




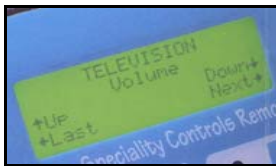


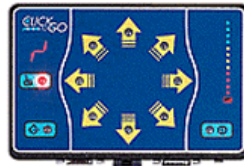
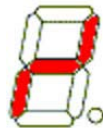


Comparison of Integrated Control Systems

An integrated control is a device that enables a single control interface, such as a switch or joystick, to operate two or more assistive devices. The following table provides a comparison of the integrated controls for powered mobility that are currently available in Australia. These integrated controls allow the user to drive a powered chair, operate a speech-generating device, control their environment and in some cases, control computer mouse movement and powered chair actuators.

Features	DX IRIS	WiseDX	SRS100/Q-Controls	ClickToGo	Genie Joystick
					
MODULES (STANDARD)	<ul style="list-style-type: none"> • Specialty controls remote (SCR) • DX bus 4-way socket • DX IRIS • DX power module • Joystick/switch/etc 	<ul style="list-style-type: none"> • Main unit • Display unit • DX power module • DX G80 master remote • Joystick/switch/etc 	<p><u>Penny & Giles</u></p> <ul style="list-style-type: none"> • SRS 100 controller • Penny & Giles power module • Penny & Giles Pilot+ or Omni+ • Switch (if required) <p><u>Dynamics</u></p> <ul style="list-style-type: none"> • SRS 100 controller • DX SCR • DX Power Module • DX ECU • Joystick/switch/etc 	<ul style="list-style-type: none"> • Main unit • DX power module • Switch(es) 	<ul style="list-style-type: none"> • Main unit • DX power module
ADDITIONAL MODULES	The DX PCMR or GEWA mouse/ keyboard interface is required for computer access	The GEWA mouse/ keyboard interface is required for computer access	The P&G headway mouse emulator is required for computer access	A PROG III or other switch operated device is required for environmental control	A PROG III or other switch operated device is required for environmental control & the GEWA mouse/ keyboard interface is supplied for computer access

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MOUNTING REQUIREMENTS	Additional modules to be mounted on the chair are the 4-way socket, SCR and IRIS. The SCR may require a custom mount to position it in the visual field of the user.	Additional modules to be mounted on the chair are the main unit and display. The display may require a custom mount to position it in the visual field of the user.	<u>Penny & Giles</u> Additional module to be mounted on the chair is the SRS 100. This may require a custom mount to position it in the visual field of the user. <u>Dynamics</u> Additional modules to be mounted on the chair are the SRS100 & SCR . These may require a custom mount to position them in the visual field of the user	The ClickToGo replaces the existing joystick on the wheelchair. This may require a custom mount to position it in the visual field of the user.	The Genie Joystick simply replaces the existing joystick on the wheelchair.
CONTROL DEVICE	Any Dynamics secondary control device can be used, <ul style="list-style-type: none"> • Standard joystick • Heavy duty joystick • 1-5 switch input device • Finger control • Sip & puff 	Any Dynamics secondary control device can be used, <ul style="list-style-type: none"> • Standard joystick • Heavy duty joystick • 1-6 switches • Finger control • Sip & puff 	<ul style="list-style-type: none"> • Joystick • Remote joystick • 1-5 switch input device • Sip & puff 	<ul style="list-style-type: none"> • 1-5 switches • An additional attendant control can be connected 	<ul style="list-style-type: none"> • Joystick (any Dynamics joystick can be used as the genie can be supplied as a controller without a joystick) • 2 switches can be connected for function buttons
CONTROL SYSTEM	Dynamics	Dynamics	Dynamics or Penny & Giles	Dynamics	Dynamics
INFRA-RED CONTROL	The IRIS contains a GEWA PROG III, which is a trainable infra-red remote, so it can control any IR device	The WiseDX contains a GEWA PROG III, which is a trainable infra-red remote, so it can control any IR device	The SRS 100 is a universal IR remote. IR codes for hundreds of different devices can be loaded into the SRS.	The ClickToGo does not have built in environmental control, but can be interfaced to any switch controlled IR control. (eg GEWA PROG)	The Genie does not have built in environmental control, but can be interfaced to any switch controlled IR control. (eg GEWA PROG)

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DISPLAY	 <p>Backlit LED display with relatively small custom text</p>	 <p>LED Alpha numeric display, 8-characters max plus a graphical display that depicts various modes using different colours & patterns</p>	 <p>LCD screen. Picture Based menu with some text</p>	 <p>Eight high intensity LEDs are arranged in a circular pattern indicating possible drive directions. A further 3 LEDs indicate system modes.</p>	 <p>A 7 segment display indicates the operating mode</p>
VISIBILITY	Poor in bright sunlight	Poor in bright sunlight	Poor in bright sunlight	Poor in bright sunlight	Poor in bright sunlight
AUDIBLE FEEDBACK	None	Associated with each direction on the scanner is a beep, with a different noise for each direction and for other mode selections.	When scanning through the menu the system has an audible beep. There is also a different sound associated with selections	When scanning the system has an audible beep that can be disabled if desired.	None
ITEMS THAT CAN BE CONTROLLED OR INTEGRATED	<ul style="list-style-type: none"> • Wheelchair - Driving - Seat Actuators • IR operated devices • Computer (via DX-PMCR) • Communication device 	<ul style="list-style-type: none"> • Wheelchair - Driving • IR operated devices • Computer (via GEWA mouse/ keyboard interface) • Communication device 	<ul style="list-style-type: none"> • Wheelchair - Driving - Seat Actuators • IR operated devices • Computer (via headway mouse emulator receiver) • Communication device 	<ul style="list-style-type: none"> • Wheelchair - Driving - Seat Actuators • Switch operated environmental control device • Switch operated communication device 	<ul style="list-style-type: none"> • Wheelchair - Driving - Seat Actuators • Switch operated environmental control device • Computer (via GEWA mouse/ keyboard interface) • Switch operated communication device

Features	DX IRIS	WiseDX	SRS100/Q-Controls	ClickToGo	Genie Joystick
COMPUTER ACCESS	<ul style="list-style-type: none"> • The IRIS transmits IR signals to the PCMR, enabling the user to control the mouse using their wheelchair control device. • The GEWA mouse/keyboard interface can also be used with the IRIS for cordless control of the mouse. • The IRIS does not allow for single switch scanning for mouse access • If text is required an on-screen keyboard will be needed. 	<ul style="list-style-type: none"> • The wiseDx transmits IR signals to the GEWA mouse/keyboard interface, enabling the user to control the mouse or keyboard using their wheelchair control device. • The wiseDX does not have a scanning mouse facility • The wiseDX does not allow for single switch scanning for mouse access • If text is required an on-screen keyboard will be needed. 	<ul style="list-style-type: none"> • The SRS transmits IR signals to the PC mouse emulator (made by P+G), enabling the user to control the mouse using their wheelchair control device. • A computer can be accessed using scanning, allowing for step scanning, auto scan or inverse scan. • The scan speeds and parameters are programmable. • If text is required an on-screen keyboard will be needed. 	<ul style="list-style-type: none"> • The ClickToGo can be connected to a wireless switch and used in association with a switch interface and appropriate scanning software to allow for single switch computer access. • The ClickToGo does not allow for single switch scanning for mouse access • If text is required an on-screen keyboard will be needed. 	<ul style="list-style-type: none"> • The Genie transmits IR signals to the GEWA mouse/keyboard interface, enabling the user to control the mouse or keyboard using their wheelchair control device. • An on-screen keyboard is provided if text is required
USER COGNITIVE REQUIREMENTS	<p>The menu is text based; hence a level of literacy is required. It is also necessary to access up to 3 levels of commands to operate a single device. Quite a high cognitive level is required to navigate menus.</p>	<p>The menu is text based, with additional patterns. A level of literacy is required to navigate complex menus, but simpler menus may be accessed using pattern recognition. It is also necessary to access two to three levels of commands to operate a single device. Quite a high cognitive level is required to navigate the menus</p>	<p>The Menu is picture based allowing for semi-customisation of icon size. It uses easy to recognise pictures and small combined text make up its multiple layers of menus. A medium to high cognitive level is required to navigate the menus</p>	<p>The ClickToGo uses a simple array of icons to represent various functions. A medium cognitive level is required. No formal literacy is required.</p>	<p>The Genie uses a 7-segment display to represent various modes. Whilst this does use numbers to represent modes, users can use pattern recognition to identify modes. A medium to high cognitive level is required. No formal literacy is required.</p>

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PROGRAMMING (SETUP)	<p>The SCR menus are programmed and modified on a PC using the Dynamic Wizard.</p> <p>A qualified technician is required to program and setup the system</p>	<p>Programs & modifications are performed using accompanying 'wiseUP' software.</p> <p>Initial setup also requires programming of the DX wheelchair controller, using the Dynamic Wizard.</p> <p>A qualified technician is required to program and setup the system.</p>	<p>The SRS100 menus are programmed and modified using the SRS Management software.</p> <p>A qualified technician is required to program and setup the system</p>	<p>Initial setup requires programming using the Dynamic Wizard.</p> <p>After this programming of the ClickToGo is carried out on the device itself.</p> <p>A qualified technician is required to program and setup the system.</p> <p>Minor changes to scan speeds & patterns are easily adjusted by a therapist.</p>	<p>Initial setup requires programming using the Dynamic Wizard.</p> <p>After this programming of the Genie is carried out on the device itself.</p> <p>A qualified technician is required to program and setup the system.</p> <p>Minor changes to switch inputs & ECU/computer functions can be adjusted by a therapist.</p>
PRICE *setup & support costs will vary for different users & configurations	~ \$5000 (base package) + setup & support*	\$7499 (hardware) + setup & support * The wiseDX is not sold without a comprehensive set-up and support package	~\$10000-\$11000 (base package) + setup & support*	\$2950 + setup & support + extra for ECU	\$3750 + setup & support + extra for ECU

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TECHNICAL SUPPORT	<p>The system is supplied in South Australia by any supplier of the dynamics controllers. Rollerchair provide technical support and setup with the unit</p> <p>Home Health Equipment Pty Ltd Craig Bowman 818 Port Road Woodville SA 5011 Ph: 8244 5900</p>	<p>The WiseDX is marketed in Australia by Spectronics</p> <p>Purchase set-up and technical support is provided by NovitaTech www.novitatech.org.au</p> <p>NovitaTech PO Box 2438 Regency Park, SA, 5942 Ph. 1300 85 55 85</p>	<p>The Q-control is distributed in Australia by Pride Mobility. Pride can be contacted to locate a local dealer.</p> <p>Pride Mobility Products 21 Healey Rd Dandenong, Vic 3175 Ph. (03) 9706 4611</p>	<p>The ClickToGo is marketed in Australia by Spectronics</p> <p>It is manufactured in Ireland by Unique Perspectives www.click2go.ie</p> <p>First in technical support will be provided by Spectronics or other approved ClickToGo centres in Australia or NZ.</p> <p>Additional support will be available through Brian Dillon on email: info@click2go.ie</p>	<p>The Genie Joystick is marketed in Australia by Spectronics</p> <p>It is manufactured in Ireland by Unique Perspectives www.click2go.ie</p> <p>First in technical support will be provided by Spectronics or other approved ClickToGo centres in Australia or NZ.</p> <p>Additional support will be available through Brian Dillon on email: info@click2go.ie</p>