



Instructions for use

1009.25B0

Universal remote control

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Due to further development of the product, the figures used and technical specifications given in these Instructions for Use may slightly differ from the current state of the product.

V01 05 07-05-2024



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1 Introduction

1.1 How to use these instructions for use

These instructions for use are provided to familiarise you with the features of this product. The instructions for use are divided into separate chapters.

Please note:

- Read these instructions for use through carefully and completely before using the product for the first time.
- Always proceed in accordance with the information provided in these instructions for use.
- Store these instructions for use in the vicinity of the product.

1.1.1 Abbreviations

EMC	Electromagnetic compatibility
EN	European standard
EEC	European Economic Community
IEC	International Electrotechnical Commission
RF	Radio frequency
INT	Intermittent
IPS	Internal Power Source
IR	Infrared
ISO	International Organization for Standardization
LED	Light-Emitting Diode
OR table	Operating table
SDC	Service-oriented device connectivity
SELV	Safety Extra Low Voltage
SN	Serial no.




1.1.2 Symbols and formatting

Symbol	Meaning
1. 2.	Instructions to follow / list with numbered steps
➤	Result of an action
•	Numbered steps / List entry / precondition
»»	Reference to other pages within this document
[...]	Key / Module / Mode
bold	Menu / on-screen button
<i>[italics]</i>	Field to be filled in
1122.33XX	Order number with different variants (XX)

Tab. 1: Symbols and formatting



1.1.3 Definitions

1.1.3.1 Design of safety notes

Pictogram	Descriptor	Text
	DANGER!	Identifies an immediate danger to people, which may result in death or serious injuries.
	WARNING!	Identifies a potential danger to people or property, which may result in damage to health or serious property damages.
	CAUTION!	Identifies a potential danger to property, which may result in property damages.

Tab. 2: Design of safety notes

1.1.3.2 Structure of notes

Pictogram	Descriptor	Explanation
	NOTE	Supplementary assistance or further useful information which does not indicate a risk of injury to persons or a risk of property damage are described in the text of the note.
	ENVIRONMENT	Information regarding proper disposal.

Tab. 3: Structure of notes

1.1.3.3 Definition for 3-dimensional coordinate system

Reference	X axis	Y axis	Z axis
Product	Longitudinal direction	Lateral direction	Height
Patient	Longitudinal	Transverse	Sagittal
Neutral	Horizontal	Horizontal	Vertical

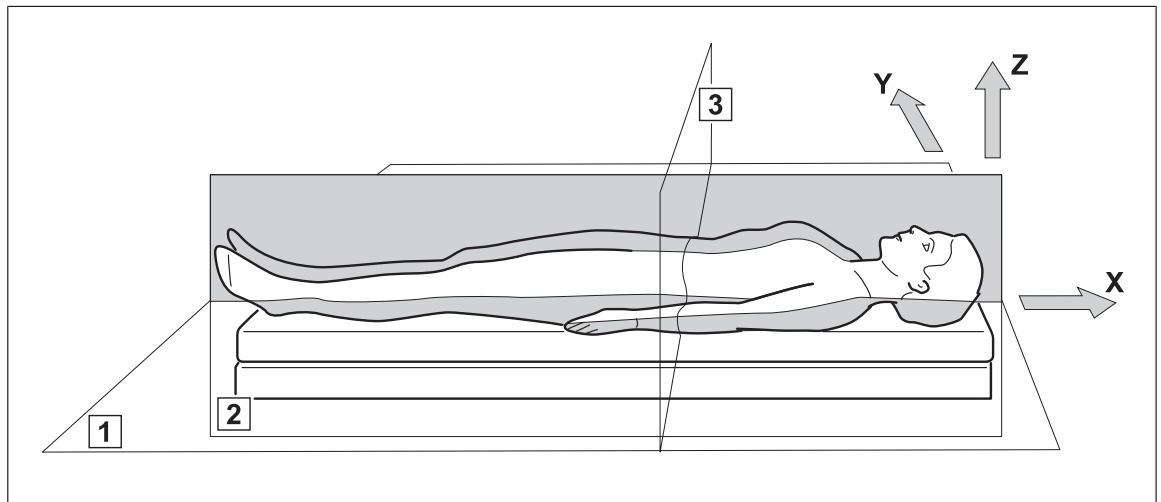


Fig. 1: Definition of terms for the 3-dimensional coordinate system

- 1 Frontal plane (horizontal plane)
- 2 Sagittal plane
- 3 Transverse plane

1.1.3.4 Definition of inclination and tilt

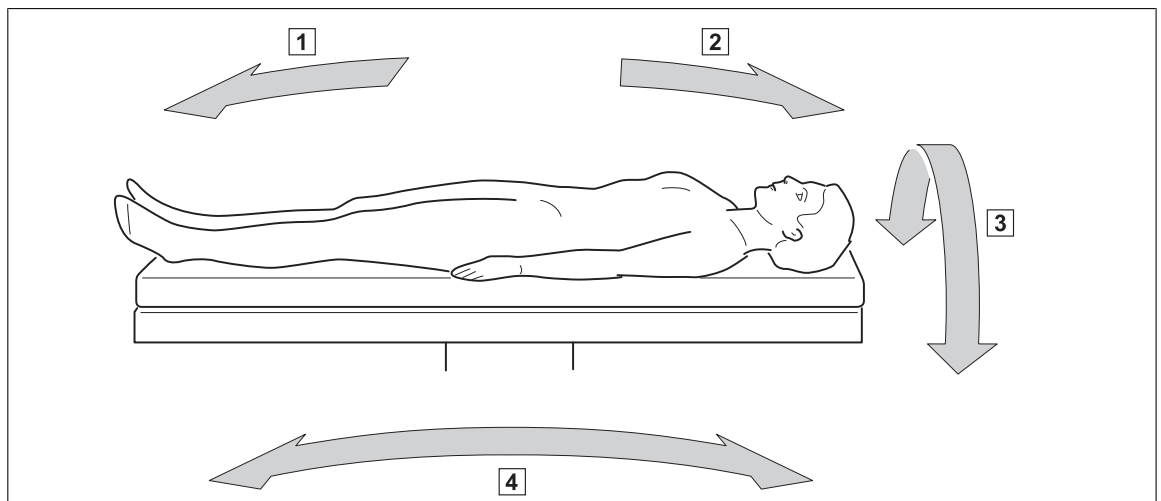


Fig. 2: Definition of inclination and tilt

- 1 Reverse Trendelenburg
- 2 Trendelenburg (head down)
- 3 Lateral tilt
- 4 Inclination

1.1.3.5 Definition of patient orientation

**WARNING!****Risk of injury!**

If the selected patient orientation is not correct, this may result in the OR table adjusting unintentionally during operation.

Check correct patient orientation prior to each adjustment.

The patient orientation is shown on the touchscreen of the control device.

The patient orientation defines the direction in which the patient is positioned with regard to the table top. NORMAL and REVERSE patient orientation are differentiated.

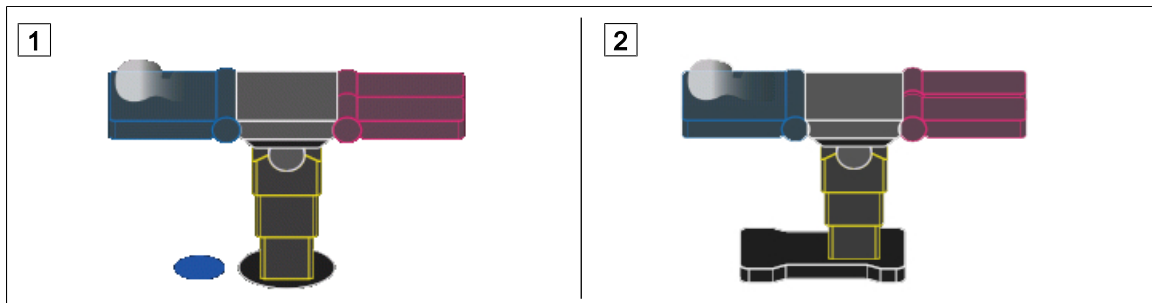
NORMAL patient orientation

Fig. 3: NORMAL patient orientation

1 The blue dot is located on the touchscreen of the control device to the left of the operating table column.

2 The upper part of the patient's body is located above the longer section of the operating table base.

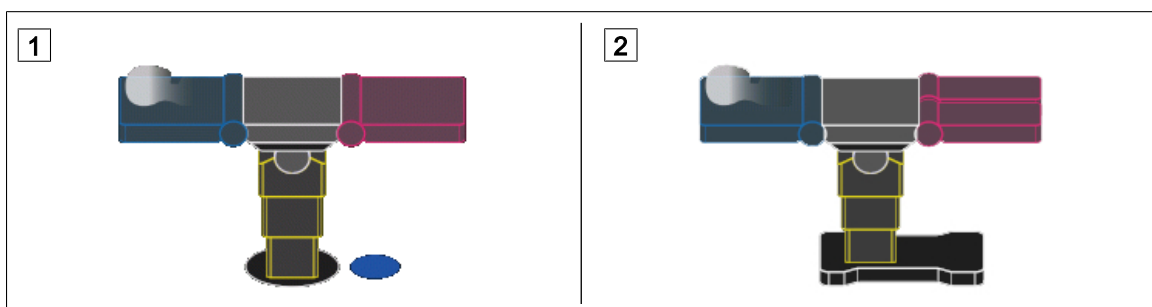
REVERSE patient orientation










Fig. 4: REVERSE patient orientation

1 The blue dot is located on the touchscreen of the control device to the right of the operating table column.









2 The legs are located above the longer section of the operating table base.

1.2 Symbols used

Symbols are attached to products, type plates and packaging.

Symbols	Labelling
	Labelling of products developed and marketed in accordance with relevant European legal provisions.
	Labelling of products that have been placed on the market in accordance with the relevant legal requirements of the United Kingdom.
	UL classification mark from Underwriters Laboratories as proof that the product has been assessed by Underwriters Laboratories for specific properties in order to exclude risks and to confirm the usability under certain circumstances. This labelling signifies compliance with the requirements both for the USA and for Canada.
	Labelling in accordance with the standard ISO 15223-1. Symbol for "Catalogue number / product number".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Serial number".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for the labelling of medical devices
	Labelling in accordance with the standard ISO 15223-1. Symbol for "Name and address of the manufacturer". The date of manufacturing can be combined with this symbol.
	Labelling in accordance with the IEC 60601-1 standard. Symbol for "Follow Instructions for use".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Consult instructions for use".

Tab. 4: Symbols

Symbols	Labelling
IP X4	Labelling in compliance with the IEC 60529 standard. Symbol for "Splash protection".
	Labelling in accordance with the ISO 15223-1 standard. Labelling of packaging materials. Symbol for "Keep dry".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Fragile! Handle with care".
	Labelling in accordance with the ISO 7000 standard. Symbol for "Top".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Temperature limit".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Humidity limitation".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Atmospheric pressure limitation".
	Labelling in accordance with the 2012/19/EU directive (on used electrical equipment and electronics). Symbol for "Do not dispose of product via the municipal collection points for used electrical equipment".
	Labelling in accordance with the ISO 15223-1 standard. Symbol for "Name and address of the importer".

Tab. 4: Symbols

1.3 Disposal

1.3.1 Old products

Getinge will take back used products or those which are no longer in service. For further information, please contact your personal Getinge representative.

Used products or parts thereof may be contaminated. In order to avoid potential infection risks, the product must be cleaned and disinfected prior to its return/disposal.

The national regulations and disposal regulations must be observed for all disposal measures.

1.3.2 Packaging

The packing materials are made of materials compatible with the environment. The packing material may be disposed of by Getinge on request.

1.3.3 Batteries and rechargeable batteries

Rechargeable batteries/batteries can be submitted to your regional disposal system.



ENVIRONMENT

Defective rechargeable batteries must be recycled in accordance with guideline 2006/66/EC.

Defective rechargeable batteries may not be opened, disposed of in household waste, burned or thrown in water.

Defective rechargeable batteries should be returned to local collection points.

1.3.4 Used electrical devices

Within the European Economic Community

This product is within the scope of the validity of guideline 2012/19/EU (waste electrical and electronic equipment). This product is not registered for use in private households, it may also not be disposed of via municipal collection points for waste electrical and electronic equipment. For further information on legally compliant disposal, please contact the assigned Getinge representative.

Outside the European Economic Community

When disposing of this product, ensure compliance with the applicable national regulations on the handling and disposal of used electrical equipment.

1.4 Basic requirements

1.4.1 Use in accordance with the intended purpose

This product is a medical device.

The product may only be operated by persons who have been instructed in the use of the product by an authorised person.

The product is designed solely for the purpose of human medicine.

The patient may only be placed and positioned under medical supervision.

Rooms used for medical purposes in which the product is operated must comply with HD 60364-7-710 or equivalent national regulations.

The EMC characteristics of this product allow its use in industrial and hospital environments (CISPR 11, Class A). This product may not provide adequate protection against radio services when used in a residential environment (which typically requires Class B according to CISPR 11). If necessary, the user must take corrective measures such as conversion or reorientation of the product.

The test levels use conform to those used for professional medical equipment.

Operation

The operator must ensure that the product is fully functional and in good working order prior to use.

Accessories

Accessories or combinations of accessories may only be used as and when indicated in these instructions for use.

Other accessories, combinations of accessories or consumables may only be used if they are designed specifically for the use in question and will not adversely affect either performance features or safety requirements.

1.4.2 Applicable standards

The product meets the basic safety and performance requirements in accordance with the local applicable legal specifications for medical devices.

1.4.3 Intended use

The universal remote control (1009.25BX) is intended for operation of operating tables from Getinge.

The design of the operating key pad indicates the individual adjustment functions of the operating table. In addition, the control device is equipped with a touchscreen for controlling secondary functions. Adjustment functions of the operating table can be controlled directly only via operating buttons.

An operating table can either be operated wirelessly or via an infrared or Bluetooth interface using the control device or as a corded control unit in conjunction with a cable.

The product may only be operated by medically trained staff within the OR environment.

Any use other than described above is deemed not to be in accordance with the intended use.

1.4.4 Mounting points

The control device may be used in conjunction with the following operating tables:

- CORIN OR table (7700.01A0/A2/B0/B2/F0/F2/G0/G2)
- MEERA OR table (7200.01B0/B2/F0/F2)
- MEERA ST OR table (7100.01B0/B2/F0/F2)
- MEERA CL OR table (7000.01B0/F0)
- OTESUS OR table (1160.01A0/B0/C0/D0)

1.4.5 Variants

The product is available in the following versions:

- 1009.25B0
Universal remote control

1.4.6 Product features

1.4.6.1 Essential performance features

The product corresponds to IEC 60601-1 and its collateral standards with the following essential performance features:

- This product has no essential performance features

Note: The function of the product could be impacted by disruptive electromagnetic emissions from other electrical equipment or electromagnetic discharge (ESD) such that they cannot be carried out or can only be carried out at intervals.

This may occur, in particular, when using RF surgical equipment near the product.

1.4.6.2 Latex-free materials

All used materials (e.g. materials for pads and straps) are latex free.

1.4.7 Reportable event

Any serious incident involving this product must be reported to MAQUET GmbH and, if necessary, to the local competent authority.

2 Safety notes

2.1 General safety notes



DANGER!

Potentially fatal!
Risk caused by unauthorised modifications.

Modifications at the product are not permitted.



DANGER!

Potentially fatal!
Danger resulting from improper handling.

Always observe the instructions for use for the OR table.



DANGER!

Potentially fatal!
Risk posed to the patient's vital functions due to incorrect positioning.

Position the patient correctly and keep under permanent observation.



WARNING!

Risk of injury!
Improper patient positioning may cause health damage (e. g. decubitus).

Position the patient correctly and keep under constant observation.



WARNING!

Risk of injury!
When transporting, when transferring table tops, when adjusting/moving the OR table or transporter, as well as when positioning a patient, there is a risk of crushing and shearing of the personnel, patient and accessories, especially in the vicinity of the positioning modules.

Make sure that no one is crushed, sheared or injured in any way, and that accessories do not collide with their surroundings.



WARNING!

Risk of injury!
When adjusting, moving or storing the OR table / table top, the staff, the patient and the accessories are exposed to pinching and shearing hazards, particularly in the area around the joints at the head rest, back and leg plates.

Always ensure that no one can be subjected to pinching or shearing action or injured in any other way and that the accessories do not collide with any nearby objects.



WARNING!

Risk of injury!

When adjusting and moving the OR table, the transporter, the table top or the accessories, as well as when carrying out a table top transfer, collisions may occur between the patient and individual products or parts that are pointing downwards.

During adjustments, observe the OR table, the transporter, the table top and accessories constantly and avoid collisions. Ensure that tubes, cables and drapes are not trapped.



WARNING!

Risk of injury!

When adjusting and moving the OR table, the table top or the accessories, collisions may occur with the patient, between the individual products or parts pointing downwards.

During the adjustment procedures, always pay attention to the OR table and accessories and avoid collisions. Ensure that tubes, cables and drapes are not trapped.



WARNING!

Risk of injury!

Faulty or defective products may result in injuries.

- Before use, check the proper working order and fully functional state of the product.
- Stop using faulty or defective products and inform the Getinge representative.

2.2 Safety notes for the product



WARNING!

Risk of injury!

Magnetic fields with a magnitude greater than 0.5 mT may influence the functionality of the product.

Never use the product within the 0.5 mT field.



WARNING!

Risk of injury!

Whenever the product is mounted and adjusted, there is a danger of pinching and shearing to the staff, patient and accessories.

Always ensure that no one can be subjected to pinching or shearing action or injured in any other way and that the accessories do not collide with any nearby objects.

2.3 Safety notes regarding the use of accessories

**DANGER!****Potentially fatal!****Patient may be endangered as a result of incorrect use.**

Follow the instructions for use for all accessories.

**WARNING!****Risk of injury!****Accessories that are not approved by Maquet for this product, as well as accessories from other manufacturers, may cause injuries.**

Only use Maquet accessories that have been approved for the product.

Accessories made by other manufacturers may only be used after obtaining written permission from Maquet.

**CAUTION!****Property damage!****If the coiled cord is connected to the control device and the tension is increased, a freely movable control device can spring back and become damaged.**

When charging a freely movable control device, make sure that the coiled cord is not more taut (approx. 90 cm).

When charging, attach the control device to the side rail using the cable.

2.4 Safety notes EMC

**WARNING!****Risk of injury!****Electromagnetic radiation from electrical devices that are in the vicinity of the product, or directly at/on the product may affect the functions of the product.**

Do not place any electrical devices nearby or on the product. If this is not possible, monitor the product and electrical devices and check for any potential functional faults.

**WARNING!****Risk of injury!****Electromagnetic radiation caused by the use of portable RF communication devices (e.g. mobile telephones and radios) located in the vicinity of the product may influence the functions of the product.**

Ensure that the distance between the product and RF communication devices (including the connected control devices and cables) is at least 30 cm.

**WARNING!****Hazard of injury!****The use of accessories, cables or spare parts not specified by GETINGE may result in increased electromagnetic interference emissions or reduced electromagnetic immunity of the product or affect the safety of the product.**

Only use accessories, cables or spare parts specified by GETINGE for this product.

3 Initial operation

3.1 Put the control device into operation



NOTE

The battery is not fully charged when the control device is delivered. The battery must be fully charged before initial operation.



NOTE

In order to be able to attribute possible error messages to a certain time, the date and time must be set. The set date and time are displayed in the **System information** menu.

-
1. Fully charge the control device [► Page 19].
 - The control device is activated.
 - The control device is charged.
 2. Set the date and time [► Page 40].

3.2 Charge the control device



NOTE

The charging time for a fully discharged battery is approx. 6 hours.

The control device can be used with the following products:

- Stationary charging station (1009.24A0)
for connection to the AC mains 100–240 V AC
- Mobile charging station (1009.24B0)
for connection to the AC mains 100–240 V AC
- Stationary charging station (1009.24C0)
for connection to the 24 V DC mains
- Cable (1009.27A0)
for connecting to the OTESUS 1160.01, MEERA CL 7000.01, MEERA ST 7100.01, MEERA 7200.01, CORIN 7700.01 operating tables

The mobile charger/the stationary charging station have several functions:

- Safe storage of the control device
- Charging the control device
- Automatic unlocking of the activated sleep mode [► Page 41]

3.2.1 Charging of the control device with the mobile charging station (1009.24B0)

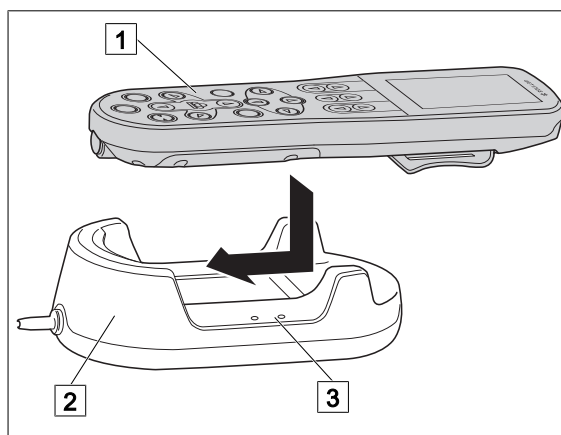


Fig. 5: Charge the control device

Inserting the control device

1. Insert the control device **1** into the charger cradle **2** from above.
2. Make sure that the control device is in contact with the lower end of the charger cradle.
 - The control device is charged as long as the green LED **3** is flashing.

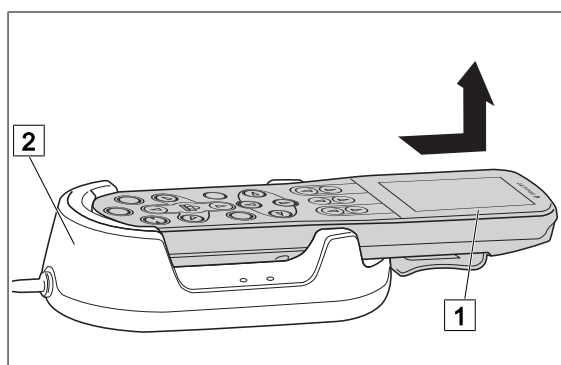


Fig. 6: Removing the control device

Removing the control device

1. Hold the control device at the height of the touchscreen **1** and remove it upwards from the charger cradle **2**.

3.2.2 Charging the stationary charging station (1009.24A0/C0)

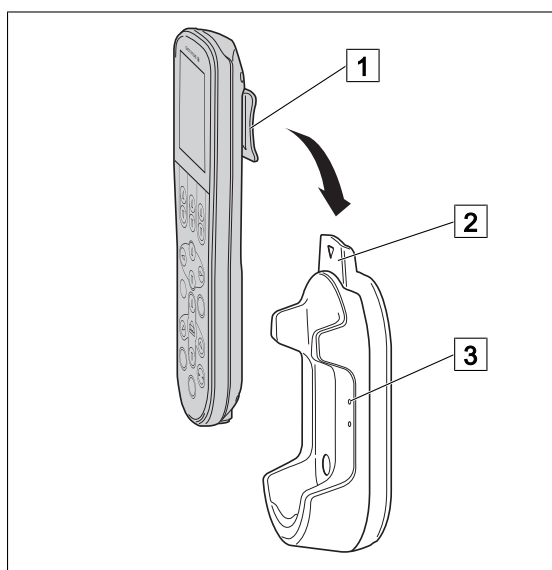


Fig. 7: Attaching a control device

Attaching the control device

1. Hang the holding bracket **1** of the control device into the cradle **2** on the stationary charging station.
 - The control device is charged as long as the green LED **3** is flashing.
2. Check for firm seating.

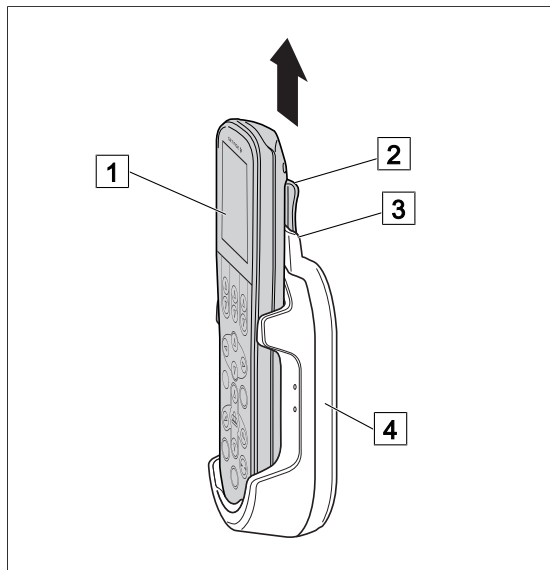


Fig. 8: Removing the control device

Removing the control device

1. Hold the control device at the height of the touchscreen [1] and pull the holder [2] upwards off the holder [3] of the stationary charging station.
2. Remove the control device from the charging station [4] by pulling up at an angle.

3.2.3 Charging the control device via the cable



NOTE

The function **Active Cable Charging** may be used only if no operation is carried out. Charging is interrupted as soon as a movement of the operating table is detected. In this case, the slider in the menu item **Active Cable Charging** is on the left side once again and is greyed out (inactive).



NOTE

The connection of the cable differs depending on the connected OR table. For further information on the position of the connection socket of the cable, refer to the OR table's instructions for use.



NOTICE

Depending on the connected operating table, the function **Active Cable Charging** is displayed on the control device.

If the control unit is connected to the socket of the OR table with the cable (1009.27A0), the battery of the control device can be charged. As long as the control device is connected via the cable, the external power supply icon is displayed on the touchscreen [►► Page 29].

If the rechargeable battery of the control device is defective, the control device can continue to be used as a corded control device.

3 Initial operation

Charge the control device

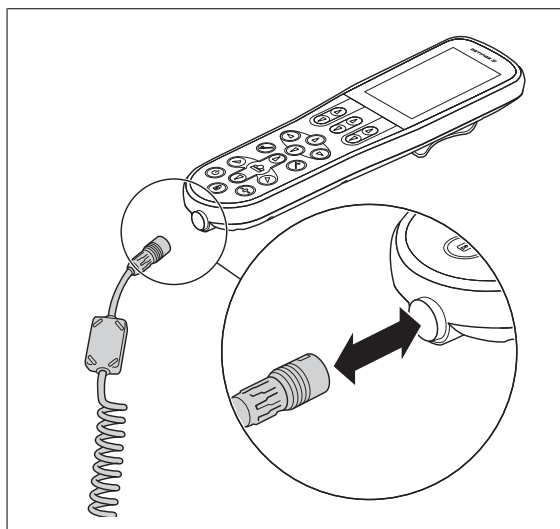


Fig. 9: Connecting cables

Connecting cables

1. Remove the locking plug from the socket connection [► Page 23].
2. Insert the end of the cable with the arrow facing up into the connector socket of the control device.
3. Connect the other end of the cable to the OR table.

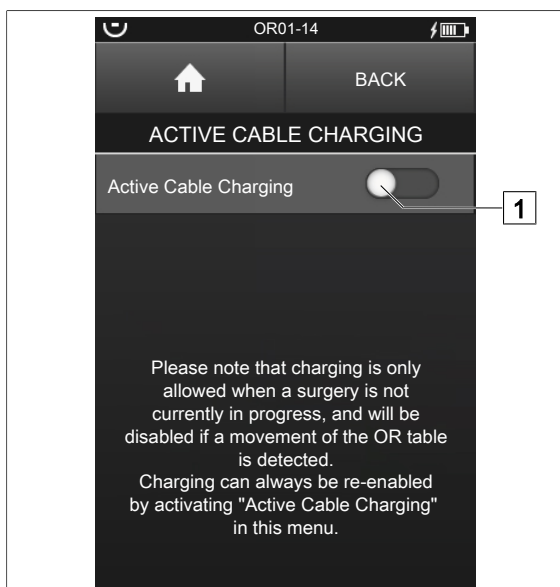


Fig. 10: Active Cable Charging

Activating charging via cable

Prerequisites:

- The **Active Cable Charging** menu is open.

1. Touch the slider **1**.
 - Charging via cable is activated.

Deactivating charging via cable

1. Touch the slider **1**.
 - Charging via cable is deactivated.

3.3 Remove/insert the locking plugs

The control device is delivered with a locking plug to cover the connector socket. The cable can be connected to the control device using the connector socket for use as a corded control device and to charge the battery. Without the cable, the control device can also be used as an IR remote control.

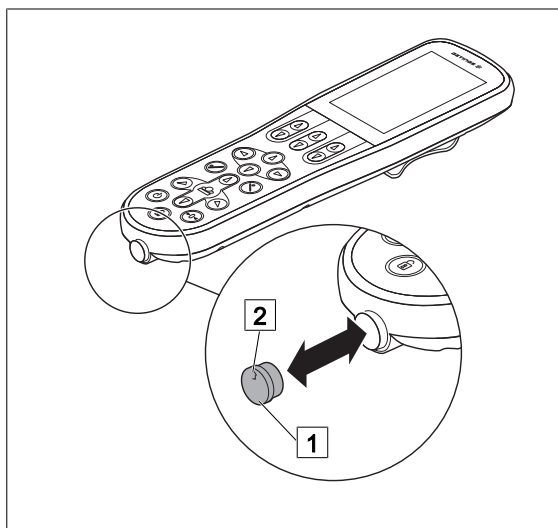


Fig. 11: Remove/insert the locking plugs

Remove connector socket

1. Remove the locking plug [1] from the socket connection.

Insert connector socket

1. Insert the locking plug [1] in the socket connection.
2. Make sure that the arrow [2] on the plug is exactly aligned with the arrow on the connector socket of the control device.

4 Operation and use

4.1 Notes on use



NOTE

The graphics in these instructions for use show the available functions of the touchscreen user interfaces. Depending on the OR table being operated, there may be differences between the user interface described here and the actual user interface.



- On every occasion, before adjusting the OR table, check the set patient orientation [► Page 10] and adapt as necessary.
- As a general principle, do not perform adjustments with two control devices at the same time. In the event that multiple control devices are accidentally used simultaneously, the override control panel and corded controls take priority over the infrared devices. If equally ranked control devices are used at the same time, adjustment may be interrupted or stopped.
- The adjustment speed may be modified according to the overall load and protrusion. In the event of large overall loads/protrusion, the speed of lowering actions is increased and the speed of raising actions is reduced.
- The adjustment functions are executed for as long as the appropriate adjustment button is pressed. If the adjustment button is released, the adjustment is stopped.
- The capacity of a fully charged rechargeable battery is sufficient for several days of OR operation or around 2.5 hours of continuous operation.
- In order to avoid empty batteries of the control device during surgery, we recommend storing the operating device in the charging cradle when not in use.
- When the battery charge is $\leq 20\%$, the touchscreen shows the message **Remote control battery low** for approximately 5 seconds. The control device remains switched on and can be used again.
- When the battery charge is $\leq 5\%$, the touchscreen shows the message **Remote control battery empty**. The control device switches itself off after 5 seconds. After 10 seconds in the charger cradle, the control device can be switched back on and you can continue to use it in the charger cradle.

4.2 Transmission power

The transmission signal of the control device is sufficient to adjust the connected OR table from a greater distance. in wireless operation.

If the button is pressed and the desired adjustment of the OR table is not carried out and the status symbol for signal exchange between the OR table and control device [► Page 29] is not displayed, the infrared receiver on the column may be covered (for instance by a person). In this case, change the direction or position of the control device slightly and repeat the adjustment.

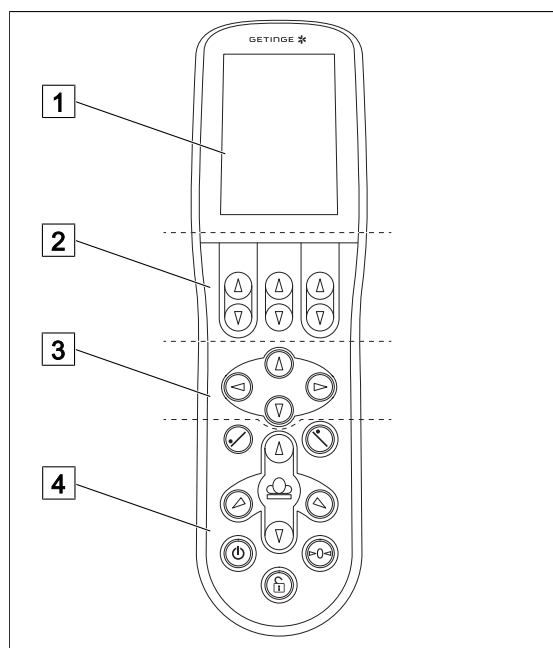
4.3 Acoustic signals of the control device

Acoustic signal	Description
	Acknowledgement tone <ul style="list-style-type: none"> The acknowledgement tone is emitted once, when a button is pressed.
	Quick intermittent tone (4 signal tones per second) <ul style="list-style-type: none"> 4 quick acoustic signals will sound if a button is not pressed correctly. Then the control device will switch off.

Tab. 5: Acoustic signals

4.4 Overview control device

The control device can be divided into four different areas.



- 1 Touchscreen: Operation via display
- 2 Touchscreen buttons: Buttons with colour concept [► Page 27] for adjustment of the front-end accessories in combination with the touchscreen
- 3 Multifunctional buttons: Buttons with several functions for operation in combination with the touchscreen
- 4 Adjustment buttons: Buttons for adjusting the OR table

Fig. 12: Overview of the control device

4.4.1 Button assignment and functions



NOTICE

Buttons light up for active functions.

* Button assignments and functions correspond to operation with a NORMAL patient orientation.

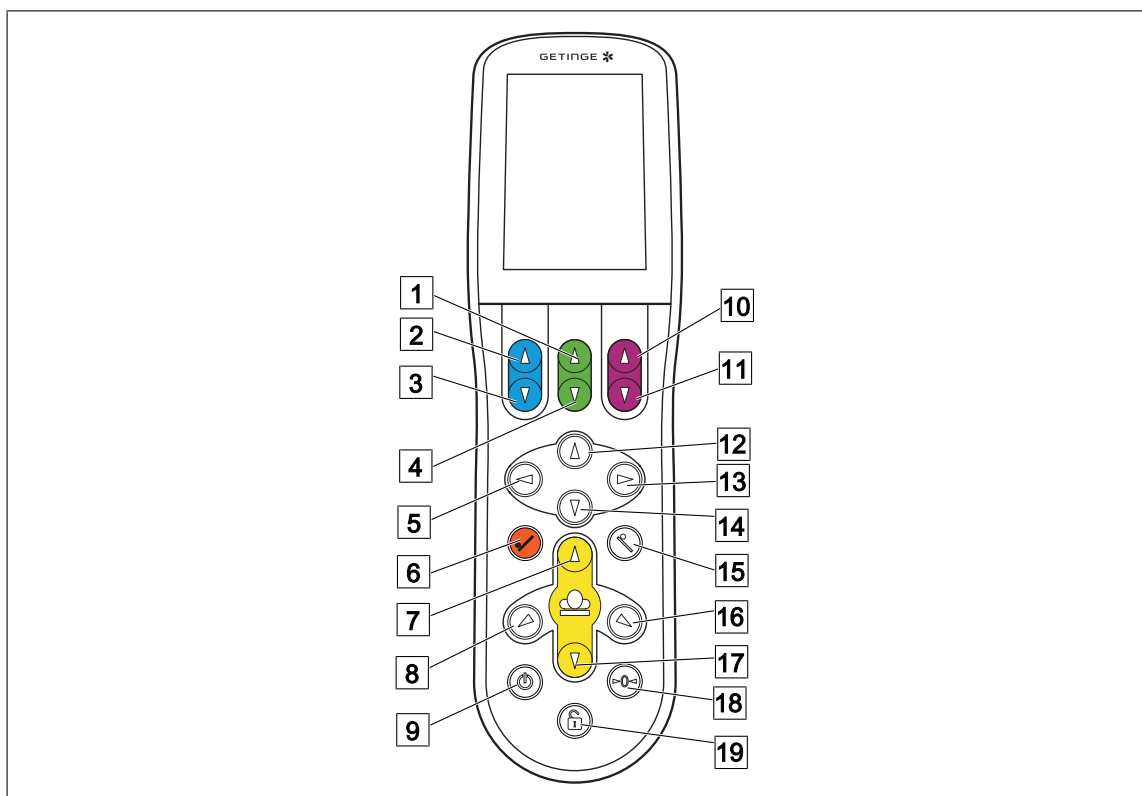


Fig. 13: Button assignment and functions of the control device

- | | |
|-----------------------------------|---|
| 1 [Special function up] button* | 11 [Magenta joint down] button |
| 2 [Blue joint up] button | 12 Multifunctional button up |
| 3 [Blue joint down] button | 13 Multifunctional button right |
| 4 [Special function down] button* | 14 Multifunctional button down |
| 5 Multifunctional button left | 15 [Reverse Trendelenburg] button |
| 6 [Trendelenburg] button | 16 [Lateral tilt right] button |
| 7 [Table top up] button | 17 [Table top down] button |
| 8 [Lateral tilt left] button | 18 [Zero.position] button |
| 9 [Stand-by] button | 19 [UNLOCK] button / Lock OR table quick access menu |
| 10 [Magenta joint up] button | |

* see the display on the touch screen

4.4.2 Colour concept of the touchscreen with the touchscreen buttons

Button colour	Area on the touchscreen	Description
Blue	Left area	The left area of the touchscreen is operated using the blue touchscreen buttons. The head-side adjustments of the table top are always displayed in this area.
Green	Middle area	The middle area of the touchscreen is operated using the green touchscreen buttons. Table tops with three motorised joint pairs, the adjustments of the middle joint pair (the lower back rest) are displayed in this area. Adjustment of the body elevator is displayed in this area for tabletops with a body elevator.
Magenta	Right area	The right area of the touchscreen is operated via the magenta touchscreen buttons. The foot-side adjustments of the table top are always displayed in this area.

Tab. 6: Colour concept of the touchscreen with the touchscreen buttons

4.5 Mounting the control device to the side rail

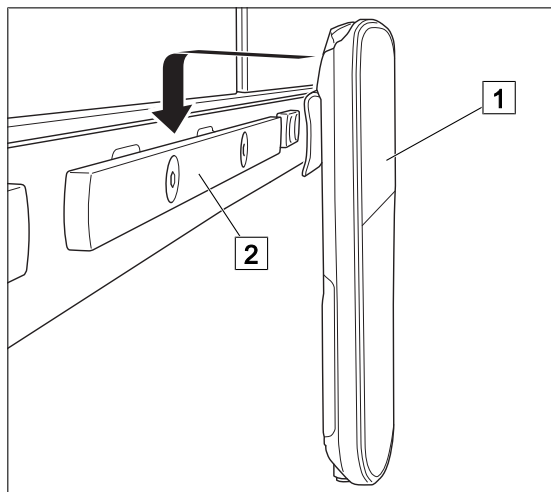


CAUTION!

Property damage!

A control unit attached to the side rail can slip off the side rail when the table top is adjusted or cause collisions with the OR table or other accessories.

Remove the control device from the side rail before adjusting the table top.



1. Attach the bracket 1 to the side rail 2.

Fig. 14: Mounting the control device to the side rail

5 Operating menu

5.1 Overview touchscreen



NOTE

The graphics in this manual show the available functions on the touchscreen. Depending on the operating table connected, the actual displays on the touchscreen may differ from those shown in these operating instructions.



NOTE

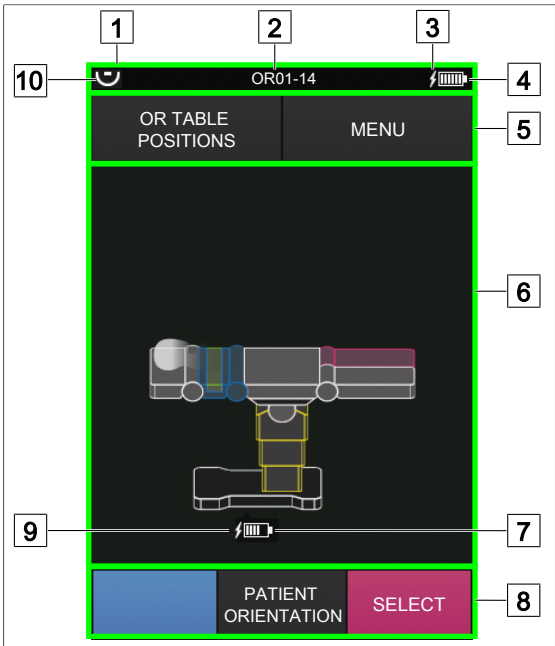
Buttons are illuminated orange if they belong to active functions that can be controlled via the touchscreen.

5.1.1 Display start screen



NOTE

The battery charge level of the control device is displayed in the status bar. The battery charge level of the currently connected OR table is displayed in the main window below the OR table graphic.



The start display on the touchscreen is divided into different areas with different icons:

- 1 Status bar area [» Page 29]
- 2 Display of the name of the operating table and IR code of the connected operating table
- 3 External power supply of the control device
- 4 Battery symbol of the control device
- 5 Navigation bar or operating bar
- 6 Main window area
- 7 External power supply of the operating table with mobile/independently manoeuvrable column
- 8 Control bar area (optional)
- 9 Battery symbol of the operating table with mobile/independently manoeuvrable column
- 10 Connection active

Fig. 15: Overview of start screen

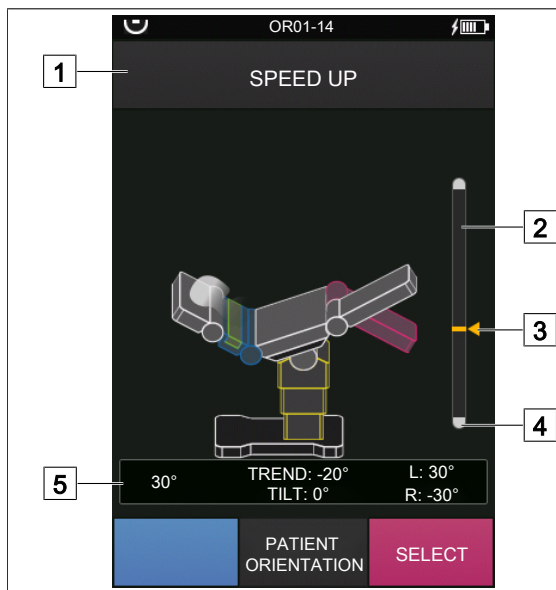
5.1.2 Display adjustment procedure



WARNING!

During inclination, lateral tilt and back plate adjustment the adjustment angle display automatically shows the current adjustment angle. This display only serves an informational purpose and does not provide an accurate view of the actual table top angle.

When adjusting the table top, always observe the patient and do not rely on the angle values shown on the display.



Additional information is displayed on the touchscreen during the adjustment process:






- 1 **SPEED UP** button [► Page 43]
- 2 Restricted adjustment range:
Adjustment range in which there is no risk of collision with other accessories and objects.
- 3 Current adjustment position
- 4 Maximum possible adjustment range:
This is restricted as soon as there is a risk of collision with other accessories and objects.
- 5 Adjustment angle display of the accessories used and the table top

Fig. 16: Overview of adjustment procedure display

5.2 Symbols for status bar

Symbol	Meaning
	control device receives signal from the operating table.
	Control device is connected to external power supply (charger or cable).
	Battery of the control device is fully charged.
	The battery charge level of the control unit is in the range of approx. 83 %. The battery charge capacity is sufficient.

Tab. 7: Symbols for status bar

Symbol	Meaning
	The battery charge level of the control unit is in the range of approx. 66 %. The battery charge capacity is sufficient.
	The battery charge level of the control unit is in the range of approx. 50 %. The battery charge capacity is sufficient for one surgery.
	The battery charge level of the control unit is in the range of approx. 33 %. The battery must be charged soon.
	The battery charge level of the control unit is in the range of approx. 17 %. The battery must be charged soon.
	Battery of the control device is nearly fully discharged. The battery must be charged.

Tab. 7: Symbols for status bar

5.3 Main menu [Menu]

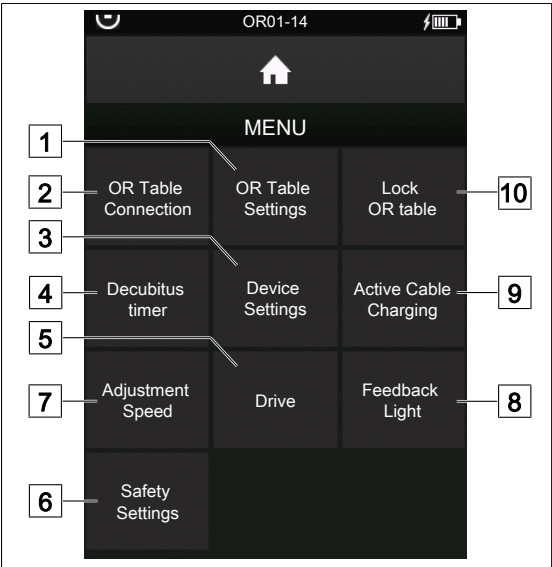


Fig. 17: Overview of main menu

- The following functions and settings may be selected in the **MENU** main menu:
- 1 **OR Table Settings** menu [» Page 35]
 - 2 **OR Table Connection** menu [» Page 31]
 - 3 **Device Settings** menu [» Page 38]
 - 4 **Decubitus timer** menu [» Page 47]
 - 5 **Drive** [» Page 46] menu (displayed only when the control device is connected to the operating table via a cable)
 - 6 **Adjustment Speed** menu [» Page 42]
 - 7 **Safety Settings m** [» Page 46] menu
 - 8 **Feedback Light** menu [» Page 48]
 - 9 **Active Cable Charging** menu [» Page 21]
 - 10 **Lock OR table** menu

5.3.1 Menu [OR table connection]

The control device can be connected to an operating table in several ways:

- Direct connection with a cable to the operating table. The operating table is automatically connected to the control device as soon as a button on the control device is pressed.
- Connection to the operating table via an IR code. The connection with an IR code can be established via the **OR Table Connection** menu.



Fig. 18: **OR Table Connection**

The following functions and settings can be selected in the **OR Table Connection** menu:

- 1 **Connect to OR table** menu option
 - **Connect to new OR table**
 - **Last connections**
- 2 **Disconnect from OR table** menu option
- 3 **Rename OR table** menu option
- 4 **View IR code** menu option

5.3.1.1 Connecting a new OR table

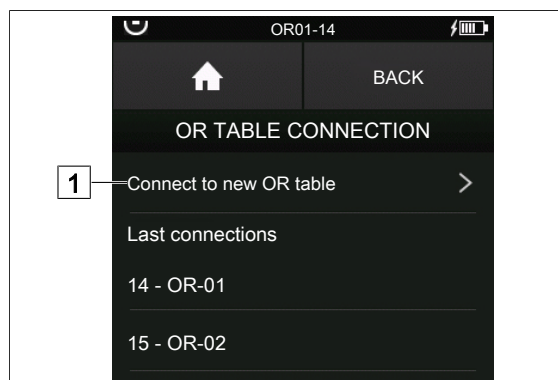


Fig. 19: **Connect a new OR table**

Connect the operating table

Prerequisites:

- The **OR Table Connection** menu is open.
1. Touch the **Connect to OR table** button.
 - Known operating tables are listed and the menu item **Connect to new OR table** is displayed.
 2. Touch the **Connect to new OR table** 1 button.
 - The window for entering the IR code appears.

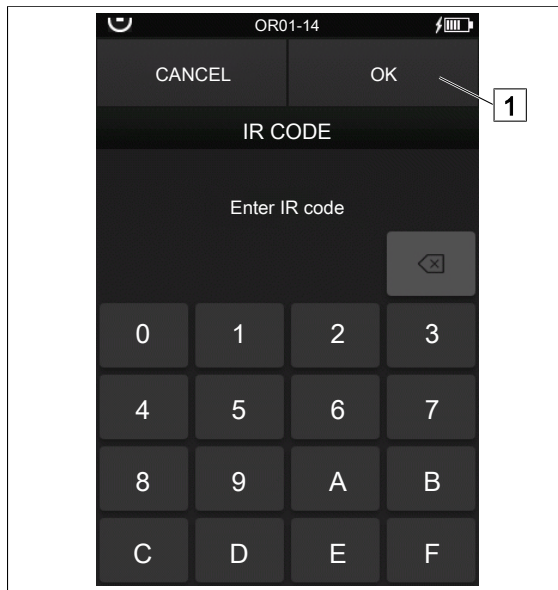


Fig. 20: Enter IR code

Enter IR code

1. Enter the IR code of the new operating table.
2. Touch the **OK** 1 button.
 - The control device searches for available product groups within the transmission range.
3. Touch the **OK** 1 button.
 - A new operating table is connected.

Grouping of IR codes according to product groups



WARNING!

Risk of injury caused by unintentional movement of the OR table!
If two OR tables within a product group have the same IR code, the operation with the control device may result in unintentional movement of the second OR table.

Ensure that IR codes are assigned only once within a product group.

The OR table and control device must be set to the same IR code. The IR code has two characters and is made up of the numbers 0–9 and the letters A–F. The factory set IR code for the control device is [0 0]. For this reason, this IR code may never be used as the IR code. If multiple OR tables of the same product group are used on the same floor, you must ensure that these OR tables do not use the same IR code.

The following products are summarised into product groups in order to ensure fault-free parallel operation:

- Operating table system 1120, BETAMAQUET 1140
- OR tables HEIDELBERGER 1130, BETASTAR 1131.01/02, 1211 (gynaecology/urology), 1223 (ENT/head), ORTHOSTAR 1420, ORTHOSTAR II 1425, ENDOSTAR 1532/1533
- Patient transfer units 1952, 1954, 1973, 1974
- ALPHAMAQUET 1150 operating table system
- OTESUS 1160 operating table system
- MAGNUS 1180 operating table system
- Operating table system AWIGS / VIWAS
- OR tables BETAClassic 1118.01, ALPHAClassic 1118.02/03, ALPHAClassic PRO 1118.06
- OR table BETASTAR 1131.12
- OR tables ALPHASTAR 1132.11, ALPHASTAR PLUS 1132.13, ALPHASTAR PRO 1132.21/22
- ALPHASTAR TOP 1132.17 OR table

- ALPHAMAXX 1133 OR table
- YUNO 1433 OR table
- OP-Tisch MEERA CL 7000, MEERA ST 7100, MEERA 7200
- OR table CORIN 7700.01

IR code



NOTE

An OR table can only be controlled with the control device that is clearly assigned to the OR table. Always ensure that the control device is located at the location of the corresponding OR table.

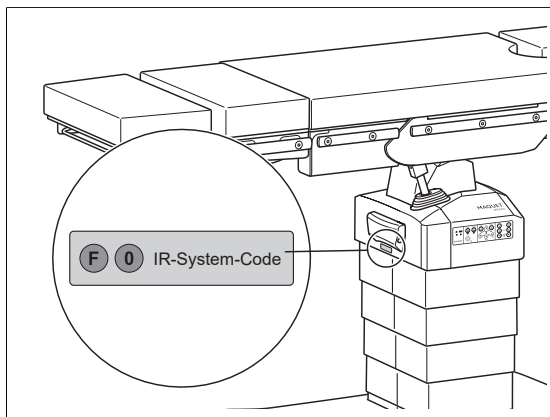


Fig. 21: IR code of the operating table

The IR code uniquely assigns a control device to the OR table. This ensures that only the assigned control device is able to adjust the OR table.

The IR coding of the control device and the OR table is carried out by authorised personnel.

The IR code is made up of the numbers 0–9 and the letters A–F.

The set IR code can be read from the touch-screen of the control device in the **OR Table Connection** [» Page 35] menu and from the column head of the operating table.

5.3.1.2 Reconnecting the known OR table

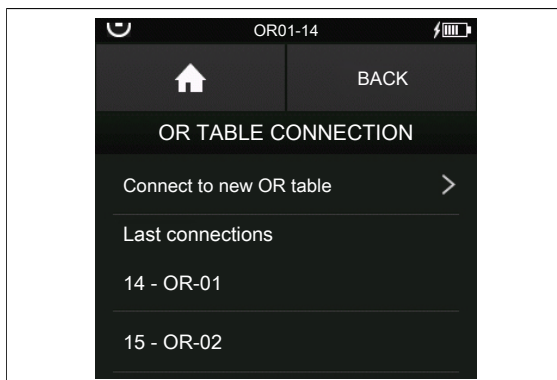


Fig. 22: Connect a known OR table

Prerequisites:

- The **OR Table Connection** menu is open.
1. Touch the **Connect to OR table** button.
 - Known operating tables are listed and the menu item **Connect to new OR table** is displayed.
 2. Touch already known operating table from the list.
 - Operating table is connected.
 - The **OR Table Connection** menu is open.

5.3.1.3 Disconnect the OR table

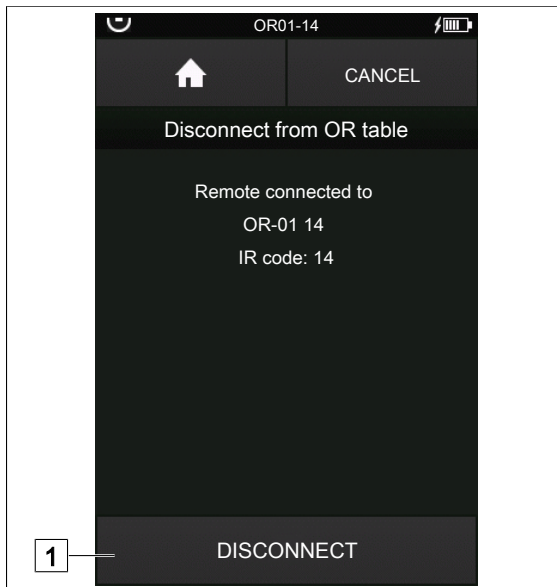


Fig. 23: Disconnect the OR table

Prerequisites:

- The **OR Table Connection** menu is open.
1. Touch the **Disconnect from OR table** button.
 - Window with connected table and associated IR code is displayed.
 2. Touch the **DISCONNECT** 1 button.
 - Operating table is disconnected.

5.3.1.4 OR table is renamed

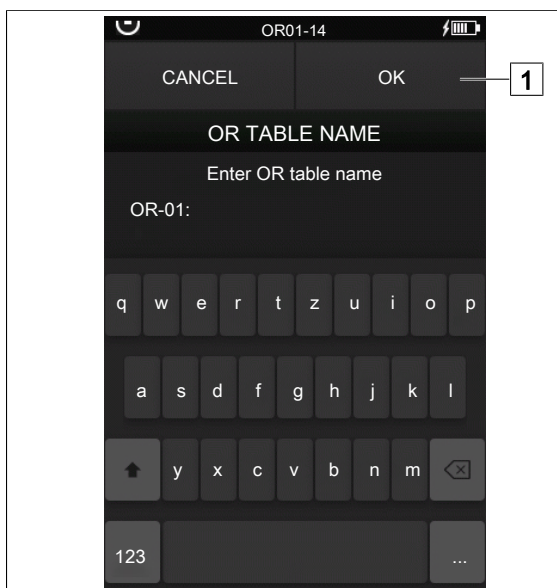


Fig. 24: Rename OR table

Prerequisites:

- The **OR Table Connection** menu is open.
1. Touch the **Rename OR table** button.
 - Window with operating table name and virtual keyboard is displayed.
 2. Enter the name of the operating table.
 3. Touch the **OK** 1 button.
 - Operating table has been renamed.

5.3.1.5 Show IR code

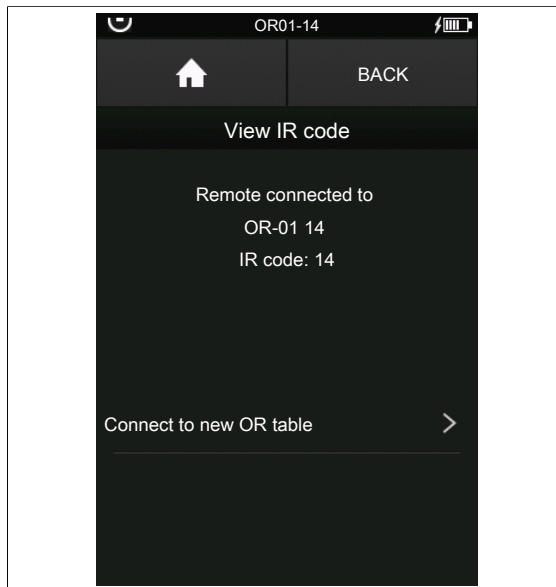


Fig. 25: Show IR code

Prerequisites:

- The **OR Table Connection** menu is open.
1. Touch the **View IR code** button.
 - Window with connected table and associated IR code is displayed.

5.3.2 Menu [Settings OR table]

5.3.2.1 Switch sound on/off

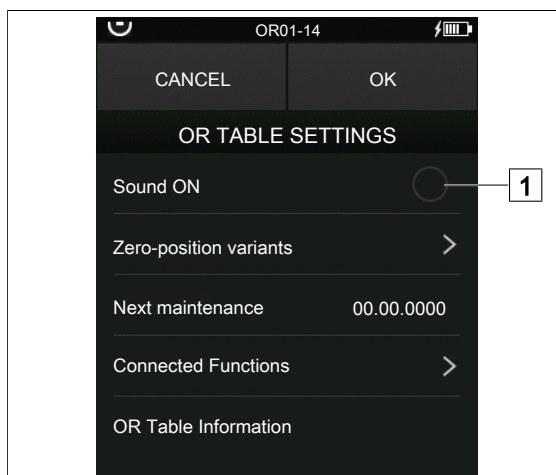


Fig. 26: Switch sound on/off

Prerequisites:

- The **OR Table Settings** menu is open.

Switching on the sound

1. Touch the **Sound ON** 1 button.
 - The menu item **Sound ON** is illuminated orange.
2. Touch the **OK** button.
 - The sound is switched on.

Switching the sound off

1. Touch the **Sound ON** 1 button.
 - The menu item **Sound ON** is greyed out.
2. Touch the **OK** button.
 - The sound is switched off.

5.3.2.2 Selecting the zero-position variant



NOTE

Please observe further information on how to carry out the zero-position/zero-position variants [► Page 63] .



Fig. 27: Selecting the zero-position variant

Prerequisites:

- The **OR Table Settings** menu is open.
- 1. Touch the **Zero-position variants** button.
 - Possible zero-position variants are displayed.
- 2. Touch the desired zero-position variant.
 - The status display will be illuminated orange.
- 3. Touch the **OK** button.
 - Zero-position variant is set.

5.3.2.3 Display next maintenance

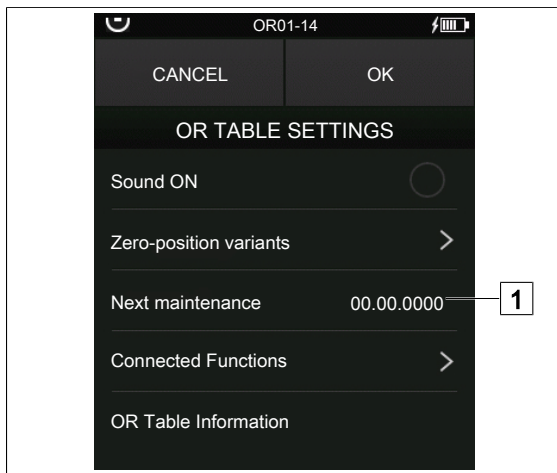


Fig. 28: Next maintenance

The **OR Table Settings**¹ menu displays the date for the next maintenance of the OR table.

5.3.2.4 Select network

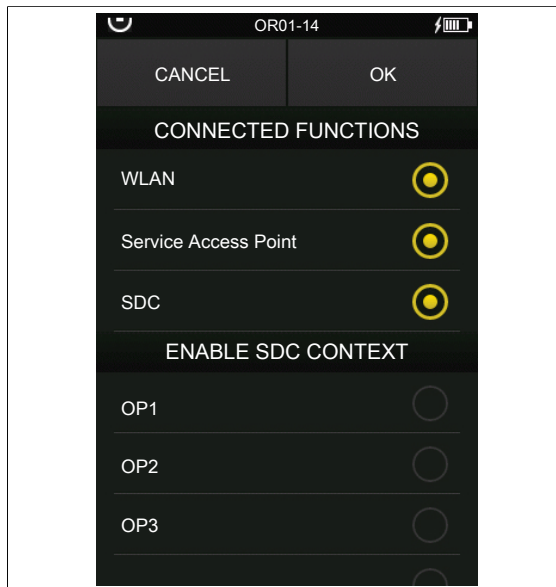


Fig. 29: Activate networking

Prerequisites:

- The **OR Table Settings** menu is open.
- 1. Touch the **Connected Functions** button.
 - Available networks are displayed.
- 2. Touch the desired network.
 - The status display will be illuminated orange.
- 3. Touch the **OK** button.
 - The network is set.

5.3.2.5 Display operating table information



NOTICE

Different additional operating table information is displayed in this menu (such as the operating table software version) depending on the connected operating table. No warnings or similar are displayed.

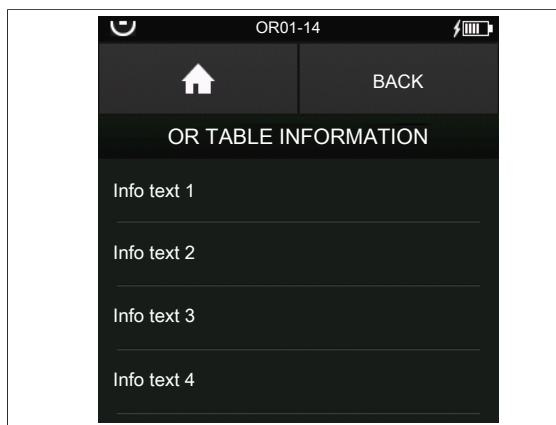


Fig. 30: Display operating table information

Prerequisites:

- The **OR Table Settings** menu is open.
- 1. Touch the **OR Table Information** button.
 - Available information is displayed.
- 2. Touch the desired information.
 - A window with a more specific description will open.
- 3. Touch the **BACK** button.
 - An overview of available information will be displayed once again.

5.3.3 Menu [Device Settings]

5.3.3.1 Set the brightness on the touchscreen



NOTE

The control device is equipped with a sensor for automatic brightness control on the right above the touchscreen. Depending on the ambient brightness, the illumination of the touchscreen and the keyboard is adjusted.

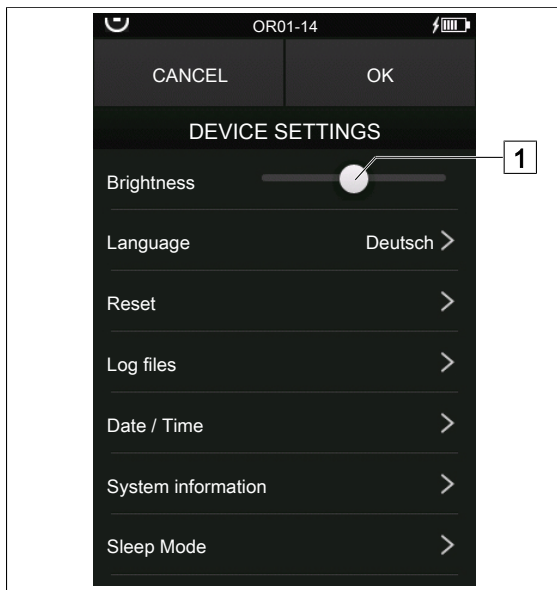


Fig. 31: Adjust the brightness

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the slider 1 and move it to the right to increase the brightness, or move it to the left to reduce the brightness.
 2. Touch the **OK** button.
 - Brightness is set.

5.3.3.2 Set the language

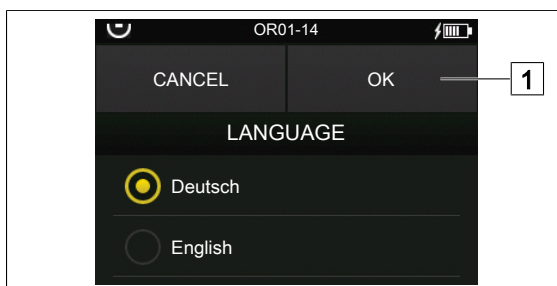


Fig. 32: Set the language

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the **Language** button.
 - A window with all available languages is displayed.
 2. Touch the desired language.
 - The status display next to the selected language lights orange.
 3. Touch the **OK** 1 button.
 - The menu **Device Settings** is shown.
 4. Touch the **OK** button.
 - The selected language is set.

5.3.3.3 Resetting the control device

When resetting to factory settings, all data entered by the user is deleted, and the device is reset to factory settings. The connection to the operating table is deleted and must be re-established for the operating table to be able to be activated once again using the control device.

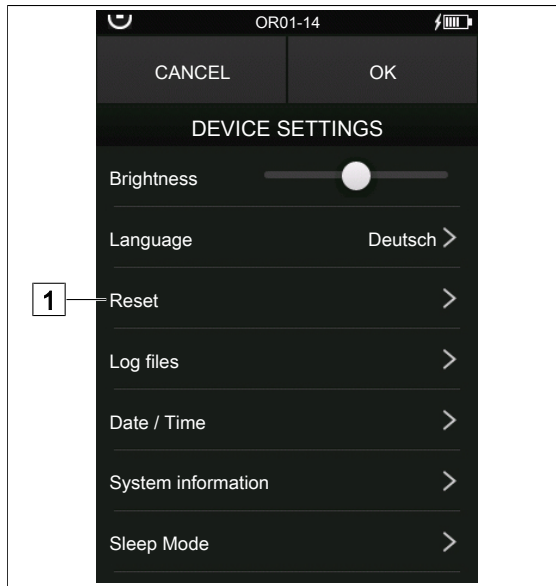


Fig. 33: Reset the control device

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the **Reset** 1 button.
 - Window with query is shown.
 2. Touch the **OK** button.
 - The control device is reset to factory settings.

5.3.3.4 Open log files

Saved system messages can be accessed via the **Log files** menu.

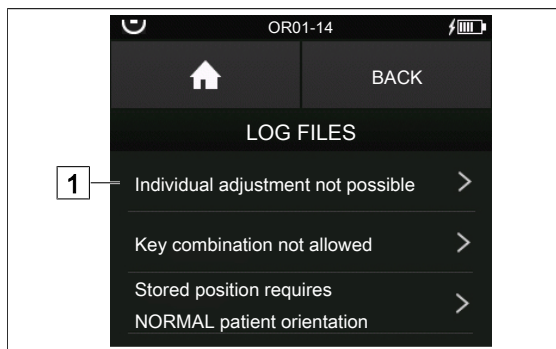


Fig. 34: Open log files

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the **Log files** button.
 - Recently saved log files of the connected operating table are displayed.
 2. Touch the corresponding log file 1.
 - The complete log file and the corresponding error code are displayed.

5.3.3.5 Set the date / time

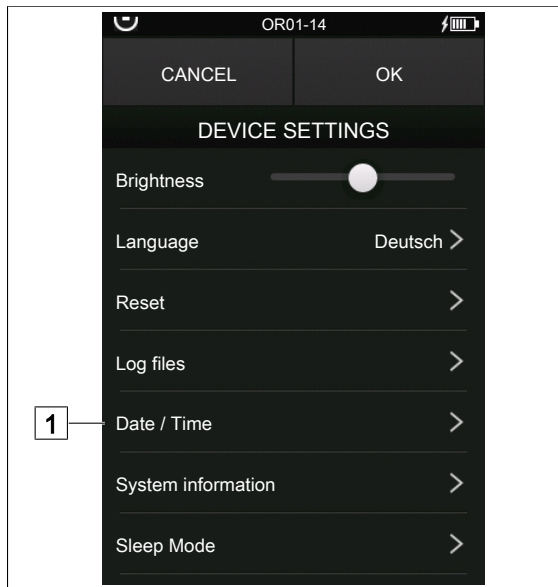


Fig. 35: Set the date / time

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the **Date / Time** 1 button.
 - The window for entering the date and time is displayed.
 2. Enter the following information in the respective window and confirm each time with the **OK** button.
 - Year
 - Month
 - Date
 - Hour
 - Minutes
 - Date and time are set.

5.3.3.6 Calling up system information

System information can be accessed via the menu item **System information**.

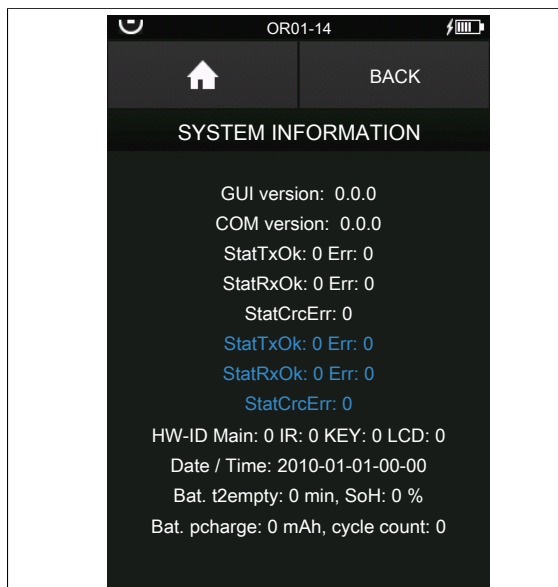


Fig. 36: Access system information

Prerequisites:

- The **Device Settings** menu is open.
1. Touch the **System information** button.
 - System information (e.g. software version) are shown.

5.3.3.7 Activating / deactivating sleep mode



CAUTION!

Property damage!

The battery life can be shortened if the control device is put directly into sleep mode when it is charged to less than 75%.

Activate sleep mode on the control device as described in the following steps.

The control device is equipped with a sleep mode. When the sleep mode is activated, the battery of the control device is protected if, for example, the control device is not used for a long time.

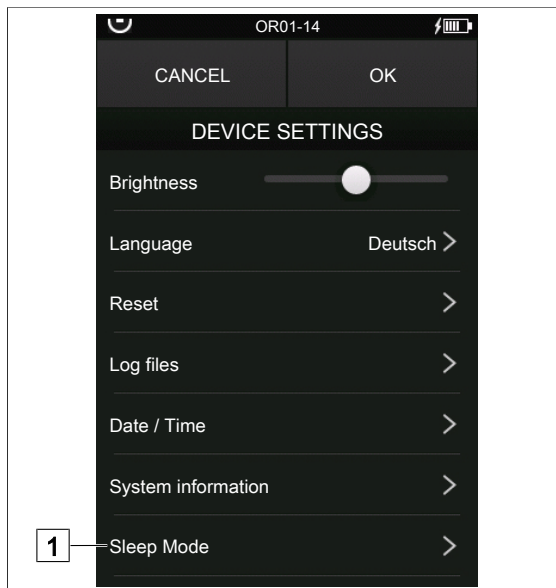


Fig. 37: Activate sleep mode

Activate sleep mode

Prerequisites:

- The **Device Settings** menu is open.
- 1. Touch the **Sleep Mode** 1 button.
 - The window with the query **Activate sleep mode?** will be shown with the current charge level.

If the current charge level is in excess of 75%:

2. Touch the **OK** button.
 - Sleep mode is activated.

If the current charge level is below 75%:

3. Place the control device in the charger cradle and wait until the green LED flashes.
4. Touch the **OK** button.
 - The control device goes into standby mode and the battery is charged to 75%. During charging, the [Stand-by] button flashes.
 - Sleep mode is activated when the battery is 75% charged. The [Stand-by] button stops flashing.
5. Remove the control device from the charging cradle.

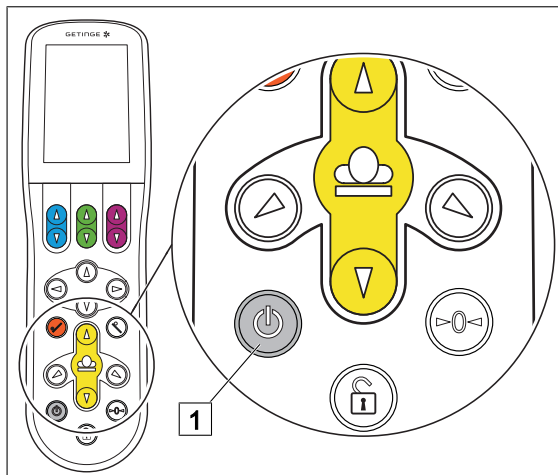


Fig. 38: Deactivating sleep mode

Deactivating sleep mode

1. Press button [Stand-by] **1** > 5 seconds.



- Operating buttons and touchscreen light up.
- Control device is activated.
- Sleep mode is deactivated.

- or -

1. Place the control device in the charging cradle [► Page 20].

- or -

1. Connect the control device to the table via cable. [► Page 21].
2. Press the [Stand-by] **1** button.



- Operating buttons and touchscreen light up.
- Control device is activated.
- Sleep mode is deactivated.

5.3.4 Menu [Adjustment speed]

5.3.4.1 Set adjustment speed



NOTE

All speeds can be increased or decreased simultaneously with the **Master** slider.



NOTE

To avoid unwanted adjustments, it is recommended to scroll up and down on the left side of the touch screen.

The speed of the various adjustment functions can be increased or decreased via the **Adjustment Speed** menu.

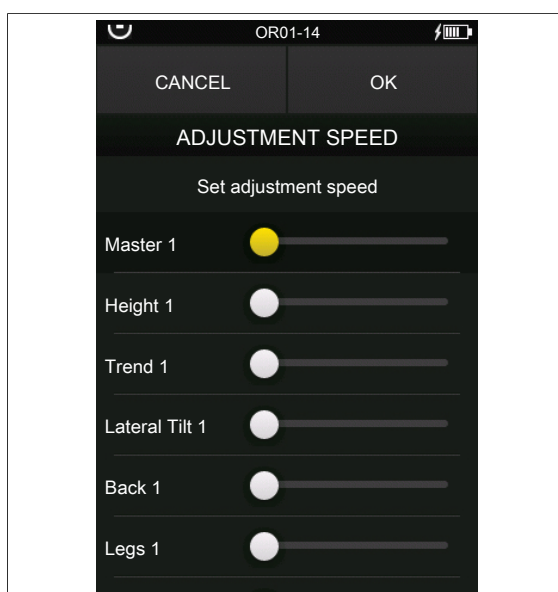


Fig. 39: Adjustment Speed

Prerequisites:

- The **Adjustment Speed** menu is open.

Increasing the adjustment speed

1. Move the slider for the desired adjustment to the right.
 - Adjustment speed is increased.
2. Touch the **OK** button to confirm.

Decrease adjustment speed

1. Move the slider for the desired adjustment to the left.
 - Adjustment speed is decreased.
2. Touch the **OK** button.
 - The set speed is applied.

5.3.4.2 Use maximum adjustment speed for a short period of time

During an adjustment process, the adjustment speed can be increased briefly to maximum speed.

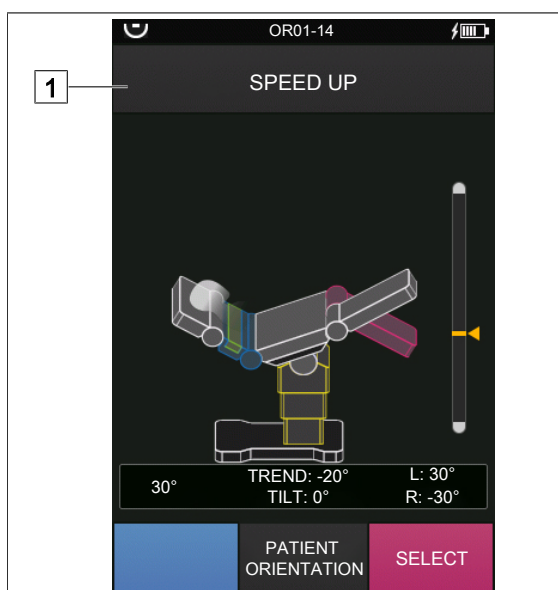


Fig. 40: Use maximum speed

Prerequisites:

- The adjustment procedure is carried out via the operating buttons.
1. Carry out the desired adjustment process.
 - The **SPEED UP** button **1** appears in the navigation bar on the start screen.
 2. Touch and hold the **SPEED UP** button.
 - As long as the button is touched, the adjustment takes place at the maximum adjustment speed.

5.3.5 Menu [Operating Table Lock]

5.3.5.1 OR table or table top adjustment function or lock / unlock button



NOTE

The **Lock OR table** menu can be accessed via the touchscreen or the [UNLOCK] button.

The **OR Table Lock** is used to lock the motorised adjustment functions of both the operating table column and the table top to prevent unintentional adjustment of the operating table and the table top.

The **Table Top Lock** is used to lock the motorised adjustment functions of the table top to prevent unintentional adjustment of the table top.

The status display lights up orange next to the activated lock.



NOTICE

If the OR table has castors, this menu displays whether the OR table is locked (**Wheel Lock enabled**) or movable (**Wheel Lock disabled**).

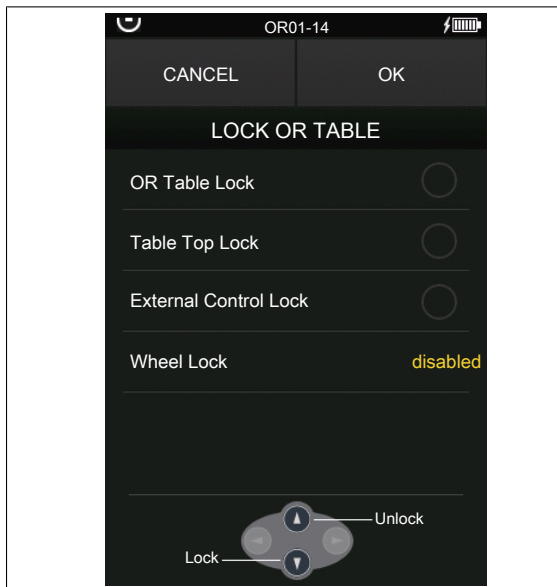


Fig. 41: Lock operating table/table top

Lock operating table/table top

Prerequisites:

- The **Lock OR table** menu is open.
1. Touch the **OR Table Lock**
- or -
button **Table Top Lock**.
 - The status display is illuminated orange depending on the lock selected.
 2. Touch the **OK** button.
 - The selected lock is activated.
 - Depending on the selected lock, the message **OR table lock active** or **Table top lock active** is displayed on the start page of the touchscreen.

Unlock the operating table/table top

Prerequisites:

- The **Lock OR table** menu is open.
1. Touch the **OR Table Lock**
- or -
button **Table Top Lock**.
 - The status display is greyed out.
 2. Touch the **OK** button.
 - Operating table lock or operating table top lock is deactivated.

5.3.5.2 Locking the OR table [LOCK]



NOTICE

Carry out the adjustment functions of the OR table only with the swivel castors retracted (LOCK).

If an adjustment function is performed without retracting the swivel castors (UN-LOCK), depending on the connected OR table a message appears on the display of the control device indicating that the swivel castors must be retracted.

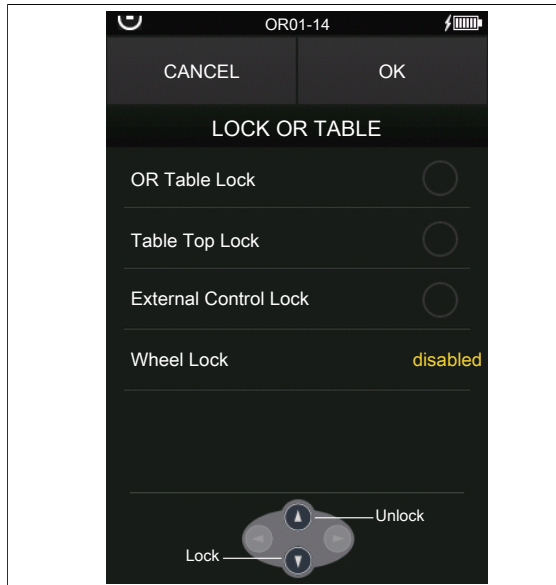


Fig. 42: Locking the OR table [LOCK]

Prerequisites:

- The **Lock OR table** menu is open.
- 1. Press and hold the [Multifunction button down].
 - The swivel castors retract automatically.
 - The LED below the [LOCK] button on the override control panel on the OR table lights up.
 - The OR table is locked.
 - The display in the menu **Lock OR table** switches to **Wheel Lock enabled**
 - The OR table can be adjusted.

5.3.5.3 Lock / unlock activation via external devices

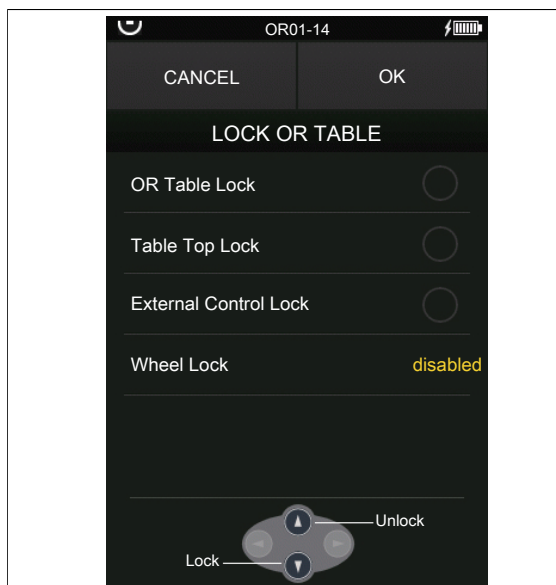


Fig. 43: Locking the operating table [LOCK]

The operating table can be activated via other devices in the same network or other IR devices (except for the control device / SENSOR DRIVE). The setting **External Control Lock** can be used to activate / deactivate the function.

Lock activation via external devices

Prerequisites:

- The **Lock OR table** menu is open.
- The function is deactivated.
- 1. Touch the **External Control Lock** button.
 - The status display will be illuminated orange.

2. Touch the **OK** button.
 - The function is activated.
 - External devices cannot activate the operating table.

Unlock activation via external devices

Prerequisites:

- The **Lock OR table** menu is open.
 - The function is activated.
1. Touch the **External Control Lock** button.
 - The status display is greyed out.
 2. Touch the **OK** button.
 - The function is deactivated.
 - External devices can activate the operating table.

5.3.6 Menu [Drive]



NOTICE

The menu **Drive** can either be opened via the main menu or, if the operating table is already in UNLOCK, by pressing the [UNLOCK] button.

For further information, see section Moving the OR table using autodrive [UNLOCK] [►► Page 70].

5.3.7 Menu [Active Cable Charging]

For further information, see section Charging the control device via the cable [►► Page 21].

5.3.8 [Safety settings] menu

5.3.8.1 Activate / deactivate safety functions



NOTICE

Only deactivate the safety functions in exceptional cases. Operate the OR table with the safety functions turned off at your own risk.



NOTICE

When a safety function is deactivated, a warning message will be displayed continuously on the start screen of the control device.



NOTICE

The OR table goes into standby mode approx. 15 seconds after the last time a button is pressed. Once the OR table is reactivated, the safety function is activated once again as well.

The following safety functions can be activated or deactivated in the **Safety Settings** menu:

- Anti-tip protection
- Overload detection
- Collision recognition

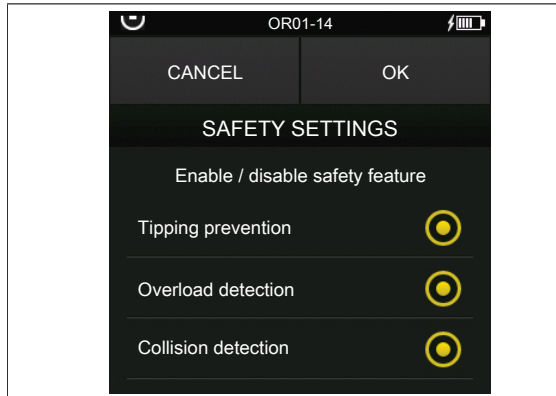


Fig. 44: **Safety Settings**

Prerequisites:

- The **Safety Settings** menu is open.

Activate safety function

1. Touch the desired safety function until the corresponding menu item is illuminated or-ange.
2. Touch the **OK** button.
 - The selected safety function is activ-ated.

Deactivate safety function

1. Touch the desired safety function until the corresponding menu item is greyed out.
2. Touch the **OK** button.
 - The selected safety function is deactiv-ated.

5.3.9 [Decubitus timer] menu

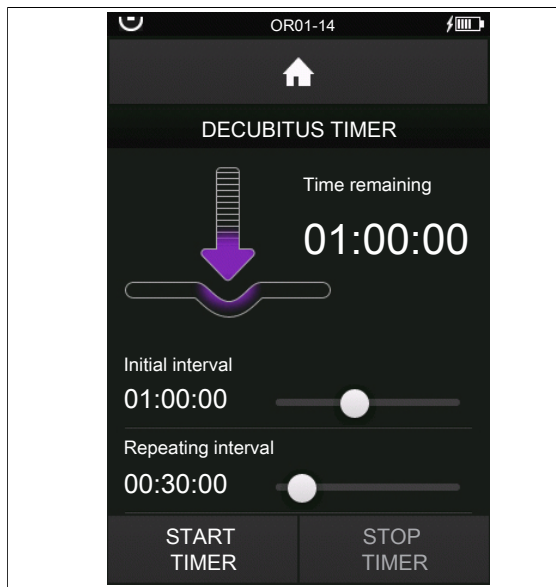


Fig. 45: **Decubitus timer**

Set the decubitus timer

1. Set the desired time using the slider.
2. If needed, set the desired time for repeti-tion using the slider.
3. Touch the **START TIMER** button.
 - The decubitus timer is set and started.
 - The remaining time is displayed in the **Decubitus timer** menu and on the start screen.

5.3.10 [Feedback-LED] menu

5.3.10.1 Activating / deactivating the feedback light messages



NOTICE

Please see the instructions for use for the operating table for information on which messages are output in the individual settings.

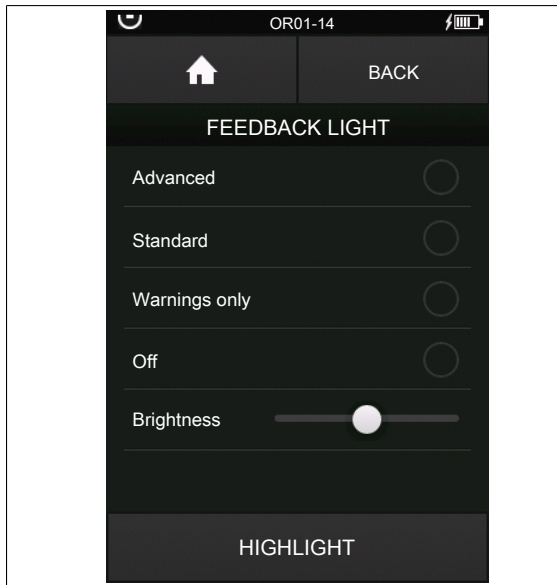


Fig. 46: Feedback Light menu

In this menu, the feedback lights can either be switched off, or the user can select which messages should be output via the feedback lights.

Prerequisites:

- The **Feedback Light** menu is open.

Activate the feedback light messages

1. Touch the corresponding button to activate the desired messages.
 - The status display next to the selected setting will be illuminated orange.
2. Touch the **BACK** button.
 - The main menu will be displayed.
 - Setting was adopted.

Deactivating the feedback light messages

1. Touch the corresponding button to deactivate the desired messages.
 - The status display next to the selected setting will be greyed out.
2. Touch the **BACK** button.
 - The main menu will be displayed.
 - Setting was adopted.

5.3.10.2 Setting the brightness of the feedback light

The brightness of the feedback lights can be regulated in the **Feedback Light** menu.

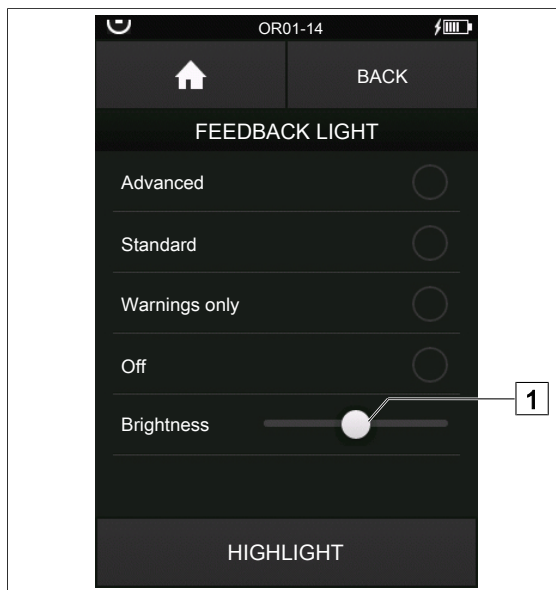


Fig. 47: Set the brightness of the feedback lights

1. Touch the slider **1** and move it to the right to increase the brightness, or move it to the left to reduce the brightness.
2. Touch the **OK** button.
 - The brightness of the feedback lights is set.

5.4 Set the patient orientation



NOTE

Regardless of the set patient orientation, the displayed patient head on the control device is always on the left side of the OR table in the blue area on the touch-screen.



NOTE

The currently set configuration is highlighted in orange on the touchscreen and marked with **(active)**.

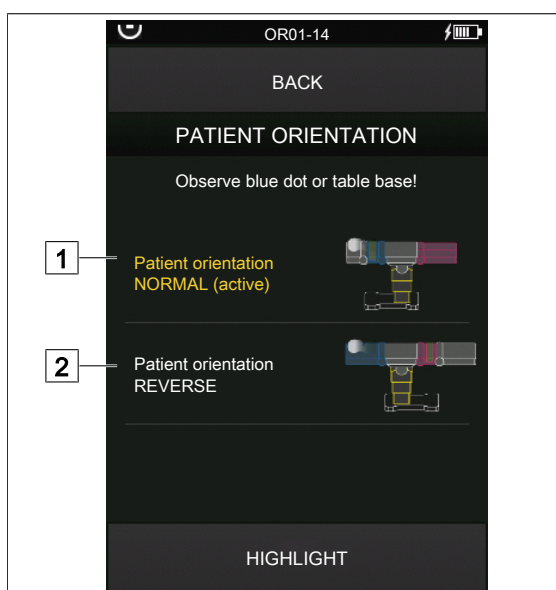


Fig. 48: Set the patient orientation

Prerequisites:

- The start screen is opened.
1. Check patient orientation from the currently connected operating table. Please refer to the definition of the patient orientation in the respective operating table instructions.
 2. Touch the **PATIENT ORIENTATION** button.
 - The window for setting the patient orientation is displayed.

- Touch the **Patient orientation NORMAL** button 1.
 - or -
 touch the **Patient orientation REVERSE** button 2.
 ➤ Window with the query **Patient orientation correct?** is shown.
- Touch the **OK** button.
 ➤ The selected patient orientation is set.

5.5 [OR table positions] menu

5.5.1 Select a preset OR table position



WARNING!
Risk of injury!

Use of the preset OR table positions may cause undesired movements.
 Always observe the patient's position when aligning the OR table using preset OR table positions. If undesired movements occur, release the button and stop the adjustment.



NOTE
 The preset positions vary depending on the connected OR table. For the available preset positions, refer to the OR table's instructions for use.

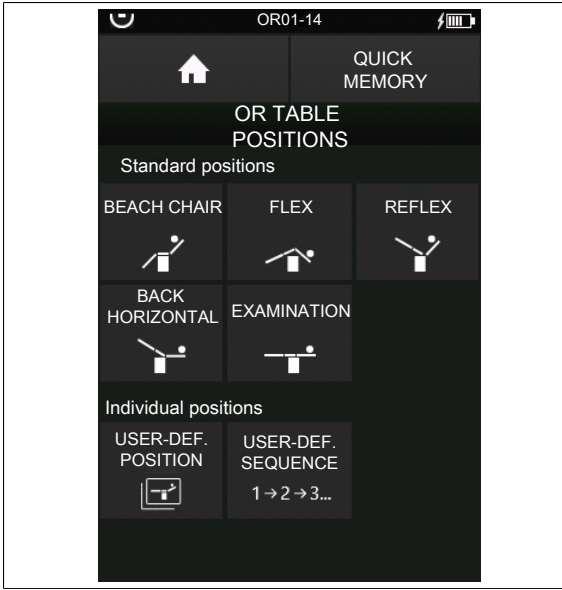


Fig. 49: Available OR table positions

- Prerequisites:**
- Start screen is open.
- Touch the **OR TABLE POSITIONS** button.
 ➤ The window with default operating table positions is shown.
 - Select the desired operating table position.
 ➤ The **Move to position** window and the following operating notification are displayed.
-
- To move to the selected OR table position, press the highlighted multifunction button [Up] on the control device.
 ➤ The selected OR table position will be approached.

5.5.2 User-defined operating table position



NOTICE

If the control device is still synchronising with the operating table, when the menu is started an informational message is displayed indicating that a data transfer is on-going. A progress bar is also displayed. The menu will be displayed after the synchronisation is complete.

If the OR table is set to a certain position, this position can be saved using the **USER-DEF. POSITION** menu.

5.5.2.1 Creating, editing, and deleting folders for user-defined sequences



Fig. 50: Open menu **USER-DEF. POSITION**

Prerequisites:

- Start screen is open.
- 1. Touch the **OR TABLE POSITIONS** button.
 - The menu **OR TABLE POSITIONS** is shown.
- 2. Touch the **USER-DEF. POSITION** button 1.
 - The menu **USER-DEF. POSITION** is shown.

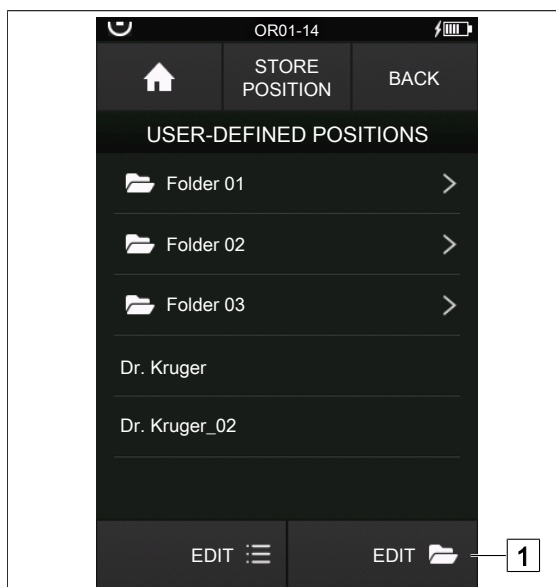


Fig. 51: menu **USER-DEF. POSITION**

- 3. Touch the **EDIT** button 1.
 - The list with the previously saved folders is displayed.

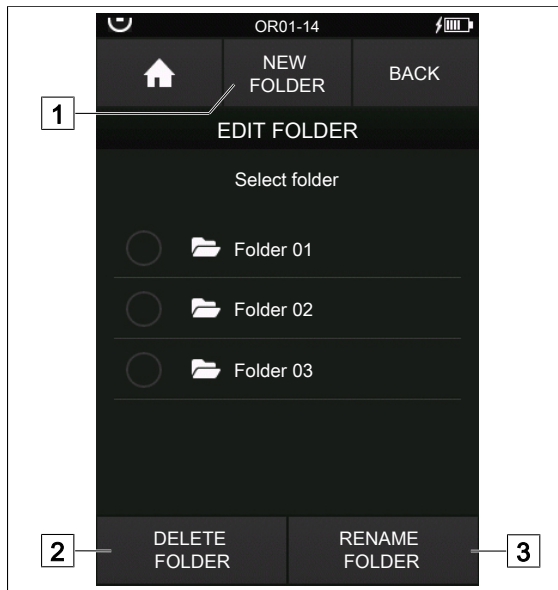


Fig. 52: Create, edit, and delete folders for user-defined OR table position

Creating a folder

1. Touch the **NEW FOLDER** button [1].
 - The window for naming the new folder is opened.
2. Enter the name for the new folder and confirm with the **OK** button.
 - The new folder with the list with the previously saved folders is shown.

Deleting a folder

1. Touch the desired folder in the list.
 - The folder is marked.
2. Touch the **DELETE FOLDER** button [2].
 - Folder is deleted.

Renaming a folder

1. Touch the desired folder in the list.
 - The folder is marked.
2. Touch the **RENAME FOLDER** button [3].
 - The window for renaming the position is opened.
3. Enter the new name of the folder and confirm with the **OK** button.
 - The folder is saved with the new name.

5.5.2.2 Save a user-defined operating table position

Depending on the operating table used, several user-defined operating table positions can be stored in the control device. For further information, refer to the operating table operating instructions.

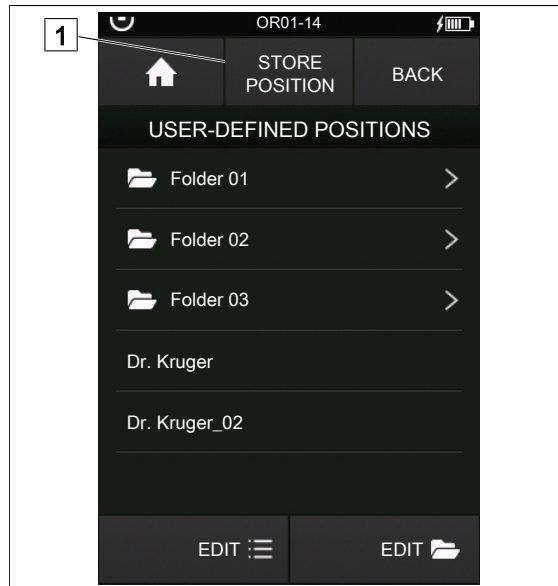


Fig. 53: Save new position

Save user-defined OR table positions in a list

Prerequisites:

- The **OR TABLE POSITIONS** menu is open.
1. Touch the **STORE POSITION** button 1.
 - The window for naming the new OR table position is opened.
 2. Enter the name of the new OR table position.
 3. Touch the **OK** button.
 - The new user-defined OR table position is saved in the list **Individual positions** in the menu **OR TABLE POSITIONS**.

Save a user-defined OR table position in a list

Prerequisites:

- The **USER-DEF. POSITION** menu is open.
1. Touch the **STORE POSITION** button 1.
 - The window for naming the new OR table position is opened.
 2. Enter the name of the new OR table position.
 3. Touch the **OK** button.
 - The new user-defined OR table position will be saved in the list in the menu **USER-DEF. POSITION**.

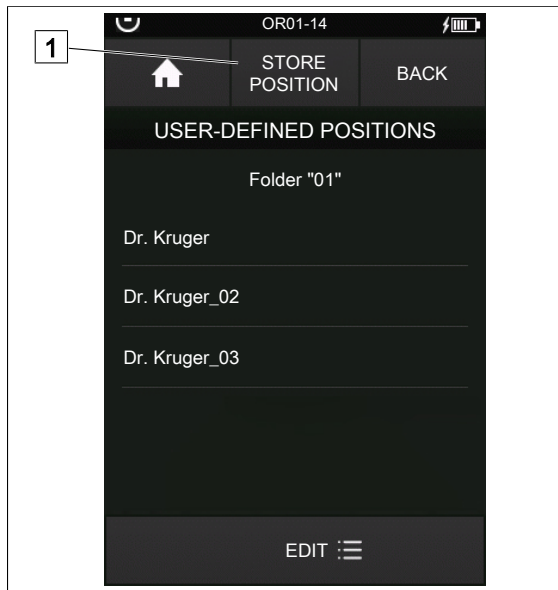


Fig. 54: Save a new position in a folder

Save a user-defined operating table position in a folder

Prerequisites:

- The **USER-DEF. POSITION** menu is open.
 - The folder is created [► Page 51].
1. Touch the corresponding folder.
 - The folder is opened.
 - Previously saved user-defined OR table positions are displayed.
 2. Touch the **STORE POSITION** button 1.
 - The window for naming the new OR table position is opened.
 3. Enter the name of the new OR table position.
 4. Touch the **OK** button.
 - The new user-defined OR table position is saved in the selected folder.

5.5.2.3 Selecting and approaching a user-defined OR table position

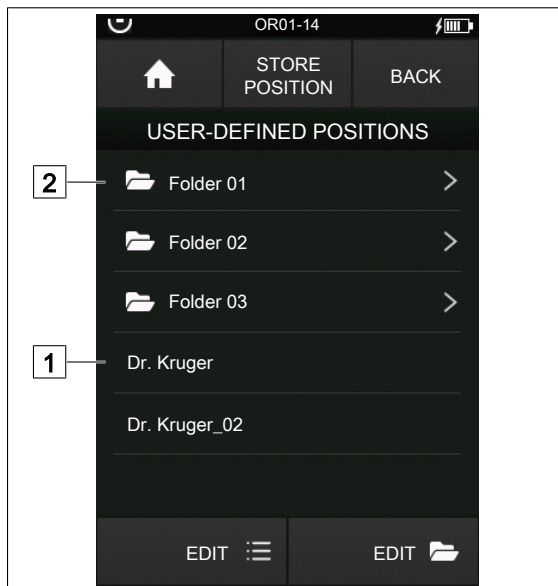


Fig. 55: Move to a user-defined OR table position

Prerequisites:

- The **USER-DEF. POSITION** menu is open.
 - The patient orientation is the patient orientation for the selected operating table position.
 - The configuration of the tabletop module is the configuration for the selected operating table position.
1. Touch the desired position 1.
 - or -
 - Touch the desired folder 2 and select the position in the next window.
 - The **Move to position** window and the following operating notification are displayed.



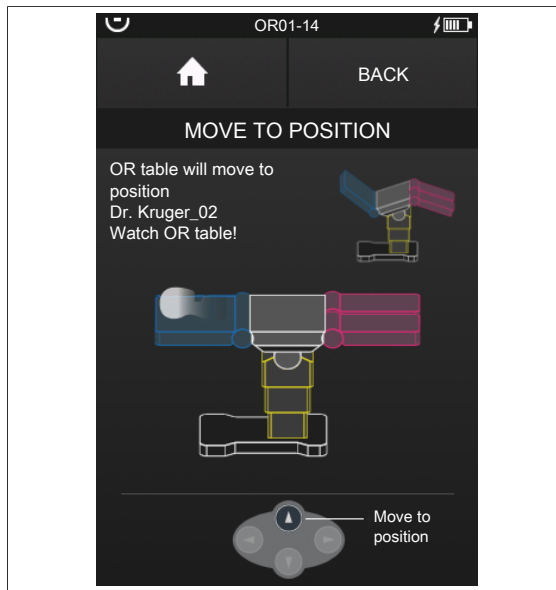


Fig. 56: Move to a position

2. To move to the selected OR table position, press the highlighted multifunction button [Up] on the control device.
 - The selected OR table position will be approached.

5.5.2.4 Editing a user-defined OR table position

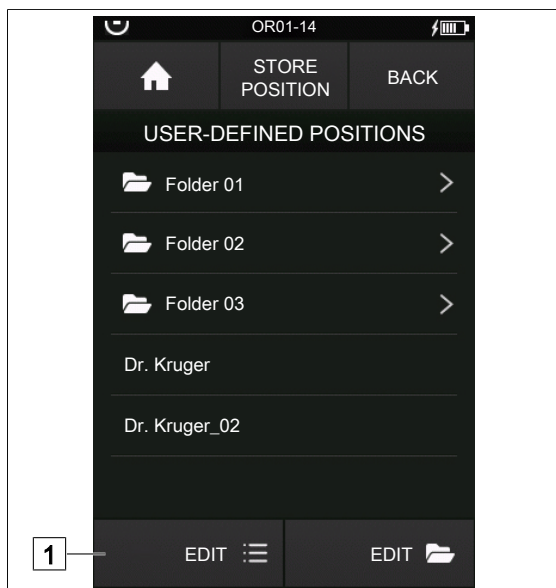


Fig. 57: Editing a user-defined OR table position

Prerequisites:

- The **USER-DEF. POSITION** menu is open.
1. Touch the **EDIT** button 1.
 - The **EDIT INDIVIDUAL POSITION** window is displayed.

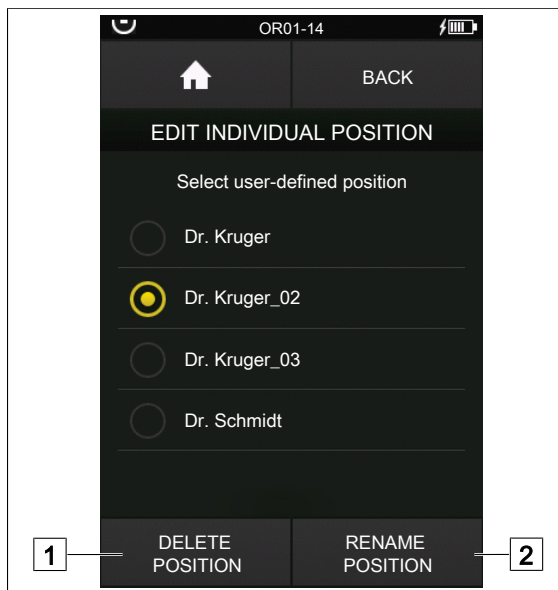


Fig. 58: Editing a user-defined OR table position

Deleting a position

1. Select the desired position from the list.
2. Touch the **DELETE POSITION** button [1].
 - The position is deleted.

Renaming a position

1. Select the desired position from the list.
2. Touch the **RENAME POSITION** button [2].
 - A window to rename the position opens.
3. Enter the new name of the position.
4. Touch the **OK** button.
 - The position is saved and displayed with a new name.

5.5.2.5 Quick saving a user-defined OR table position

An OR table position can be saved without a name in the quick-save memory. When another OR table position is saved in the quick-save memory, the previously stored position is overwritten.

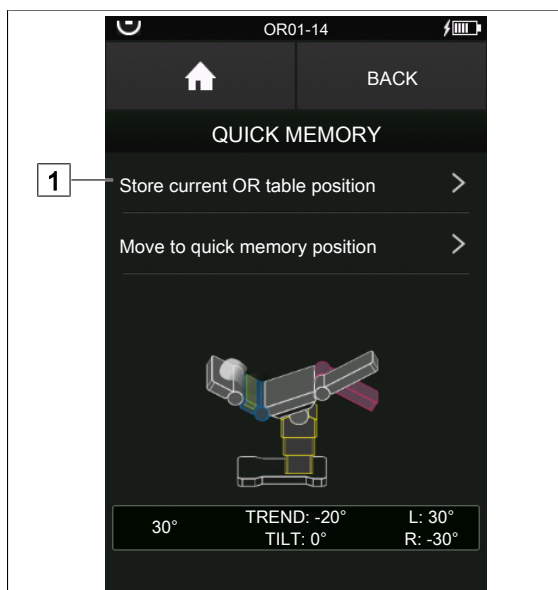


Fig. 59: Quick-saving a position

Prerequisites:

- The **OR TABLE POSITIONS** menu is open.
1. Touch the **QUICK MEMORY** button.
 - The menu **QUICK MEMORY** is shown.
 2. Touch the **Store current OR table position** button [1].
 - Query **Store current OR table position?** is displayed.

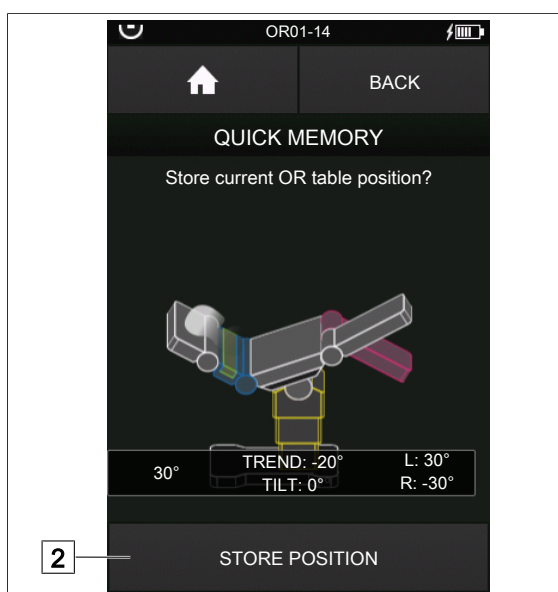


Fig. 60: Quick-saving a position

3. Touch the **STORE POSITION** button 2.
 - The current OR table position is stored in the quick-save memory.

5.5.2.6 Move to quick-save memory position

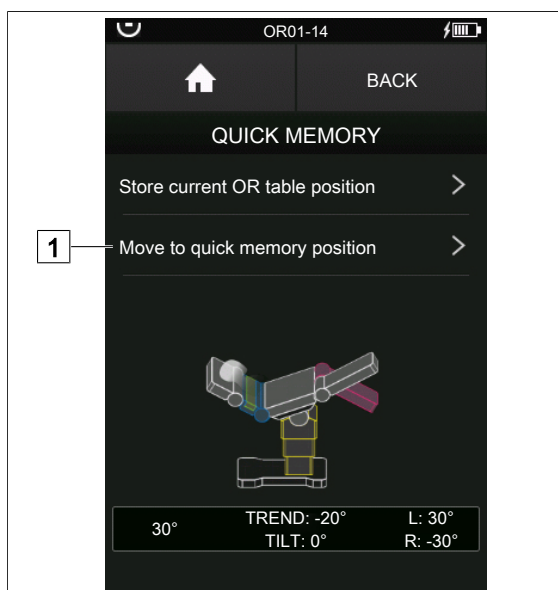


Fig. 61: Move to quick-save memory position

Prerequisites:

- The **OR TABLE POSITIONS** menu is open.
1. Touch the **QUICK MEMORY** button.
 - The menu **QUICK MEMORY** is shown.
 2. Touch the **Move to quick memory position** button 1.
 - The **MOVE TO POSITION** window and the following operating notification are displayed.
 3. Press the displayed multifunction button [Up] on the control device.
 - Moves to selected quick-save position.



5.5.3 User-defined sequences



NOTICE

Depending on the connected operating table, the function **USER-DEF. ADJUSTMENT SEQUENCES** may not be available. For further information, refer to the operating table operating instructions.



NOTICE

If the operating table has a body elevator, we recommend always extending it at the end of a sequence.



NOTICE

The following adjustments cannot be saved and approached using the function **USER-DEF. ADJUSTMENT SEQUENCES**:

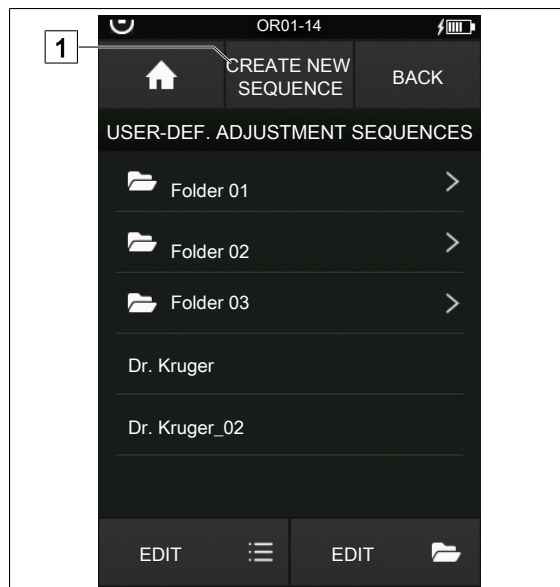
- Height
- Longitudinal shift
- Lateral shift

If the operating table will be moved into the desired position in a certain sequence, then this sequence can be saved via this menu to be made available for access later on.

5.5.3.1 Creating, editing, and deleting folders for user-defined sequences

Folders for user-defined sequences are created, edited and deleted as described in the section Creating, editing, and deleting folders for user-defined sequences [► Page 51].

5.5.3.2 Save a user-defined sequence



Create a new sequence and save it in a list

Prerequisites:

- The **USER-DEF. ADJUSTMENT SEQUENCES** menu is open.
 - The table top is aligned horizontally [► Page 63].
1. Touch the **CREATE NEW SEQUENCE** button 1.
 - The window for creating a new sequence is opened.

Fig. 62: Save new sequence

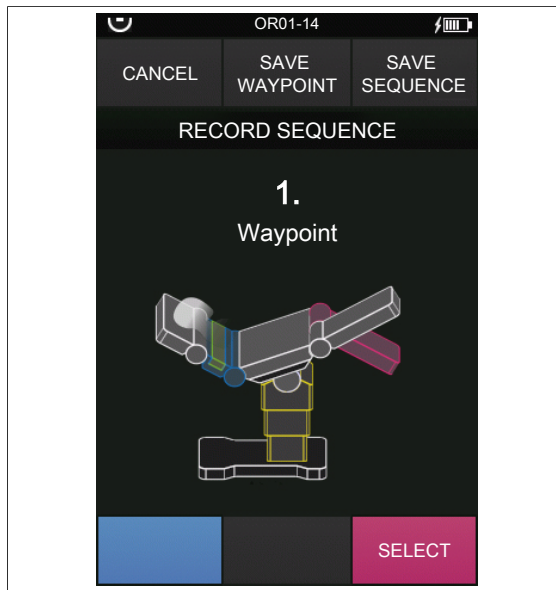


Fig. 63: Save sequence

2. Adjust the operating table using the buttons on the operating device.

Once the desired intermediate position is reached:

3. Touch the **SAVE WAYPOINT** button.
 - The intermediate step has been saved.
 - The next intermediate position can be approached.
4. Adjust the operating table further and save corresponding intermediate positions.

Once the desired end position has been reached:

5. Touch the **SAVE SEQUENCE** button.
 - The window for naming the new sequence is opened.
6. Enter the name of the new sequence.
7. Touch the **OK** button.
 - The new sequence is saved in the list in the **USER-DEF. ADJUSTMENT SEQUENCES** menu.

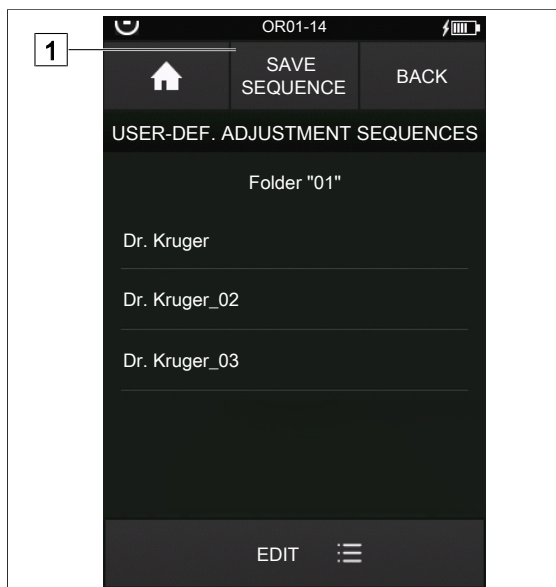


Fig. 64: Create the new sequence in a folder

Create a new sequence and save it in a folder

Prerequisites:

- The **USER-DEF. ADJUSTMENT SEQUENCES** menu is open.
- The folder is created [» Page 51].
- The table top is aligned horizontally [» Page 63].

1. Touch the corresponding folder.
 - The folder is opened.
 - Previously saved sequences are displayed.
2. Touch the **CREATE NEW SEQUENCE** 1 button.
 - The window for creating a new sequence is opened.

3. Adjust the operating table using the buttons on the operating device.

Once the desired intermediate position is reached:

4. Touch the **SAVE WAYPOINT** button.
 - The intermediate step has been saved.
 - The next intermediate position can be approached.
5. Adjust the operating table further and save corresponding intermediate positions.

Once the desired end position has been reached:

6. Touch the **SAVE SEQUENCE** button.
 - The window for naming the new sequence is opened.
7. Enter the name of the new sequence.
8. Touch the **OK** button.
 - The new sequence is saved in the selected folder.

5.5.3.3 Selecting and approaching a user-defined sequence



NOTICE

The operating table must be aligned horizontally to carry out a user-defined adjustment sequence [» Page 63].

User-defined adjustment sequences are selected and carried out in the same manner as described in the section Selecting and approaching a user-defined OR table position [» Page 54].

5.5.3.4 Editing a user-defined sequence

User-defined sequences are edited in the same manner as described in the section Editing a user-defined OR table position [» Page 55].

5.6 Activate control device from stand-by mode / set to stand-by mode



NOTE

The control device can be activated with any button. To avoid unintentional adjustment of the OR table, always use the [Stand-by] button.



NOTE

The control device will automatically switch to stand-by mode after several seconds with no input.



NOTE

If the control device is in stand-by mode, the [Stand-by] button flashes as soon as movement is detected.

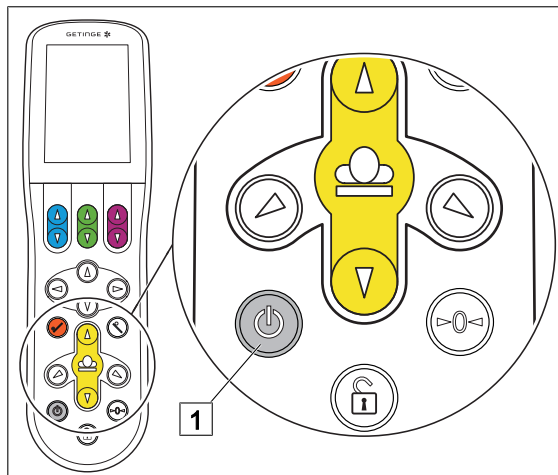


Fig. 65: Activating / deactivating stand-by mode

Activate control device from stand-by mode

1. Press the [Stand-by] button 1 briefly.
 - Control device is activated.
 - Operating buttons and touchscreen light up.

Set control device to stand-by mode

1. Press the [Stand-by] button 1 briefly.
 - The control device will be switched into stand-by mode, and the light on the control device will switch off.
 - If the control device is moved, the [Stand-by] button will be illuminated.

5.7 Restarting the control device



NOTE

After restarting the control device, it will take several seconds for all information for the connected OR table to be transmitted to the control device. Not all information will be available on the control device during this process.

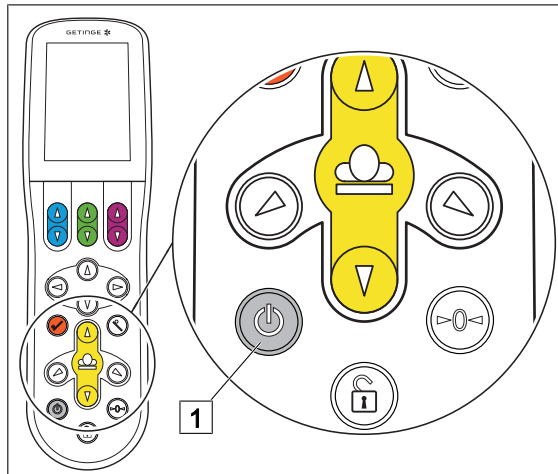


Fig. 66: Restarting the control device

1. Press [Stand-by] **1** button for approx. 5 seconds.

➤ The control device is switched off and then activated again.

5.8 Adjustment functions



WARNING!

Risk of injury!
Danger due to improper handling.

When carrying out all adjustment functions, observe the OR table instructions for use.

5.8.1 Aligning the table top in the horizontal position

Depending on the currently connected OR table, one or more options for horizontally adjusting the OR table (zero position) are available. All available zero-position variants are displayed on the touchscreen of the control device and can be selected there [► Page 36].

For further information on how to horizontally align the table top and the available reset/zero-position variants, please refer to the OR table's operating instructions.

5.8.2 Inclining the table top



WARNING!

Risk of injury!

If the patient is not secured, particularly when adjusting/moving, the patient and/or their extremities may slip in an uncontrolled manner.

Always secure the patient using suitable aids (e.g. straps) and maintain continuous observation.

Tilt table top into Trendelenburg position

1. Press and hold the [Trendelenburg] button.



- The table top will be set to the Trendelenburg position.
- The current adjustment angle is shown on the touchscreen.
- When the end position is reached, this is indicated on the touchscreen and a signal is sounded on the column.

Tilt table top into reverse Trendelenburg position

1. Press and hold the [Reverse Trendelenburg] button.



- The table top will be set to the reverse Trendelenburg position.
- The current adjustment angle is shown on the touchscreen.
- When the end position is reached, this is indicated on the touchscreen and a signal is sounded on the column.

5.8.3 Tilting the table top laterally



WARNING!

Risk of injury!

If the patient is not secured, particularly when adjusting/moving, the patient and/or their extremities may slip in an uncontrolled manner.

Always secure the patient using suitable aids (e.g. straps) and maintain continuous observation.



NOTE

Depending on the currently connected OR table, the movable and mobile columns have limited bending. For further information refer to the OR table operating instructions.

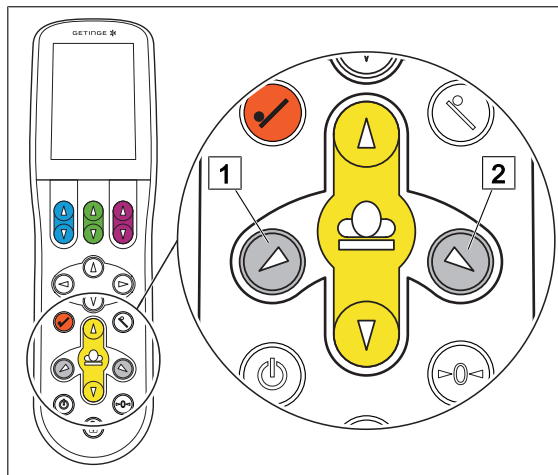


Fig. 67: Tilting the table top laterally

Lateral tilt, left / right

1. Press and hold the [Lateral tilt, left] **1** or [Lateral tilt, right] **2** button.
 - The table top moves accordingly about the head-foot axis to the right or left.
 - The current adjustment angle is shown on the touchscreen.
 - Depending on the connected OR table, the message "Extreme lateral tilt" is displayed on the touchscreen.
2. To achieve a greater angle of tilt: Press the [Lateral tilt, left] **1** or [Lateral tilt, right] **2** button again.
 - The patient will be tilted.
 - The current adjustment angle is shown on the touchscreen.
 - An acoustic signal sounds on the control device during the adjustment phase [» Page 25].
 - When the end position is reached, this is indicated on the display and an acoustic signal is sounded on the column.

5.8.4 Moving the table top longitudinally

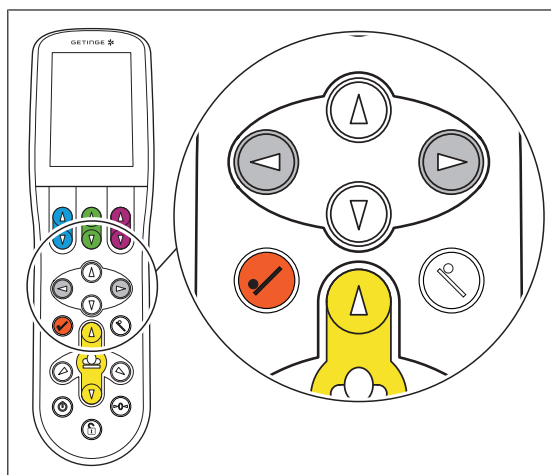


Fig. 68: Moving the table top longitudinally

Moving the table top longitudinally

1. Depending on the desired direction, press and hold one of the two buttons for longitudinal shift.
 - The table top moves in the selected direction.
 - When the end position is reached, this is indicated on the display and a signal is sounded.

5.8.5 Adjusting the height of the OR table

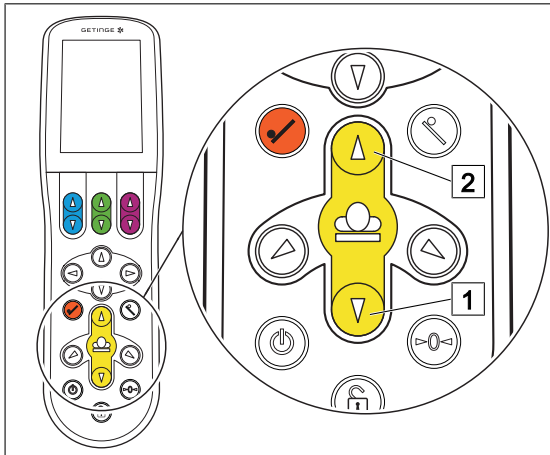


Fig. 69: Lifting / lowering the OR table

Lowering the OR table

1. Press and hold the [Down] button 1.
 - The OR table moves down.

Lifting the OR table

1. Press and hold the [Up] button 2.
 - The OR table moves up.

5.8.6 Adjusting accessories at the NORMAL and REVERSE mounting point



CAUTION!

Property damage!

Single-section accessories without code plug can be damaged during attachment to the REVERSE mounting point when the single adjustment function is carried out.

Do not perform the single adjustment function for single-section accessories without a code plug attached to the REVERSE mounting point.

5.8.6.1 Adjusting single-piece accessories

The upper body positioning is adjusted using the [Blue joint up] and [Blue joint down] buttons. The lower body positioning is adjusted using the [Magenta joint up] and [Magenta joint down] buttons.

If accessories with a code plug are attached, the adjustment function is detected and assigned automatically.

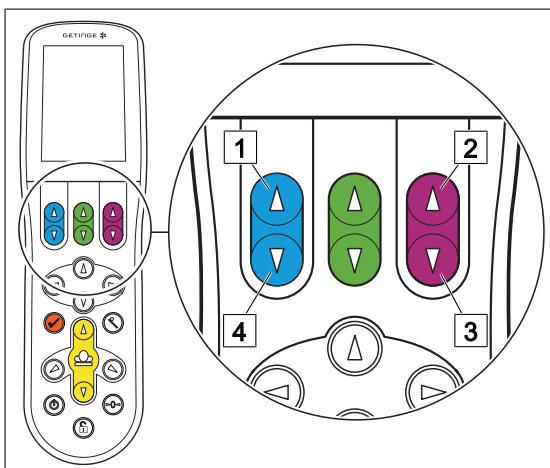


Fig. 70: Adjusting single-piece accessories

Adjusting single-piece accessories upwards

1. Press and hold the [Blue joint up] 1 [Magenta joint down] 2 button.
 - The single piece accessory is adjusted upwards.
 - The adjustment angle is displayed on the touchscreen.

Adjusting single-piece accessories downwards

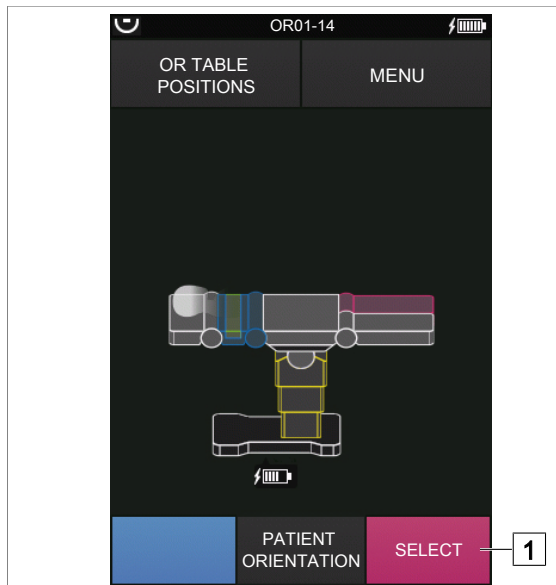
1. Press and hold the [Blue joint down] 4 [Magenta joint down] 3 button.
 - The single piece accessory is adjusted downwards.
 - The adjustment angle is displayed on the touchscreen.

5.8.6.2 Adjusting the pair of leg plates or single leg plate



NOTICE

If a pair of leg plates is attached, separate adjustment of the individual leg plates is possible only on the REVERSE mounting point.



Prerequisites:

- The pair of leg plates is mounted.

Select the pair of leg plates or single leg plate

1. Press the **SELECT** 1 button multiple times until both leg plates or a single leg plate are marked.
 - Both leg plates are shown in magenta on the touch screen.
 - or -
 - The selected leg plate is shown in magenta on the touch screen.

Fig. 71: Select the pair of leg plates or single leg plate

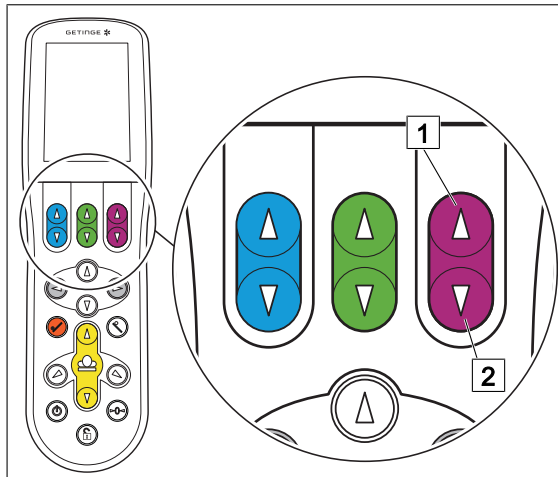


Fig. 72: Adjusting the pair of leg plates or single leg plate

Adjusting the pair of leg plates or single leg plate upward

1. Press and hold the [Magenta joint up] button **1**.
 - The pair of leg plates or selected single leg plate is adjusted upwards.
 - The adjustment angle is displayed on the touchscreen.

Adjusting the pair of leg plates or single leg plate downwards

1. Press and hold the [Magenta joint down] button **2**.
 - The pair of leg plates or selected single leg plate is adjusted downwards.
 - The adjustment angle is displayed on the touchscreen.

5.9

Displacing / locking the OR table



WARNING!

Risk of injury due to the OR table tipping!

As of an overall load of the OR table of 250 kg, do not extend the swivel castors [UNLOCK] and do not move the OR table.



WARNING!

Risk of injury!

Hold the OR table firmly before extending the swivel castors [UNLOCK] in order to ensure that the OR table cannot roll away unintentionally.



CAUTION!

Property damages caused as a result of collision when moving/adjusting the mobile operating table!

Remove potential hindrances before moving / adjusting the mobile operating table and avoid collisions.





CAUTION!

Property damage!

When moving the OR table use at least one hand in order to prevent any collisions.

5.9.1 Status display [LOCK] / [UNLOCK]

The status display is located on the override control panel .

Symbol	Meaning	LED colour	Condition	Status
	LOCK	Green	Flashing light (alternates with UNLOCK)	OR table switches status LOCK / UNLOCK.
			Continuous light	OR table is locked
	UNLOCK	Orange	Flashing light (alternates with LOCK)	OR table switches status LOCK / UNLOCK.
			Continuous light	OR table is on castors.

Tab. 8: Status display LOCK / UNLOCK

5.9.2 Moving the OR table without autodrives [UNLOCK]



CAUTION!

Property damage!

When moving the mobile operating table, there is a risk of collision with the environment.

In order to avoid collisions when moving the mobile operating table, two people should guide the OR table.

1. Unplug the mains cable and equipotential bonding cable from the OR table.
2. Press the [UNLOCK] button until the swivel castors are extended.



- The **Lock OR table** menu will open on the control device.
 - The swivel castors extend automatically.
 - The LED below the [UNLOCK] button on the override control panel will light up.
 - The OR table can be moved.
3. Use two people to guide the OR table.

5.9.3 Moving the OR table using autodrives [UNLOCK]



NOTE

The operating table can be moved in both longitudinal and transverse directions. The swivel castors set themselves to the direction of the most recent motion. If the OR table is to be moved at an angle of 90° to the most recent direction of motion, increased exertion of force is required, since the swivel castors are positioned across the desired direction of travel. If the swivel castors are positioned across the required direction of travel, it is easier to move the OR table if you start off diagonally to the required direction of travel (angle of approximately 45°). The assistance of a second person might be required here.



NOTICE

The swivel castors on the OR table can only be extended if this will not place the OR table in a critical range.

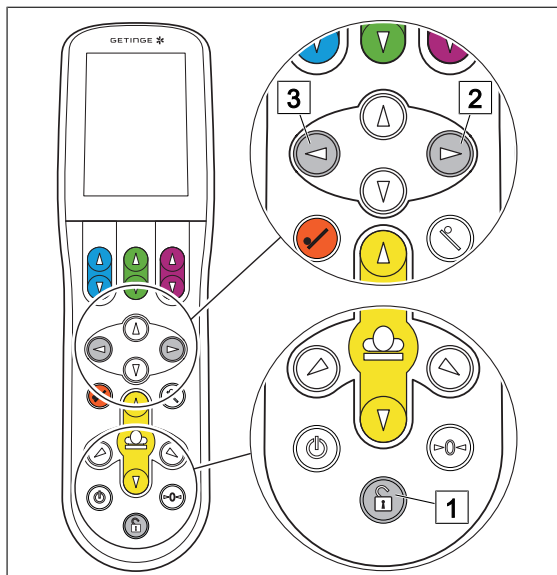


Fig. 73: Moving the operating table using the motor

Extend the swivel castors (UNLOCK)

1. Press the [UNLOCK] 1 button until the swivel castors are extended.
 - The swivel castors extend automatically.
 - The **Drive** menu will open on the control device.
 - The LED below the [UNLOCK] button on the override control panel will light up.
 - The OR table can be moved.
 - Hold the OR table with at least one hand.

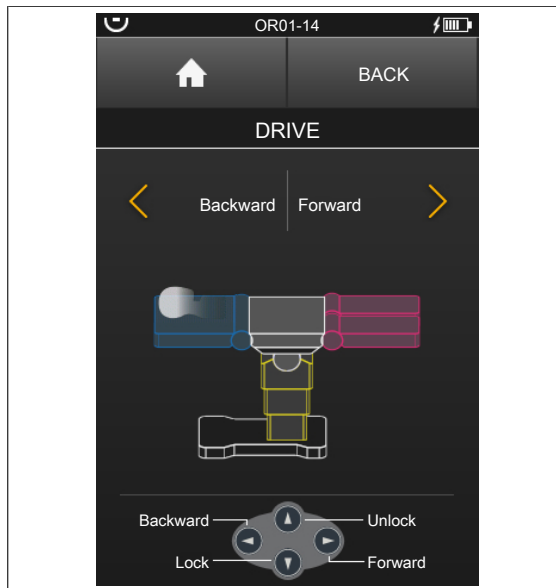


Fig. 74: **Drive** operating menu

Moving the OR table

Prerequisites:

- The control device is connected to the operating table via the control device cable.
 - The mains cable and equipotential bonding cable are unplugged from the OR table.
 - The **Drive** menu is open.
1. Press [Multifunction button right] 2 or [Multifunction button left] 3.
 - The OR table moves in the appropriate direction at speed.
 2. Press [Multifunction button right] 2 or [Multifunction button left] 3 2× and hold.
 - The OR table moves in the appropriate direction at increased speed.
 3. Guide the OR table with at least one hand.
 4. Release [Multifunction button right] 2 or [Multifunction button left] 3 at the desired position.
 - The OR table stops moving.

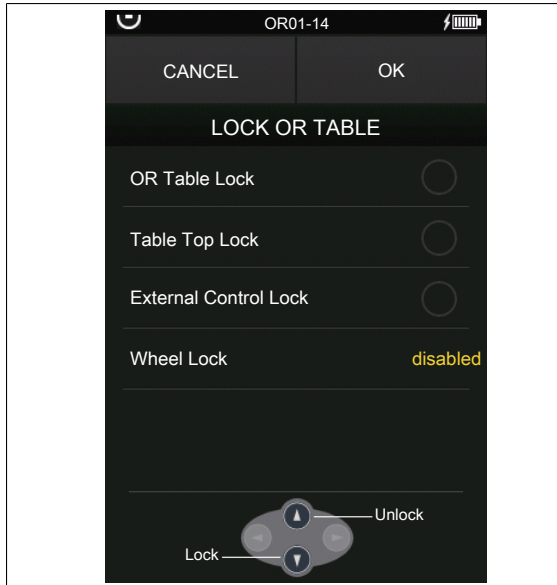
5.9.4 Locking the OR table [LOCK]



NOTICE

Carry out the adjustment functions of the OR table only with the swivel castors retracted (LOCK).

If an adjustment function is performed without retracting the swivel castors (UNLOCK), depending on the connected OR table a message appears on the display of the control device indicating that the swivel castors must be retracted.



Prerequisites:

- The **Lock OR table** menu is open.
1. Press and hold the [Multifunction button down].
 - The swivel castors retract automatically.
 - The LED below the [LOCK] button on the override control panel on the OR table lights up.
 - The OR table is locked.
 - The display in the menu **Lock OR table** switches to **Wheel Lock enabled**
 - The OR table can be adjusted.

Fig. 75: Locking the OR table [LOCK]

6 Display notes

6.1 Structure of display notes

If a function is activated on the control device, a note will also appear on the display. The display note will be hidden again 2 seconds after the selected function is released.

The display notes are divided into three categories:

- Notes on use
- Status notices
- Warning notices

For better differentiation, the three categories are indicated by an icon and a background colour.

Symbol	Meaning
	The icon identifies operating notes. The operating notes are shown with no background colour.
	The icon identifies the status notices. The status notes are shown with a green background colour.
	The icon identifies warning notices. The warning notices are shown with an orange background colour.

Tab. 9: Structure of display notes

6.2 Notes on use



NOTICE

For further operating instructions and information, please refer to the operating instructions for the operating table.

6.3 Status notices



NOTE

With every status message, the error code is displayed under the attention symbol. If the error cannot be corrected, note the error code and forward it to the service technician authorised by Getinge.



NOTICE

For further status notices and information, please refer to the operating instructions for the operating table.

6.4 Warning notices



NOTE

With every status message, the error code is displayed under the attention symbol. If the error cannot be corrected, note the error code and forward it to the service technician authorised by Getinge.



NOTICE

For further warning notices and information, please refer to the operating instructions for the operating table.

Executing System Test	Control device performs a self-test.
Remote control error	The control device must be restarted. Contact an authorised service engineer.
Remote control battery low	1. Charge the control device.
Remote control battery empty	1. Charge the control device.
Installed language incompatible	Language package not up to date. Contact an authorised service engineer.
Inconsistent Button Activation	—

7 Cleaning and disinfection

The product must be cleaned and disinfected after each use. The product can be wiped down to disinfect it.

The product can be classified as a non-critical medical device without increased reprocessing requirements.

7.1 General information



DANGER!

Risk due to mishandling of cleaning agents and disinfectants!

- The entire cleaning process may only be completed by qualified technicians.
- For information on concentration, temperature and contact and drying times, refer to the instructions of the detergent and disinfectant manufacturer.
- Observe current national and international regulations for hygiene in the medical field.
- Observe the cleaning and hygiene regulations of the hospital.



DANGER!

Risk of infection!

Residues on the product (e.g. blood, secretions etc.) can prevent proper disinfection.

- Remove coarse impurities from the product immediately with suitable non-fixing agents.
- Adjust the cleaning agent to the disinfectant (using a combination agent if necessary) in order to avoid interactions.



DANGER!

Risk of infection!

Product may be contaminated.

- Always wear gloves when cleaning / disinfecting.
- If necessary, take further protective measures.



DANGER!

Potentially fatal electrical shock!

- Make sure that the mains connection is disconnected before cleaning and disinfection.
- Ensure that no liquids can penetrate any live parts.

**DANGER!****Risk of explosion!**

Agents containing alcohol can form explosive vapour mixtures and ignite where high-frequency equipment is being used. The cleaning and disinfecting agents must be dried before use.

Ensure that there are no alcoholic residues on the product during high frequency use.

**CAUTION!****Improper cleaning and disinfection can cause property damage!**

- Observe the manufacturer's instructions for concentrations of cleaning agents and disinfectants
 - Perform visual and functional inspections after each cleaning and disinfection process.
-

7.1.1**No mechanical preparation**

**CAUTION!****Property damage!**

Do not use any mechanical cleaning or disinfection processes.

7.2 Cleaning agents and disinfectants

7.2.1 Suitable cleaning agents

The cleaning agents must be compatible with the disinfectants used. The use of fixing agents in the cleaning process such as alcohols or aldehydes should be avoided.

Cleaners with the following properties may be used:

- Slightly alkaline
- Surfactants and phosphates as active cleaning components

7.2.2 Suitable disinfectants

Use only surface disinfectants with the following active ingredient bases for manual disinfection:

Ingredient group	Active ingredients
Aldehydes	2-ethyl-1-hexanal, formaldehyde, glutardialdehyde, glyoxal, o-phthaldialdehyde, succinaldehyde
Guanidine derivatives	Alkyl-biguanide, chlorhexidine-digluconate, cocospropylene-diamine guanidinium diacetate, oligomeric biguanide, polyhexamethylene biguanide hydrochloride (oligo-diimino imido-carbonyl imino-hexamethylene, polyhexanide)
Quaternary ammonium compounds	Alkyl-didecyl-polyoxethyl ammonium propionate, alkyl-dimethyl-alkylbenzyl ammonium chloride, alkyl-dimethyl-ethyl ammonium chloride, alkyl-dimethyl-ethylbenzyl ammonium chloride, benzalkonium propionate, benzalkonium chloride (alkyl-dimethyl-benzyl ammonium chloride, coco-dimethyl-benzyl ammonium chloride, lauryl-dimethyl-benzyl ammonium chloride, myristyl-dimethyl-benzyl ammonium chloride), benzethonium chloride, benzyl-dihydroxyethyl-coco-alkyl ammonium chloride, dialkyl-dimethyl ammonium chloride (didecyl-dimethyl ammonium chloride), didecylmethyl-oxyethyl ammonium propionate, mecetronium-ethyl sulfate, methyl-benzethonium chloride, n-octyl-dimethyl-benzyl ammonium chloride

Tab. 10: Active ingredients of disinfectants

7.2.3 Non-usable products / substances

The following products/substances must not be used for cleaning and disinfection:

- Alcohol-based agents (e.g. hand and skin disinfectants)
- Halogenides (e. g. fluorides, chlorides, bromides, iodides)
- Dehalogenating compounds (e. g. fluorine, chlorine, bromine, iodine)
- Products that scratch the surface (e.g. scouring agents, wire brushes, steel wool, cleaning sponges containing iron)
- Standard commercial solvents (e. g. benzene, thinner)
- Water containing particles of iron
- Products containing acid (e.g. hydrochloric acid)
- Saline solutions

7.3 Manual preparation



CAUTION!

Improper cleaning can cause property damage!

Cleaning agents may not be sprayed directly into joints and cracks, and do not use pressure / steam cleaners!



CAUTION!

Improper preparation can cause property damage!

Use soft, lint-free cloths to prepare the product.

7.3.1 Pre-cleaning

If the product is heavily soiled, it is recommended to pre-clean the product with non-fixing agents.

The following actions are to be carried out as required:

1. Remove dirt with a slightly alkaline cleaner and a soft, lint-free cloth.
2. Thoroughly clean the product with a soft, lint-free cloth moistened with pure water.

7.3.2 Disinfection

1. Select a suitable disinfectant according to the specifications.
2. Use the concentration specified by the disinfectant manufacturer for proper disinfection.
3. Thoroughly wipe the product with a soft, lint-free cloth moistened with disinfectant solution.
4. Make sure that the product is free of impurities.

7.3.3 Drying

Wipe-down disinfection does not require any drying, as excess disinfectant evaporates.

1. Observe the drying time specified by the disinfectant manufacturer.

7.3.4 Inspections

1. Carry out visual and functional inspections.

8 Maintenance

8.1 Visual and functional inspections

To ensure correct operation, it is necessary to have visual and functional inspections performed by a trained person prior to each use.
Documentation of the results of the visual and functional inspections is recommend and should include the date and signature of the person who performed the inspections. The following table may be used as a template.

Suggestion:

No.	Inspection	Defects are present		No defects
1	Has the product not been cleaned and disinfected in accordance with hygiene regulations?	<input type="checkbox"/>	1. Do not continue to use the product. 2. Clean and disinfect the product in accordance with hygiene regulations.	<input type="checkbox"/>
	Comment:			
2	Are the selected adjustment functions not executed?	<input type="checkbox"/>	1. Do not continue to use the product. 2. Notify Getinge authorised service.	<input type="checkbox"/>
	Comment:			
3	Are there damages to mechanical parts?	<input type="checkbox"/>	1. Do not continue to use the product. 2. Notify Getinge authorised service.	<input type="checkbox"/>
	Comment:			
4	Is the control panel on the control device damaged?	<input type="checkbox"/>	1. Notify Getinge authorised service.	<input type="checkbox"/>
	Comment:			
5	Is the battery/are the batteries not charged?	<input type="checkbox"/>	1. Recharge the IR remote control in the charging station.	<input type="checkbox"/>
	Comment:			

Tab. 11: Visual and functional inspections

No.	Inspection	Defects are present		No defects
6	Are there damages to the insulation of electrical cables?	<input type="checkbox"/>	1. Do not continue to use the product. 2. Notify Getinge authorised service.	<input type="checkbox"/>
	Comment:			
7	(Space for other tests)	<input type="checkbox"/>	1.	<input type="checkbox"/>
	Comment:			

Tab. 11: Visual and functional inspections

8.2 Malfunctions and troubleshooting

8.2.1 Control device



NOTE

Software version [►► Page 40] and error messages [►► Page 39] can be called up in the control device.

No.	Appearance / Inspection	Activity / Rectification / Measure
1	Weak transmission power	IR window dirty. 1. Clean the IR window of the control device. IR window scratched / damaged. 1. Have the control device checked by an authorised service technician [►► Page 84].
2	No transmission signal during use as an IR control device	No IR transmission 1. Use the control device with cable [►► Page 21]. 2. Have the control device checked by an authorised service technician [►► Page 84].
3	Short battery run time / frequent charging required	Defective batteries 1. Have the battery replaced by an authorised service technician or in-house technician [►► Page 84]. Request and follow service instructions.

Tab. 12: Faults and troubleshooting

No	Appearance / Inspection	Activity / Rectification / Measure
4	Control device does not charge, or charges slowly (≥ 6 hours to charge level 100 %)	<p>Control device is not in the charging cradle (mobile charging station)</p> <ol style="list-style-type: none"> 1. Insert the control device into the charger so that the green LED flashes. <p>Holding bracket of the control device is bent (stationary charging station)</p> <ol style="list-style-type: none"> 1. Have the holding bracket replaced by an authorised service technician or in-house technician [►► Page 84]. Request and follow service instructions.
5	Selected adjustment functions are not executed	<p>Reception disturbed.</p> <ol style="list-style-type: none"> 1. Change position and press the buttons again. <p>Incorrect connection with OR table.</p> <ol style="list-style-type: none"> 1. Check IR code [►► Page 35]. 2. Re-connect the control device with the OR table [►► Page 31]. 3. Restart the control device [►► Page 63]. <p>The control device is defective.</p> <ol style="list-style-type: none"> 1. Have the control device checked by authorised service technicians.
6	Control device no longer responding / touchscreen is black	<p>System failure of the control device.</p> <ol style="list-style-type: none"> 1. Restart the control device [►► Page 63]. <p>- or -</p> <ol style="list-style-type: none"> 2. operate the OR table using the override control panel or another control device. <p>The control device is defective.</p> <ol style="list-style-type: none"> 1. Have the control device checked by authorised service technicians.

Tab. 12: Faults and troubleshooting

8.2.2 Mobile charging station

No.	Appearance / Inspection	Activity / Rectification / Measure
1	Mobile charging station is connected to the power supply, and the green LED (voltage supply) is not lit.	Connecting cable between power supply unit and mobile charging station is defective. 1. Have the connecting cable checked by authorised service technicians.
		Mobile charging station is defective. 1. Have the mobile charging station checked by an authorised service technician.
2	The control device is placed into the charging cradle and the green LED (status display mains connection status indicator) does not light up.	Mobile charging station is not connected to the mains. 1. Connect the mobile charging station to the mains.
		Connecting cable from the AC adapter to the charging station is defective. 1. Have the connecting cable checked by authorised service technicians.
		Mobile charging station is defective. 1. Have the mobile charging station checked by an authorised service technician.
3	Orange LED is lit and control device is not in the charging cradle	Internal defect. 1. Have the mobile charging station checked by an authorised service technician.
4	The orange LED (error indicator) flashes quickly.	Metallic foreign object in the charging cradle prevents the control unit from charging. 1. Remove metal foreign bodies from the charger.
5	Orange LED (error display) flashes slowly.	Error in the supply voltage of the stationary charging station. 1. Have the mobile charging station checked by an authorised service technician.

Tab. 13: Faults and troubleshooting

8.2.3 Stationary charging station

No.	Appearance / Inspection	Activity / Rectification / Measure
1	Stationary charging station is connected to the power, and the green LED (voltage supply) is not lit.	Connection line to the stationary charging station is defective. 1. Have the connection line or power supply unit checked by authorised service technicians.
		Stationary charging station is defective. 1. Have the stationary charging station checked by authorised service technicians.
2	The control device is inserted into the charging cradle and the green LED (battery charge level / voltage supply) does not flash.	The control device is not properly inserted in the charging cradle. 1. Insert the control device properly into the cradle.
		The control device is defective. 1. Have the control device checked by authorised service technicians.
		Stationary charging station is defective. 1. Have the stationary charging station checked by authorised service technicians.
3	The orange LED (error indicator) is lit.	Internal defect. 1. Have the stationary charging station checked by authorised service technicians.
4	The orange LED (error indicator) flashes quickly.	Metallic foreign object in the charging cradle prevents the control unit from charging. 1. Remove metal foreign bodies from the charger.
5	Orange LED (error display) flashes slowly.	Error in the supply voltage of the stationary charging station. 1. Have the product checked by an authorised service technician.

Tab. 14: Faults and troubleshooting

8.3 Maintenance



NOTE

In the event of unauthorised opening of the device, the product's guarantee is voided.

This product is maintenance-free.

Wear caused by use and age may influence the safety-relevant functions of the product. Check the state of the product prior to each use.

If defects are discovered, do not continue to use the product. Inform the relevant Getinge representative for repairs.

8.4 Repair

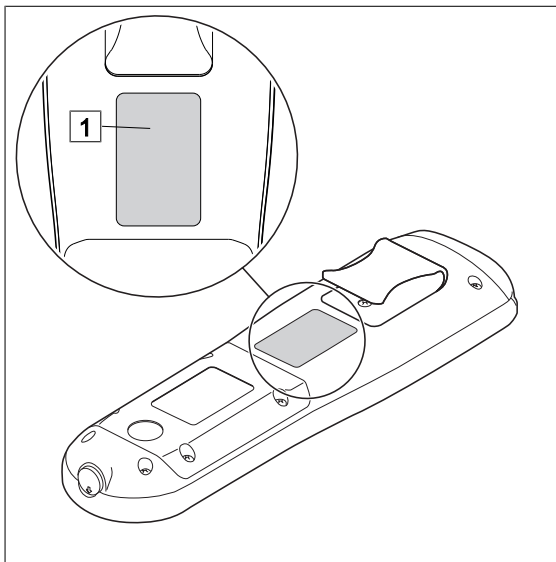
A damaged product may not be used and you may not repair it yourself. Please have the following information at hand for your Getinge representative:

- Description of the defect
- Product number (see type plate)
- If available: Serial number (see type plate)
- Construction year (see type plate)

Hotline for Germany: +49 (0) 180 32 12 144

Hotlines for other countries can be found at www.getinge.com.

8.5 Type plate



Position of the type plate **1** on the product.

Fig. 76: Type plate

9 Technical specifications



NOTE

For dimensions, adjustment ranges and weight specifications, there is a tolerance of $\pm 5\%$, if no other tolerance is specified.

9.1 Ambient conditions

Temperature: Shipping / storage	-20 °C to +50 °C
Temperature: Operation	+10 °C to +40 °C
Relative humidity: Shipping / storage	10 % to 95 %
Relative humidity: Operation	30 % to 75 % (non-condensing)
Atmospheric pressure: Shipping / storage	500 hPa to 1060 hPa
Atmospheric pressure: Operation	700 hPa to 1060 hPa

9.2 Electrical specifications

Internal operating voltage	IPS SELV DC 3.6 V
Rechargeable battery	Li-ion 7.92 Wh / 2.2 Ah
Protection against ingress of liquids	IP X4 (spray water protection)

9.3 Dimensions

Length	254 mm
Width	65–75 mm
Height	26–37 mm

9.4 Weight

Net weight	0.4 kg
------------	--------

9.5 Electromagnetic compatibility (EMC)

The product is designed for operation in the environments specified in the intended use. The user must ensure that the product is operated in such an environment.

9.5.1 Electro magnetic transmission and resistance to interference

Standard	Compliance
Medical electrical equipment – Part 1-2: General requirements for basic safety, including significant performance features – collateral standard: Electromagnetic disturbances – requirements and testing IEC 60601-1-2	Conformity without deviations
Interference voltages at the power supply connection (conducted emissions), electromagnetic interference (radiated emissions) CISPR 11	Group 1
	Class A

9.5.2 Resistance to electro magnetic interference - Testing process

Test / Standard	Test level
Interference immunity to static discharge IEC 61000-4-2	±8 kV contact discharge ±2 kV, ±4 kV, ±8 kV, ±15 kV air discharge
Interference immunity to high-frequency electromagnetic fields IEC 61000-4-3	3 V/m 80 MHz – 2.7 GHz 80 % AM at 1 kHz

Test / Standard	Test level			
Interference immunity to near fields from wireless HF communication devices IEC 61000-4-3 (provisional process)	Testing frequency (MHz)	Radio service	Modulation	Test level (V/m)
	385	TETRA 400	Pulse modulation 18 Hz	27
	450	GMRS 460 FRS 460	FM ±5 kHz lift 1 kHz sine	28
	710	LTE Band 13 / 17	Pulse modulation 217 Hz	9
	745			
	780			
	810	GSM 800 / 900 TETRA 800 iDEN 820 CDMA 850 LTE Band 5	Pulse modulation 18 Hz	28
	870			
	930			
	1720	GSM 1800 CDMA 1900 GSM 1900 DECT LTE Band 1 / 3 / 4 / 25 UMTS	Pulse modulation 217 Hz	28
	1845			
	1970			
	2450	Bluetooth WLAN 802.11 b / g / n RFID 2450 LTE Band 7	Pulse modulation 217 Hz	28
	5240	WiFi 802.11 a / n	Pulse modulation 217 Hz	9
	5500			
	5785			
Interference immunity to conducted disturbances, induced by high-frequency fields – SIP/SOP gates IEC 61000-4-6	3 V 0.15 MHz – 80 MHz 6 V for ISM bands between 0.15 MHz – 80 MHz 80 % AM at 1 kHz			
Interference immunity to magnetic fields with energy technology frequencies IEC 61000-4-8	30 A/m 50 Hz			
Interference immunity to magnetic fields in a frequency range of 9 kHz to 13.56 MHz IEC 61000-4-39	134,2kHz, pulse modulation 2.1 kHz, 65 A/m 13,56MHz, pulse modulation 50 kHz, 7.5 A/m			

9.5.3 Transmitting and receiving RF energy

The product contains a device for emitting (RF transmitter) and receiving RF energy (RF receiver) according to the following table:

Wireless technology	Frequency	Frequency band (ITU)	Modulation	Bandwidth	EIRP (Equivalent Isotropic Radiated Power)
WLAN 2.4 GHz IEEE 802.11 b/g/n	2400 - 2483.5 MHz	ISM	CCK, DSSS, OFDM	20 / 40 MHz	17 dBm ±1 dB
Bluetooth LE	2400 - 2483.5 MHz	ISM	GFSK	2 MHz	8 dBm ±1 dB

10 Approved accessories



DANGER!
Potentially fatal!
Patient may be endangered as a result of incorrect use.
 Follow the instructions for use for all accessories.

Only accessories listed in this chapter may be mounted to this product.

10.1 Accessories universal remote control

1009.24A0	Stationary charging station
1009.24B0	Mobile charging station
1009.24C0	Stationary charging station
1009.27A0	Cable

Tab. 15: Accessories universal remote control



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IFU 1009.25 EN 01 2024-05-07

