

LUNA[®] X5

USER MANUAL (EN)

LUNA[®] X5 CEILING HOIST



Important Information

The user manual shall be read before using the product.

The user manual is intended for all persons involved in the use, servicing, and maintenance of the LUNA[®] X5.



Version: 0

Date: 15-10-2024

Scan the QR code for more information

CONTENTS

1	FOREWORD	4
1.1	Contents	4
1.2	Glossary	4
1.3	Symbol Explanation	4
1.4	Marking	5
2	PURPOSE, SAFETY AND USE	6
2.1	Purpose and Use	6
2.2	Essential Performance	6
2.3	Contraindications	6
2.4	Safety instructions	7
2.5	Check before use	8
2.6	Terminology	9
2.7	Unpacking	9
2.8	Transport and Storage	9
3	INSTALLATION AND OPERATION	10
3.1	Mounting the track system	10
3.2	Mounting and detaching the LUNA® X5	10
3.3	Mounting and detaching of the spreader bar	12
3.4	Pictograms and functions	14
3.5	Operating	16
3.6	Operating safety functions	16
3.7	Charging	17
4	USING THE LUNA® X5	18
4.1	Using lifting slings	19
4.2	Transfer guide	20
4.3	Using the LUNA® X5 in a shower or bathing environment	21
5	MAINTENANCE	22
5.1	Cleaning	22
5.2	Storage	22

6 CHECK, WARRANTY AND TROUBLESHOOTING 22

6.1 Annual inspection 22

6.2 Trouble shooting 25

6.3 Technical specifications 27

6.4 Dimensions 27

7 ENVIRONMENT AND QUALITY 28

7.1 Expected Lifetime 28

7.2 Disposal 28

7.3 Battery 28

7.4 Quality Certifications 28

8 ACCESSORIES 29

9 EMC data 33

1 FOREWORD

1.1 Contents

Read this user manual thoroughly before using the LUNA® X5!

To ensure proper use and maintenance of the LUNA® X5, it is important that you read this user manual carefully.

The information in this manual is provided to prevent potential personal injury and ensure that the product meets your expectations.


We aim for high customer satisfaction, and a part of that is to ensure that you are familiar with your product.

The user manual will cover the following:

- What the product consists of.
- For what the product is used.
- Who can use the product.
- How to ensure proper use of the product.
- How to ensure proper maintenance of the product.
- How to troubleshoot the most common errors that can occur on the product.
- Information about warranty, technical data, cleaning, and proper disposal of the product.






1.2 Glossary









In this user manual, the following terms are used to clarify and emphasize the importance of the written instructions:

NOTICE!	Pay attention to.	WARNING! 	A message that acting or not acting in a certain way can have unpleasant consequences.
----------------	-------------------	--	--

1.3 Symbol Explanation

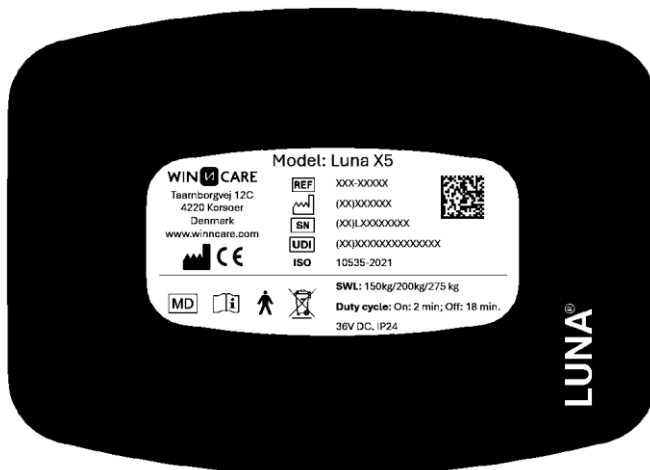
The following symbols will appear during the use of the product and have the following meanings:

	The product must be recycled where it's possible		Type B, indicates parts that are generally non-conductive. These parts can be connected to ground and the user can be immediately released from the part. In accordance with IEC 60601-1
	Direct current		Refer to the user manual
	Double insulated	SWL	Safe working load (SWL) = (user + sling)

	Manufacturer symbol, indicates the producer of medical equipment		Conformity with applicable EU regulations
	Medical device according to Regulation (EU) 2017/745		Manufacturer's catalog number to identify the medical device
	Production date, the date that the medical device was manufactured		Manufacturer's serial number to identify specific medical devices
	Unique device identifier, carrier containing human-readable information about the unique product		International Organization for Standardization, organization that provides ISO certifications if the company complies with the regulatory requirements of the standard

1.4 Marking

The label is located on the back of the LUNA[®] X5 and displays the following information in accordance with EU legislation (MDR 2017/745):



2 PURPOSE, SAFETY AND USE

2.1 Purpose and Use

The LUNA® X5:

- Is intended for transferring people with reduced mobility in care institutions and home care. Either in a sitting or lying position (see section 4.2).
- Is to be used by individuals with the relevant training or education in the use of the ceiling hoist.
- Can be used as a ceiling-mounted hoist as well as a portable hoist unit in portable gantry and permanently installed track systems.
- Optional equipment can be connected by replacing the standard side panel on the ceiling hoist with a side panel with an ext. output.
Attaching the panel with output and connecting the corresponding plug is described in the user manual for the specific additional equipment, to be used.
- Can easily be disconnected from and reconnected to the track systems, making it usable by multiple users after thorough cleaning (section 5.1).

2.2 Essential Performance

Intended use: For lifting and lowering the user.

If the LUNA® X5 fails, the user can always be lowered by using the emergency lowering button, or lowered unpowered using the emergency lowering key. (see section 3.6).

The LUNA® X5 is designed to meet the highest standards of safety and durability. With a corrosion classification of C1 according to ISO 12944-5:2019, it is ideal for use in low-corrosive environments. This ensures that the product remains in good condition with minimal maintenance. It is important to follow Winncare's recommendation of servicing every 6 months in aggressive environments to maintain the safety and condition of the ceiling hoist without corrosion damage (see section 6.1).

2.3 Contraindications



WARNING!

Ensure that all contraindications are understood and addressed to prevent potential risk.

When using the Luna X5, there are the following contraindications you should be aware of:

- **The users Physical and Mental Condition:**
Are there any serious medical or psychological conditions that prevent a transfer from being carried out without causing further harm to the user?



WARNING!

In any doubt of the user's medical condition, always consult with a healthcare professional.

- **Weight Limitations:**
Is the lifting capacity of the ceiling hoist, tracks, and sling being followed?

(See section 2.4).

- **Training and Education:**
Does the person using the ceiling hoist have the proper training or education to avoid injuries and accidents? (See section 2.5).
- **Environmental Conditions:**
Is the ceiling lift installed in an appropriate environment for its design, or is it installed in a more aggressive environment such as a chlorinated or humid environment, which requires extra attention?
(See section 2.2, 4.3, 5.2 and 6.1).
- **Regular Maintenance:**
Has regular maintenance and inspection been performed to reduce the risk of malfunctions and accidents?

2.4 Safety instructions

NOTICE! Read the safety instructions carefully before using the product

- All parts must be correctly mounted according to this manual.
- There must be no signs of wear or damage on the ceiling hoist, lifting strap, track system or sling.
- NEVER begin lifting if a defect is detected (abnormal sounds, loose brackets, etc.) In such cases the ceiling hoist must be taken out of service immediately and your dealer or WinnCare, must be contacted.
- The lifting capacity of the LUNA® X5 is set to 200 kg (440 lbs) SWL (safe working load) by default, but the same lifting module can be changed to a lifting capacity of 150 kg (330 lbs) or 275 kg (606 lbs).
When the ceiling hoist is used together with other components in transfer situations, such as slings and track systems, it is always the component with the LOWEST lifting capacity that sets the limit for the maximum weight.
(See section 3.1).



WARNING!

Always ensure that the components for the transfer situation are designed/installed for the same weight capacity as the lifting module!

- When attaching slings, ensure that the ceiling hoist and spreader bar do not hit the user.
- A person with relevant education or training in ceiling hoist transfers must always be present when using the LUNA® X5.
- Ensure that the surroundings are clear, that the spreader bar and ceiling hoist do not hit the user and generally take care not to injure the user or caregiver.
- Never lift the user higher than necessary for the transfer.
- According to EMC 60601-1-2, section 5.2.1. Electrical interference from portable RF communications equipment including antennas, can affect medical electrical equipment and should not be used within a minimum distance of 30 cm (12 Inches) from the LUNA® X5. If such use is necessary, this equipment and other equipment should be monitored to verify that they are functioning normally.

2.5 Check before use


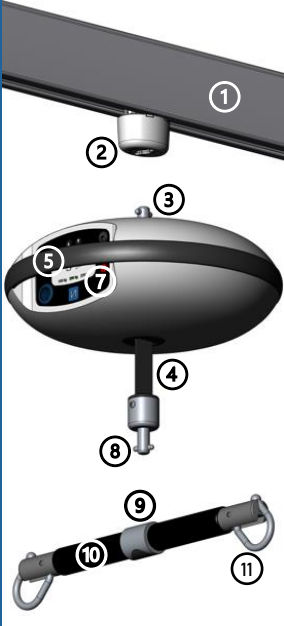
The owner of the LUNA® X5 is responsible for ensuring that the ceiling hoist and any accessories are checked for the following before use:

- The person using the ceiling hoist has the relevant education or training in the use of the ceiling hoist.
- The ceiling hoist is being used with track systems produced or approved by Winncare.
- That the installation of the system is carried out by installers authorized by Winncare.
- The ceiling hoist is only equipped with spreader bars from Winncare.
- That the lifting sling is suitable for the specific transfer. (See the sling brochure for specific information).
- The ceiling hoist is intended for use under normal temperatures (+2°C/35.6°F to +40°C/104°F) and relative humidity (40 – 90%).
- If the ceiling hoist is used near a shower system or bath, make sure that the ceiling hoist is not submerged (see section 4.3).
- The Luna has undergone the extended annual inspection if installed in chlorine-containing or other aggressive environments (see section 6.1).

Safety Check:

- The lifting strap on the ceiling hoist must be checked for wear or damage. If there is any indication of a defect, the ceiling hoist must be taken out of service.
- Check that the emergency stop is working. After activating the emergency stop, reset it again by holding down the reset button **(11)** for 5 seconds (See section 3.4).
- Check the up/down function. If there are any unusual noises, the ceiling hoist must be taken out of use until it has been inspected by qualified personnel.
- When checking the up/down function, ensure that the strap does not fold or twist. Also, check that the strap runs freely into the ceiling hoist.
- Check the lifting sling for damage, paying particular attention to the lifting straps. If a defect is found, the sling shall not be used. (See the user manual for the specific sling being used, for further information).
- In case of doubt regarding the use of the ceiling hoist or lifting sling, Winncare can be contacted for advice and guidance.

2.6 Terminology

LUNA® X5 mounted with strap in track	Description	LUNA® X5 mounted directly in the track
	<ol style="list-style-type: none"> 1. Track system 2. Bayonet socket 3. Bayonet fixing point 4. Strap 5. Carry handle 6. Manual emergency lowering 7. Front panel with function keys and connection of hand control 8. Bayonet fixing point 9. Bayonet socket 10. Spreader bar 11. Hooks for the slings lifting straps 	

2.7 Unpacking

During unpacking, it must be checked that all parts are present and undamaged. If there is any suspicion of damage or missing parts, contact your dealer or Winnicare.

Contents of the box:

- 1) LUNA® X5
- 2) User manual



2.8 Transport and Storage

It is recommended that the LUNA® X5 is transported and stored in its original packaging to avoid damage to the product.

The ceiling hoist can withstand a transport temperature of (-10 to +40°C) and a relative humidity from (20% - 80%).

3 INSTALLATION AND OPERATION

3.1 Mounting the track system

The track system must be installed according to Winncare's installation guide.

The installation guide can be acquired from Winncare.

3.2 Mounting and detaching the LUNA® X5



The LUNA® X5 can be mounted in two different ways to meet specific needs. The decision on the mounting method is made in consultation between the buyer and Winncare or Winncare's dealer.



WARNING!

Be aware that the LUNA® X5 weighs 5.2 kg (11,5 lbs).

The LUNA® X5 is pre-configured for mounting in one of the following ways:

LUNA® X5	Mounted on track	Mounted on strap
Mounting	<ol style="list-style-type: none"> 1) Lift the ceiling hoist up to the ceiling track. 2) Press the ceiling hoist up against the bayonet fitting on the track and turn the hoist a quarter turn clockwise. When it can no longer be turned, it is mounted. (Fig. 3.2A). <p> Warning! Always check that the LUNA® X5 is correctly mounted before use.</p>	<p>NOTICE! LUNA® X5 mounted on a strap can be installed with an extension arm. (Fig. 3.2E).</p> <ol style="list-style-type: none"> 1) Lift the strap from the ceiling hoist up to the ceiling track. 2) Press the strap with the extension arm against the track's bayonet fitting and turn a quarter turn clockwise. When it can no longer be turned, it is mounted. (Fig. 3.2B). <p> Warning! Always check that the LUNA® X5 is correctly mounted before use.</p>
Detaching	<ol style="list-style-type: none"> 1) Press the hoist against the track. 2) Turn the hoist a quarter turn anti-clockwise. The hoist is detached. (Fig. 3.2C). 	<p>NOTICE! LUNA® X5 suspended with a strap can be removed with an extension arm. (Fig. 3.2F).</p> <ol style="list-style-type: none"> 1) Optionally, start by lowering the ceiling hoist into a holder on a portable table. 2) Press the strap against the track and turn a quarter turn anti-clockwise. The hoist is detached. (Fig. 3.2D).

**Illustration
mounting**

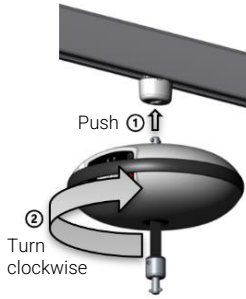


Fig. 3.2A

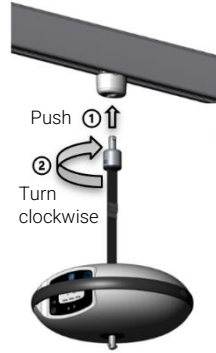


Fig. 3.2B

**Illustration
detaching**

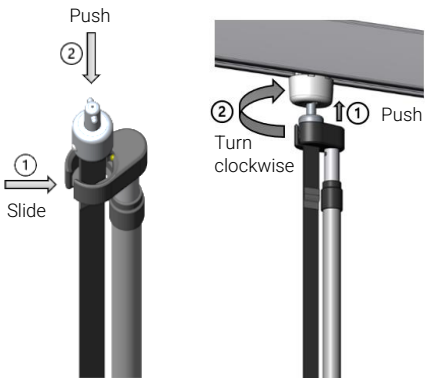


Fig. 3.2C



Fig. 3.2D

Use of Extension Arm for the LUNA® X5 Suspended with Strap: 

Extension Arm	Usage	Illustration
<p>Mounting</p> <ol style="list-style-type: none"> 1) Place the strap from the ceiling hoist into the slot on the extension arm and click the bayonet into the bayonet holder. 2) Bring the bayonet up to the bayonet fitting on the track using the extension arm. 3) Push the bayonet up and turn a quarter turn clockwise. 		 <p>Fig. 3.2E</p>

Detaching

- 1) Hold onto the strap of the ceiling hoist and place it in the slot on the bayonet holder.
- 2) Move the bayonet holder up along the strap and place the bayonet into it.
- 3) Push the bayonet up and turn a quarter turn anti-clockwise.
- 4) Pull the bayonet out of the bayonet holder and guide the strap out through the slot.

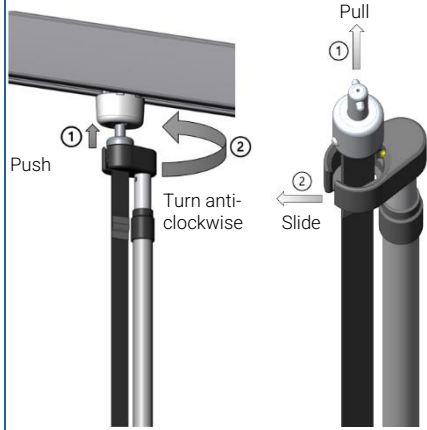


Fig. 3.2F



The extension arm and the LUNA® X5 combo table can be purchased by contacting Winncare.

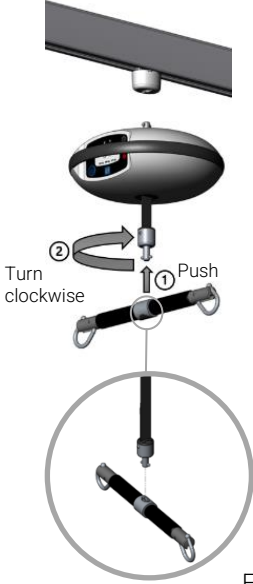
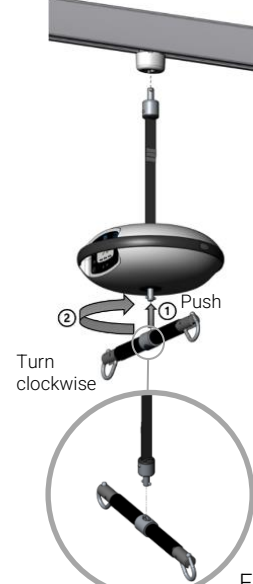
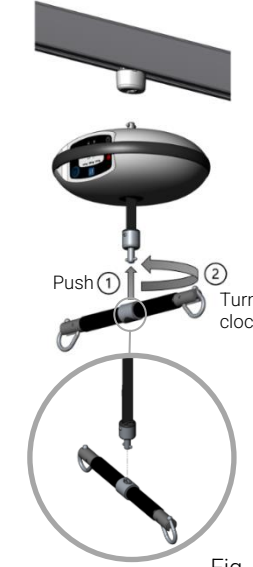

See the order number in Chapter 9, "Accessories."

3.3 Mounting and detaching of the spreader bar

NOTICE! Winncare will assist in the selection and correct use of the spreader bar.

Depending on how the Luna is mounted, the spreader bar can be attached in one of the following ways:

Spreader bar	With the LUNA® X5 mounted on track	With the LUNA® X5 mounted on strap
Mounting	<ol style="list-style-type: none"> 1) Lift the spreader bar up to the strap and place it onto the strap's bayonet socket. 2) Press the strap and spreader bar together and turn the spreader bar a quarter turn clockwise When it can no longer be turned, it is mounted. (Fig. 3.3A) <p> WARNING! Ensure it is correctly mounted before use.</p>	<ol style="list-style-type: none"> 1) Lift the spreader bar up to the ceiling hoist and place it on the bayonet. 2) Press the spreader bar up and turn it a quarter turn clockwise. When it can no longer be turned, it is mounted. (Fig. 3.3B) <p> WARNING! Ensure it is correctly mounted before use.</p>

Detaching	<ol style="list-style-type: none"> 1) Grasp the spreader bar and the strap's bayonet. 2) Press them together and turn the spreader bar a quarter turn anti-clockwise until it is dismantled. 	<ol style="list-style-type: none"> 1) Press the spreader bar up against the ceiling hoist. 2) Turn the spreader bar a quarter turn anti-clockwise until it is dismantled.
Illustration mounting	 <p>Turn clockwise ② ① Push</p> <p>Fig. 3.3A</p>	 <p>Turn clockwise ② ① Push</p> <p>Fig. 3.3B</p>
Illustration detaching	 <p>Push ① ② Turn anti-clockwise</p> <p>Fig. 3.3C</p>	 <p>Push ① ② Turn anti-clockwise</p> <p>Fig. 3.3D</p>

3.4 Pictograms and functions

① **ON**

The ON symbol on the remote control lights up green when the up (3), down (4), or side buttons (12) are pressed. This indicates that the buttons are activated.

② **Battery**

Indicates the battery level (see explanation in section 3.7).

③+④ **Up/Down**

Hold one of the buttons down, and the hoist will lift/lower in the selected direction. Release the button to stop the hoist.

⑤ **Power plug**

⑥ **Emergency Lowering**

Used ONLY in situations where it is not possible to lower the user normally. Continue to press the button, and the user is lowered gently and safely (see section 3.6).

⑦ **STOP**

Press the stop button for an immediate emergency stop. The LED will then light up red to indicate that the emergency stop is activated. The emergency stop function can be deactivated, see (11) "reset".

⑧ **Service**

The symbol with a wrench indicates the need for service on the ceiling hoist using various color codes. (Read more about the periodic inspection in section 6.1)

⑨ **Weight**

Indicates the lifting capacities (SWL - Safe Working Load) that can be selected. Lights up green when the hoist is set to

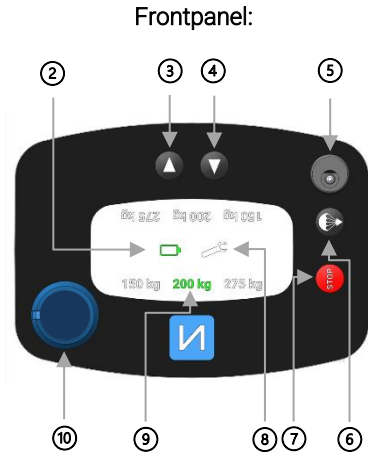


Fig. 3.4A

Hand control:

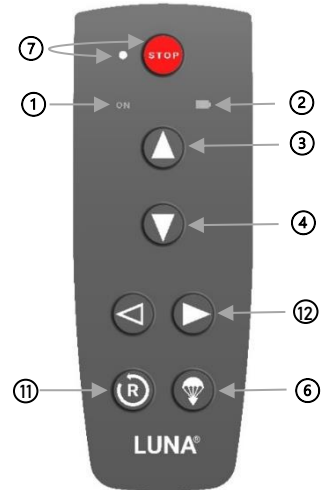


Fig. 3.4B

the selected weight capacity.
 The preset weight blinks red if the load exceeds the selected weight limit. In this case, the user can **only** be lowered because of safety reasons.
 For further description, request an installation guide. (See section 3.1).

⑩ **Plug socket for hand control**

For correct connection of the hand control, the slot of the plug must be aligned with the marking on the socket (Fig. 3.4C).

The hand control plug can rotate 220 degrees if the ceiling hoist needs to be turned around (Fig. 3.4D).



WARNING!

If the ceiling hoist needs to be turned around, make sure that the plug is positioned behind the LUNA® X5's handle to prevent damage to the plug.

⑪ **Reset**

Used to reset emergency stop.
 Hold the reset button for 5 seconds.
 The emergency LED will turn off, and the hoist is now activated.

⑫ **(Add-on) Side panel with Ext. output + Right/left buttons**

Add-on side panel with ext. output for connecting extra equipment and associated right/left buttons. This function may be used for the Luna Mover ceiling hoist or for electric spreader bar. This accessory can be purchased from WinnCare. (See section 8).

NOTICE! This function is not included as standard but can be used with the purchase of a remote control with side buttons and a front panel with plug + cable. (See section 9).

⑬ **Label**

Information about the label can be found in section 1.4.



Fig. 3.4C



Fig. 3.4D

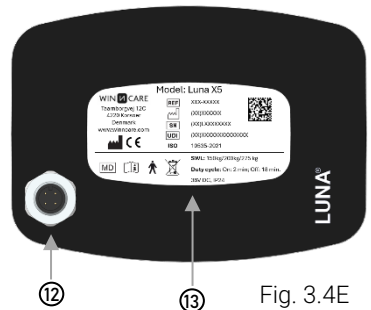


Fig. 3.4E

3.5 Operating

The LUNA® X5 is ready for use, when it is correctly assembled, and the spreader bar is also properly installed.

In this section, reference will be made to the buttons from the previous section “Pictograms and functions”.

When the hand control is connected to the socket on the front panel, the ceiling hoist will start up in emergency stop mode (this is to ensure that the condition of the ceiling hoist is assessed before use). To release the emergency stop, press and hold “reset” **(11)** for 5 seconds.

Test the up and down functions **(3+4)**, before using the ceiling hoist.

The ceiling hoist will move faster when not loaded to reach the user quickly. When the user is lifted, the speed will automatically reduce to increase the comfort and safety for the user.

3.6 Operating safety functions

Emergency-stop (7):

This function is only used in emergency situations where an unintended action must be stopped immediately. The emergency stop is located on the hand control and on the front panel of the hoist. If the emergency stop is activated, all functions stop and the LED on the hand control by the “emergency stop” button lights up red.

To deactivate the emergency stop, press and hold the “reset” button **(11)** for 5 seconds.



WARNING!

After using the emergency stop, it is important to ensure that it is safe and secure to proceed with the transfer.

Emergency lowering button (6):

Emergency lowering should only be used in an emergency, where it is not possible to lower the user as usual. The emergency lowering button is placed on the hand control and front panel illustrated as a parachute. To activate the emergency lowering, press and hold the button on the hand control or front panel for 5 seconds. The ceiling hoist will continue to beep while the button is held down. After 5 seconds the ceiling hoist will lower the patient. The button must be held down to continue lowering the patient.

NOTICE! If a situation occurs where you cannot use the hand control, you can still use the up/down buttons **(3+4)** and emergency lower **(6)** on the front panel. If the hand control is not connected to the ceiling hoist, there is no hold function, and the user will slowly and safely be lowered. If nothing works, use the manual emergency lowering function, as described in the next section.

Manual emergency lowering:

Fig. 1) Remove the emergency flap located on the side of the LUNA® X5.

Fig. 2) Behind the emergency release flap, you will find an integrated manual emergency release key.

Fig. 3) Insert the integrated emergency key into the screw hole located next to it and turn the key counterclockwise to emergency lower the user.



Fig. 3.6A



Fig. 3.6B



Fig. 3.6C



WARNING!


After activation of emergency lowering, it is important to inspect the hoist for any faults and to address them before the hoist is used again. In case of doubt, contact Winncare or dealer.




3.7 Charging

The LUNA® X5 can be charged in one of three ways:

- By placing the hand control in the charging station mounted on the wall (hand control holder).
- From a charger in the track system that is connected to the power socket in the ceiling hoist.
- From a charger connected to a wall socket and the power plug in the ceiling hoist.

NOTICE! The LUNA® X5 is fitted with batteries that require regular charging. Winncare recommends that the ceiling hoist is charged every night or when the unit is not in use.

The LUNA® X5 is equipped with a battery icon () on the hand control and front panel of the hoist that provides the following information about the battery condition during use:

Diode color	Description
<p data-bbox="180 371 244 395">Green</p> 	<ul style="list-style-type: none"> <li data-bbox="376 260 972 341">• When charging starts, the battery icon on the hand control lights up green and the battery icon on the front panel flashes green. <ul style="list-style-type: none"> <li data-bbox="471 346 972 400">○ After 2-3 minutes the flashing stops, but the ceiling hoist continues to charge. <li data-bbox="376 405 972 544">• To check the charging status, remove and insert the hand control into the charger. <ul style="list-style-type: none"> <li data-bbox="462 464 972 544">○ A steady light indicates that the ceiling hoist is fully charged. The light turns off after 2 minutes.
<p data-bbox="176 608 247 632">Yellow</p> 	<ul style="list-style-type: none"> <li data-bbox="376 569 972 651">• The battery icon on the ceiling hoist and the hand control lights up yellow to indicate that the battery is half (50%) discharged. <li data-bbox="376 655 990 710">• Charging is recommended to avoid undercharging the battery.
<p data-bbox="191 815 232 839">Red</p> 	<ul style="list-style-type: none"> <li data-bbox="376 734 938 815">• The battery icon on the ceiling hoist and the hand control lights up red to indicate that the battery is down to a critical point. <li data-bbox="376 820 978 901">• The battery icon flashes, and an acoustic signal (a “beep” signal) is emitted each time the ceiling hoist is used at this battery level. <li data-bbox="376 906 852 960">• Put on charge IMMEDIATELY and charge continuously for a minimum of 5 hours.

NOTICE! The LUNA® X5 cannot be overcharged.

4 USING THE LUNA® X5

The LUNA® X5 is ready for use if all the assembly instructions have been followed correctly.

NOTICE! The two carry handles placed on the LUNA® X5, is only used for installation/transportation.

4.1 Using lifting slings

The LUNA® X5 lift spreader bar is designed for use with Winncare's lifting slings. Winncare lifting slings have 2-6 lifting straps and are designed for slings with loop straps.

If a lifting sling from an unapproved manufacturer is used or if the lifting sling is not properly attached to the spreader bar, Winncare takes no responsibility for any errors or accidents. It is always the responsibility of the person using the hoist, to ensure that the lifting sling is suitable for the situation and properly mounted.

Winncare assists in the selection and correct use of Winncare lifting slings.

NOTICE! Always follow the user manual for the specific sling.

Attaching slings to the Winncare spreader bar

Hygienically the hook can be opened/closed without directly touching the hook.

It is done like this:

- (1) Hold the spreader bar with one hand and place the loop strap around the hook and pull the strap towards yourself (Fig. 4.1A)

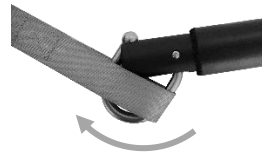


Fig. 4.1A

- (2) The sling strap is placed over the hook in its open position (Fig. 4.1B).
- (3) The sling strap is pulled downwards so that the hook locks (Fig. 4.1C).

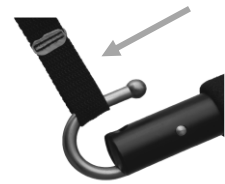


Fig. 4.1B

The design of the lifting hooks means that the user's weight will automatically keep the hooks in a closed position.

To release the sling strap after lifting, simply pull upwards to open the hook.

NOTICE: Follow the instructions above to avoid pinching fingers.



Fig. 4.1C

4.2 Transfer guide

NOTICE! Important information before lifting the patient!

- Plan the entire process of the lift in advance.
- Use the right sling in the right size for the user.
- Always follow the user guide for the sling in use.



WARNING! Be careful not to lowering the ceiling hoist or spreader bar onto the user.

Placing the sling under the user:

Lying position (e.g. floor or bed):	Seated position (e.g. wheelchair or toilet seat):
<ul style="list-style-type: none"> • Roll the user onto their side. • Place the sling in the middle of the user's back, according to the sling's center mark. • Roll the user to the other side and straighten the sling in a flat position. • Turn the user onto their back. • Bring the leg straps forward along the outside of the femur and under the user's legs according to the sling user manual. <p>Remember! To cross the leg straps if required.</p> <ul style="list-style-type: none"> • Move the LUNA® X5 into position above the patient and lower the lifting hanger to the appropriate height, parallel to the user's shoulders. • Attach the lifting straps to the lifting hooks and prepare to lift the user. 	<ul style="list-style-type: none"> • Assist or ask the user to lean forward. • Place the sling between the back support and the user. • Make sure the sling is in the center of the user's back according to the sling markings and pull the sling down until it reaches the user's buttocks. • Bring the leg straps forward along the outside of the femur and under the user's legs according to the sling user manual. <p>Remember! To cross the leg straps if required.</p> <ul style="list-style-type: none"> • Move the LUNA® X5 into position above the patient and lower the lifting hanger to the appropriate height, parallel to the user's shoulders. • Attach the lifting straps to the lifting hooks and prepare to lift the user.

The lifting process:

NOTICE! The Lifting process should be completed with the guidance of a moving and handling expert.

- Lift the user completely off the surface using the Luna hand control.
- Move the user to the desired position.
- Start lowering using the hand control and ensure that the user reaches the correct position.
- Remove the lifting straps from the lifting hanger when the user is correctly positioned and there is no more weight on the straps.
- Remove the sling using the same procedure as it was placed.

4.3 Using the LUNA® X5 in a shower or bathing environment

The LUNA® X5 unit is not waterproof. Therefore, always mount the ceiling hoist on the track (Fig. 4.3B) if it is to be used in situations where immersion in water is a potential risk.



Fig. 4.3A



Fig. 4.3B

The LUNA® X5 unit and the hand control can tolerate being sprayed with water. However, Winnicare recommends that the ceiling hoist is used as shown in (fig. 4.3B) and (fig. 4.3E). As written above, it may be an advantage to use the ceiling hoist mounted directly on the track as shown in (Fig. 4.3E).



Fig. 4.3C – Right



Fig. 4.3D – Wrong



Fig. 4.3E – Right

NOTICE! The LUNA® X5 hand control is classified as IP67, which means that it is dust and water resistant. The hand control can therefore withstand both spraying and immersion in water.



5 MAINTENANCE

5.1 Cleaning

The LUNA® X5 unit, the hand control and tracks can be cleaned and disinfected with common detergents and disinfectants:

- Universal cleaner with a neutral pH value of 6-9.
- Isopropyl alcohol (hospital-grade alcohol) with up to 99% Isopropanol.
- Chlorine-based products with up to 10.000 ppm.
(With prolonged or repeated exposure to a large amount of chlorine at high concentrations the product, and accessories may discolor and change texture).

Wipe the ceiling hoist and tracks with a clean cloth.

Chemicals and other strong cleaning agents must not be used.

5.2 Storage

The LUNA® X5 must be stored at normal indoor temperature (+2 to +40°C) and in a dry environment with relative humidity from (20% - 80%).

NOTICE! The LUNA® X5 should be fully charged before storing. The batteries will slowly discharge, so it is recommended that the ceiling hoist is recharged every 3 months to prevent the battery from being destroyed.


6 CHECK, WARRANTY AND TROUBLESHOOTING




6.1 Annual inspection

WinnCare recommends an annual inspection according to ISO 10535:2021, which must be performed by either WinnCare or other qualified technical personnel.

It is the responsibility of the owner of the product to ensure that the periodic inspection is complied with.

When replacing components, only original spare parts from WinnCare should be used to ensure the product's functionality and safety.

The LUNA® X5 is equipped with a service icon () on the front panel of the hoist, which provides the following information about the periodic inspection:

Diode Color	Description
<p data-bbox="176 309 247 336">Yellow</p> 	<p data-bbox="423 240 975 296">When there is 1 month left until the annual service of the LUNA® X5:</p> <ul style="list-style-type: none"> <li data-bbox="374 301 983 472">• The service icon lights up yellow for 30 seconds upon activation. <ul style="list-style-type: none"> <li data-bbox="435 360 983 472">○ During the periodic inspection, the ceiling hoist is reset, and the service icon stops glowing yellow until there is again 1 month left until the annual service.
<p data-bbox="174 560 249 587">Orange</p> 	<p data-bbox="423 491 983 547">When the LUNA® X5 has exceeded the annual service by 1 month:</p> <ul style="list-style-type: none"> <li data-bbox="374 552 983 722">• The service icon lights up orange until it goes into standby. <ul style="list-style-type: none"> <li data-bbox="435 611 983 722">○ During the periodic inspection, the ceiling hoist is reset, and the service icon stops glowing orange. When it is again time for the annual service, the light indication starts from yellow.
<p data-bbox="135 839 288 866">Orange + Beep</p> 	<p data-bbox="423 742 983 798">When the LUNA® X5 has exceeded the annual service by 2 months:</p> <ul style="list-style-type: none"> <li data-bbox="374 802 983 1029">• The service icon lights up orange until it goes into standby, and 3 "beep" signals will sound upon activation of the ceiling hoist. <ul style="list-style-type: none"> <li data-bbox="435 887 983 1029">○ During the periodic inspection, the ceiling hoist is reset, and the service icon stops glowing orange and beeping. When it is again time for the annual service, the light indication starts from yellow.

NOTICE! In cases where LUNA® X5 is to be used in countries with legal requirements for periodic inspections every 6 months, the service indicator can be adjusted to this by the technician. For further description, request an installation guide. (See section 3.1).

Extended inspection

When installing the LUNA® X5 and track systems in aggressive environments such as chlorinated swimming pools, spa areas, horse stables, or similar, special conditions apply.

In these environments, an inspection of the ceiling hoist must be performed every 6 months by Winncare or a technician trained by Winncare.

If wear, damage, or corrosion is found during service, these parts must be replaced, and every 5 years, all load-bearing components must be replaced. For replacements, ONLY original spare parts from Winncare should be used for safety reasons.



WARNING!

When using the LUNA® X5 in swimming pools and spa areas, the ceiling hoist must be mounted directly on the track to prevent the risk of immersion in water (See Fig. 4.3A and 4.3B).

Personal safety checks and technical inspections by a qualified technician must be carried out according to the following schedule:

Safety check	Before Use	Every 6 Months	Annually
Personal Safety Checks (Detailed in section 2.4)			
The LUNA® X5 can go up and down	•		
The lifting strap is intact	•		
No unusual noises from the LUNA® X5	•		
The emergency stop is working	•		
The hooks on the spreader bar are working	•		
Technical Periodic Inspection (Annually)			
Extended inspection (Every 6 month)			
Inspection of track system: <i>- Checkpoints without load</i>			
Attachment points to ceiling/wall		•	•
Tracks: joints and bolts		•	•
Trolleys: swivel joint, welds, wheels, and drive function		•	•
End stops		•	•
Check for signs of corrosion		•	•
Inspection of ceiling hoist: <i>- Control points with weight load SWL</i>			
Weight test of ceiling hoist and tracks		•	•
Visual check of ceiling hoist and hand control		•	•
Ceiling hoist and hand control, all buttons functioning		•	•
Test manual emergency lowering		•	•
Sling with no wear and tear (white inner core should not be visible)		•	•
Check the screws on the strap bayonet		•	•
Wires/cables are intact		•	•
Test charging function		•	•
Inspection of accessories:		•	•
Spreader bar for signs of damage		•	•
Door coupling: open/close function and safety stop		•	•
Functionality of hooks/attachment points and swivel joint of spreader		•	•

Warranty

A 5-year warranty is provided for the product. See the warranty terms at www.WinnCare.com

6.2 Trouble shooting

Error	Possible Cause	Solution
Red LED light at "STOP"	Emergency stop activated.	- Deactivate the emergency stop (see section 3.6).
Red LED light at "STOP" is blinking	Blown fuse.	<ul style="list-style-type: none">- Check if the flat fuse for the battery on the sideboard is blown, and if so, replace it with an identical fuse.- Check if the small round fuse on the main board is blown, and if so, replace it with an identical fuse.- If the round fuse on the main board blows again, replace the hand control or wiring and fuse.- If fuses blow again, call a service technician.
The hoist does not respond when the UP/DOWN buttons on the hand control are pressed.	Defective hand control.	<ul style="list-style-type: none">- Check if the hand control plug on the sideboard is fully inserted.- Check if the small round fuse on the main board is blown, and if so, replace it with an identical fuse.- If the round fuse on the main board blows again, try another hand control or request a new one. <p><i>Note: The UP/DOWN buttons on the hoist can still be used despite a defective hand control.</i></p>
	Defective charger.	<ul style="list-style-type: none">- Check if the charger is connected to the wall socket, and if the power is on.- If the charger is lit green or orange, charging is in progress.- If the charger is not lit green or orange, the charger is defective and must be replaced with an identical charger.- If the charger blinks green, there is a fault with the charging system. Continue troubleshooting under "Charger blinks green."
Beeping from the hoist.	Battery not charged.	Plug the hoist in for charging (see section 3.7) and check again after 2 hours if the hoist works.
Charger blinks green.	Fault with the charging system.	Charging via hand control. <ul style="list-style-type: none">- Try another hand control or request a new one.- Check if the flat fuse on the sideboard is blown, and if so, replace it with an identical fuse.

		<p>- If fuses blow again, call a service technician.</p> <p>Charging via tracks.</p> <p>If possible, use the existing charger for troubleshooting; otherwise, order a charger for troubleshooting from WinnCare or the dealer.</p> <ol style="list-style-type: none"> 1. Connect the charger directly to the charging socket on the side panel of the hoist. <ul style="list-style-type: none"> - If the charger blinks green, check if the flat fuse for charging on the sideboard in the hoist is blown. If so, replace it with an identical fuse. - If the charger still blinks green, call a service technician - If the charger is lit solid green or orange, the hoist is working fine, continue with troubleshooting 2. 2. Connect the charger directly to the charging socket on the traverse. <ul style="list-style-type: none"> - If the charger blinks green, there is a fault in the charging system on the traverse. Call a service technician. - If the charger is lit solid green or orange, the charging system on the traverse is working fine, continue with troubleshooting 3. 3. Connect the charger directly to the charging socket on the primary track. <ul style="list-style-type: none"> - If the charger is lit solid green or orange, the charging system on the primary track is working fine. - If the charger blinks green, there is a fault in the charging system on the primary track. Call a service technician. <p><i>Note: If the fault is in the track system, the hoist can still be charged directly on the side panel until the service technician has fixed the fault in the track system.</i></p>
<p>The hoist's sling runs opposite to the UP/DOWN symbols.</p>	<p>The sling was wound incorrectly after using the emergency lower.</p>	<p>- Press the UP button on the hand control while keeping the sling taut with the other hand until the sling is completely lowered and retracted back into the hoist. Check if the UP/DOWN controls now work in the correct direction. If not, call a service technician.</p>

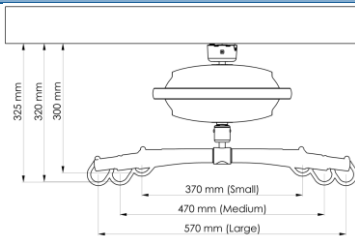
6.3 Technical specifications

Max capacity:	150 kg (330 lbs), 200 kg (440 lbs) eller 275 kg (606 lbs) depending on the setting
Number of lifts/charge:	Approx. 80 lifts/90 kg per charge
Lifting speed:	40 mm/s regardless of weight load from 15-275 kg
Lifting speed:	85 mm/s 0-15 kg
Lifting range:	2500 mm
Weight:	5.2 kg (11,5 lbs) without spreader bar
Dimensions:	Ø 320 mm x H 130 mm
Battery Operation:	36 V NiMH 1300 mAh
Charging:	100 - 240 V, 0,3 amp.
Covering:	High impact, moulded ABS
Noise:	LwA during lifting/lowering without load is 49dB(A) LwA during lifting/lowering with 175 kg (386 lbs) load is 53dB(A)
Corrosion class:	C1 according to ISO 12944-5:2019
IP-class:	Lifting module: IP24 Charger: IP40 Hand control: IP67
Output:	24 V - Accessories available only for the connection of additional equipment. For further description, request an installation guide. (See section 3.1).

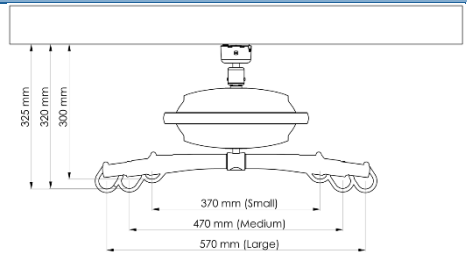
EMC Tested according to the following standards:
Luna X5. 1-kanal: IEC 60601-1-2:2015

6.4 Dimensions

The LUNA® X5 mounted on track:



The LUNA® X5 mounted on strap:



7 ENVIRONMENT AND QUALITY

7.1 Expected Lifetime

The LUNA® X5 has an expected lifetime of 20 years or 30,000 lifts with proper use and application, the use of original spare parts from Winncare, and compliance with maintenance as outlined in section 6.1.

7.2 Disposal

The product can be disposed of at Winncare. At the end of its lifespan, Winncare will take back the product to ensure that the individual components are properly recycled or disposed of.

The components include aluminum, NiMH batteries, ABS plastic materials, and steel.

These are harmful to the environment if not disposed of properly.

7.3 Battery

The product is equipped with a rechargeable NiMH battery.

For proper environmental disposal of the battery, it should be delivered for recycling at a recycling station or returned to either Winncare or the dealer after the end of its lifespan.

7.4 Quality Certifications

Winncare is certified according to the standards ISO 9001:2015 and ISO 13485:2016.

These certifications mean that the products and the company meet the applicable international standards for quality management, as well as standards for traceability of medical products.

The LUNA® X5 is classified as a Class 1 Medical Device.

8 ACCESSORIES

Accessory List for the Luna X5

015-03050 Luna X5



Hand Controls

017-00320 Handcontrol/Luna X5/5 buttons, IP67/Cable 1080mm

017-00321 Handcontrol/Luna X5/5 buttons, IP67/Cable 1320mm

017-00322 Handcontrol/Luna X5/7 buttons, IP67/Cable 1080mm

017-00323 Handcontrol/Luna X5/7 buttons, IP67/Cable 1320mm



Standard Spreader Bar, LUNA® X5

017-00335 Spr.bar/2-pt./bayonet/Size S/tiltable/Luna X5/SWL 275

017-00336 Spr.bar/2-pt./bayonet/Size M/tiltable/Luna X5/SWL 275

017-00337 Spr.bar/2-pt./bayonet/Size L/tiltable/Luna X5/SWL 275



3-Point Spreader Bar

017-00338 Spr.bar/3pt./bayonet/Luna X5/SWL 275



Chargers with charging station

017-00300AUS Charging station Luna X5/with charger f. NIMH batt./AUS-plug

017-00300EU Charging station Luna X5/with charger f. NIMH batt./EU-plug

017-00300UK Charging station Luna X5/with charger f. NIMH batt./UK-plug

017-00300US Charging station Luna X5/with charger f. NIMH batt./US-plug



Chargers

017-00302AUS	Charger Luna X5/for NIMH batt./ 30cell/1,8m DC cable/AUS-Plug
017-00302EU	Charger Luna X5/for NIMH batt./ 30cell/1,8m DC cable/EU-Plug
017-00302UK	Charger Luna X5/for NIMH batt./ 30cell/1,8m DC cable/UK-Plug
017-00302US	Charger Luna X5/for NIMH batt./ 30cell/1,8m DC cable/US-Plug



Other Accessories

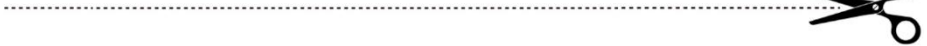
- 017-00354 Luna Trolley/horizontal/w.o. charger/Luna ipx4/Luna X5
- 017-00350 Telescop Bayonet Mount Tool/ 650mm-1100mm/Luna X5
- 017-00330 2CH Sidefoil for Luna X5/Upgrade kit
- 017-00303 Wall bracket set/Charging- Station/Luna X5/White
- 017-00304 Extension cable 1850mm/2,5X5,5/plug/ for 30cell NIMH charger



WARNING!

Do not use cables or accessories not listed, as other cables or accessories may negatively impact performance or cause interference.

Cut here and save the spare parts list for possible future use!



Spare Parts

- 018-50001 Cable coiled/Handcontrol/X5/ 1320mm/Service pack
- 018-50000 Cable coiled/Handcontrol/X5/ 1080mm/Service pack
- 018-50003 Hook/Handcontrol/X5/Service pack



A list of all spare parts can be requested. Contact Winncare for information.

Blank page

9 EMC data

Note: EMC data only valid for Luna X5. 1 channel sold from 1/1-2020 and onwards. Standards / Normative applied to EMC data: EN / IEC 60601-1-2-2015.

Guidance and manufactures declaration for electromagnetic emissions			
Emission standard	Type	Compliance to standard	
CISPR 11	RF-emissions	Yes, Group 1, Class B	
EN/IEC6100-3-2	Harmonic emission	Not applicable. Power < 75W	
EN/IEC6100-3-3	Voltage fluctuations/flicker	Yes	
Guidance for application Environment			
The Luna is suitable for use in both professional as well as domestic environments including environments connected to the public low-voltage network.			
Guidance and manufactures declaration for electromagnetic immunity			
Emission standard	Type	Compliance level	Specific guidance for application environment
EN/IEC61000-4-2	Electrostatic discharge (ESD)	± 8kV contact Up to ± 15kV air	Suitable for use on wood, concrete, or ceramic floor materials. Keep relative humidity below 30% when used on floors of syntenic materials e.g. carpets.
EN/IEC61000-4-4	Electrical fast transients and bursts	± 2kV power-supply ± 1kV for signal lines	The Luna is battery powered during operation and hence the internal battery ensures operation during mains voltage disturbances.
EN/IEC61000-4-5	Surge	± 1kV for signal lines	
EN/IEC6100-4-11	Dips, interruptions, and variations on power supply input	Angles: 0; 45; 90; 135; 180; 225; 270; 315 degrees Cycles: Dips 0.5x, Interruptions: 10x Mains freq.	The Luna is suitable for use with mains connected to a power supply with the quality of a public low-voltage network supplying domestic environment.
EN/IEC6100-4-8	Power frequency magnetic field	30 A/m 50/60 Hz	Portable and mobile radio devices, including the wires, should not be used closer to the unit than the recommended safe distance or 30 cm, or

EN/IEC 61000-4-6	Conducted disturbances, induced by RF fields	150kHz to 80MHz 3V RMS (6V ISM)		calculated using the equation for the transmission frequency. Recommended safe distance: $d = 1.17 \sqrt{P}$ for 80 MHz to 800 MHz $d = 2.33 \sqrt{P}$ for 800 MHz to 2.5 GHz with P as the maximum rated power of the transmitter in watts and d the recommended safe distance in meters.
EN/IEC6100-4-3	Proximity fields from RF wireless communication equipmEN/IECT	80 MHz to 2.7 GHz, 80% AM at 1 kHz		
		Test freq. MHz	V/m	
		385	27	
		450	28	
		710	9	
		810	27	
		1,72	28	
		2,45	28	
5,24	9			

Text field for dealer

Manufacturer:

WinnCare Nordic ApS
Taarnborgvej 12 C
4220 Korsoer
Denmark

Phone: + 45 70 27 37 20

Fax: + 45 70 27 37 19

Email: info@WinnCare.dk
www.WinnCare.com

(EU) 2017/745 CLASS I

EN/ISO 10535:2021

IEC 60601-1-2: 2015

UM-910-00807EN

