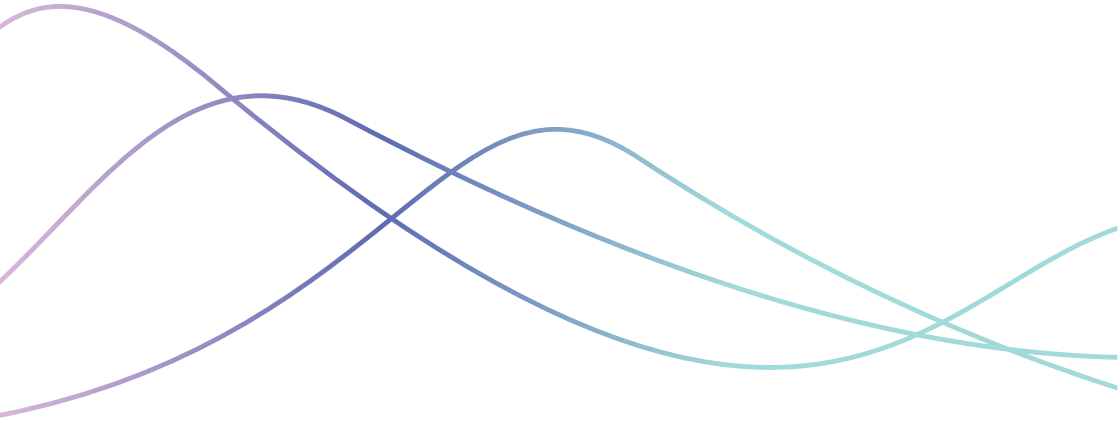
WheelAir

System V2
Instructions for Use



Intended User and Purpose of This Document

This Instructions for Use document is intended for wheelchair users who will operate the WheelAir System V2 themselves, and for caregivers or healthcare professionals who assist users who are unable to operate the device independently.

The WheelAir System V2 is a medical device classified Class I under EU MDR 2017/745.It is designed exclusively for home healthcare use. It must not be used in emergency medical services environments.



Read this entire document carefully before using the WheelAir. Store it safely for future reference. If you do not understand any instruction or warning, contact your Distributor before use.

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Contacts

Manufacturer

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E-Mail: info@wheelair.eu
Website: www.wheelair.eu

Distributor / Dealer

2026 - Version 3.6 Designed and manufactured in the Republic of Ireland

Latest product information and updates may be found at wheelair.eu

MD Incidents Reporting

According to EU Regulation 2017/745 on Medical Devices, in the case of a serious incident that has occurred in relation to this device, the incident must be reported immediately to the manufacturer (contact details above) and to the competent authority of the Country or Member State in which the user and/or patient is established.

LCS Ltd operates a policy of continual product improvement. The current version of this document is always available at www.wheelair.eu

Description and Intended Use

The WheelAir System V2 is a battery-powered airflow system designed to actively regulate body temperature and reduce moisture build-up, enhancing comfort for wheelchair users.

The WheelAir System V2 is the Original Equipment Manufacturer (OEM) variant of the device. It can be pre-installed by wheelchair manufacturers directly into wheelchairs and their seating systems. The components and technology differ from other WheelAir products in that this System does not include the cushion element. The Fanbox and Controller are charged via a USB-C connection

Clinical Background
Wheelchair users who experience difficulties with thermo-regulation or suffer from heat and moisture build-up at the skin surface, may experience an exacerbation of symptoms due to increased temperature and relative humidity. These symptoms include skin redness and irritation, heat rash, muscle spasms and cramps, heat syncope, heat exhaustion, heat stroke and heat-induced seizures. Heat and moisture are also known factors in pressure injury formation. Keeping the skin dry and cool can help to prevent and treat such health and quality-of-life related issues.

Performance
The WheelAir System V2 delivers active airflow across the seating surface at up to six speed settings, with a maximum runtime of up to 27 hours at the lowest setting. No clinical performance claims are made beyond the device's intended function of providing airflow to reduce heat and moisture build-up. Performance data is held within the technical documentation maintained by the manufacturer.



This device is intended for home healthcare use only. It must not be used in emergency medical situations or environments.

Contraindications, Limitations and Precautions

This section sets out the conditions under which the WheelAir should not be used, the known limitations of the device and the precautions that should be observed. These have been identified through the manufacturer's risk management process in accordance with ISO 14971.

Contraindications
Do not use if:
The user is suffering from hypothermia.
The user has open wounds in areas where airflow would be directed.
The user experiences nerve pain triggered by cold temperatures or airflow.
The user has active, severe incontinence (do not use the cushion cover in this case).

Limitations

- Pressure injuries: the effect of the WheelAir on the healing of existing pressure injuries has not yet been established. Use with caution in these cases.
- Reduced or absent skin sensation: people who have no feeling in the skin area where airflow is directed should use the device with caution.The WheelAir uses ambient air and is unlikely to cause cold injury, particularly if clothing is present.However, in extreme cold conditions, a carer should periodically check the skin temperature by hand.
- No clinical claims: no clinical performance data is claimed beyond the device's function of delivering airflow. The device is not intended to treat pressure injuries, manage clinical thermoregulatory disorders, or replace medical intervention.

Precautions

- For individuals unable to communicate or indicate thermal discomfort, caregivers should routinely monitor the WheelAir settings and assess whether the person may be experiencing excessive cold
- Not suitable for individuals with spasms that can be triggered by cold, especially in colder environments when the WheelAir is blowing cooler air
- The User determines the level of cooling. If the User is unable to operate the device, a designated caregiver must assume responsibility for controlling the settings and ensuring appropriate cooling levels.

When to consult a healthcare professional

Contact your healthcare professional or prescriber before or during use if:

- You are unsure whether the device is appropriate for your condition.
- You notice skin changes (redness, rash, or irritation) in the area where airflow is directed.
- The user shows any signs of hypothermia (shivering, confusion, pale or cold skin). Seek immediate medical attention.
- You have questions about settings appropriate for your specific condition or environment.

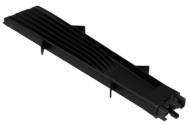


If any signs of hypothermia are observed, stop use immediately and seek medical attention.

Key Components

The WheelAir System V2 includes the following components. Individual parts may be replaced. Contact your Distributor for details.

01 Channel



02 Fanbox



03 Controller



04 Nozzle Channel Magnets



05 Nozzle Channel Magnets 90˚



06 Nozzle Tube Magnets



07 Nozzle Channel 180˚



08 Nozzle Channel 90˚



09 Flexible Tube



10 Custom Flexible Tube



11 Bend 90˚



12 Y Connector



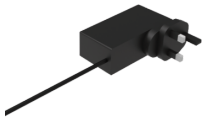
13 I Connector



14 Bracket



15 USB-C Charger



16 USB-A Cable



Specification

Fanbox Size	265mm x 105mm x 39mm
Weight	Fanbox 560g
Power	Fanbox Lithium-Ion 3.7V 7800mAh
	Controller Lithium-Ion 3.7V 250mAh
Charge Time	Typical 2 hours to 80%
Charger	Medical Grade 18W USB-C (Supplied by manufacturer only)
Run Time	Up to 27 hours dependent on fan speed setting
Fan Speed Settings	6
Fan Lifetime	>70,000 hours
Materials	Synthetic rubber channels+ ABS/PC parts. Latex free. No
	natural rubber. No animal leather
Compatibility	Any WheelAir Authorised Partners (list found at wheelair.eu)
EMC Certification	IEC60601-1-2
Air Travel & Battery Safety	UN38.3: Fanbox and Controller may be transported as hand luggage on commercial airlines

Operating Environmental Conditions

Environment - Operation	
Temperature Relative	5 – 40°C/ 41 – 104°F
Humidity (non-condensing)	30 – 80 %
Air Pressure	700 – 1060 hPa
Environment – Transport & Storage	
Temperature Relative	-10 – 65°C/ 32 – 149°F
Humidity (non-condensing)	30 – 95%
Air Pressure	700 – 1060 hPa

Sustainability and Disposal

Sustainability and quality are core values of LCS Ltd, reflected in the materials chosen for this device.

Disposal
LCS Ltd and its distributors comply with the EU WEEE Directive (2012/19/EU) and Battery Directive. This device must not be disposed of as part of normal household waste.

- The Fanbox and Controller contain Lithium-Ion batterie. Check your local regulations for disposal of small electronic devices containing batteries.
- Contact your Distributor for details when you wish to dispose of this product so that it can be recycled correctly.

Individual Part Replacement
WheelAir parts may be replaced individually to extend the life of the device. Contact your Distributor for details. This reduces waste and supports the manufacturer's sustainability commitment.

Operation

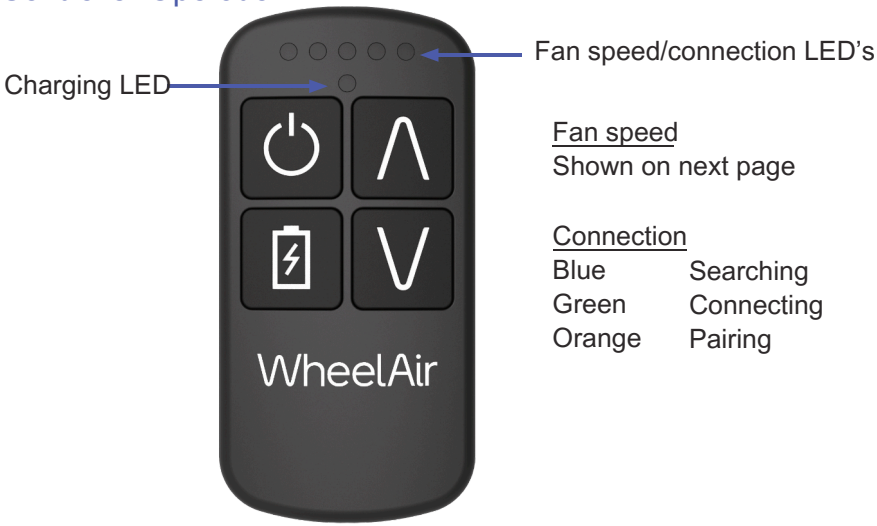
Turning the Fanbox on from Flight Mode

When not in use, storing or travelling, the Fanbox should be kept in Flight Mode. To put the Fanbox in or out of Flight Mode, hold down Fanbox button for 5 seconds. The Controller will not communicate with the Fanbox when the Fanbox is in Flight Mode. The Flight Mode setting preserves the battery and deactivates the Bluetooth®.

Turning the Fanbox on from Standby

The Fanbox is turned on by pushing the Controller Standby button. The indicator light strip will flash blue to show Bluetooth® is searching for connection and turn green when connection is made with the Fanbox.

Controller Operation



Fan speed
Shown on next page

Connection

Blue	Searching
Green	Connecting
Orange	Pairing

The Controller buttons function with mid (c. 3 seconds) and short (instantaneous) presses.

	Short Press	Mid Press
Standby	Connect	Standby Mode
Up Arrow	Fan +1	Fan Maximum
Down Arrow	Fan -1	Fan Minimum
Battery	Fanbox Charge State	Controller Charge State

LED Indicator

Do not run fans at Max speed when the Fanbox battery indicator flashes red.

When no LEDs are flashing on the Fanbox, it is either in Flight Mode or the battery is depleted.





Fanbox

The Fanbox can also be controlled with the Fanbox button.

Short	Fan +1 (up to max and then cycles from min.)
Long (c. 5 Seconds)	Standby Mode / Flight Mode

The fans will not react if the Fanbox button is held down accidentally for longer than 10 seconds.

Using the Fanbox button overrides the Controller. Press the Controller Standby button to regain control (fans will turn off before reconnecting).

Typical Runtimes

Fan Speed 1	c. 27 hours
Fan Speed 2	c. 22 hours
Fan Speed 3	c. 17 hours
Fan Speed 4	c. 15 hours
Fan Speed 5	c. 12 hours
Max	c. 4-4.5 hours

Pre-Use Check

Before each use, or after any period of storage, perform the following check to confirm the device is ready and operating correctly. This check should take no more than two minutes.

Step	Check	If not OK
1	Fanbox LEDs illuminate when taken out of Flight Mode	Charge the Fanbox fully
2	Controller LEDs illuminate when Standby button is pressed	Charge the Controller
3	Bluetooth connection established (Controller LEDs turn green)	See Troubleshooting. Reconnect Controller
4	Fan operates at each of the 6 speed settings	Contact your Distributor
5	Airflow is detectable from all nozzles	Check nozzle connections and magnetic fit
6	No unusual noise, smell or excessive vibration from Fanbox	Stop use immediately. Contact your Distributor



Do not use the device if any step above cannot be confirmed. Contact your Distributor before resuming use.

Recommended Maintenance Schedule

Before each use	Complete the Pre-Use Check above
Monthly	Inspect fan inlets for dust or blockage. Clean with compressed air if needed. Check all nozzle connections are secure and magnetic fit is flush.
Every 2 months (if stored)	Fully charge Fanbox and Controller if not used within the past 2 months
Annually	Contact your Distributor for a full-service inspection if the device is in daily use
As needed	Replace worn or damaged channels, tubes or nozzle components via your Distributor

Charging

The Fanbox can be charged whether removed or attached to the wheelchair.

Connect Charger to the Fanbox and connect the Controller with the Controller Charging Cable as per the diagram below, or charge separately.

Fanbox LED and single controller LED will show charging state.

Pulsing Red	Low charge
Pulsing Orange	50% charged
Solid Green	Fully charged

Charge Controller separate if Fanbox is completely out of battery. Charge Fanbox first before connecting Controller if both are low on battery.

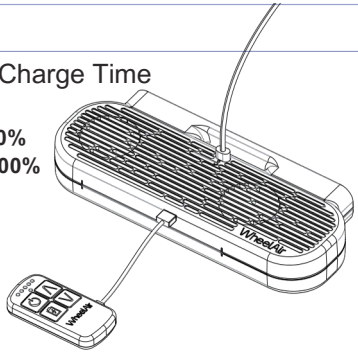
Controller will not take charge from Fanbox if the Fanbox is in Flight Mode.

Fanbox charge LED lights up when plugging in the charger. If completely out of battery, charge LED can take up to 1h to appear.

Ensure the USB-C charger is pressed firmly and fully into the Fanbox charging port. The Fanbox and Controller will become warm during charging. This is normal when charging.

Typical Charge Time

2 hours to 80%
4 Hours to 100%



Care and Maintenance

Cleaning

Light cleaning: wipe all external surfaces with a slightly damp cloth. Do not use solvents, disinfectant sprays, or abrasive materials

Dusty fans: Detach the Fanbox and clean the faninlets using a compressed air can.Do not insert any objects into the fan inlets.



Do not immerse the Fanbox or Controller in water. The device is splashproof but not fully waterproof.

Usage in Rain

The Fanbox is splashproof and is unlikely to be damaged when used in light to moderate rain. The electronics are separated from the fan inlets, and drain holes are located at the base of the Fanbox. The product is not fully waterproof.Avoid exposure to heavy rain or immersion.

Service and Repair

If your device needs service or repair, contact your Distributor.



This product must only be repaired by WheelAir approved personnel and with WheelAir approved parts.



Only WheelAir parts and service providers may be used in order to maintain safety and essential performance with regard to electromagnetic emissions and disturbances.



Repair by unauthorised personnel voids the warranty and may compromise device safety.

Transportation and Storage

Aircraft Transportation

WheelAir is designed to be taken on commercial airlines. The Fanbox and Controller are UN38.3 certified for transport as hand luggage.

Before travel

- Remove the Fanbox from the wheelchair and put it into Flight Mode (hold Fanbox button for 5 seconds).
- Store the Fanbox and Controller together in your hand luggage
- Do not place the Fanbox in checked baggage.

Long Term Storage

If the WheelAir will not be used for more than 2 months:

- Fully charge both the Fanbox and Controller before storage.
- Re-charge both fully at least once every 2 months during the storage period.
- Never store in conditions of extreme heat or cold (outside −10–65 °C / 32–149 °F).
- Always place the Fanbox in Flight Mode before storing.



Incorrect storage (particularly failing to maintain the battery charge cycle) will reduce battery life. Failure to store within the specified temperature range may permanently damage the battery.

Troubleshooting

Magnetic Connection

Ensure the magnetic adapter is flush with the Fanbox before securing the magnetic strap. If the adapter is not flush, readjust the channel or flexible tube position until it lies flat.

Securing the Fanbox

If not using the Fanbox bracket to secure the device to the wheelchair, use a safety strap to secure the Fanbox to the wheelchair upholstery. The Fanbox must be securely attached at all times during use.

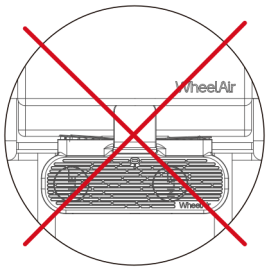
Reconnecting the Controller

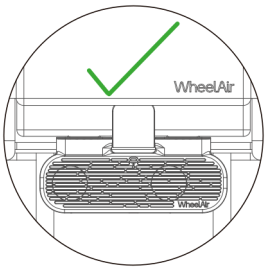
Hold down the the Standby button and Up Arrow on the Contoller until the LED's on the Controller flash orange. Then click Fanbox button and the new/ old Controller will be connected.

Fanbox not Charging

Ensure the USB-C charger is pressed firmly and fully into the Fanbox charging port. If the battery has been depleted for a prolonged period, it may take up to 1 hour before the charge LED illuminates. Leave to charge overnight if the LED does not appear.







Warnings, precautions and safety instructions

The WheelAir System may only be used as intended. Use of this product in any other way constitutes misuse. LCS Ltd cannot be held responsible for damage caused by misuse, improper use, or negligence.



This device is designed for use in a Home Healthcare Environment only.It must not be used in Emergency Medical Services Environments.



Only use WheelAir-approved accessories. Use of non-approved accessories will compromise EMC safety and may affect device performance or the performance of other nearby devices.



Do not operate the WheelAir without first reading this manual in full.If any instruction or warning is unclear, contact your Distributor before use.



Ensure fan inlets are uncovered whenever the fans are running.



Do not use the WheelAir System with any seating system other than the one it was delivered with, unless approved by the manufacturer.



Only use this device as instructed in this manual.



The device uses ambient air. Regulate the fan setting accordingly. If the user shows signs of hypothermia, stop use immediately and seek medical attention.



Only the manufacturer-supplied USB-C charger may be used with this device.

Functions that lay users can safely operate: fan on/off, fan speed adjustment (using Controller or Fanbox button), battery level check, charging the device.

Functions that must only be performed by WheelAir-approved service personnel: any internal repair or servicing of the Fanbox or Controller; battery replacement.

Maintenance the user/carer can perform: surface cleaning (damp cloth), fan inlet cleaning (compressed air), replacement of channels, nozzles, tubes and bracket (contact Distributor for parts).

Device Malfunction Guidance

If the device behaves abnormally, follow the guidance below. Do not continue to use the device if you cannot resolve the issue.

Symptom	Action
Fans stop unexpectedly during use	Check battery level. If Fanbox LED is red, charge immediately. If battery is adequate, toggle Flight Mode off and on. If fans do not restart, contact your Distributor.
Fanbox becomes very hot	Stop use immediately. Allow to cool in a ventilated area. Do not charge or use until returned to ambient temperature. If the problem recurs, contact your Distributor.
Unusual noise or vibration from Fanbox	Stop use. Check fan inlets are clear of obstruction. If noise persists after cleaning, contact your Distributor. Do not continue to use.
Burning smell from Fanbox or Controller	Stop use immediately. Do not charge. Remove from proximity to the user. Contact your Distributor immediately.

Controller does not respond or behaves unpredictably	Check for electromagnetic interference from nearby devices (see EMI section). Move away from potential sources of interference. Try the Reconnect Controller procedure. If the problem persists, contact your Distributor.
Bluetooth connection drops repeatedly	Ensure no EMI sources are within 30 cm of the device. Re-pair the Controller using the Reconnect procedure. If issue persists, contact your Distributor.
Airflow is reduced or absent from nozzles	Check all nozzle connections are secure and magnetic fit is flush. Check that the channel is not kinked or blocked. Refer to the Troubleshooting section.



In the event of any malfunction that cannot be resolved using this guidance, stop use and contact your Distributor. Do not attempt to open, modify or repair the Fanbox or Controller.

Damaged or Previously Opened Packaging



Do not use the WheelAir System V2 if the packaging is damaged, shows signs of having been opened before you received it, or has been exposed to conditions outside those specified (e.g. extreme heat, cold, or moisture).

If you receive the device with damaged or compromised packaging:

- Do not attempt to use the device.
- Document the condition of the packaging (e.g. photograph it).
- Contact your Distributor immediately.
- Your Distributor will arrange inspection, replacement or return as appropriate.

If the packaging has been exposed to environmental conditions outside those specified during transport or storage, the performance and safety of the device may have been affected. Contact your Distributor before use.

Symbols

Product Symbols

	See User Manual		Battery Symbol
	Latex free		CE Mark
	Class II. Double Insulated		Manufacturer
	Product Reference		Manufacture date (where XXXX is year manufactured)
	Product Serial Number		Bluetooth Communication
	AC Current		Standby
	DC Current		Party included in recycling compliance scheme
	Medical Device		

Packaging Symbols

	Fragile, handle with care
	Temperature limits
	This side up
	Recyclable Material
	Keep away from rain

Symbols Used in this Manual

	Warning Symbol: Warning of a possible hazard that may result in serious personal injury and / or damage to the product if instructions are not followed.
	Caution symbol: Warning of a possible hazard may result in minor personal injury and / or damage to the product if instructions are not followed.
	Information Symbol: Recommendations and useful information to follow.

Packaging Information

The WheelAir System V2 packaging carries the following information in accordance with EU MDR 2017/745 and EN ISO 20417:2021:

- Manufacturer name and trade name
- Manufacturer full address
- Product name and catalogue number / UDI
- Lot number and serial number
- Year of manufacture
- Storage and handling conditions (temperature, humidity, air pressure limits)
- Net quantity of contents
- WEEE disposal symbol
- Fragile and orientation symbols



Do not use the WheelAir System V2 if the packaging is damaged, shows signs of having been opened before you received it, or has been exposed to conditions outside those specified (e.g. extreme heat, cold, or moisture).

Warranty

The warranty period for WheelAir is 1 year. Apart from general wear and tear, we warrant the WheelAir against specific defects for a one year period from the date of the original user's purchase, unless the country specific rules state otherwise. To qualify for warranty, the WheelAir must have its original serial number tag (located on the Fanbox) and you must have proof of purchase. We will send you a prepaid packaging slip to return your WheelAir to us.

Warranties are not transferable.

Warranty Exclusions:

- damage caused by poor treatment, accident, misuse or from improper installation or any exterior modification.
- if the Fanbox has been opened by the user or dropped/smashed.
- use in commercial activities, hire, reward or rental.
- if you simply change your mind after a 14-day return period.

We do service our products for a fee if there has been wear and tear or it has passed the warranty period. Claims can be made using the contact information provided in this manual. We do not pay for postage in this instance.

Only express warranties will be accepted – other warranties including implied warranties of merchantability and warranties of fitness for a particular purpose are not accepted. The only express warranties that are accepted are to repair or for replacement of the goods. No damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold.

Accessing this Document Online

The current version of this Instructions for Use is always available at:
www.wheelair.eu

How to Access the Current Version

- Visit www.wheelair.eu and navigate to the Product Manuals section.
- Select your product (WheelAir System V2) and download the current IFU in PDF format.
- LCS Ltd may update this document at any time as part of its continual improvement policy. Always check online for the most current version.

Requesting a Printed Copy

If you require a printed copy of this document, contact your Distributor or LCS Ltd directly:

- Email: info@wheelair.eu
- Telephone: +353 (0) 71 916 3905

A printed copy will be provided free of charge within a reasonable time upon request.



If you are unsure which version of the IFU applies to your device, check the document version number (Rev4) against the version shown at www.wheelair.eu

Effects of Electromagnetic Interference on The Product and on The User



Medical devices such as implanted pacemakers and defibrillators may contain sensors that respond to magnetic fields and radio signals. Users with implanted cardiac or neural devices should consult their healthcare professional before using this device.

Use of mobile devices with electromagnetic emissions (e.g., mobile phones) should be limited to no closer than 30 cm (12 inches) from any part of the WheelAir, including all cables specified and supplied by WheelAir.

Interference Guidance

- If unpredictable operation of the Controller is experienced, turn off all nearby mobile devices. Communications may be affected by electromagnetic fields.
- Turn the Fanbox off when not in use. The product may generate electromagnetic fields that can interfere with other nearby devices.
- The product has been tested to IEC 60601-1-2 EMC standards. Notwithstanding this, the device may be affected by interference from other electrical devices (e.g. retail EAS/security systems). If this occurs, move the device away from the interference source.
- Sources of concern include: radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and mobile phones. EM energy increases rapidly as you approach a transmitting antenna, hand-held radio transceivers are of particular concern.
- Devices such as cordless phones, laptops, AM/FM radios, CD players, electric shavers and hair dryers are not expected to cause EMI problems with this device.

Declaration of Conformance

This product is CE marked and has been designed and tested in accordance with the following directives and standards:

EU MDR 2017/745	Regulation (EU) 2017/745 on Medical Devices
WEEE Directive 2012/19/EU	Waste Electrical and Electronic Equipment
Battery Directive 2013/56/EU	Batteries and accumulators
Product Safety Directive 2001/95/EC	General product safety
RoHS Directive 2011/65/EU	Restriction of hazardous substances
EMC Directive 2014/30/EU	Electromagnetic compatibility
Packaging Directive 94/62/EC	Packaging and packaging waste
IEC 60601-1-2	EMC for medical electrical equipment

Emissions tested

- EN 55011:2009 + A1:2010 — Radiated emissions, battery-powered mode. Class B.
- EN 55032:2015 — Radiated emissions, battery-powered mode. Class B.

Immunity Tested

- EN 61000-4-2:2009 — ESD: ±4 kV & ±8 kV contact; ±8 kV & ±15 kV air. Home Healthcare Environment.
- EN 61000-4-3:2006 + A1:2008 + ISI:2009 + A2:2010 — Radiated immunity: 3 V/m, 80–6000 MHz and 10 V/m, 80–2700 MHz plus proximity fields. Home Healthcare Environment.

Radio tested

- EN 301 489-17 — Battery-powered mode.

The full EU Declaration of Conformity (LCS-WA-014) is available from the manufacturer upon request and at www.wheelair.eu

Thank you for choosing WheelAir! We strive to provide high quality and functional products that never compromise on style.

LCS Ltd,
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Grange, Co. Sligo F91 E4PW Ireland
www.wheelair.eu
2026 - Version 4
Designed and manufactured in the Republic of Ireland

MD Incident Reporting

According to EU 2017/745 Regulation on Medical Devices, in case of a serious incident that has occurred in relation to our device, the incident must be reported immediately to manufacturer – contact details on page 4 of this document -- and to the competent authority of the Country or Member State in which the user and/or patient is established.

LCS Ltd has a policy of continual product improvement and may use their right to amend this document at any time. A current version of this document is available at www.wheelair.eu