



AirRise260

User Manual



Contents

1.	Purpose & Use	
1.1	Introduction	4
1.2	About the manufacturer	5
1.3	Unpacking & preparation	6
1.4	Important advice & precautions	6
2.	Description & functions	
2.1	Description of the AirRise260™ functions	7
2.2	Using the AirRise260™	7
2.3	Charging and battery life	9
2.4	LED indicator lights	10
2.5	Advanced battery protection system	10
2.6	Emergency cord	11
2.7	Hand control	11
2.8	Powered spreader bar (option)	12
2.9	Turntable (option)	12
2.	Track switch (option)	13
2.6	Transit coupling (option)	13
3.	Transport	14
4.	Maintenance	
4.1	Cleaning	14
4.2	Storage	14
5.	Service & Lifetime	
5.1	Lifetime	15
5.2	Warranties	15
6.	Troubleshooting	15
7.	Technical Specification	16
7.1	Sample room layouts	16
8.	Certificates	
8.1	EG Declaration of Conformity	17
9.	Service Schedule	17

Before we go any further, we just want to say thank you.

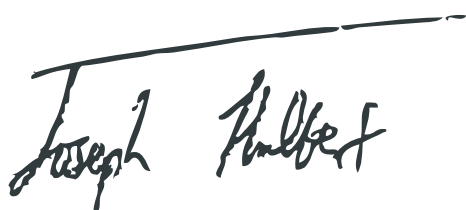
The **AirRise260™** hoist unit you have purchased is a lifter like no other. It's the result of many careful refinements and meticulous attention to detail. Yet despite this, this product is incredibly robust, sturdy, and reliable, with an impressive safe working load of 260kg!

The team at **Innova™** want to say a big 'Thank You' for choosing the **AirRise260™** hoist. You've certainly made the right decision - you've just invested in cutting-edge technology, great aesthetics, and client comfort.

We're confident that this lifter will provide you with quick, effortless, simple, and comfortable transfers for many years to come.

To find out more about **Innova™**, the **AirRise260™**, our patented **AirGlide360™** tracking system, or any of our other leading brands, please visit our website www.innova.uk.com.

We're looking forward to working with you again soon!

A handwritten signature in black ink, reading "Joseph P Hulbert". The signature is written in a cursive, flowing style. A long, horizontal line is drawn above the signature, extending from the left side of the page towards the right.

Joseph P Hulbert
Innova™ Team Leader

Who are Innova™?

Innova™ has a combined experience of over 200 years within the healthcare sector. We've used these 200 years wisely. We've tested and used equipment time and time again; we've travelled the world; we've spoken to thousands of end users, carers, healthcare professionals, architects, designers, and care institutions. In a nutshell, we know the market's challenges and we're finding solutions. We're making use of our know-how to design and manufacture healthcare products the world has never seen before.

We aim to challenge the way things are being done in the healthcare sector, to design and develop new revolutionary products, and to change the way people think about care equipment.

We want to think hard about aesthetics whilst focusing on function.
And if we've enhanced quality of life along the way, we know we've achieved our goals.

1.3

Unpacking & preparation

Perform a visual check of the AirRise260™ hoist to check for any transportation damage or defects. It is expected that the hoist's batteries are not fully charged upon delivery - please ensure that the hoist is charged for 8 hours before it used.

The contents of the package:

1. Ceiling Hoist
2. Technical handbook
3. Hand control
4. Charger
5. Charging station
6. User Manual
7. Quick Reference

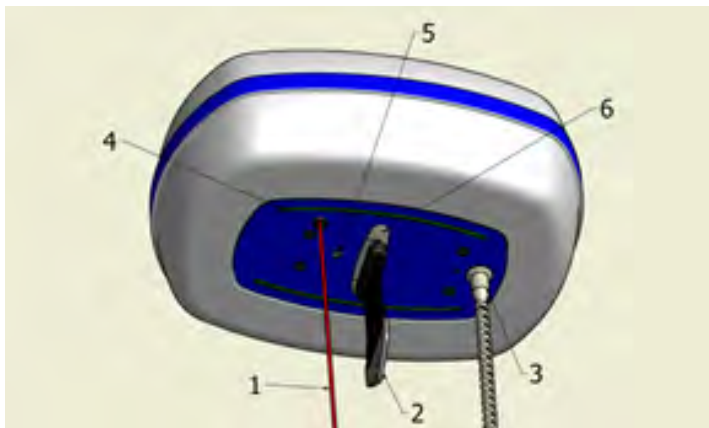
1.4

Important advice & precautions

- Read the entire manual prior to using the AirRise260™
- The AirRise260's weight limit should never be exceeded
- The AirRise260™ should only ever be used to hoist one client
- The AirRise260™ should not be used where there is a risk of it being splashed with water
- If a defect appears prior to, during or after use the Innova™ team must be contacted for repairs and servicing
- The emergency pull cord must not be removed
- If accessories are rated with a lower weight limit than 200kg, this determines the AirRise260's maximum load

2.1

The AirRise260™ Functions



- 1) Emergency cord
- 2) Lifting belt with connection for spreader bar
- 3) Connection hand control
- 4) Led indicator lights (battery-indicator)
- 5) Input connector for electrically adjustable spreader bar
- 6) Height-stop

2.2

Using the AirRise260™

SPREADER BAR OPTIONS:

There are a number of spreader bar options, including a 2 point manual spreader bar, and manual or electrically powered wishbone spreader bar. All of these options are available with loop or clip fixings.

Before using the hoist, ensure that you have the correct type of sling with the correct fixings for the spreader bar. If you are unsure, you should always contact your Innova™ Dealer for advice. Innova™ shall not be liable for faults or accidents due to the use of an inappropriate lifting sling.



2 point loop fixing spreader bar



Clip-fixing manual wishbone spreader bar



Clip-fixing electrically powered wishbone spreader bar

2.2

Using the AirRise260™ (continued)

PLACEMENT OF SLING FOR LOOP FIXING SPREADER BARS:

A lifting sling with four to six lifting straps designed for mounting on hooks should be used when using an Innova™ loop fixing spreader bar. Place the straps from the lifting sling on the hooks on the lifting hanger. Start with the uppermost set of straps (from the back) and then take the lowest set of straps (from the legs). When pressing the up button to lift the user, check again that all the straps remain correctly placed in the lifting hanger's hooks.



PLACEMENT OF SLING FOR CLIP FIXING SPREADER BARS:

A lifting sling with clip-fixings should be used when using an Innova™ clip-fixing spreader bar. Position the clips on the lifting sling over the studs on the lifting hanger. When pressing the up button to lift the user, check again that all the clips remain firmly fastened to the lifting hanger's studs.

If there is any doubt about the selection or use of a lifting sling, please contact your Innova™ Dealer.

Innova™ shall not be liable for faults or accidents due to incorrect use of the lifting sling, or for reasons of inadequate attention on the part of the carer or user.

WARNING:



Do not use the hand control or spreader bar cord as a towing rope. Instead, stand behind the care recipient and push him/her gently to the desired location. The spreader bar can be used as a "handle" during transfers.



Do not lift the care recipient any higher than necessary for the transfer.



Lifting actions should only be performed by trained and authorised caregivers/personnel.



Always lift care recipient directly under the hoist, inclined lifting can damage sling and can activate height stop.

2.3

Charging and Battery Life

To ensure a long service life of the batteries, it is recommended to charge the hoist when not in use.

To charge the AirRise260™, follow the following procedure:

- Place the hand control in the wall charger (Figure 1)
- Check if the indicator light lights up (Figure 2)
- Leave hoist on charge for about 8 hours.



Figure 1:
The wall charger



Figure 2:
Charging indicator light

Batteries are not covered by the warranty. To ensure they are kept in good condition, always put the hoist on charge after use.

CAPACITY:

The number of transfers that can be made with a fully charged battery depends on the length of the lifting operations, the lifted weight, as well as the age and condition of the battery. However, a fully charged hoist will perform a minimum of 40 lifts.

Maximum load*: 260KG



The component, e.g. track safe working load, lifting sling, etc. labelled with the lowest load limit determines the maximum load limit for the entire system. This maximum load limit must not be exceeded.

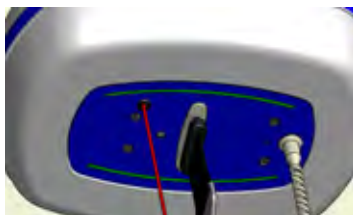
BATTERY DISCHARGE:

If a battery is not used for a long period of time, it discharges itself. The over-discharge of the battery is detrimental to the capacity and lifetime.

AirRise260™ is equipped with an advanced battery monitoring system which prolongs the life of the battery considerably. Operation of this system is described in Section 2.5.

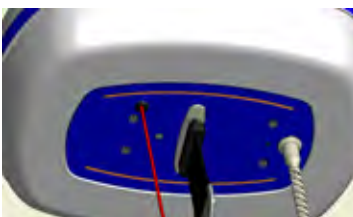
2.4

LED Indicator Lights



GREEN STATUS

If the hoist is active, the indicators light up green. The hoist switches itself off after approximately 30 minutes, the green light will then turn off. By pushing the On button, the lift will activate automatically. This is to save power.



ORANGE STATUS

The orange light indicates that the batteries should be charged at the first opportunity. The battery is not at critical level, but gives an indication that charging is desired. The batteries must be charged as described in section 2.3.



RED STATUS

The batteries have reached a critical level, the hoist must not be used, further discharge will damage the batteries. The batteries must be charged as described in section 2.3.

2.5

Battery Protection Software

Because the fully discharging of batteries shortens their life expectancy and also the capacity and ease of use, AirRise260™ is equipped with a system which protects the battery from complete discharge.

In the “**ORANGE STATUS**”, when charging is desired but not strictly necessary, the system will beep every 10 seconds as a reminder that the hoist (at first opportunity) needs to be charged.

If this signal is ignored for a long time, the hoist will go to a “**RED STATUS**”. The system will now beep every 2 seconds and only the function downwards is still possible. The hoist now has to be recharged at least 2 consecutive hours before it can be used again.



“**RED STATUS**” is only achieved by ignoring the “**ORANGE STATUS**” for a long time.

If the “**RED STATUS**” quickly follows the “**ORANGE STATUS**”, the end of the battery life might have been reached.

2.6

Emergency Pull Cord

The hoist immediately stops all functions when the red emergency cord is pulled.

If you continue to pull the cord, the spreader bar will slowly move downwards. This movement stops as soon as the cord is released.

The AirRise²⁶⁰TM is now completely switched off. To re-activate the hoist, press the On button on the hand control.

2.7

Hand Control

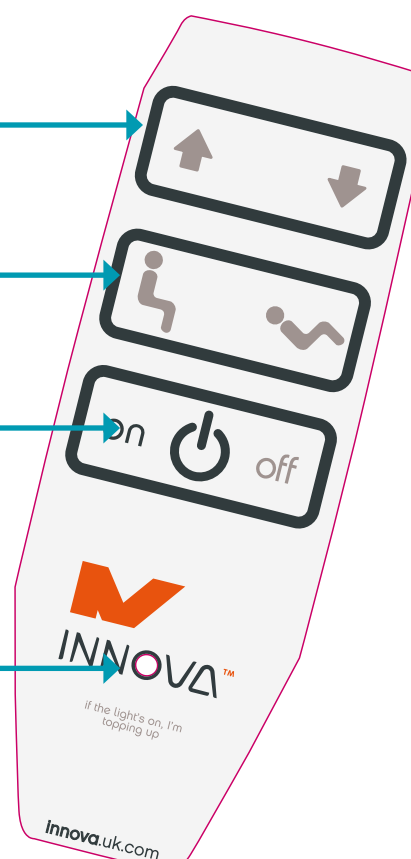
The plug of the hand control should be placed firmly in the input at the bottom of the lift. The cord of the hand control can, if requested, be fitted with a strain release or fixed with screw-thread.

Top 2 buttons:
These control the hoist's lifting and lowering

Middle 2 buttons:
If the hoist is fitted with a electrically powered spreader bar, these buttons enable this to be used.

Bottom 2 buttons:
Turn the hoist on and off. When charging, the LED indicators light up at the bottom of the hoist. Should this be annoying, for example in a bedroom, this can be turned off with the red button. There is also the option of a bedroom mode, with which the charging indicators switch off automatically after 2 minutes.

Indicator light:
In the middle of the letter 'O' in INNOVATM, there is an LED indicator light. This tells you when the hoist is charging.



2.8

Powered Spreader Bar Option

If the hoist is equipped with an electrically adjustable 4-point spreader bar, then the attached cord needs to be connected to the appropriate input (see Section 2.1). The spreader bar can be operated with the hand control (see Section 2.7).



Do not use the hand control or spreader bar cord as a towing rope. Instead, stand behind the care recipient and push him/her gently to the desired location. The spreader bar can be used as a “handle” during transfers.

2.9

Turntable Option

The tracking system you have chosen can be equipped with a turntable as shown below.

The use of a turntable makes it possible to use crossings in the rail trajectory. A turntable works automatically and turns both ways.

If you hold AirRise²⁶⁰™ in the middle of the turntable for 2 seconds, it will automatically carry out a quarter-turn.

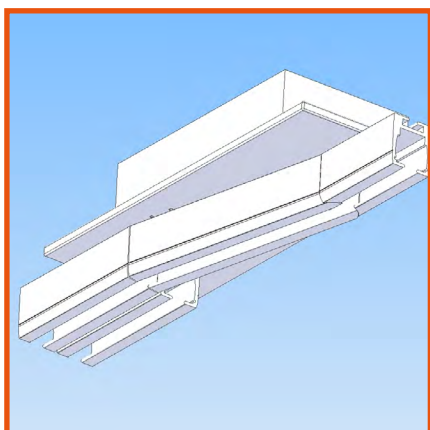


2.9

Track Switch Option

To make a turn in a continuous rail, a switch can be used (see below). The switch can be delivered in a right or left version.

If you hold AirRise260™ in front of the switch and wait for 2 seconds, it will automatically change direction.



2.9

Transit Coupling Option

If your track configuration has a X-Y system, you can link the traverse rail to the rest of the trajectory by using a Transit Coupling (see below). If the AirRise260™ is in the traverse rail of the X-Y system, you can link this rail to the fixed rail by holding the traverse rail in line with the coupling for 2 seconds. The coupling will then automatically connect the traverse rail to the fixed rail. The hoist can then leave the traverse rail. When the hoist returns to the traverse rail, the coupling will automatically disconnect.

X-Y movement thus becomes possible again.



To keep the hoist away from moving parts such as the safety-locks at the end of the rail, always keep at least 50 cm distance to the coupling during linking moments. Pass the coupling in one movement and do not stop in the middle of the coupling.

Never move the traverse rail by hand with no hoist on it.

Never attempt to move more than one hoist into an X-Y system.

3.0 Transport

Innova™ recommends that the AirRise260™ hoist is kept at temperatures between +10°C and +40°C, and is always transported in its original packaging.

Keep your AirRise260™ hoist unit at temperatures between +10°C and +40°C.



4.0 Maintenance

Only Innova™ authorised personal or Innova™ Dealers should carry out maintenance or servicing of the AirRise260™ hoist unit. Daily inspection should be carried out by the carer after reading the user manual. A six monthly inspection according to UK LOLER 1998 regulations should also be carried out.

4.1 CLEANING:

If the hoist casing needs cleaning, use a cloth with a little soapy water.

4.2 STORAGE:

See Section 3.0. For long term storage Innova™ recommends that the hoist the batteries are disconnected.

5.0

Lifetime & Warranties

5.1 LIFETIME:

The AirRise260™ has an expected lifetime of 10 years or 15,000 transfers. This is on the condition of correct use and correct service inspections (See Section 4.0).

5.2 WARRANTIES:

The AirRise260™ has a 1 year warranty as standard. To purchase an extended warranty package, please contact your Innova™ Dealer.

Some wear parts, such as the belt, batteries, and wheels, are not covered by the warranty. There is a limited warranty on the hand control.

The warranty does not cover damage or faults to the AirRise260™ caused by incorrect or improper use, or by repairs carried out by unauthorised personnel.

6.0

Troubleshooting

Challenge	Possible Cause	Solution
The hoist is not responding when pressing the control buttons on the handset	<ol style="list-style-type: none"> 1. The emergency cord is activated 2. The battery is discharged 3. A connection within the handset is faulty 	<ol style="list-style-type: none"> 1. Pull the emergency cord 2. Put the hoist on charge 3. Contact your Innova™ Dealer and a replacement handset will be sent out
The lifting tape will only move downwards and not upwards	<ol style="list-style-type: none"> 1. The battery is discharged 2. The maximum weight limit (260kg) is exceeded 	<ol style="list-style-type: none"> 1. Put the hoist on charge 2. Reduce the load. IMPORTANT – If an endstop has been contacted with a load above 260kg, contact Innova™
The lifting tape will only move upwards and not downwards	<ol style="list-style-type: none"> 1. The loose strap function is activated 2. The hand control is faulty 	<ol style="list-style-type: none"> 1. Check the loose strap switch 2. Contact your Innova™ Dealer and a replacement handset will be sent out
The hoist emits excessive noise when activated	<ol style="list-style-type: none"> 1. Defect bearings, gearwheels or motor 	<ol style="list-style-type: none"> 1. Contact Innova™

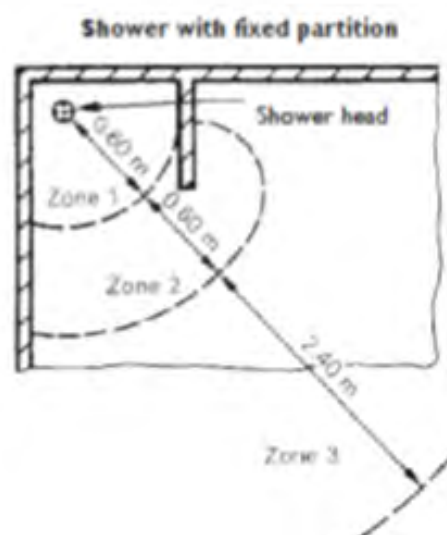
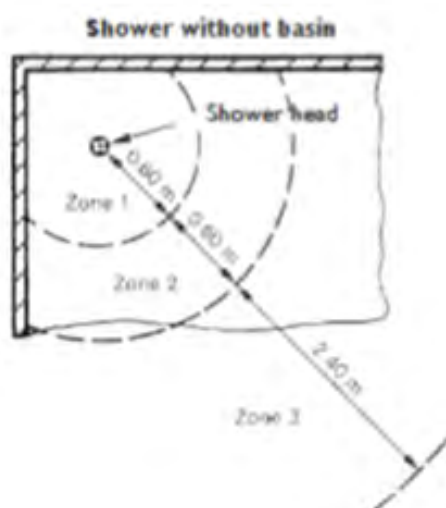
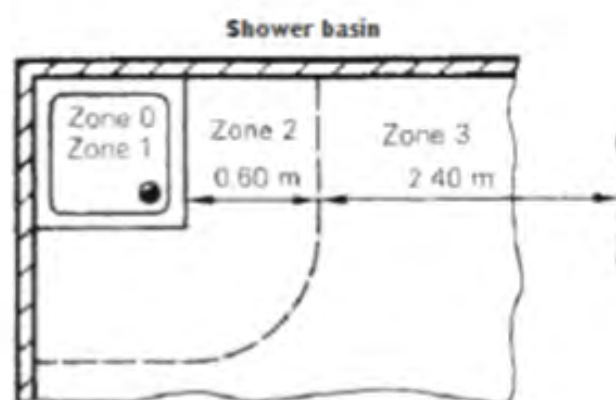
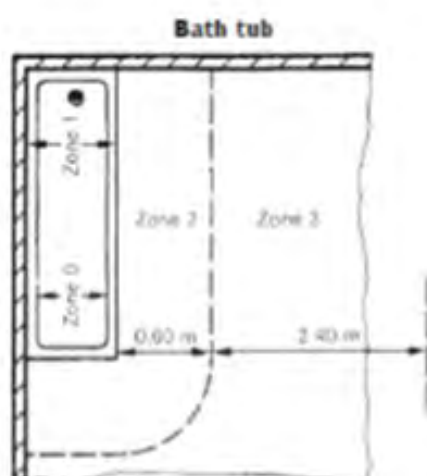
7.0

Technical Specification

Dimensions	370x280x135mm
Max Lift Capacity	260kg
Number of lifts per charge	>40
Lifting velocity at 200kg load	5cm/sec
Total weight without sling	14kgs
Electrical connection of charger	220-230v
Voltage/current between charger/hoist	29.4VDC, 0.5 Amp
Charging time	8hrs
Battery	24 Volt, 5.2 Amp

7.1 SAMPLE ROOM LAYOUTS:

Charger to be installed in zones 2 or 3.



8.0 Certificates

8.1 EG DECLARATION OF CONFORMITY:

Innova declare that:

The AirRise²⁶⁰™ ceiling lift system and related components to which this declaration relates and which fall within Class I of the European Medical Device Directive, are in accordance with the requirements of the following directive:

- Directive 93/42/EEG

and in conformity with the following standards or other normative documents:

- EN 10535:2006
- NEN 12182:2012



9.0 Service Schedule

Servicing and maintenance must only be carried out by Innova's approved service partners. Should servicing be carried out by non-approved companies, warranties will be rendered void. A LOLER test should be carried out every 6 months and recorded below.

Date	LOLER Test	Company	Engineer Name	Signature

Yesterday's challenge,
Today's solution

For general enquiries please contact us at:

t | 0845 034 1450

f | 0845 034 1451

e | enquiries@innova.uk.com

www.innova.uk.com