CHS Healthcare
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INSTALLATION AND OPERATIONAL MANUAL

POWERSTAND ELS

ELEVAND
elevating patient handling

TABLE OF CONTENTS

1. INTRODUCTION

Congratulations on choosing the Elevand Powerstand ELS patient lift for your design and production needs.

By following the recommendations in the user manual and utilising the provided information, you can ensure the safe, long-lasting, and faultless operation of this mobile lift. Please direct any comments or observations about the lift's performance or the contents of this manual to the following address:

Distribution and service by:

CHS Healthcare
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GENERAL REMARKS:

1. The product should only be operated by qualified, trained personnel who have read these instructions.
2. Using, operating, or servicing the product inconsistently with these instructions is prohibited. Such action may cause damages that create a financial burden for the user, for which the Producer is not responsible.
3. The device manufacturer does not allow any modifications to be made to the product.
4. If the operation and parameters are incompatible with the description in the instructions, the product must not be used. This issue must be reported immediately to the manufacturer or distributor.
5. Each product repair should be conducted by an authorised service centre or the factory and documented in the repair list that comes with the warranty card. Please adhere to this requirement to ensure the product warranty remains valid.
6. Any serious incident involving the Elevand Powerstand ELS patient lift must be reported immediately to the manufacturer and the relevant authority in the Member State where the user or patient resides.
7. The warranty covers all material and manufacturing defects.
8. A technical description of the device, including a list of spare parts and their replacement methods, is available upon request from the manufacturer.

Warranty terms will be honoured only if the product is used according to its intended purpose and in compliance with the terms stated in this manual.

The manufacturer is not responsible for any consequences resulting from improper use of the Elevand Powerstand ELS, which includes any use that does not comply with the conditions outlined in this manual.

1.1. Symbols

CAUTION!

In this manner are indicated activities, which if performed inconsistently with the instruction manual may cause deterioration of conditions or safety hazard to the user and / or personnel operating the device ref.

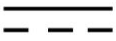
Indicates the need for the user to consult the instructions for use

Applied part type B: approved for physical contact with patients (IEC 60601-1)

Manufacturer
XXXX-XX – year and month of production

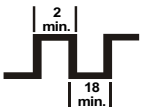
For indoor use

Appliance class II (electrical safety)



Direct current

Alternating current



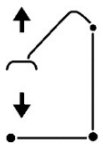
Acutator operation type

Safe working load (SWL) of the device (230 kg) when lifting – lowering the arm

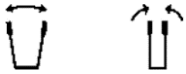
Hand control - Battery level status

Hand control - Service indicator

Hand control - Overload symbol



Hand control - Raising / lowering the patient



Hand control - Spreading legs of the base the lift

Prohibition of gripping of the actuator

Emergency electric lowering

Charging diodes

Medical device

Catalogue number

Serial number

Protection level (electrical safety)

Elevand PowerStand ELS is manufactured in accordance with Medical Devices Regulation 2017/745 (class I, rule 13) a CE mark, according to the manufacturer declaration.

All electrical and electronic equipment waste must be disposed of properly at recycling facilities according to the European Union's WEEE directive or equivalent regulations. It is essential that all devices containing substances harmful to the environment or humans are recycled properly in relevant facilities and not disposed of with general or household waste. These regulations ensure the reduction of electronic waste and proper recycling of electronic devices. Proper recycling is crucial as electronic waste may contain substances harmful to the environment and human health.

Recycable materials

2. Elevand PowerStand ELS CHARACTERISTIC

2.1. Purpose

CAUTION!

Elevand PowerStand ELS is a stand-up-lift, not a lift-to-lift persons.

CAUTION!

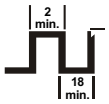
All electrical and electronic equipment waste must be disposed of properly at recycling facilities according to the European Union's WEEE directive or equivalent regulations. It is essential that all devices containing substances harmful to the environment or humans are recycled properly in relevant facilities and not disposed of with general or household waste. These regulations ensure the reduction of electronic waste and proper recycling of electronic devices. Proper recycling is crucial as electronic waste may contain substances harmful to the environment and human health.

CAUTION!

This product is not intended for use by the patient alone. Lifting and transferring a patient should always be carried out with the help of at least one caregiver.

The Elevand PowerStand ELS is an electric sit-to-stand device that promotes natural standing and sitting movements. It is specifically designed to assist users with low core stability in activities such as standing, sitting, dressing, toileting, and balance training. The device facilitates transfers to and from a (wheel)chair, toilet, or bed/stretcher.

2.2. Technical characteristics

Length of frame		1080 mm
Width of frame		750 mm
Height		1130 mm
Height of the push bar.		950 - 1130 mm
Raising height (min.)		780 mm
Raising height (max.)		1740 mm
Minimum legs width (int./ext.)		510 / 660 mm
Maximum legs width (int./ext.)		1010 / 1150 mm
Tibial suport height adjust.downwards (min / max)		390 / 520 mm
Tibial suport height adjust.upwards (min / max)		530 / 660 mm
Height of device legs (from floor)		115 mm
Foot plate height		90 mm
Foot plate size		360 x 330 mm
Turning diameter of the product (min)		1240 mm
Turning diameter of the product (max)		1400 mm
Lifting speed (raising)		18 s.
Lifting speed (lowering)		18 s.
Diameter of castors with brake		125 mm
Diameter of castors without brake		100 mm
Type of work		Discontinuous, short-term load (10%) max 2 min. work (ON), min. 18 minutes pause (OFF)
Power supply	Voltage	100-240V ~
	Frequency	50/60 Hz
	Consumed current	Max. 400 mA
Battery		24 V ⎓ / 2,9 Ah
Protection class against electric shock		II, ⧈
Applied part		typ B,
Protection level of the control box		IPX4
Protection level of the battery		IPX5
Protection level of the main actuator		IPX4
Protection level of the hand control		IPX6
Safe working load (SWL)		≤230 kg (symbol indicates the maximum safe load of the device when lifting / lowering the arm)
Operation force (Finger)		< 5N
Weight product		60 kg
Max sound level		52dB

2.3. Elevand PowerStand ELS

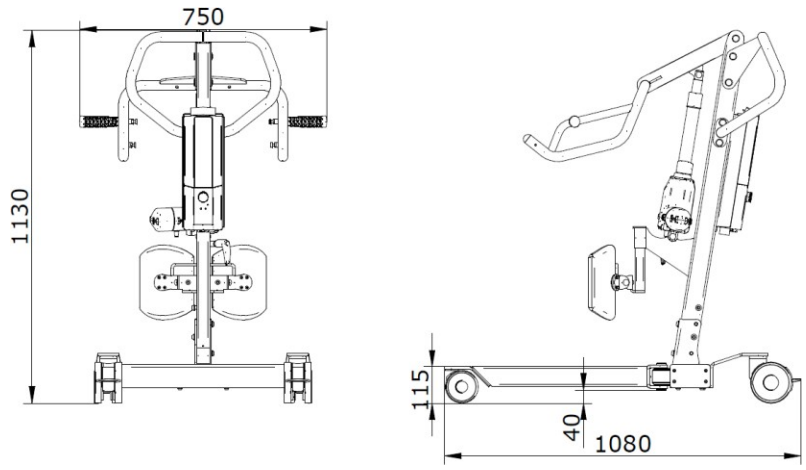


Figure 1 – The main dimensions of the Elevand PowerStand ELS (mm)

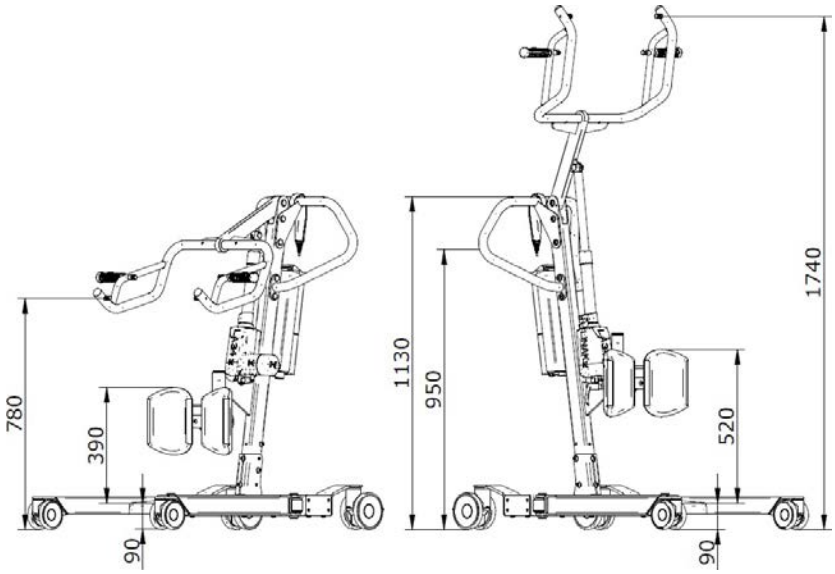


Figure 2a – Lifting range and height of the Elevand PowerStand ELS (Tibial support positioned downwards, mm)

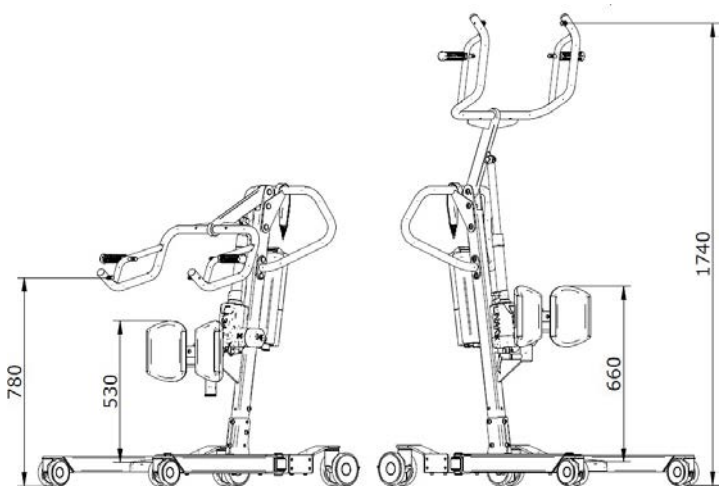


Figure 2b – Lifting range and height of the Elevand PowerStand ELS (Tibial support positioned upwards, mm)

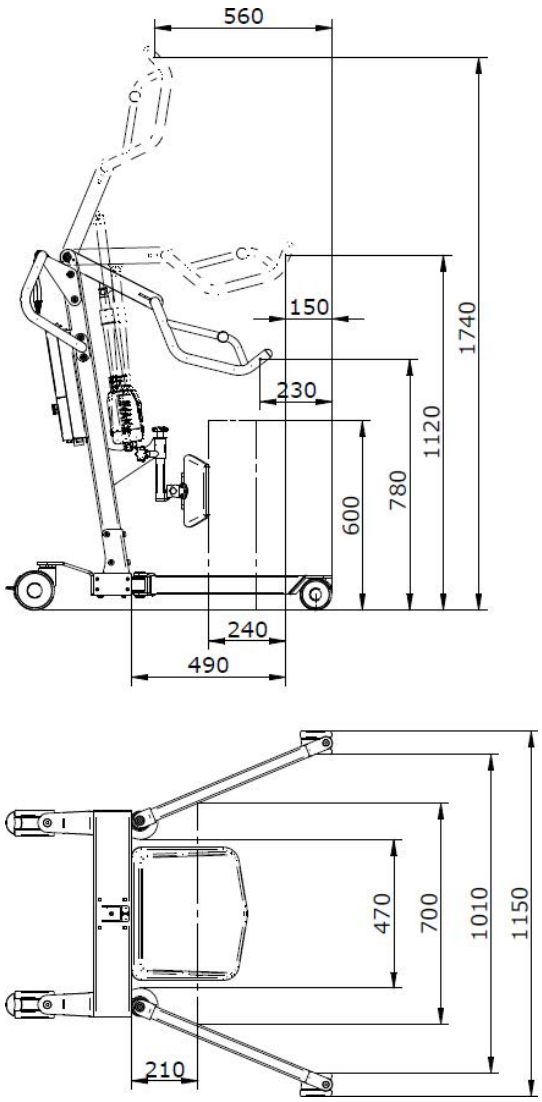


Figure 2c – Additional dimensions of the Elevand PowerStand ELS (mm)

3. CONSTRUCTION AND OPERATION OF Elevand PowerStand ELS

3.1. Construction components

The design of the Elevand PowerStand ELS is made of welded powder-coated steel sections and consists of the following components:

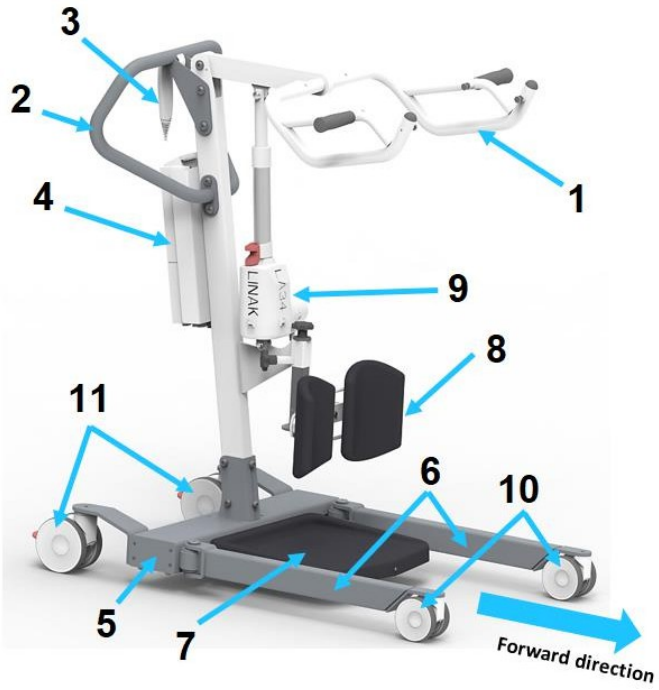


Figure 3 - Elevand PowerStand ELS construction components

1 **Lifting arm**
Allows raising/lowering the patient attached to the device with a back belt sling

2 **Push bar**
A handle used by the operator to control the device.

3 **Hand control**
Enables control of patient lifting

4 **Control box + battery**
Manages the operation of the actuator.

5 **Base**
Lift base, equipped with four wheels

6 **Electrical spreading legs of the base**
Allow you to drive under chairs, wheelchairs, etc.

7 **Footplate**
Patient's feet space (enables safe verticalization)

8 **Adjustable shin pads**
Soft support for the patient's legs

9 **Main actuator**
Electric actuator for raising the lifting arm

10 **Front castors**
Twin castors - no brake

11 **Rear castors**
Twin castors - with brake

3.2. Accessories and additional equipment

CAUTION!

The device must be used with a back belt sling certified in accordance with the Medical Device Regulation 2017/745 and in accordance with ISO 10535:2006.

To use the device, choose the appropriate back belt sling from the lift with the right-size clips (available online).

3.3. Device set

Elevand PowerStand ELS	1 pc.
User Manual	1 pc.
Charging cable	1 pc.
Battery	1 pc.
Accessories and additional equipment	as per order

3.4. Transport

The device is shipped in a cardboard box on a pallet and should not be stacked. Foam profiles, bubble wrap, and stretch film protect the outer edges. When moving the lift indoors, care should be taken to avoid impacts and abrasions to its outer edges.

3.5. Storage

Store the device in a cool and dry room. The ambient conditions should ideally be within the following ranges:

- Ambient temperature: 10 ÷ 40ºC (recommended below 20ºC)
- Air humidity: 30 ÷75%
- Air pressure: 700 ÷ 1060 hPa

4. GENERAL WARNINGS AND SAFETY MEANS

CAUTION!

Any modification of the device without the written authorization of the Manufacturer is prohibited.

CAUTION!

The manufacturer reserves the right to make changes to the design that do not violate the basic requirements of functionality and security.

While using the Elevand PowerStand ELS, the following points should be abided firstly:

1. The Mobile lift should only be used for its intended purpose.
2. Keep a safe distance from the lifting mechanisms during operation, as moving parts pose a crushing risk.
3. The lift should only be operated by medical personnel who have been properly instructed and have the appropriate expertise.
4. Before using the device, read the entire instruction manual to avoid damage from incorrect operation and to understand all necessary instructions and important information.
5. Ensure the lift is in good condition before each use. (see sections 7.2 and 7.3).
6. Repairs should be performed by authorised service personnel.
7. Before using the lift, assess whether the patient can safely use the device (e.g., consider the risk of swooning).
8. If the maximum load capacities of the lift and sling differ, always adhere to the lower maximum load.
9. Ensure no moisture enters the electrical system. IPX4 protection is only valid when the battery is connected (see section 6.7).
10. Charge the battery in a well-ventilated area.
11. Make sure to leave children unattended near the device. If necessary, remove the battery. The lift is not a toy.
12. Do not leave a patient using the device unattended, as an unconscious patient may fall out.
13. If you hear unusual noises, stop using the device, remove the battery, and contact an authorised dealer.

5. PREPARATION FOR USE

CAUTION!

Do not stand on the device's base legs when using the device. Injuries could occur during their movement. Additionally, maintain adequate distances to accommodate the device's leg deflection system.

CAUTION!

The arm (hanger) assembly should only be raised by the actuator. Manually lifting the arm assembly may damage the actuator. Proper distance must be kept for the use of the device's legs of the base spread system.

CAUTION!

Do not use the lift in an environment with other devices that emit radio frequency energy. The lift control system, like any electronic device, generates, uses, and can emit radio frequency energy. If not used according to the instructions, it may interfere with nearby equipment. The manufacturer does not guarantee that interference will not occur in a particular location. To check for interference, change the lift's position or disconnect the battery. You can try to correct the interference by changing the usage area, increasing the distance from the affected equipment, or consulting service.

CAUTION!

The device can be used in wet rooms, such as bathrooms, but it must not be used in the shower. Ensure the environmental conditions are within the following limits:

- Temperature: 10 ÷ 40ºC;
- Air humidity: 30 ÷ 75%;
- Air pressure: 700 ÷ 1060 hPa.

CAUTION!

Avoid strong sunlight on the lift.

Ensure that the patient lift is positioned in a location with ample space on all sides for maneuvering. Refer to Figure 4 for the device's turning diameter.

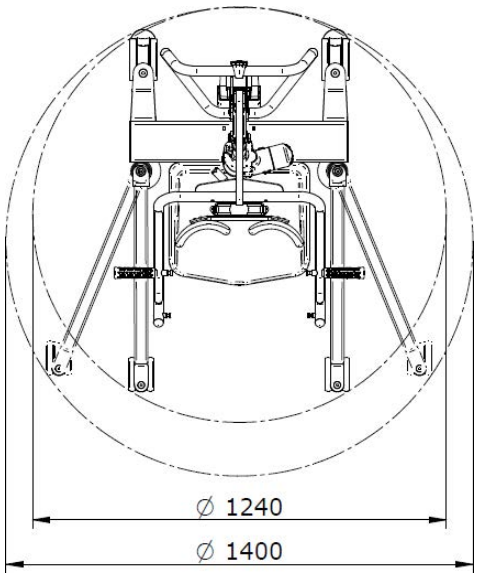


Figure 4 – The device's turning diameter (mm)

6. PREPARING THE UNIT FOR USE

6.1. Patient lifting and transport

To assist a person with lifting, follow these steps:

- Lower the lifting arm of the unit as far down as possible (using the lifting button, Figure 8).
- Ensure the person needing assistance is seated.
- Position the back belt sling on the patient's back.
- Bring the device close to the patient's seat until their feet reach the footplate, and lock the rear castors. If possible, have the patient grip the handles with both hands.
- Adjust the shin pads to be approximately 2 cm below the patient's knees (refer to point 6.9). Extend the device's legs to the desired width (using button one on the hand control, Figure 5).
- Engage the stop levers (see point 6.3).
- Attach the back belt sling by clipping it onto the sling attachment hooks on the lifting arm (see point 6.10).
- Press and hold the lift button (Figure 8) to raise the patient into a standing position.
- Release the stop levers.
- Narrow the leg width of the device by moving it back (using button two on the hand control, Figure 5).
- Transport the patient to the desired location.
- Once at the destination, apply the parking brakes (if necessary, extend the device's legs before lifting).
- Lower the patient by pressing and holding the appropriate button on the hand control (refer to point 6.4) until they are comfortably seated and the back belt sling is removed.
- Remove the back belt sling only after confirming the patient is securely seated on a stable surface.
- Release the stop levers.
- Move the device away.

6.2. Spreading range of Elevand

This feature is beneficial when adjusting the lift to approach a patient seated on a chair or other furniture, ensuring the device's width matches perfectly. Hold down the relevant button on the hand control until the desired leg width is achieved (Figure 5).

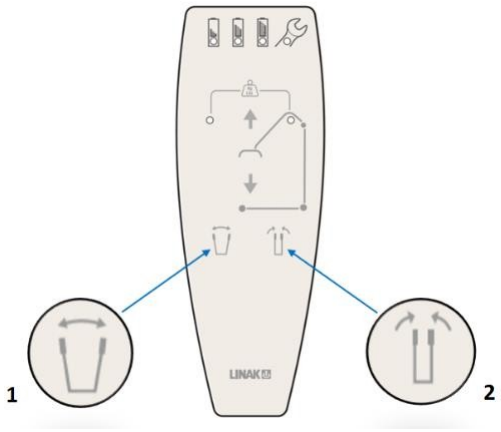


Figure 5 – Control button spreading range of the device's legs of the base

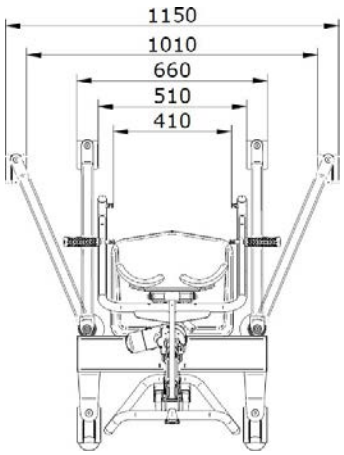


Figure 6 – Spreading range of the device's legs of the base (mm)

6.3. Using the stop lever

CAUTION!

Always use both brakes.

The stop lever (Figure 7) is a crucial component of the device, situated on the rear casters to prevent movement during use. Depress the locking lever with your foot to secure the lift in place. To disengage the brakes, raise the lever.

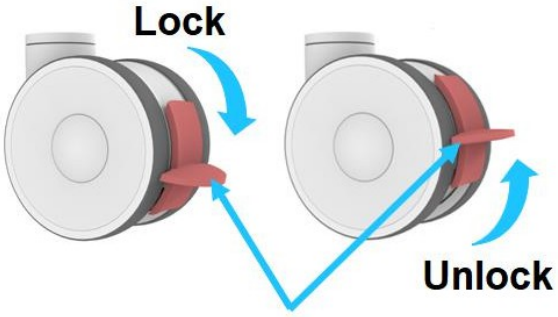


Figure 7 – Locking lever

6.4. Hand control

The Elevand PowerStand ELS has a remote control that gives you control over the lift (Fig. 8a).

1. Battery charge level
2. Service diode
3. Overload
4. Raising
5. Lowering
6. Adjusting legs outside
7. Adjusting legs inside

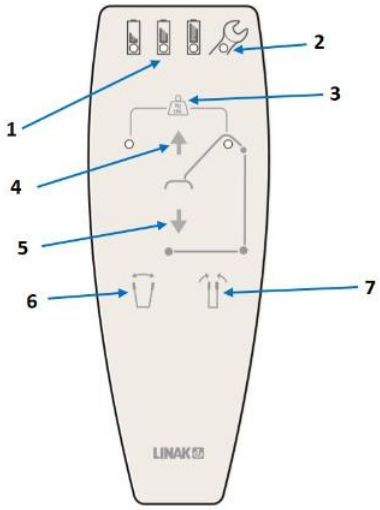
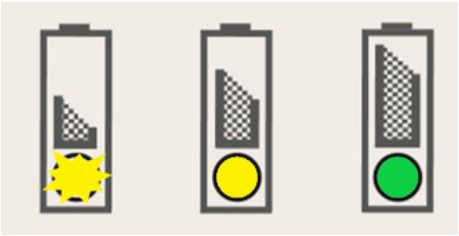


Figure 8a – Buttons on the hand control

Diodes located on the unit show the battery's status, service information, and overload warnings (fig. 8b).

Battery Indication

Three stages of discharge indicate the battery's status. The diodes for battery status are yellow or green until power is off (2 minutes after use).



Battery status

For full description go to section 6.8

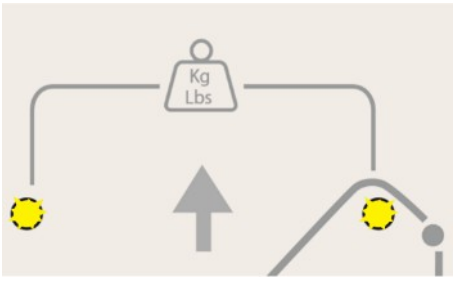
Service Indication

The service indicator (yellow diode) flashes when service is required. The standard interval is every 12 months or 8000 cycles (following EN10535 norms), whichever comes first.

When service is due, the service indicator remains lit for 2 minutes after use, after which it powers down to conserve battery.

The system remains operational when the service indicator is illuminated.

Overload Indication



During an overload exceeding the preset current cutoff limit, both LEDs will blink for 10 seconds.

Figure 8b - Hand control functionality with diodes

6.5. Emergency stop

In case of an emergency, immediately press the emergency stop button (Figure 9). To unlock the button, rotate it clockwise.

Figure 9 – Emergency stop

6.6. Patient emergency lowering

If there is no response when pressing the lowering or lifting buttons on the hand control, emergency lowering or lifting can be performed by pressing a small button on the control box using a pen or similar tool (Figure 10). If the electric control box's lowering function does not work, manual lowering can be activated using a lever located at the bottom of the main actuator cylinder bar (Figure 11). To activate manual lowering, grip the red part and gently pull upwards.

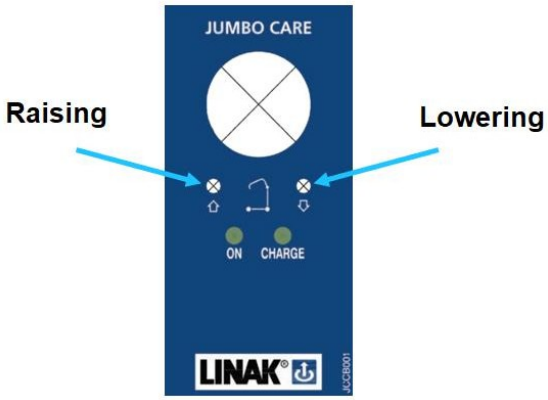


Figure 10 - Elevation of the controller- emergency patient raising/lowering

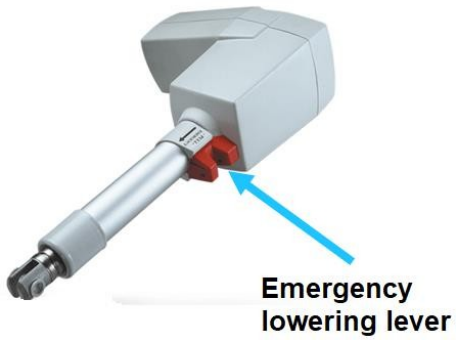


Figure 11 - Main actuator – emergency patient lowering

6.7. Installation and removing the battery

To install the battery in the device, follow these steps:

- Align the bottom of the battery with the top of the controller (Figure 12a).
- Push the top of the battery forward until you hear a click indicating it is securely attached (Figure 12b).
- Gently push the top of the battery forward to ensure it is properly secured on the rail.

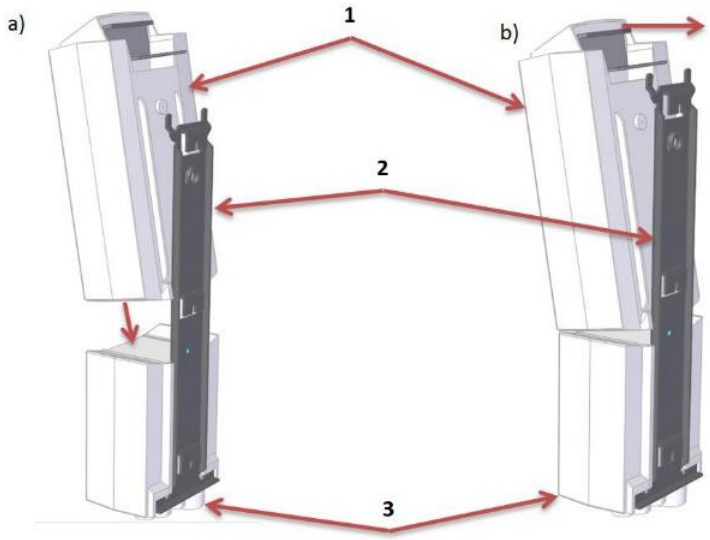


Figure 12 – Battery mounting (1 – battery, 2 – mounting rail, 3 – control box)

To remove the battery, follow these steps:

- Position the lift in the starting position.
- Activate the emergency stop button (refer to point 6.5).
- Grasp the battery by the handle (1) and depress the release lever (Figure 13a)
- Fold back the battery (Fig 13b) and pull it out (Fig 13c).

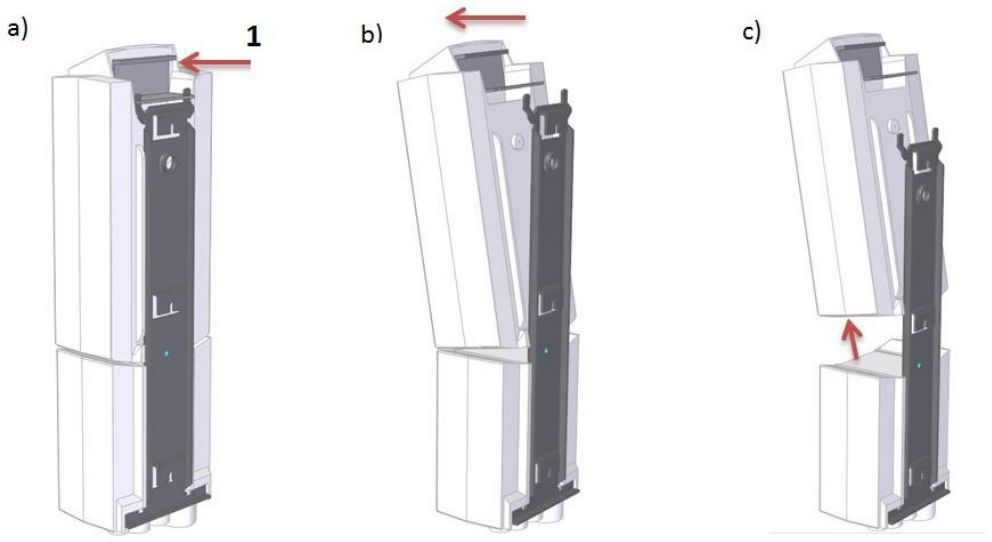


Figure 13 – Battery removing (1 – release lever)

6.8. Battery level status and charging

CAUTION!

The device cannot be used while charging.

CAUTION!

During charging, the lifting function is blocked.

CAUTION!

After fully charging, do not use the device for 1 hour, this will extend the life of the battery.

CAUTION!

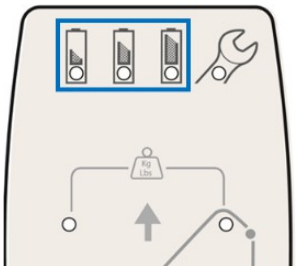
The battery should be charged continuously for at least 24 hours in the following cases:

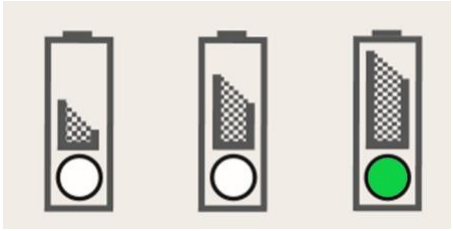
- before using the lift for the first time,
- before storage period (up to 3 months) without power supply connected,
- as the first activity after the storage period.

The battery charge level is indicated on the hand control (Figure 14).

Battery Indication

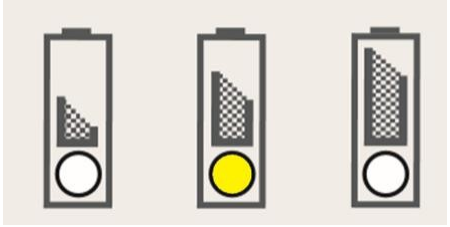
The battery discharge status is indicated in three stages. The battery LEDs remain yellow or green until the device enters standby mode (2 minutes after use).





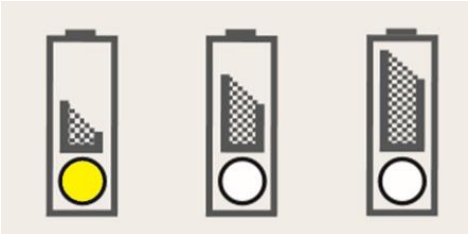
Battery state 1:

The battery is in good condition and does not require charging (100-50% capacity); indicated by the third green LED.



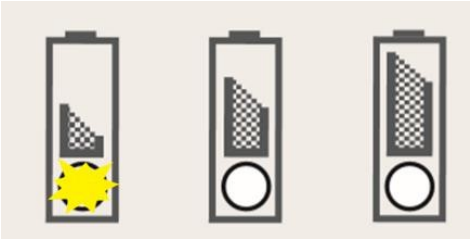
Battery state 2:

The battery requires charging (50-25% capacity); indicated by the second yellow LED.



Battery state 3:

The battery requires charging (less than 25%); indicated by the first yellow LED and a buzzer sound when a button is pressed



Battery state 4:

The battery urgently needs charging. Some functions of the lift are disabled, allowing only the lowering of the lifting arm.

The LED blinks continuously and emits an audible signal due to prolonged use.

Figure 14 – Indication of the battery charge level on the hand control

- To recharge the battery, follow these steps:
    - Activate the emergency stop.
    - Connect the power cord to the control box (Figure 15).
    - Plug the power cord into the electrical outlet.

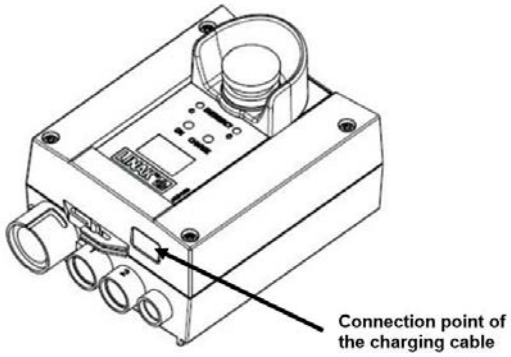


Figure 15 – Connecting the charging cable

When the battery is charging, the LEDs on the control box illuminate (Figure 16). The green LED confirms the connection of the battery charger to the mains, while the yellow LED indicates the ongoing charging process. A full charge typically takes around 5 hours.

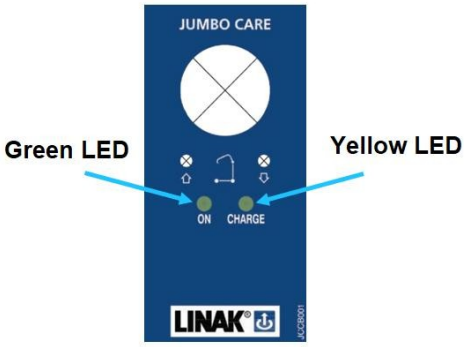


Figure 16 –LED – location on the control box

6.9. Shin pads adjustment

The device includes an adjustable tibia support perpendicular to the footrest plate surface. The adjustment process is detailed in section 2.2.

1. Positioning Knob
2. Clamping knob
3. Adjustable Shin pads

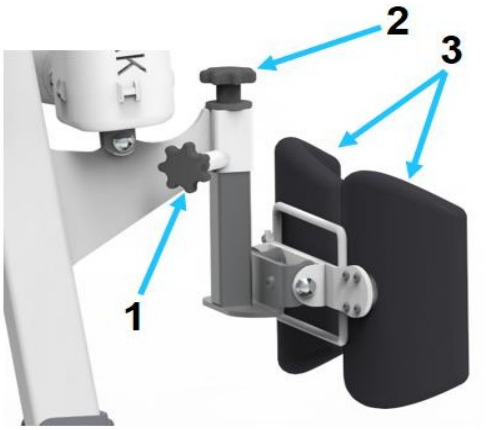


Figure 17 – Shin pads height adjustment

To adjust the height of the shin pads (Fig. 17a):

- Rotate the Positioning knob (1) counterclockwise to enable height adjustment.
- Slide the shin pads (2) up or down until the desired height is reached.
- Rotate the Positioning knob (1) clockwise to secure the height adjustment.

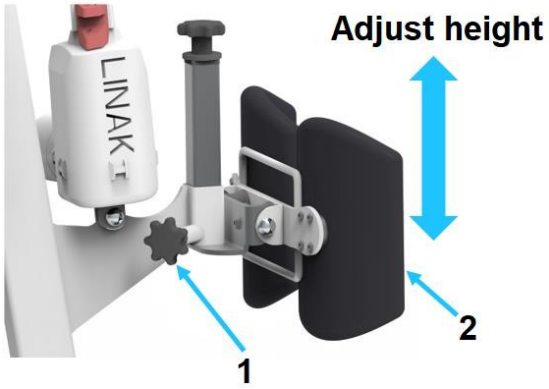


Figure 17a – Shin pads height adjustment (Clamping knob located upwards)

For the increased maximum height of the shin pads, they can be removed and turned upwards (with the locking knob facing downwards).

To remove the shin pads (Fig. 17b):

- Turn the Locking knob (1) counterclockwise and remove it.
- Rotate the Positioning knob (2) counterclockwise to release the shin pads.
- Pull the shin pads (3) downwards until completely detached.

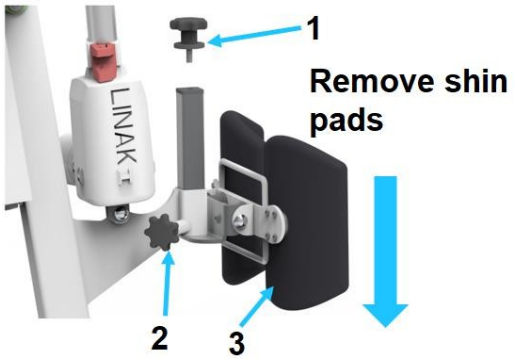


Figure 17b – Shin pads height adjustment (repositioning)

To attach the shin pads and increase their maximum height (Fig. 17c):

- Insert the shin pads (3), ensuring the Locking knob (1) is positioned downwards as shown.
- Attach and rotate the Locking knob (1) clockwise to secure the shin pads (3).
- Adjust the shin pads (3) up or down to achieve the desired height.
- Rotate the Positioning knob (2) clockwise to lock the height adjustment in place.

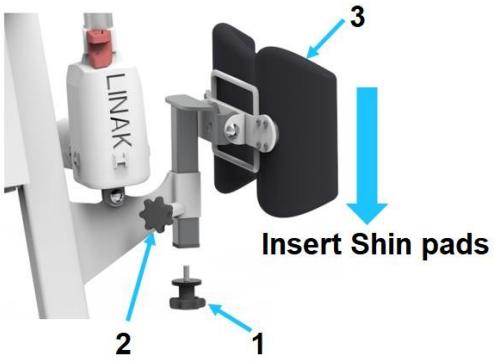


Figure 17c –Shin pads height adjustment (Clamping knob located downwards)

6.10. Sling

The back belt sling is essential to the lift, ensuring the patient's safety during transfers. Proper positioning of the sling on the patient is crucial and should be done following the instructions.

In the Elevand model, the back belt sling is secured by clipping it onto the sling attachment hooks located on the lifting arm (Figure 18)

Figure 18 – Attaching the clip to the sling attachment hooks on the lifting arm

When removing the unit, push the levers and lift the clip (Figure 19).

Figure 19 – Detaching the clip from the sling attachment hooks on the lifting arm

7. CLEANING AND DISINFECTION

CAUTION!

Each time the patient changes, the Elevand PowerStand ELS must be cleaned and disinfected before being used again.

CAUTION!

Before cleaning, make sure that:

- All plugs are properly connected.
- The battery is mounted on the controller.
- No electrical components indicate external damage. Failure to do so may result in the ingress of water or cleaning agents and cause interference with the device or damage to electrical components.
- Electrical parts must not be washed with a water jet or pressure washers, etc. They can only be cleaned with a damp cloth.
- If there is a suspicion that water or liquid agents flew into the electrical parts, stop the lift and immediately report the event to the service centre.
- If the above rules are not observed, serious damage to the device and further unforeseen consequences may occur.

Cleaning is essential for effective chemical disinfection. Routine cleaning suffices when the lift is used consistently by the same patient. Disinfection becomes necessary only when the material is visibly contaminated or exposed to potentially infectious substances (such as blood, stool, and pus) or when caring for infected patients, as a doctor advises.

7.1.Cleaning Patient Contact Surfaces

1. Clean the handle surfaces:

   - Remove all straps and detach any non-lift components

   - Clean the surfaces using mild and environmentally friendly cleaning agents (e.g., Icodin Foam). This also applies to cleaning the manual switch.

- Follow the manufacturer's instructions for cleaning the ING strap.

2. Avoid wetting the patient’s lifting strap.
3. Use Icodin Foam to disinfect accessible areas of handles and construction components.
4. Disinfect casters only if they come into visible contact with infected or potentially infected material.
5. Do not use:

- Pastes, waxes, or sprays.
- Strong detergents, solvents, or cleaning agents containing solvents, alcohol, or leather cleaners.

Using such agents may lead to stiffness, materials cracking, or surface gloss changes, which are not covered under warranty.

8. MAINTENANCE

CAUTION!

If the device is not used for a longer period, it is recommended that all electrical and mechanical parts be checked once a month by performing a test lift without the patient. In addition, the charger cables after each mechanical load or after changing the location of the lift should be manually checked for possible damage.

8.1. Maintenance of support structure mechanism

1. Clean metal parts of the structure using a soft, damp cloth, ensuring surfaces are dried thoroughly afterwards. Avoid using cleaning products containing alcohol.
2. Lubricate all movable components every six months or when loud noises occur during operation. These components include casters, actuators, bearing sleeves, and joints of the base legs and lifting arm. Recommended lubricants include commercially available penetrating and lubricating preparations (e.g., Wurth HHS 2000). Any excess lubricant should be promptly removed with a dry cloth.
3. Periodically inspect threaded connections every six months. Address any detected looseness promptly. Report unresolved issues of unavoidable looseness to the manufacturer's Service and discontinue device use until resolved. Notify the manufacturer's service department of any irremovable backlash on connections and cease device operation until the issue is resolved.

8.2. Periodic inspection

The lift requires inspection annually as per EN 10535:2012 recommendations or after 8000 cycles, whichever comes first (refer to section 6.3), and after any failure or repair. The inspection must be conducted by authorised service personnel and should include at least the following:

- Visual inspection focuses on the structure of the load-supporting device, the primary actuator and its mounting, the brakes, and the control devices.
- Verify the proper functioning of all device control functions.
- Maintenance of the support structure mechanism (refer to section 8.1).
- Test the load capacity with the maximum load for one lifting cycle.

Maintain a detailed repair register documenting all repair actions, defects, damages, remarks, and safety-related observations, along with the inspection date. Ensure slings are inspected according to the manufacturer's recommendations at least every six months.

8.3. Expected lifetime of the device

CAUTION!

The expected lifetime of the device, in normal use and under normal circumstances, apart from back belt slings and batteries, is 7 years when serviced according to the instructions.

After seven years from the date of production of the device and its accessories, the manufacturer bears no responsibility for defects in the device and its accessories, nor for any resulting consequences. The manufacturer also disclaims responsibility for any consequences that may arise from factors such as incorrect installation of the device, incorrect diagnosis, improper use of the device and its accessories, misinterpretation of instructions, or repairs performed by unauthorised persons.

9. TROUBLESHOOTING

Symptoms of malfunction	Description of the procedure
The unit does not respond to the hand control function activated	1. Check if the emergency stop is activated 2. Check the status of the battery 3. Check if the hand control cable is connected 4. Check if the battery is properly connected 5. Check if the charging cable is connected 6. Check the connection of the other wires 7. Check if the service led flashes 8. Check if the device reacts to the activation of the raise/lower function on the controller 9. Contact service
The device does not react to the controller function activated	1. Check if the emergency stop is activated 2. Check the status of the battery 3. Check if the battery is properly connected 4. Check if the charging cable is connected 5. Check the connection of the other wires 6. Check if the service led flashes 7. Contact service
The device is not charging	1. Check if the emergency stop is activated 2. Check the status of the battery 3. Check if the battery is properly connected 4. Check if the charging cable is connected 5. Check if the service led flashes 6. Contact service
Interruption of the device during patient lifting	1. Check if the overload indicator flashes 2. Check the status of the battery 3. Check if the service led flashes 4. Check if the device reacts to the activation of the raise/lower function on the controller 5. Lower the lift manually 6. Contact service
The device produces abnormal noises (cracking, cross-over, etc.)	1. Contact service
The device cannot be moved	1. Check that the brakes on the rear wheels are applied 2. Contact the service

If the fault symptoms persist, stop using the lift immediately and contact the Dealer for further instructions.

10. RECYCLING INFORMATION

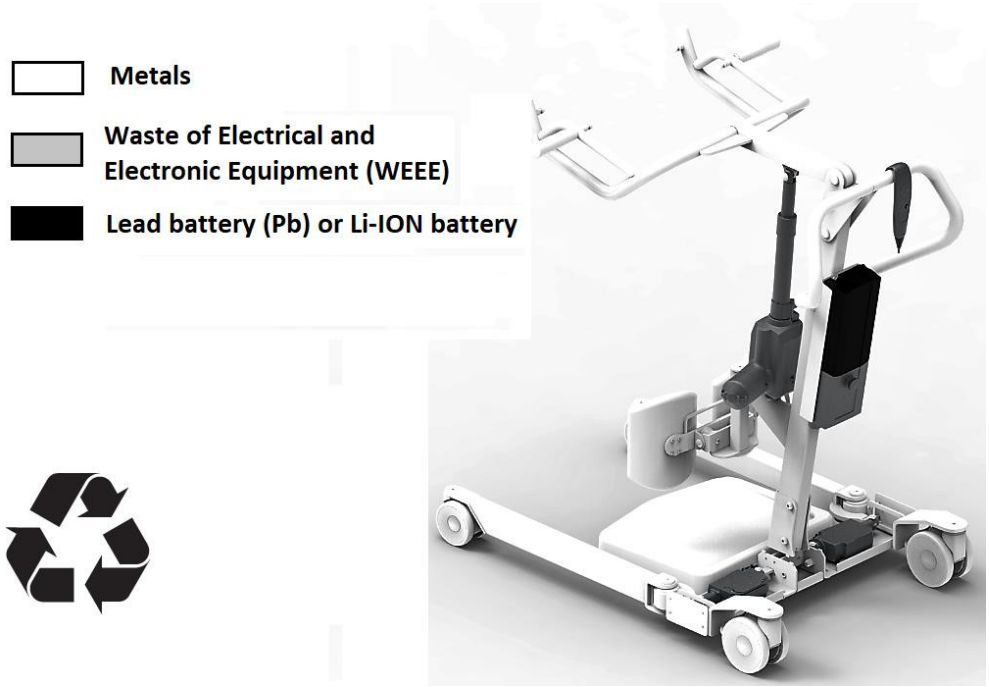


Figure 20 - Elevand PowerStand ELS recycling

11. ELECTROMAGNETIC COMPATIBILITY – GUIDANCE AND MANUFACTURER'S DECLARATION

Warning: Avoid using this equipment adjacent to or stacked with other devices, as it may affect its proper operation. If unavoidable, closely monitor both this equipment and others to ensure regular operation.

Warning: Using accessories, transducers, or cables not specified or provided by the manufacturer may increase electromagnetic emissions or reduce the equipment's electromagnetic immunity, resulting in improper operation.

Warning: Portable RF communications equipment, including antenna cables and external antennas, should maintain a minimum distance of 30 cm (12 inches) from any part of this equipment, including manufacturer-specified wires, to avoid potential degradation of equipment performance.

Warning: Although this device may be susceptible to electromagnetic disturbances, it maintains Basic Safety and Essential Performance.

Essential Performance: Documentation from the risk management process indicates that this product does not compromise essential functional characteristics.

**Elevand PowerStand ELS*

Guidance and manufacturer's declaration – electromagnetic emissions		
The equipment* is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment* should assure that it is used in such an environment.		
Emissions test	**Compliance**	**Electromagnetic environment – guidance**
RF emissions CISPR 11	Group 1	The equipment* uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The equipment* is suitable for use in all establishments, including domestic establishments and those directly connected to the public low- voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity			
The equipment* is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment* should assure that it is used in such an environment.			
IMMUNITY test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV (contact) ± 2/4/8/15 kV (air)	± 8 kV (contact) ± 2/4/8/15 kV (air)	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines 100 kHz	±2 kV for power supply lines 100 kHz	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U_T; 0,5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T; 1 cycle and 70 % U_T; 25/30 cycles (50/60Hz) 1 phase: at 0° 0 % U_T; 250/300 cycles (50/60Hz)	0 % U_T; 0,5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T; 1 cycle and 70 % U_T; 25/30 cycles (50/60Hz) 1 phase: at 0° 0 % U_T; 250/300 cycles (50/60Hz)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the equipment* requires continued operation during power mains interruptions, it is recommended that the equipment* be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE U_T is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity			
The equipment* is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment* should assure that it is used in such an environment.			
IMMUNITY test	**IEC 60601 TEST LEVEL**	**Compliance level**	**Electromagnetic environment – guidance**
Conducted RF IEC 61000-4-6	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment*, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
Radiated RF IEC 61000-4-3	10 V/m 80MHz do 2,7GHz	10 V/m 80MHz do 2,7GHz	
Proximity fields from RF wireless communications equipment IEC 61000-4-3	EN 60601-1-2:2015, Table 9 *(see below)*	Complies	
	□ *home healthcare environment*	□ *home healthcare environment*	

Proximity fields from RF wireless communications equipment						
Test frequency (MHz)	**Band [a] (MHz)**	**Service [a]**	**Modulation [b]**	**Maximum power (W)**	**Distance (m)**	**Immunity test level (V/m)**
385	380 –390	TETRA 400	Pulse modulation [b] 18 Hz	1,8	0,3	27
450	430 – 470	GMRS 460, FRS 460	FM [c] ± 5 kHz deviation 1 kHz sine	2	0,3	28
710 745 780	704 – 787	LTE Band 13, 17	Pulse modulation [b] 217 Hz	0,2	0,3	9
810 870 930	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation [b] 18 Hz	2	0,3	28
1720 1845 1970	1700 – 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation [b] 217 Hz	2	0,3	28
2450	2400 – 2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation [b] 217 Hz	2	0,3	28
5240 5500 5785	5100 – 5800	WLAN 802.11 a/n	Pulse modulation [b] 217 Hz	0,2	0,3	9
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.						
[a] For some services, only the uplink frequencies are included. [b] The carrier shall be modulated using a 50 % duty cycle square wave signal. [c] As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.						

12. WARRANTY CARD

1. The seller (authorised representative, distributor) provides a 24-month warranty from the equipment purchase date, as evidenced by the proof of purchase.
2. The seller (authorised representative, distributor) assumes responsibility for any defects, whether in quality or quantity, detected immediately after unpacking the product from its original shipment packaging, provided they are reported in writing within two working days of delivery.
3. Warranty service will only be performed by the seller's authorised service team (authorised representative, distributor) or other manufacturer-authorised technicians.
4. If the repair takes more than three days, the warranty period will be extended by a duration equal to the device's total downtime.
5. If a faulty subassembly requires repair three times, the manufacturer must replace it with a new one.
6. To maintain warranty coverage, the user must ensure all maintenance services described in the manual.
7. Failure to observe installation and operation instructions releases the manufacturer from responsibility for user or patient safety during device use.
8. The warranty excludes parts and material faults resulting from natural wear and tear, distinct from material or workmanship defects, and issues arising from inadequate maintenance (e.g., valves, bearings, guides, fans, etc.).
9. The seller (authorised representative, distributor) is not liable for consequential or incidental losses, including loss of profits or costs incurred due to failure to follow installation and user manual instructions.
10. The seller (authorised representative, distributor) assumes no liability under this warranty for any consequential or incidental losses, including loss of profits or costs incurred due to equipment failure.
11. Faults occurring within the warranty period but not reported to authorised service are not covered.
12. Costs resulting from an unjustified claim are the responsibility of the user.
13. The warranty does not cover equipment:

- Damaged by fire, lightning, or force majeure
- With removed or damaged nameplates, serial numbers, or factory seals
- Damaged due to use outside the defined operation manual specifications
- Repaired or modified by unauthorised personnel
- Mechanically damaged due to improper handling or transportation

14. No new documentation will be issued if warranty-covered equipment is resold.
15. The warrantor will not provide a duplicate of the Warranty Card.
16. This warranty does not waive, restrict, or suspend your statutory rights as a consumer.

	Elevand PowerStand ELS										***Date, signature and stamp Guarantee:***
SN:						**-**					

Repair registry	**User comments**
