



Invacare® LiNX
Attendant Control Unit (ACU)
Compact Remote (CR)
mo-vis Scoot Control

en Remote
User Manual

This manual MUST be given to the user of the product.
BEFORE using this product, this manual MUST be read and saved for
future reference.



Yes, you can.®

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1 General

1.1 About This Manual

This document is a supplement to the product's user documentation.

This component itself does not bear a CE and a UKCA mark but is part of a product that complies with the Medical Device Regulation 2017/745, Class I and Part II UK MDR 2002 (as amended) Class I concerning medical devices. It is therefore covered by the product's CE and UKCA marking. See the product's user documentation for more information.

Only use this component if you have read and understood this manual. Seek additional advice from a healthcare professional who is familiar with your medical condition and clarify any questions regarding the correct use and necessary adjustment with the healthcare professional.

Note that there may be sections in this document, which are not relevant to your component, since this document applies to all available models (on the date of printing). If not otherwise stated, each section in this document refers to all models of the component.

Invacare reserves the right to alter component specifications without further notice.

Before reading this document, make sure you have the latest version. You find the latest version as a PDF on the Invacare website. Previous product versions may not be described in this Manual's current revision. If you require assistance, please contact Invacare.

If you find that the font size in the printed document is difficult to read, you can download the PDF version from the website. The PDF can then be scaled on screen to a font size that is more comfortable for you.

For more information about the product, for example product safety notices and product recalls, contact your Invacare distributor. See addresses at the end of this document.

Incidents leading to serious personal injury resulting from product malfunctions must be reported to the manufacturer and the competent authority of the country in which the user is established.

An overview of the competent EU Member State authorities can be found online at: <http://ec.europa.eu/growth/sectors/medical-devices/contacts/>

For non-EU countries, check with your local government for the relevant authorities and guidelines.

For any other questions or support, contact your Invacare distributor.

1.2 Symbols in This Manual

Symbols and signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



WARNING!

Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



CAUTION!

Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.



NOTICE!

Indicates a hazardous situation that could result in damage to property if it is not avoided.



Tips and Recommendations

Gives useful tips, recommendations, and information for efficient, trouble-free use.



Tools

Identifies required tools, components and items which are needed to carry out certain work.

Other Symbols



UK Responsible Person

Indicates if a product is not manufactured in the UK.

1.3 Warranty

The terms and conditions of the warranty are part of the general terms and conditions particular to the individual countries in which this product is sold.

1.4 Service Life

We estimate a service life of five years for this product, provided it is used in strict accordance with the intended use as set out in this document and all maintenance and service requirements are met. The estimated service life can be exceeded if the product is carefully used and properly maintained, and provided technical and scientific advances do not result in technical limitations. The service life can also be considerably reduced by extreme or incorrect usage. The fact that we estimate a service life for this product does not constitute an additional warranty.

1.5 Limitation of Liability

Invacare accepts no liability for damage arising from:

- Non-compliance with the user manual
- Incorrect use
- Natural wear and tear
- Incorrect assembly or set-up by the purchaser or a third party
- Technical modifications
- Unauthorised modifications and/or use of unsuitable spare parts

1.6 Intended Use

LiNX DLX-ACU200

The LiNX DLX-ACU200 is a secondary remote module of the LiNX family, intended to allow an attendant of a powered wheelchair to interact with the LiNX System.

The DLX-ACU200 remote module allows control of drive and powered seating functions. Control can be transferred between user and attendant, and vice versa, via the remote modules in the system.

LiNX DLX-CR400, DLX-CR400LF

The LiNX DLX-CR400 and DLX-CR400LF are secondary remote modules of the LiNX family, intended to allow powered wheelchair users to interact with the LiNX System.

The DLX-CR400 and DLX-CR400LF secondary remote modules allow control of drive, powered seating and connectivity functions (depending on the configuration of the system). The DLX-CR400 and DLX-CR400LF remote modules are intended to be used with a LiNX module/remote module capable of providing information about the active user input. The DLX-CR400 contains a standard-force joystick, while the DLX-CR400LF contains a low-force joystick intended for users who are unable to use a standard-force joystick.

mo-vis Scoot Control

The Scoot Control is a steering device which can be connected directly to the wheelchair electronics, to control the power wheelchair and its functions. It is intended to support an attendant in controlling or maneuvering a power wheelchair, both inside and outside.

1.7 General Safety Notes



WARNING!

Risk of injury or damage to the power wheelchair

Do not install, maintain or operate this equipment before you have read and understood all the instructions and all the manuals for this product and all other products that you use or install together with this product.

- Follow the instructions in the user manuals.



WARNING!

Risk of serious injury or damage to the power wheelchair or surrounding property

Wrong settings can make the power wheelchair uncontrollable or unstable. An uncontrolled or unstable power wheelchair can cause an unsafe situation such as a crash.

- Performance adjustments must only be made by qualified technicians or by persons who completely understand the programming parameters, the adjustment process, the configuration of the power wheelchair and the capabilities of the driver.
- Performance adjustments must only be made in dry conditions.



WARNING!

Risk of injury or damage due to electrical shorts

Connector pins on cables connected to the power module can still be live even when the system is off.

- Cables with live pins should be connected, restrained or covered (with non-conductive materials) so that they are not exposed to human contact or materials that could cause electrical shorts.
- When cables with live pins have to be disconnected, for example, when removing the bus cable from the remote for safety reasons, make sure to restrain or cover the pins (with non-conductive materials).



WARNING!

Risk of injury or damage to the power wheelchair

Risk of unintended movement of the power wheelchair or seating system when loose personal belongings (e.g. jewellery, scarfs) become entangled around the joystick.

- Make sure that any loose items are clear of the joystick when power wheelchair is powered up.
- Power off power wheelchair immediately to stop any movement.



CAUTION!

Risk of injury from hot surfaces

Remote module can get hot when exposed to strong sunlight for long periods.

- Do not leave power wheelchair in direct sunlight for long periods.

**CAUTION!****Risk of injury due to unintended movement**

It is recommended that the power wheelchair, fitted with a Gyro module, has a drive function with disabled Gyro. If the power wheelchair is used in a moving vehicle (e.g. boat, bus or train) maybe the Gyro function is impaired and drive demands can result in unintended movement.

- When driving on a moving vehicle choose a drive function with disabled Gyro.
- If the power wheelchair does not have a drive function with disabled Gyro, contact your Invacare provider.

**NOTICE!**

If you touch the connector pins, they can become dirty or they can be damaged by electrostatic discharge.

- Do not touch the connector pins.

**NOTICE!**

There are no user-serviceable parts inside any case.

- Do not open or disassemble any case.

2 Product Overview

2.1 Main Parts Attendant Control Unit (ACU)

The remote is the input that operates the power wheelchair's functions and defines the icon displayed.



Ⓐ	Power button (with status LED), EMERGENCY STOP	- power up or power down the system, if remote is remote-in-charge - view the system's status - view fault indications (flash codes) - request to be remote-in-charge - lock the system - emergency stop power wheelchair, if no restriction has been set
Ⓑ	Attendant-in-charge indicator	indicate that attendant control unit is in charge of the system (ACU)
Ⓒ	Drive function indicator	indicates selected Attendant drive function
Ⓓ	Seating function indicator	indicates the selected seating function
Ⓔ	Mode button	select function within attendant profile
Ⓕ	Joystick	control speed and direction of drive and seating function

2.2 Main Parts Compact Remote Module (CR)

The remote is the input that operates the power wheelchair's functions and defines the icon displayed. This overview applies for DLX-CR400 and DLX-CR400LF with low force joystick.



(A)	Power button (with status LED), EMERGENCY STOP	- power up or power down the system, if remote is remote-in-charge - view the system's status - view fault indications (flash codes) - request to be remote-in-charge - lock the system - emergency stop power wheelchair, if no restriction has been set
(B)	Connectivity indicator	indicate that connectivity function is enabled and active (CR)
(C)	Drive function indicator	indicates selected Attendant drive function
(D)	Seating function indicator	indicates the selected seating function
(E)	Mode button	select function within attendant profile
(F)	Joystick	control speed and direction of drive and seating function

2.3 Drive / Seating Function Indicators

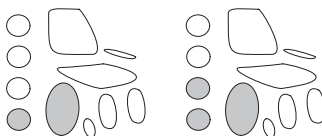


Drive and seating function indicators (A) to (C) are in the centre of the remote module and contain LED lights that light up, pulse or flash depending on the seating function, drive profile, and status (inhibit or fault).

The drive and seating functions are indicated by the:

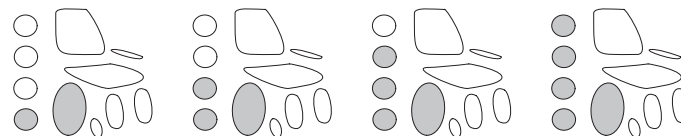
	ACU	CR and CR-LF
(A)	Attendant drive function indicator	Compact remote drive function indicator
(B)	Seating indicator	
(C)	Drive indicator	

Attendant Drive Function Indicator (ACU Only)



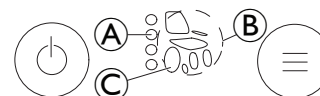
The attendant drive function indicator shows the selected attendant drive function using one or more LEDs. There can be up to four attendant drive functions, one is set as a factory default.

Drive Function Indicator (CR and CR-LF Only)



The drive function indicator shows the selected compact remote drive function using one or more LEDs. There can be up to 4 drive functions, two are set as a factory default. For changing the drive function, refer to 3.4 *Mode Button*, page 15.

Drive Function Indicator



The drive function indicator (C) lights up in combination with or without other indicators when:

- Power wheelchair is ready to drive, refer to 3.6.1 *Attendant-in-Charge Indication (Attendant Control Unit)*, page 17 and 3.6.2 *User-in-Charge Indication (Compact Remote Module)*, page 17.
- A new drive function has been selected.
- Power wheelchair can be driven at reduced speed only, refer to 3.6.6 *Drive Slow-down Indication*, page 19.
- Joystick is not in centre position, refer to 3.6.5 *OON Indication*, page 18.
- Power wheelchair can not be driven at all, refer to 3.6.8 *Blocked Function Indication*, page 19 and 3.5 *Lock Mode*, page 16.

Seating Indicator



The seating indicator **B** shows the selected seating function. For changing the seating function, refer to *3.4 Mode Button*, page 15.

For a list of seating functions, see the following table.

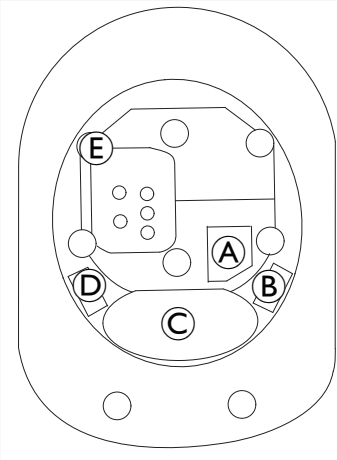
Icon	Seating Function
	Tilt
	Lifter
	Right Leg
	Recline
	Left Leg or powered central legrest
	Both Legs
	Recline and Legs

2.4 Main Parts Scoot Control



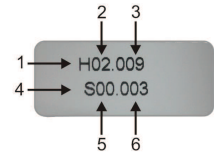
A	Handle bars to steer the power wheelchair
B	Left and right thumb throttles to move the power wheelchair forward or backward
C	Control pane, for more information refer to <i>3.7 Using Scoot Control</i> , page 20.

2.5 Labels on Product

	Ⓐ	 READ INSTALLATION MANUAL BEFORE USE	Recommendation to read the user manual before using the module.	
	Ⓑ	IPx4	This is the enclosure's ingress protection rating.	
	Ⓒ		Product label containing:	• The serial number • The part number • Allient New Zealand website address • The bar code
	Ⓓ		WEEE Conformity	
	Ⓔ		Tamper evident seal. Warranty void if seal is broken.	

Hardware and Application Firmware Version Label

The hardware and application firmware version label on a Allient New Zealand product contains information about the hardware and application version that applies for the particular module.

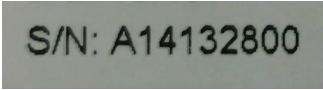


- 1. Hardware version
- 2. Hardware major version
- 3. Hardware minor version

- 4. Application version
- 5. Application major version
- 6. Application minor version

Serial Number and Date of Manufacture

The serial number on a Allient New Zealand product provides both the date of manufacture as well as a unique serial number for the particular module.



S/N: A14132800

The format, as shown above, is **MYynn timer**, where:

- **M** is for the month of manufacture, using the letters A to L (A = Jan, B = Feb, C = Mar, etc.),
- **YY** is the year of manufacture,
- **nnnnnn** is a unique six digit sequential number.

For example, the remote's serial number, as shown above, begins with A14 indicating that it was manufactured in January 2014, and its unique, sequential value is 132800.

2.6 Maintenance

- Keep all electronic components free of dust, dirt and liquids. To clean the product, use a cloth dampened with warm soapy water. Do not use chemicals, solvents or abrasive cleaners, as this may cause damage to the product.
- Once a month, check all vehicle components for loose, damaged or corroded components, such as connectors, terminals or cables. Ensure that all connectors are fully mated. Restrain all cables to protect them from damage. Replace damaged components. Check for and remove any foreign objects or material.
- Every 6 months, test all functions on the controls system to ensure they function correctly.



NOTICE!

There are no user-serviceable parts in any electronic component.

- Do not attempt to open any case or undertake any repairs, else warranty will be voided and the safety of the system may be compromised.



If any component is damaged in any way, or if internal damage may have occurred (for example by being dropped), have it checked by qualified personnel before operating.

Where any doubt exists, consult your nearest Invacare provider.

3 Usage

3.1 Requesting Control of Power Wheelchair

The remote-in-charge is the remote that controls the power wheelchair. If the secondary remote is not the remote-in-charge, then the secondary remote is not able to drive the power wheelchair or control the seating functions and all LEDs on the secondary remote are switched off.



By default, the remote module, that powers up the power wheelchair, is in-charge of the power wheelchair.



1. Press button on remote module that you want to use to control the power wheelchair.
The request is accepted and control is passed on from one remote module to another remote module in the system. The power wheelchair is ready-to-drive.



A restriction can be set, so that the secondary remote can not become remote-in-charge, refer to *3.6.3 Restricted User Indication (Attendant Control Unit)*, page 18.

3.2 Using the Joystick



CAUTION! **Risk of injury**

The secondary remote modules may only be used with the authorised joystick knobs.

- Use of any other joystick knob requires that the installer tests and confirms that the joystick returns to the neutral position whenever the joystick is deflected.



- Tests with the device mounted horizontally and with a water soaked knob (foam knobs only) are required if the installer judges these risks as significant.



CAUTION! **Risk of pinching**

As the joystick is moved, the size of the gap between joystick skirt and top of module's body reduces.

- Instruct user to release joystick if any body part becomes pinched from deflecting joystick.

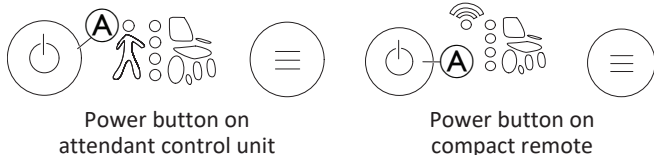
The joystick controls the direction and speed of the power wheelchair's drive and seating functions. When the joystick is deflected from the centre (neutral) position, the power wheelchair moves in the direction of the joystick movement.

The speed of the power wheelchair or powered seating function is proportional to the joystick deflection, so that the further the joystick is moved from the neutral position, the faster the power wheelchair or powered seating function travels. If the user moves the joystick back to the neutral position, the power wheelchair or powered seating function slows down and stops.

If the user releases the joystick from any position other than the neutral position, the joystick will return to the neutral position and the power wheelchair slows down and stops.

The joystick can also be used to wake up the system when in sleep mode.

3.3 Power Button (with Status LED)



The power button **A** is on the left-hand side of the remote module, and contains a status LED that lights up or flashes depending on the status of the system:

- OFF - system down or sleeping
- Red (flashing) - powered ON - fault, refer to *4.2 Fault Indication*, page 22.
- Green - powered ON, ready to drive, the remote is the remote-in-charge, refer to *3.6.2 User-in-Charge Indication (Compact Remote Module)*, page 17 or *3.6.1 Attendant-in-charge Indication (Attendant Control Unit)*, page 17.

You can use the power button for:

- Powering the system up and down
- Requesting to be user-in-charge
- Performing an EMERGENCY STOP
- Using lock function
- Interrupting or waking up from sleep
- Disabling connectivity (compact remote module only)

Powering up and down



1. Press the button to switch the system ON.
If there is no fault with the system, the status indicator lights up green.
2. Press the button to switch the system OFF.
The system powers down and the status indicator switches OFF.



By default, the remote module, that powers up the power wheelchair, is in-charge of the power wheelchair.



If the attendant is not the user-in-charge, then the attendant control unit's power button can not power down the system. Pressing the power button when not the user-in-charge, instead, sends a request to the system to become the user-in-charge.

Requesting to be User-in-charge

To request control of the power wheelchair via secondary remote, refer to *3.1 Requesting Control of Power Wheelchair*, page 13.

Performing an EMERGENCY STOP



1. Press the button.

In the event that the power wheelchair is in a runaway situation or you want to stop a seating motion quickly, you can EMERGENCY STOP the power wheelchair. To stop the power wheelchair the remote of the user, that wants to stop the power wheelchair must be remote-in-charge.

If the remote that you want to perform an emergency stop on is not remote-in-charge, you must request control / to be in-charge of the power wheelchair first, refer to *3.1 Requesting Control of Power Wheelchair*, page 13.



If the remote-in-charge has been restricted, the power wheelchair does not perform an emergency stop.

Using Lock Function

Lock function prevents unintentional use of the system when the system is temporarily not required, refer to 3.5 *Lock Mode*, page 16.

Disabling Connectivity System-wide



This chapter applies only for compact remote modules DLX-CR400 and DLX-CR400LF.

Connectivity gives access to more profiles. Connectivity can be disabled.



1. Press and hold button for three seconds during powering up.
The connectivity indicator and status LED pulse slowly for five seconds, then connectivity indicator LED switches off.

Interrupting or Waking up from Sleep

Before the system goes to sleep there is a transition period during which you can interrupt the system from going to sleep.



1. Press the button.
- Or:
2. Move the joystick.

3.4 Mode Button



Mode button on attendant control unit



Mode button on compact remote

The Mode button ⑧ is on the right-hand side of the remote module and contains a status LED that lights up, flashes or pulses depending on the status of the system:

- Lit together with all other LEDs on display — system powering up or remote has become remote-in-charge, refer to 3.6.1 *Attendant-in-charge Indication (Attendant Control Unit)*, page 17 or 3.6.2 *User-in-Charge Indication (Compact Remote Module)*, page 17.
- Flashing 3x — remote locked, refer to 3.5 *Lock Mode*, page 16.
- Lit while all other indicators are switched off — firmware upgrade mode.

You can use the mode button for:

- On attendant control unit:
 - Selecting attendant drive / seating functions within the attendant profile
- On compact remote module:
 - Selecting the drive/seating function within a profile (short press)
 - Selecting the profile (long press)

Selecting Drive / Seating Function

You can use the mode button to navigate a list of drive and seating functions. The corresponding drive and seating function is indicated in the display. You can use the mode button to navigate a list of drive and seating functions. The corresponding drive and seating function is indicated in the display.



1. Short press the button until the correct drive / seating function is indicated in the display.
2. With each subsequent short press you select the next available user function.



When the last function in the list is reached, a further short press selects the user function at the beginning of the list.



All drive / seating functions can be selected by the attendant via the attendant control unit.

Selecting Profile

A profile is a set of settings for an environment, for example “at home”, “at work”, etc. You can use the mode button to navigate a list of profiles. The corresponding profile is indicated in the display.



1. Long press the button until the correct drive profile is indicated in the display.
2. With each subsequent long press you select the next available drive profile.



When the last profile in the list is reached, a further long press selects the profile at the beginning of the list.

3.5 Lock Mode

The lock mode is not set at the factory for every system, but can be enabled by your provider. If this parameter is set ON, you can use the lock function to restrict who can use the system, but also can help prevent unintentional use of the controls for when the system is not required for any length of time. You can only lock a system when it is powered up and you are user-in-charge. You can use the lock function to restrict who can use the system, but also can help prevent unintentional use of the controls for when the system is not required for any length of time. You can only lock a system when it is powered up and you are user-in-charge. Besides, if the power wheelchair or a powered seating function cannot move further into one direction, there is *3.6.7 Lock-out Indication, page 19*.

Locking the System



1. Press and hold the button for four seconds. When entering a locked state, the mode button flashes quickly, three times. The system is locked.

Unlocking the System



The secondary remote module can lock a system, but cannot unlock it since it has no touch display or horn button. To unlock a system locked by a secondary remote module, use a primary remote module.

For Primary Modules with Touch Displays:



1. Press the button once to power up.
2. Within 10 sec after power up, tap and hold lock screen. A white square begins to show on screen.
3. Release hold only after white square has closed completely. The system is unlocked.



To unlock the system, an unlock sequence must be performed by the user within a specific time frame. If the sequence is not performed correctly, within the time frame, the system will remain locked and the system will power down again.

For Primary Modules with Physical Horn Buttons (e.g. REM2xx):



1. Press the button.



2. Press the button twice. The system is unlocked.



The horn button must be pressed twice within 10 seconds after pressing the power button.

3.6 Reading the Indicators

3.6.1 Attendant-in-charge Indication (Attendant Control Unit)



Attendant-in-charge indication Attendant-not-in-charge indication

The attendant-in-charge indication displays which remote module, attendant control unit or primary remote module, has control of the power wheelchair.

If the attendant control unit takes over control of the system, or powers up with the attendant in charge, the power button and mode button LEDs, drive function indicator, attendant indicator and the selected function on the attendant control unit switch on immediately, depending on the system status. If the primary remote has control of the system, all LEDs are switched off on the attendant control unit.

3.6.2 User-in-Charge Indication (Compact Remote Module)



User-in-charge indication

User-not-in-charge indication

The user-in-charge indication displays which remote module, compact remote module or primary remote module, has control of the power wheelchair.

If the compact remote module takes over control of the system, or powers up with the compact remote module in charge, the power button LEDs, drive function indicator, connectivity indicator and the selected function on the compact remote module on the compact remote module switch on immediately. If the primary remote module has control of the system, all LEDs switch off on the compact remote module.

3.6.3 Restricted User Indication (Attendant Control Unit)



The secondary remote can not become the remote-in-charge, if a restriction has been set. When a restricted user requests control, the request is denied. The status LED lights up green, then dims and finally switches off again.



For restricting a remote, contact your Invacare provider.

3.6.4 Sleep Indication

When transitioning into sleep mode, all lit LEDs start dimming for a period of two seconds until LEDs are completely switched off. All indicators remain switched off when the system is in sleep mode.



Deactivate sleep mode during transition period by moving joystick or pressing power button.



For setting sleep mode, contact your Invacare provider.

3.6.5 OON Indication

OON (“Out Of Neutral”) is a safety feature that prevents accidental driving or seating movements, when:

- the system is powering up,
- after a function change or
- when the system comes out of an inhibit or drive lock-out.

Drive OON Warning

The joystick must be in the centre position:

- when the system is powering up,
- on a function change or
- when transitioning from a drive lock-out or inhibit state.

Otherwise a drive OON warning is displayed.



During a drive OON warning, the LEDs flash continually to alert the user, and the power wheelchair does not drive. If the joystick is returned to the centre position, the warning clears and the power wheelchair drives normally.

Seating OON Warning

When the system is powering up or after a function change, no direct access switches can be active, otherwise a seating OON warning is displayed.



During a seating OON warning, the seating indicator flash continually to alert the user and the seating motions do not operate. If the direct access switches, e.g. 10-way-switch, are deactivated, the warning clears and the seating motions operate normally.

3.6.6 Drive Slow-down Indication

Drive slow down is a state that prevents the power wheelchair from driving the standard speed but allows to drive at reduced speed.



The drive LED and the corresponding seating function LEDs slowly pulse. The LEDs pulse for the duration of the operation of the driving or seating function.

3.6.7 Lock-out Indication

Lock-outs make sure the power wheelchair only operates in positions that are safe for the user. Before the power wheelchair reaches a certain angle or height, a lock-out sets in.

Drive Lock-out

A drive lock out is a state that prevents the power wheelchair from being driven.



When the power wheelchair is in a drive inhibit state, the drive wheel LED and the corresponding seating function LEDs flash on and off. This sequence continues for the duration of the drive lock-out.



To end the lock-out, move power wheelchair back into safe position.

Actuator Lock-out

An actuator lock out is a state that prevents seating motions.



When the power wheelchair is in an actuator lock-out state, the seating function LEDs flash for a minimum of three flashes, unless interrupted. The sequence continues for the duration of the actuator lock-out.



To end the lock-out, move power wheelchair back into safe position.

3.6.8 Blocked Function Indication

A blocked function indication is displayed if the user tries to change a function while operating in another function. A change of function is by default not permitted.

The blocked function indication differs depending on what caused the block.



To avoid blocked function indications wait until one function is completed, before selecting the next function.

Blocked Drive Function



If a drive function causes the block:

- the drive wheel indicator flashes quickly three times;
- the seating indicator switches off while the drive wheel indicator flashes.
- Wait until one function is completed, before selecting next function.

Blocked Seating Function



If a seating function causes the block:

- the seating indicator flashes quickly three times;
- the seating indicator switches off while the drive wheel indicator flashes.

3.6.9 Connecting the Remote



CAUTION! **Risk of unintended stops**

If the plug of the remote cable is broken, the remote cable may come loose while driving. The remote could suddenly switch off when losing power. This forces an unintended stop.

- Always check the plug of the remote for damage. Contact your provider immediately in case of a damaged plug.



NOTICE!

The remote plug and connector socket fit together in one way only.

- Do not force them together.

1. Lightly push to connect the plug of the remote cable and the connector socket. The plug must lock in place with an audible click.

3.7 Using Scoot Control



WARNING!

Risk of injury or damage due to unintended movements of the power wheelchair

Hanging things on the scoot control can damage the handle bars and throttles. Furthermore, removing items suddenly from the throttles can lead to unintended movement of the power wheelchair if it is not powered down.

- Do not hang things (bags, backpacks, etc.) on the handle bars or the throttles.

Horizontal movements of the handle bar result in a steering action of the power wheelchair (turning). In combination with the thumb throttle it is possible to move the power wheelchair in any direction.

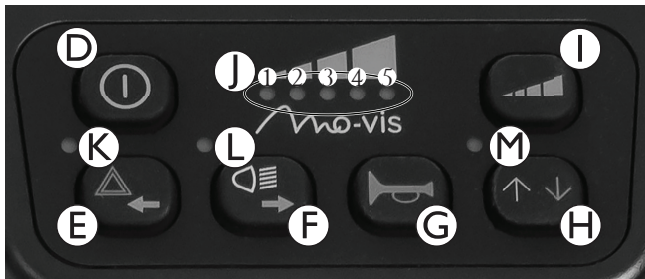
Standard configuration:

- right throttle = forward
- left throttle = backward



If both throttles are operated simultaneously, it would result in conflicting direction so the power wheelchair stops.

 Pushing harder on the throttles does not increase the speed of the power wheelchair. To increase the speed, press button ① (see explanation in the table below).



Button	Function	Action
Ⓓ	ON / OFF	If the power wheelchair is powered down when the button is pressed, the system powers on with the scoot control as remote-in-charge, for more information refer to 3.1 <i>Requesting Control of Power Wheelchair</i> , page 13.
Ⓔ	Hazard lights	Short press: Turn hazard lights on / off. Long press (2 seconds): Turn left indicator on / off.
Ⓕ	Lights	Short press: Turn lights on / off. Long press (2 seconds): Turn right indicator on / off.
Ⓖ	Horn	Horn sounds as long as pressed.
Ⓕ	Direction	Switch direction of the throttles.
①	Speed setting	Change the speed.

LED	Function	Action
① 1 to 5	Status: In charge	Speed setting: The higher the number of solid LED, the faster the speed.
	Status: Not in charge	LED 3 flashes green in heartbeat.
	Status: Configuration	LED 3 flashes green fast.
① 3	Out of Neutral	When power wheelchair is out of neutral, LED 3 is solid.
① 1, 3 and 5	Error	LED 1 and 5 are solid red, LED 3 is flashing red. For more information and how to solve the errors, contact your provider.  Only mo-vis faults are shown, LiNX faults are shown in the remote of the user.
Ⓚ	Left indicator	LED flashes green when left indicator is turned on.
Ⓛ	Right indicator / Lights	LED flashes green when right indicator is turned on. LED is solid green when the lights are turned on.
Ⓚ and Ⓛ	Hazard lights	Both LEDs flash green when hazard lights are turned on.
Ⓜ	Forward / Reverse	In standard configuration: - Forward = LED is solid green - Backward = LED is solid orange
	Not in charge	LED is off.
	Stand-by	LED flashes green or orange, depending on direction of throttle.

4 Troubleshooting

4.1 General Information on Troubleshooting



The following chapter is only relevant for LiNX DLX-ACU200, LiNX DLX-CR400 and LiNX DLX-CR400LF. For errors in the scooter control, contact your provider.

The following information is intended to support you recognize and rectify faults on the remote.
In case you require assistance, contact your authorised Invacare provider.

4.2 Fault Indication

When a fault occurs, a flash code is displayed on both the primary remote module and the secondary remote module. A flash code, which is displayed on the status indicator, is a number of flashes separated by a 1.6 second gap; the number of flashes depends on the fault. For example, one flash represents flash code one; two flashes represents flash code two, and so on.



Faults that affect the safety of the power wheelchair cause the power wheelchair to stop, while less critical ones are indicated but allow the power wheelchair to continue driving. Some faults automatically clear when the fault condition is removed (non-latched) while others are latched and must be cleared by turning the controller off, waiting five seconds, then turning the system on again.

4.3 Fault Codes and Diagnosis Codes



The status indicator is yellow when remote is active. If there is a fault detected by the LiNX system, the status indicator Ⓐ flashes yellow. The number of flashes indicates the type of fault.

The table below describes the fault indication, and a few possible actions that can be taken to rectify the problem. The actions listed are not in any particular order and are suggestions only. The intention is that one of the suggestions may help you clear the problem. If in doubt, contact your provider.

Flash Code	Fault Description	Possible Action
1	Remote fault	• Check cables and connectors. • Check other remotes, if installed. • Contact your provider.
2	Network or configuration fault	• Restart power wheelchair. • Check cables and connectors. • Recharge the batteries. • Check charger. • Contact your provider.
3	Motor 1 ¹ fault	• Check cables and connectors. • Contact your provider.
4	Motor 2 ¹ fault	• Check cables and connectors. • Contact your provider.
5	Motor 1 ¹ magnetic brake fault	• Check cables and connectors. • Check left magnetic brake is engaged. • Refer to the chapter “Pushing the Power Wheelchair in Freewheel Mode” in the user manual of your power wheelchair. • Contact your provider.
6	Motor 2 ¹ magnetic brake fault	• Check cables and connectors. • Check right magnetic brake is engaged. • Refer to the chapter “Pushing the Power Wheelchair in Freewheel Mode” in the user manual of your power wheelchair. • Contact your provider.
1	Configuration of the motors depending on the power wheelchair model	
7	Module fault (other than remote module)	• Check cables and connectors. • Check modules. • If the power wheelchair was stalled, reverse away or remove obstacle. • Recharge batteries. • Contact your provider.

5 Technical Data

Permissible Operating, Storage and Humidity Conditions	
Temperature range for operation according to ISO 7176-9:	• -25° ... +50 °C
Recommended storage temperature:	• 15 °C
Temperature range for storage according to ISO 7176-9:	• -40° ... +65 °C
Operating humidity range according to ISO 7176-9:	• 0 ... 90 %RH
Degree of protection:	• IPX41
1 IPX4 classification means that the electrical system is protected against spray water.	

Operating Forces					
	DLX-CR400	DLX-CR400LF	DLX-ACU200		Scoot Control
Joystick	• 1.6 N	• 1.1 N	• 1.6 N	Thumb throttle	• 2.9 N
Power button	• <2.5 N	• <2.5 N	• <2.5 N	Control panel buttons	• 0.9 N
Mode button	• <2.5 N	• <2.5 N	• <2.5 N	Handle bar	• 24.5 N

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