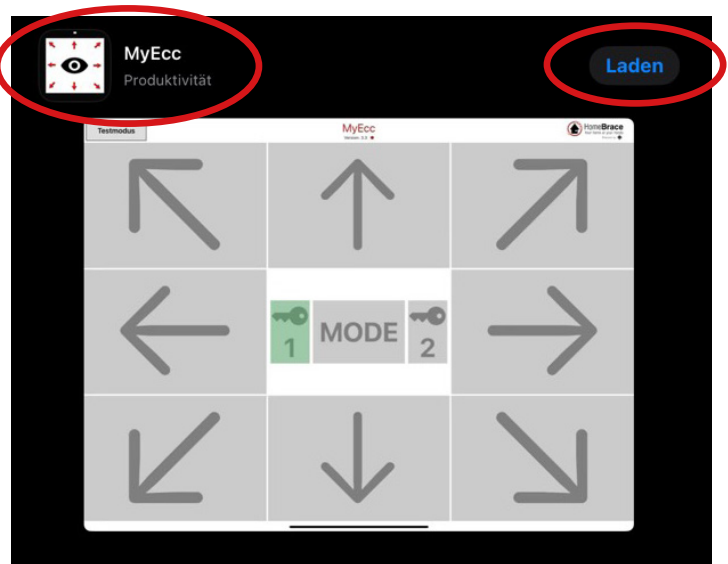
To use MyEcc Prop (iOS) in conjunction with an iPad-based communication aid, you must first install the corresponding application software.

- To do this, first open the Apple App Store on the iPad:  
→ Enter the term “MyEcc” in the search field.
- The “MyEcc App” from HomeBraceGermany will be displayed in the search results:  
→ Tap “Download” to install the application software.

### Important note:

The “MyEcc app” is only intended for iPad-based communication aids with a display size of at least 11 inches. Use on smaller iPad models is at your own risk.

The “MyEcc app” is compatible with iPadOS version 16.6 and higher.



## 17 Programme start



### Operation:

The app can only be run when the control box is connected.

- Before starting the program, please ensure that the eye control is calibrated correctly:  
→ If this is not the case, recalibration must be performed.



Use of the app is only permitted if the display is securely and properly attached to the connected wheelchair.



Starting with software version 4.2, MyEcc Prop (iOS) can also be started in DEMO mode without a connected control box.



- In this state, the software name is displayed in red to indicate that no control unit is connected:  
→ Interaction with the software in DEMO mode is possible.

### Possible error messages during programme operation:



- The red indicator light signals that there is no connection to the control box:  
→ Check all cable connections.
- If no connection to the control box is detected, proceed as follows:
  1. Check all cable connections.
  2. Check or reestablish the existing Bluetooth connection.
  3. Close the app and restart it.

 A green indicator light confirms successful connection to the control box.

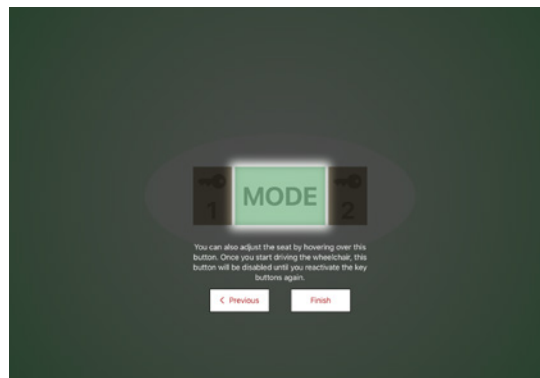
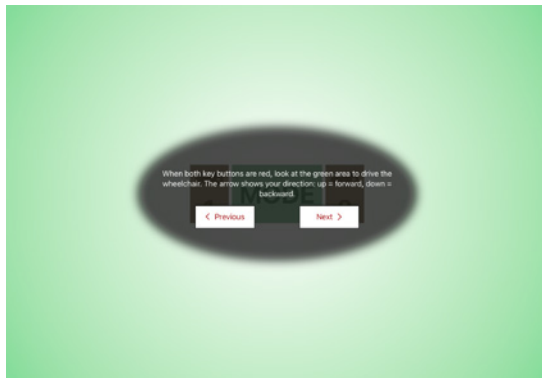
### Header:



- Simply tap on “Test mode“:  
→ Test mode opens.



- Simply tap on “End test“:  
→ Test mode closes.
- Simply tap on „Info“:  
→ The introductory tour will open.



- Double-tap on the „HomeBrace-Logo“:  
→ The settings menu opens.

Normally, the software settings can be opened simply by double-tapping.  
However, these should be made as inaccessible as possible to the user, as only HomeBraceGermany or specialist dealers are permitted to access the settings.

# 18 Programme version

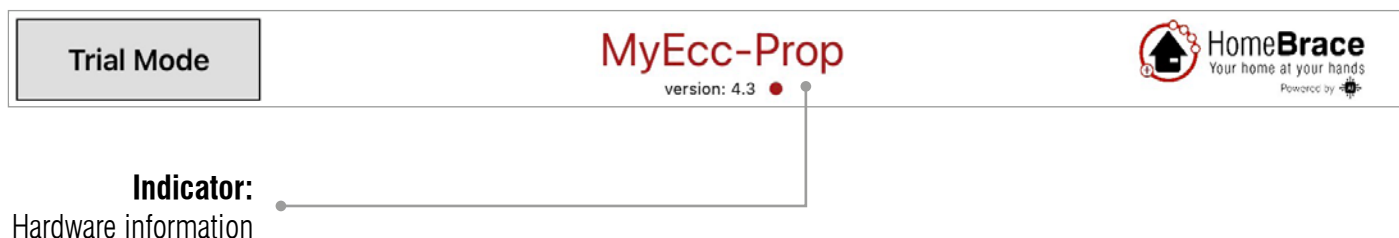
## SOFTWARE

### MyEcc:

Program name with switch control

### MyEcc Prop:

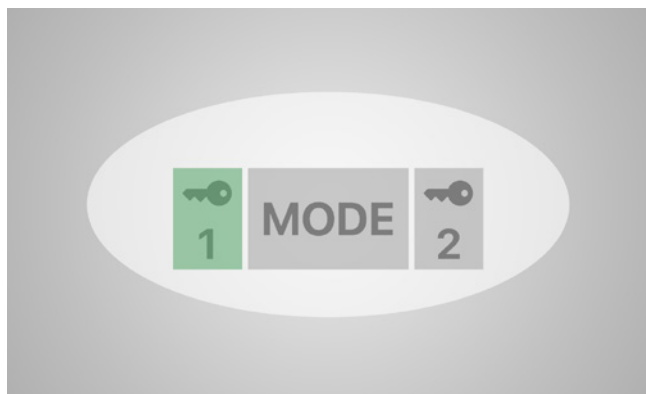
Program name with proportional control



The app is designed exclusively for operation via eye movements. It cannot be used with other input methods.

# 19 Settings

## 19-01 Driving mode

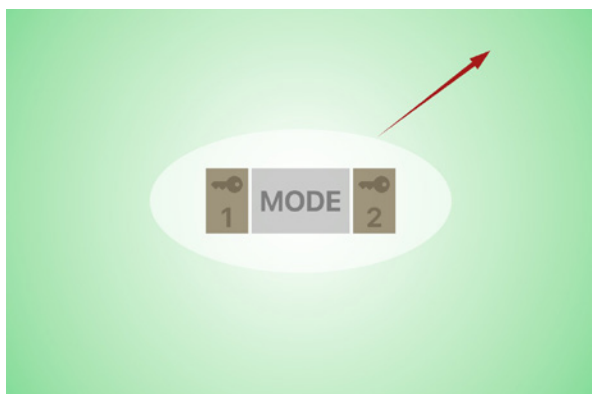


### Unlock sequence:

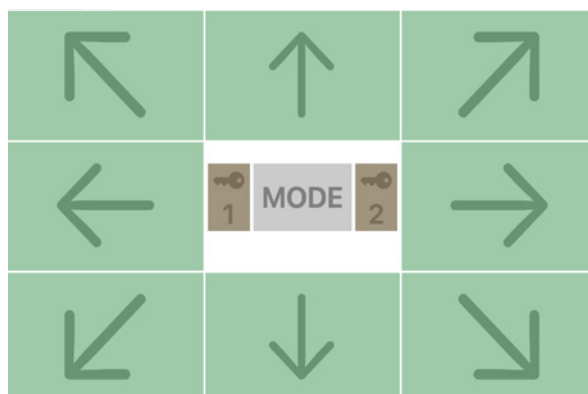
View of key 1 - View of key 2

→ Active areas are colored green.

Before unlocking, please ensure that the eye control system is correctly calibrated.



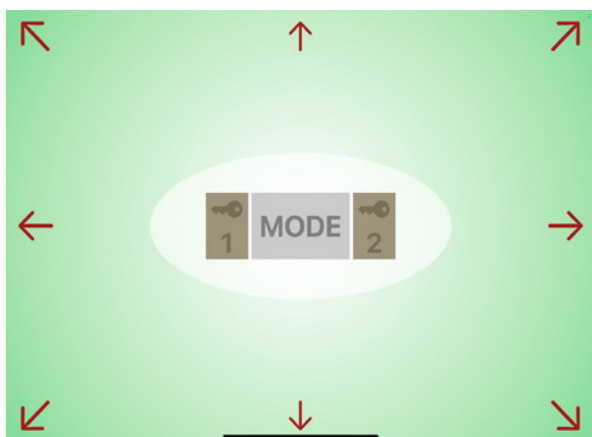
**MyEcc Prop:**  
 MyEcc with proportional control



**MyEcc:**  
 MyEcc with switch control

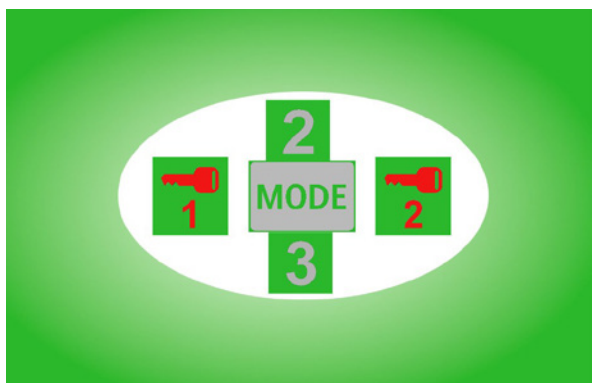
**Driving:** Active area outside the white ellipse.

→ The switching functions (mode, etc.) are set to inactive to prevent unintentional triggering.



**Eye focus within white ellipse:**  
 Wheelchair is stopped.

**Eyes closed / Eye focus outside the application window:**  
 Program switches to inactive mode after programmed time.



**“Mode” (= switch 1):**  
 Depending on the programming, switch 1 changes to the wheelchair menu.

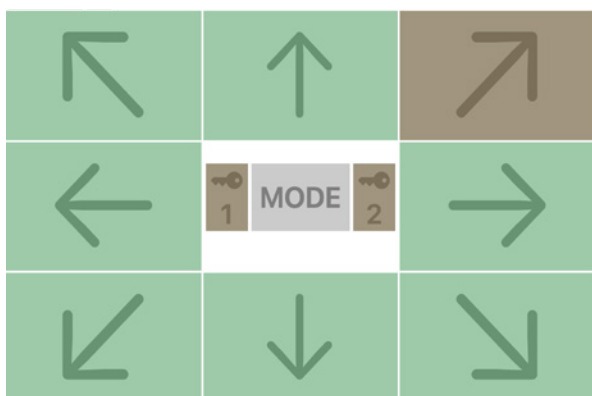
**Additional switching functions (2, 3, ...):**  
 Depending on the wheelchair programming, additional functions are performed.

The switching times can be programmed in the “General settings.”



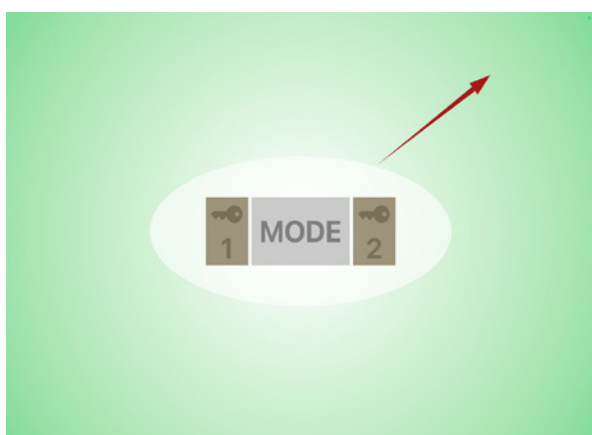
From software version 4.2 onwards, two different driving modes are available, which can only be used with proportional control.

- Simple driving mode:  
→ Interface with direction fields.
- Advanced driving mode:  
→ Interface with dynamic driving direction interaction.



### MyEcc Prop – Simple driving mode:

The simple mode supports easy and safe learning of the drive controls. The interface is divided into direction fields. By targeting a corresponding arrow, the electric wheelchair moves in the indicated direction.



### MyEcc Prop – Advanced driving mode:

The advanced mode offers dynamic driving control without fixed direction fields. Instead, the movement is visualized by an interactive arrow that aligns itself according to the selected direction of travel and scales in size.

The further the gaze deviates from the center, the faster the electric wheelchair moves in the desired direction. This allows for smooth changes of direction.

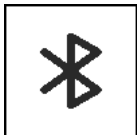
## 19-02 Settings menu



Back to driving mode



Driving geometry adjustment

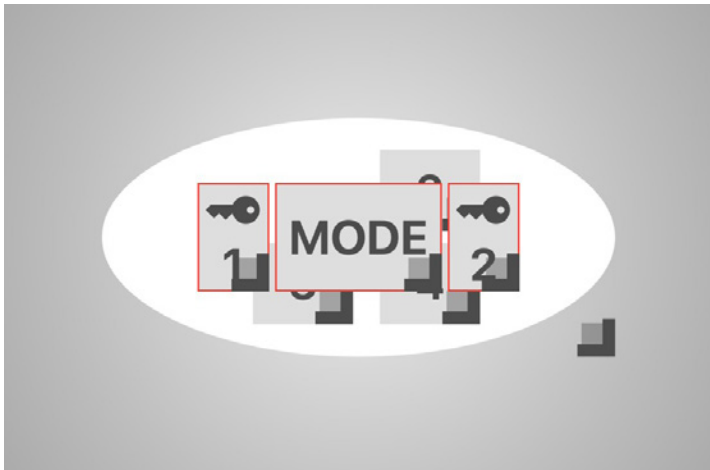


List of MyEcc devices



General settings

## 19-03 Driving geometry adjustment



The fields can be moved within the gray area by touch. To change the size of a field, drag the field at the lower right corner by touch until the desired size is reached.

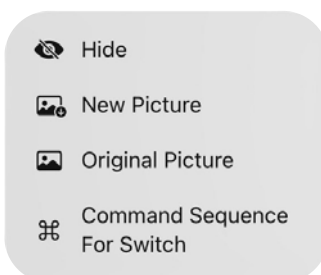
Fields without red borders are invisible in driving mode.

Changing/moving the white ellipse changes the inactive area in driving mode (standstill area).



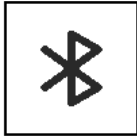
Reset the fields to factory settings.

The options menu opens by touching and holding one of the icons for a longer period of time:



- **“Show”** = Field is displayed (red border appears).
- **“New image”** = A different image (any JPG or PNG file) can be selected.
- **“Original image”** = The factory default image is displayed.
- **“Command sequence for button”** = The function of the button can be edited.

## 19-04 List of MyEcc devices

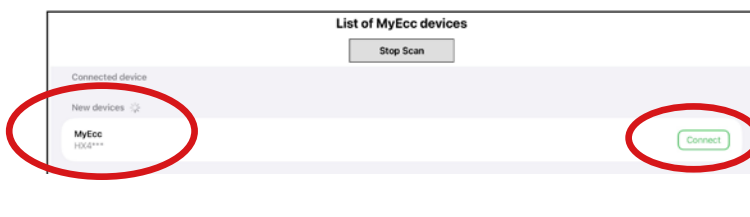


In this section, the Bluetooth connection between the control box and the application software is established. The connection only needs to be set up once; it is automatically re-established each time the application software is restarted.

To establish a correct Bluetooth connection, the following steps must be observed:

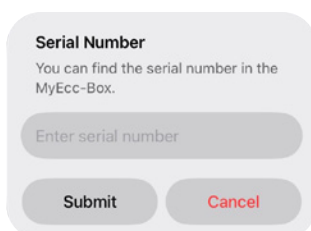


→ Click "Bluetooth Scan" to search for available MyEcc devices.



→ The application software automatically searches for available MyEcc devices and lists them.

→ Once the appropriate MyEcc device is displayed, click on "Connect."




→ To successfully initiate pairing with the application software, you will be asked to enter the individual serial number of the Bluetooth connection device.

→ The individual serial number is displayed on the Bluetooth connection device.

## 20 General settings






### General Settings

Deutsch English (US) English (UK) Italiano Français Português Dansk Čeština Español 

#### Drive Mode

Proportional Driving

#### Camera Setup





Forwards Camera  Backwards Camera

Camera off after [sec] 30

#### Button Timing

Hold Focus until Activation [ms] 400    
Focus Timeout (Eye Closed) [ms] 600    
Animation   
Animation Speed [ms] 400    
Opacity Buttons (full=100) 60

#### Switch Sequence

Switch 1   
Switch 2   
Switch 3   
Switch 4 

### Sprachen:



Selection of the language for the user interface. Shaded languages are not (yet) available.



Reset the input fields to factory settings.

### Driving mode:

Switching between proportional mode and driving in switch mode (relay mode).

In proportional mode, the travelling speed is changed depending on the location of the eye focus. The speed increases the further the eye focus moves towards the outer edge of the application window.

When driving in switch mode, the direction of travel is determined by the arrows and the speed is permanently programmed into the wheelchair.

### Camera settings:

In driving mode, the camera images are displayed as the background of the application. When driving forward, the image from the front camera appears; when reversing, the image from the rear camera appears. This function must be activated using the respective checkboxes.

### Camera off after [sec] :

Delay time of the cameras after the wheelchair has stopped.  
With a delay time of “[0 sec]”, the camera remains permanently active.

### Timing buttons:

These settings apply to all switching areas (colour change green - red) in driving mode.

### Hold focus until activation [ms]:

Delay time from focussing on a field with the eye to its activation. This time is used to avoid triggering fields that have been unintentionally “stripped”. Unit milliseconds.

### Focus timeout (eye closed) [ms]:

Waiting time from loss of eye focus (no more eye movements and/or pupil position detectable) until the application is deactivated (→ Stopping the wheelchair).

### Animation:

Checked: The next fields to be activated are indicated by movement (rhythmic change in size), e.g. Key 2 after activating Key 1. This only works in driving mode.

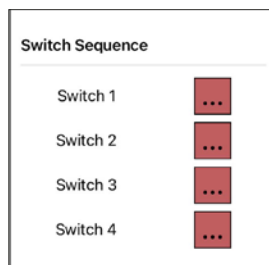
### Animation speed [ms]:

Repetition speed of the animation movement of fields.

### Opacity of arrows (full=100):

When using camera images in the background, it makes sense to display the move command fields transparently, so that the camera image is visible behind it. The smaller this number, the more transparent the move command fields become.

### Switch programming:



This is where the switch for changing from driving mode to the wheelchair menu is defined. If you do not want to use this option, remove the functions in fields 1 - 6.

### Important note:

When the button is red, a command is stored.

### Open command sequence:

To activate an additional function, switches 1–4 can each be assigned an individual sequence.

Click on the value field to open the input dialogue:

Command Sequence For Switch 2									
		Duration [ms]				Pause [ms]			
Command 1	Switch 2 ▾	600	-	+	300	-	+	🗑️	
Command 2	RIGHT ▾	600	-	+	300	-	+	🗑️	
Command 3	▾	0	-	+	0	-	+	🗑️	
Command 4	▾	0	-	+	0	-	+	🗑️	
Command 5	▾	0	-	+	0	-	+	🗑️	
Command 6	▾	0	-	+	0	-	+	🗑️	

Selection:

- Switch 1
- ✓ Switch 2
- Switch 3
- Switch 4
- RIGHT
- LEFT
- UP
- DOWN

Up to 6 commands in succession can be defined:

1. Selection of the switching function (Switch 1 - 4 or functions left - right - top - bottom)
2. Duration [ms]: Switch-on time of the selected function
3. Pause [ms]: Subsequent pause time

Example: `S2 600 300 RIGHT 600 300`

#### **S2 600 300:**

- Switch 2 is triggered for 600 milliseconds.
- Pause of 300 milliseconds.

#### **RIGHT 600 300:**

- "Right" command is triggered for 600 milliseconds.
- Then pause for 300 milliseconds.

Confirm entry with "OK".

## 21 Safety instructions

If the MyEcc Prop (iOS) control unit fails, the wheelchair can still be moved using the original wheelchair control unit. To do this, switch the entire wheelchair off and on again using the wheelchair's own controls. HomeBraceGermany must be informed of the failure immediately and the MyEcc Prop (iOS) control unit may only be operated again after the repair has been completed.

Any action being performed can be stopped **IMMEDIATELY** by closing the eyes (driving functions, accessory controls). Switching off the wheelchair also leads to an immediate **STOP** of the action being performed.



It is essential to check the safety functions of the MyEcc Prop (iOS) carefully before use.

The following monitoring mechanisms are active and are continuously monitored. Malfunctions with the following will result in an immediate **STOP** of the wheelchair:

- Camera contact with the eye
- Operability of the eye control unit
- Monitoring the iPadOS operating system
- Connection from the eye control unit to the MyEcc Prop (iOS)
- Cable/plug connection from the eye control unit to the MyEcc Prop (iOS)

Appropriate measures must be taken to prevent or avoid crushing, impact, shearing and trapping. The following points in particular must be checked and monitored:

- STOP function of the software when closing the eyes (the software must deactivate itself)
- Speeds

## 22 Safety functions

If the eye-camera software stops sending new eye-mouse coordinates for a certain period of time (FOCUSTIMEOUT) (eye focus lost or other eye-camera problems, tablet PC overload), all driving commands or adjustment functions are stopped **IMMEDIATELY**.

If, for any reason (iPadOS problems, programme crash, etc.), the application fails to send activation impulses to the relays in the control box, all the relays are **IMMEDIATELY** switched off, stopping the movement or active adjustment.

## 23 Combination with third-party products

The MyEcc Prop (iOS) may only be connected and operated with systems that are recognised as compatible.

### Compatible complete systems (eye control PCs):

- |                               |
|-------------------------------|
| ▪ TD Pilot from Tobii Dynavox |
| ▪ Skyle for iPad from eyeV    |
| ▪ Hiru for iPad from IrisBond |



HomeBraceGermany accepts no liability or warranty for combinations with third-party products.

## 24 Artificial intelligence (AI)

Our artificial intelligence module is fully functional from software version 4.19 and hardware version 4.1. If one of the modules is not available, the AI is automatically switched off.



The integration of AI-based technology provides precise control of the electric wheelchair, creating a new dimension of mobility and independence.

### **AI-supported detection of the pupil:**

It is not necessary to move to a “zero position” in order to start reliable detection. The software searches for its destination independently, recognises it and uses it.

### **Safety shutdown:**

The software learns to capture and analyse the correctly calibrated field of view based on the user's movements. This rules out any possible misinterpretations. Cramps, spasms, coughing or other potential disturbances are safely masked by the normal movement pattern.

### **Machine learning:**

Through continuous learning and regular updates, the MyEcc Prop (iOS) can constantly improve and adapt to new needs and challenges.

### **Accessibility:**

Technology opens up new opportunities for people with different types of impairments and contributes to inclusion.

### **Wide range of applications:**

In addition to controlling the wheelchair, AI-based eye control can be used to control other devices such as computers, communication systems, robotic arms and even household appliances.

### **Integration with other technologies:**

The AI-based MyEcc Prop (iOS) can be easily integrated into smart home systems and other assistive technologies. This enables more comprehensive support and control to be offered.

### **Faster response time:**

The AI-based MyEcc Prop (iOS) can respond very quickly to commands, which can be particularly useful in emergency situations.

### **Increased independence:**

Users who are dependent on assistance due to their limitations can use the AI-based eye control to achieve greater independence and autonomy.

### **Adaptability and personalisation:**

The AI-based MyEcc Prop (iOS) can learn and adapt to an individual user's eye movement behaviour. Over time, this learning process allows the control system to become more and more attuned to the user's needs.

### **User friendliness:**

Intuitive eye movement controls allow even people with severe physical disabilities to operate the wheelchair easily and safely, without the need to physically operate buttons or switches.

## 25 Care and maintenance

Before each use, check the cable routing and the condition of the cables (tight fit, no kinks, no defects). If defects or similar are detected, the system must not be put into operation. HomeBraceGermany must be informed of the defect immediately.



The components have no serviceable parts.  
The hardware must not be opened.

### **All components should be checked annually to ensure that they are intact:**

- Check screw connections for tightness.
- Check concealed cables for possible damage or protect them from damage.

We recommend regular cleaning and disinfection with a disinfectant and cleaning agent intended for household use ([www.rki.de](http://www.rki.de)). Cleaning should only be carried out with a wipe. Wipe down all exterior surfaces and allow them to dry by themselves.



Only genuine HomeBraceGermany parts should be used  
for repairs and upgrades.

## 26 Software update

The software does not require any updates, as the latest final version is always available on the system at the time of delivery, so no additional updates are required.

If there are any complications within the software, the user and the specialised retailer will be informed automatically by HomeBraceGermany. An update will then only be carried out by HomeBraceGermany.



Any unauthorised intervention, such as tampering with the hardware or software, will invalidate the warranty.

## 27 Disposal

### **Disposal of the MyEcc Prop (iOS):**

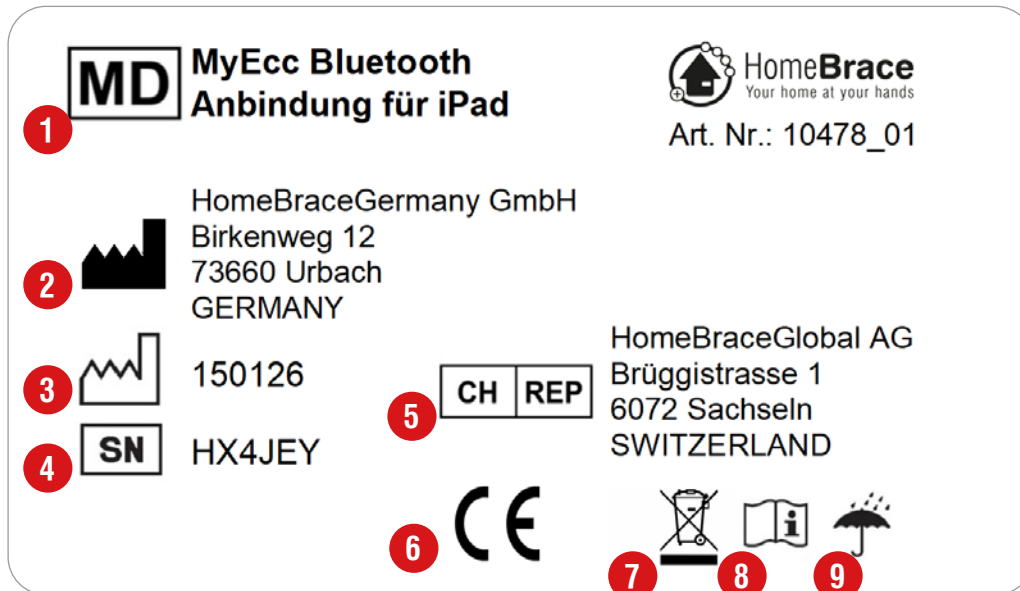
The MyEcc Prop (iOS) consists of recyclable materials that do not belong in household waste and should be recycled. For this reason, the German Electrical and Electronic Equipment Act (Gesetz über das Inverkehrbringen, die Rücknahme und die umweltverträgliche Entsorgung von Elektro- und Elektronikgeräten) requires consumers to ensure that electrical and electronic equipment is disposed of properly and separately from household waste. Please return the MyEcc Prop (iOS) to a recycling centre or similar collection point and help protect the climate and the environment.



## 28 Expected service life

The components and construction of the MyEcc Prop (iOS) are designed to provide a service life of 5 to 8 years when used as intended.

## 29 Nameplate



- 1** Medical device
- 2** Manufacturer
- 3** Production date (DDMMYY)
- 4** Serial number
- 5** Swiss authorised representative
- 6** CE labelling
- 7** Disposal of the MyEcc Prop (iOS)
- 8** Follow the instructions for use
- 9** Protect from moisture

## 30 Technical data

### **Operating/storage environment:**

- Maximum ambient temperature during operation: 0°C (32°F) to 55°C (131°F)
- Maximum humidity during operation: 0% - 85% relative humidity
- Maximum ambient temperature during storage: -20°C (-4°F) to 75°C (167°F)
- Maximum humidity during storage: 5% - 85% relative humidity
- MyEcc V5 is splash-proof (IP 22)

### **Power requirement:**

USB 3.0 plug connection 5VDC (100mA)

### **Weight/dimensions:**

MyEcc V5

0.325 kg

120 × 95 × 50 mm (length × width × depth)

### **Required operating system on the iPad-based communication aid:**

Minimum iPadOS version 16.6

### **Required iPad model:**

All iPad Pro models are compatible

## 31 Network security

The MyEcc Prop (iOS) has no external access to change the system. Information on the system safety of the other components can be found in the manufacturer's manuals (camera system, display, wheelchair).

**No external data carriers may be connected to the system.**

## 32 State of the art

HomeBraceGermany products are designed and realised according to the latest state of the art. Safety and compliance with standards are confirmed by the affixing of the CE mark.

**The declaration of conformity can be requested free of charge from HomeBraceGermany.**

## 33 Residual risks

The following residual risks must be taken into account when operating the MyEcc Prop (iOS). These are recognised as part of the risk analysis and are accepted by HomeBraceGermany. It is not possible for HomeBraceGermany to completely prevent these risks.

**Risk:** Driving forwards/backwards over critical points (steps, ramps, slopes, edges).

**Cause:** User may not be able to see the route.

**Consequence:** Accident with the wheelchair (serious injuries, death).

**Control measure:** User or accompanying person aware of the route/environment.

**Recommended action:** Emergency stop on the wheelchair (can be remote-controlled if necessary).

**Risk:** Collision with other persons.

**Cause:** User cannot recognise the obstacle.

**Consequence:** Personal injury.

**Control measure:** User or accompanying person aware of the route/environment.

**Recommended action:** Emergency stop on the wheelchair (can be remote-controlled if necessary).

**Risk:** A plug comes loose when driving/adjusting the seat.

**Cause:** The cabling was not checked before driving off.

**Consequence:** Wheelchair remains stationary.

**Control measure:** check all cable connections according to the instructions before use.

**Recommended action:** Move the wheelchair with the control unit out of the danger zone and improve the seating position using the wheelchair controls.

**Risk:** The power supply for the MyEcc Prop (iOS) drops below 5V.

**Cause:** Cable fault, batteries not charged.

**Consequence:** Wheelchair remains stationary.

**Control measure:** Before travelling, check the current charge status of the wheelchair and charge it first if necessary.

**Recommended action:** Wheelchair can still be driven with the original controls and moved out of the danger zone. The seating position can be improved with the original controls.

## 34 FAQ / frequently asked questions

### **The iPad is not responding or the screen is black. What should I do?**

- Ensure that all cable connections between the iPad and the control unit are correctly connected and that there is an active Bluetooth connection.
- Restart the iPad by turning it off for a few seconds and then turning it back on.
- Check that the battery is charged.
- If the problem persists, contact the manufacturer of your communication device.

### **Eye control is not working or is responding inaccurately. What is the problem?**

- When changing the seating position. Recalibrate the eye control.
- Ensure that the eye control is calibrated correctly and that the position of the user's eyes is recognized correctly.
- Check the environment for possible light sources or reflections.
- If the problem persists, contact the manufacturer of your eye control system.

### **The MyEcc Prop (iOS) software responds, but the wheelchair does not move. Why is this?**

- Check the cabling.
- Use the original cables.
- Check the Bluetooth connection.
- Check that the control box is connected correctly and that the LED (A) is lit.  
(In prop mode: A and B are lit).
- When connecting the MyEcc V5, select the appropriate port on the control box.
- Has the appropriate driving profile been selected on the wheelchair?



If the problem persists, please contact our technical support.

## 35 Contact

### **HomeBraceGermany GmbH**

Managing Director: Thomas Rosner

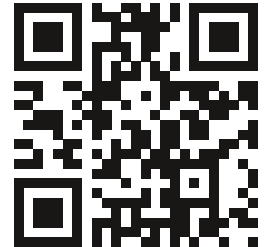
### **Postal and delivery address**

Stuttgarter Str. 11  
73614 Schorndorf

### **Registered office and billing address**

Birkenweg 12 | 73660 Urbach  
+49 7181 20741-0 | info@homebrace.com

[www.homebrace.com](http://www.homebrace.com)



### **English version 01/2026 (Suitable for software version 4.6)**

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