Invacare® | **LiNX**® **Control System**

Smart Technology: Redefining Mobility

LiNX®   INVACARE
Yes, you can.®

Invacare **LiNX** is our insight inspired control system with advanced technology that provides a superb driving experience and allows professionals to configure and tailor powerchairs quickly and more intuitively. Key features include:

- Touch screen remote
- Remote selection
- Choice of alternative controls
- Simple wireless programming
- Enhanced drive experience
- Range of power modules

Touch Screen Remotes

NEW Touch Screen

Invacare **LiNX** introduces next generation technology to powerchairs with the REM400 remote that requires minimal force to operate. This innovative remote allows it to be configured to a clients' physical and cognitive ability, making it suitable for a range of disabilities.

- Swipe or tap-only operation including interaction settings to define the threshold between the swipe movements or taps

- Direct access or step by step menu operation

- Adjustable brightness

- Configurable for left or right handed use

- Glove mode setting

- Screen lock out ability

- Mix and match function in the menu

- Profiles and functions accessible via the touch screen, buttons or joystick

- Mouse mover with touch on screen mouse clicks

The development of the REM400 has involved extensive research, trials and tests; the joystick knob has been specifically designed to make it easier to access the screen; the on/off switch is positioned out of the way to prevent accidental turn off; the joystick orientation can be adapted to suit a range of motions and there are two programmable multifunctional direct access buttons plus two pre-configured stereo jack inputs.

REM500 – Touch Screen Display

The REM500 is a display only version of the REM400, retaining the 3.5" interactive touch screen with ON/OFF and multi-purpose buttons located at the bottom. It also features a charging port, two stereo jack inputs and has been specifically designed for use with specialist alternative control inputs

Built-in Bluetooth

The REM400 and REM500 controls have built in Bluetooth which allows individuals to be connected to their computers, laptops and Macs. **LiNX** allows for connection of up to 3 devices simultaneously and it has mouse mover functionality.

MyLiNX App

The innovative app provides clear battery life and fault code information related to the powerchair, as well as an insight into its diagnostics and overall health. It also gives clients a simple way to communicate chair issues to their provider.

Remote selection

LiNX offers a range of remotes to suit many needs, all of which are easy to understand and simple to use.

REM110 – Drive Only Remote

The **LiNX** range of controls start with a simple set-up that features the drive function, horn and a speed dial.

REM211 – Drive and Seating Remote

The additional seating functions on this control are displayed with easy to understand icons.

REM216 – Drive, Seating and Lights Remote

The REM216 has added light buttons to operate hazard lights, lights and indicators.
- The button for the active function is bright and will also be dim for inactive functions
- The primary and secondary functions on the light buttons are for lights and hazards.

These three remotes have the same familiar design and share the same key features:

- Large on/off button allowing easy targeting
- Ergonomic joystick requiring a low force to operate
- Accurate system status and battery gauge display
- Easy to use physical speed dial
- Icon based menu structure (REM211 and REM216 only)
- Simple keyless lock function

Choice of alternative controls

To maximise control and independence, the REM400 and REM500 allow a selection of alternative controls and joysticks* to be used on Invacare's remarkable powerchairs.

Joystick options

Extremity control joystick** (ASL138)

Very small profile joystick ideal for chin control due to the outer shell being resistant to saliva and other foreign objects. Comes with a headrest and an egg switch for function and profile changes. Its built in Bluetooth allows simple access to computers or communication devices.

MEC joystick** (ASL130)

Designed for individuals with muscle weakness or fine motor control that require a very low force joystick, operated with a limited range of motion. Has a built in mode change function and Bluetooth for simple access to computers or communication devices, along with a choice of joystick tops.

Compact joystick single switch (ASL133)

Has a single function switch in the top of the joystick cap and a textured end for a tactile feel. The cap of the joystick is moulded to the base, ideal for those with high muscle tone / uncontrolled movements.

Paediatric compact joystick (ASL132)

A joystick in a compact package designed for paediatric use. Its shallow base makes it ideal for midline mount.

Remote options

Compact remotes** (DLX -CR400/DLX-CR400LF)

Compact joystick with access to multiple profiles and functions, ideal for those with a limited range of motion; also available in a low force joystick version.

* With Ultra Low Maxx Seating only. The Modulite seating system allows selected secondary controls only – Extremity control joystick as chin control option, Compact Remote, Compact Remote Low Force, IDC Dual Control and Attendant Control Unit.

Head Controls

Head array** (ASL104/ASL104P)

Three proximity sensors mounted in the headrest which comes with an egg switch that can be configured for menu navigation and mounted in a location accessible for the client. It has built in Bluetooth, allowing simple access to computers or communication devices, and is available with straight pads (ASL104) or adjustable wings (ASL104P).

A great feature of the **LiNX** technology is the intelligent system has the ability to interface with a range of third party remotes.

Sip 'n' Puff head array (ASL109)

Combines simple sip and puff (forward / reverse) controls with head movements (left / right). Allows more flexibility and is easier to control than a Sip 'n' Puff on its own. The lip switch resets or changes the function or profile.

Proximity Switch Control

Four Switch Proximity array (ASL106)

Four proximity sensors mounted inside an eclipse tray suitable for those with a defined range of motion requiring no force. It also has built in Bluetooth, allowing simple access to computers or communication devices.

Dual Controls

Attendant Control Unit** (DLX-ACU200)

Allows access for up to 3 drive functions and all seating functions with graphic display, attendant in charge indicator and status LED's.

IDC Dual control (IDC)

Allows access to the drive function, speed dial, forward and reverse option and speed handle with emergency stop feature. It also indicates who is in control, the on/ off status and the forward and reverse status.

Remote Stop Switch (ASL504)

Allows the TDX2 Ultra to be stopped within a range of 6 metres via one switch and will allow it to move again. Useful when intervention is needed during training/chair set up/ assessments.

USB Charger (DLX-USB02)

2 x USB 2.0 ports supply up to 1A each to keep devices charged. Rail mounting feature enables easy access.

10-way switch

Access to 5 main powered positioning functions that can be re-programmed and re-labelled; ideal for those who have difficulty reaching or positioning their hand to the buttons on the control.

Wireless Triple Switch Receiver (ASL557-3)

Gives head array, proximity array, MEC joystick and chin joystick wireless access to communication devices when a separate switch is inserted in the user port of the interface.

Wireless Mouse Emulator (ASL558)

Gives head array, proximity array, MEC joystick and chin joystick wireless access to PC, Mac and laptop when a separate switch is inserted in the user port of the interface.

Switches

A selection of different sized and coloured Buddy and Piko buttons available that can be plugged into the REM400 or REM500 ports and are programmed as standard for on/off, function change and profile change. Set-up of switches can be changed to different access methods: momentary, latched, single or double click, short press or long press.

** Require no additional interface boxes and have multiple function templates already stored in the system for quick and easy set up.

Simple wireless programming

Professionals can now configure powerchairs quickly and intuitively to each individual thanks to the revolutionary programming interface built into **LiNX**.

- The clean and simple **LiNX** interface makes it easy to configure individual settings via a PC, laptop or iOS device
- The next generation technology built in to **LiNX** allows wireless access to diagnose and update the control system
- The enhanced diagnostic feature records statistics on how the chair has been used while performance data can also be viewed in real time
- Inputs can be assigned per function so individuals' can select a different input based on their energy level/fatigue

Enhanced drive experience

Total control

Maintaining a consistent speed when driving over uneven terrain, camber or incline can be tricky and often tiring. Intelligence within the **LiNX** system, load compensation, is constantly analysing and reacting to any differences between what should be happening with what is actually happening. The results are greater control, improved hold on slopes and greatly improved drive over soft surfaces at low speeds. The innovative inbuilt technology:

- Compensates for in-balances that may exist or develop within the powerchair, enabling a consistent drive
- Allows for more accurate and predictable control over different surfaces
- Accurate driving in tight spaces is straight forward with its low speed and creep control

Consistent over time

There are a number of variables that may lead to imbalances within a power chair – weight distribution, wear and tear etc. These factors can sometimes lead to variances in how the powerchair drives. The Invacare **LiNX** control system has adaptive load compensation which interprets, learns and adapts the motors to these changes, ensuring the drive of the powerchair is always optimised and well balanced over the lifetime of the chair.

LiNX G-Trac® technology

LiNX *G-Trac* ensures the directions indicated by the control are followed by the chair. The digital gyroscopic technology detects and corrects the smallest deviations from the intended path caused by a surface change and reduces the number of corrective actions needed. It increases point to point driving accuracy, reducing the number of physical and cognitive demands required, especially for alternative controls.

ACT - Actuator control module

Module to expand the system for further powered positioning functionality with 2 or 4 channels.

- On-board angle sensor
- Status LED
- Refined seating control
- Per channel control of actuator current
- Connectors:
  – 2 x bus ports
  – 2 or 4 x actuator ports
  – 1 x C I (control input) port including 4 control inputs pins and 2 ground pins

Power modules

LiNX power modules allow for a seamless transition from a simple driving configuration up to configurations featuring multiple actuators and lights.

- 60, 75 and 120 A rating
- 2 x actuator outputs (optional)
- Lighting outputs (24V / 12V) (optional)
- 2 x bus sockets
- New Load Compensation Profiles
- Real-time clock
- 3 x general purpose control inputs (CI) for inhibit, function change and drive slow down
- 1 x general purpose control input/output
- G-Trac® module compatible
- On-board charger inputs
- Statistics recorder

Input module

Required for a selection of alternative controls, including Sip 'n' Puff, as well as third party alternative inputs.

- Configurable V out for sensor support
- Accepts proportional & switched inputs
- Layout:
  – DB9 serial port
  – Stereo jack socket for control inputs
  – Sip 'n' Puff input nozzle
  – 2 x bus sockets
  – White status LED (active demand input)

LiNX - UK - 06/2017 - 1626695

Like us on Facebook:
Invacare UK

Follow us on Twitter:
@Think_Mobility

Follow us on YouTube:
Invacare Ltd – UK

For more comprehensive information about this product, including the product's user manual, please visit www.invacare.co.uk

The **LiNX** word, mark and logos are registered trademarks owned by Dynamic controls, and any use of such marks by Invacare is under license.

Scan here to access the **LiNX** website.

INVACARE
Yes, you can.®