



## DUAL PRO HEAD ARRAY FITTING AND PROGRAMMING







## Step 1

Order the Dual Pro Head Array Retro Fitting Kit - Part Number 20011220

#### Within this kit you get the following:

Omni

Omni Mounting (Flexible arm)

Dual Pro Head Array







#### Step 2

The Dual Pro Head Array comes with Whitmyer mounting brackets that work best when mounted directly to a backrest. You can mount it to the push handles is required.





#### Step 3

Unplug the bus cable connecting the joystick from the power module

#### Step 4

Fit the Omni mounting bracket to the armrest on the side of the chair you want the Omni visual display to be on. Use the bolts provided to fix into the armrest bracket.







#### Step 5

Attach the Omni to the Flex Mount and attach to the chair via the bracket previously mounted to the armrest







#### Step 6

Mount the Dual Pro using the Whitmyer mounting bracketry.



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Note: To fit this you will first need to cut off the push handle covers.



#### Step 7

The wire coming from the Head Array will have a D-Type connector on the end. This will need to be plugged into Port 1 on the Omni.







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#### Step 8

Use Velcro strips or cable ties to secure the cable from the Head Array to the mounting frame and the Omni Flex Mount. It is important to do this so that you do not have any loose cables.





**R-Net Joystick** 

#### Step 9

The next step is to wire the bus cables. The diagram below should give you a goo idea of how

this should be done.



**Dual Pro** 



#### Step 10

The will have noticed the distribution block on the previous wiring diagram. The reason this is needed is because the Power Module only has ONE Bus socket. Therefore the distribution block will always be required if using a secondary controller.

Mount the Distribution block close to the power module. The position shown below on the inside rear of the chassis is favourable. Use strong double sided Velcro to secure the distribution block in position.







#### Step 11

Use your 30cm Bus lead to connect from the bus connector on the power module to one of the 4 Bus. ports on the distribution block.





#### Step 12

Connect the bus cable from the R-Net joystick to the distribution block using the same bus lead that you unplugged from the power module earlier.

#### Step 13

Use the additional 150cm Bus cable from the kit to run from the Omni to the distribution block.









#### Step 14

Use cable ties to secure the cables under the top shroud. Make sure that none of the cables get trapped when the seat is lowered. You should now have everything wired up correctly. Refer back to Step 10 to check.

Just a few simple programming steps left and the chair will drive using the Head Array.





#### The next step is to program the chair to work with the newly fitted 3 Switch Head Array.

You can do this by using our Programming Website <u>Web IQ</u>. You will need a User Name and Password to access this website. You will also need the PC Programming software and programming Dongle to connect your PC to the chair. These can be purchased from Sunrise Medical if you don't already have them.

If you don't have one then please contact our Technical Service Centre at <u>help.technical@sunmed.co.uk</u>

They will set this up for you.

Once you have your username and password, use the link below to access Web IQ.



#### Once logged on to Web IQ you will see the following screen

QUICKIE	THE POWER OF INTELLIGENCE								
navigation  Dealer Area Alter Matrix Documents User Setup Reports Neo Setups Language Setup		View Chair Details To view the current chair configuration, please enter serial number below. If the chair concerned has Serial Number Data on the label but no Order Number (S/C No), please contact Customer Service on 44 1384 44666 or alternatively email help.technical@summed.co.uk to obtain Order number details. Serial Number : Order Number : Accept Terms							
	WARNING RISK OF DEATH FROM IMPROPER USE								
	Use of this softw professionals with systems, keeping 1. Incorrect pro- could result i using this pro- control syste into account of syste into account of the environment 2. Certain prog must be read diagnosis whith 3. When this p ("EMC") perf programmer programmer Sunrise Medical failure to comply	are to program wheelchair controllers should only be conducted by th training and in-depth knowledge of Sunrise Medical electror in mind the following risks: wgramming (e.g. an acceleration setting inappropriate for a given n an unsafe set up of the wheelchair for such user. The healthcare p orgarammer is responsible for verifying that the values programmer is responsible for verifying that the values programmer a support that the wheelchair is appropriate and safe for the end u of use. I all applicable factors including, for example, medical condi of use. I and understood. You should only adjust these parameters or carry of en you have read and understood these warnings. Forgrammer is connected to a wheelchair, the electromagnetic co ormance of the wheelchair may be affected. Disconnect the wheelch is newironments that are EMC sensitive. expressly disclaims any and all liability for losses of any kind ar with these conditions.	healthcare nic control end user) rofessional di nito the ser taking tings which out system impatibility nair from a sichair to a ising from						





## Step 1

To access the drive profile on Web IQ you will need:

- The chair Serial Number
- The Sunrise Sales Order number (if you don't have this you can get from Customer Services)

Input the Serial Number and the Sales Order Number as shown below. Then click on Accept Terms.





## Step 2

You will then be able to see the chair details. The current build specification will be on the

left.....







## Step 3

And 3 options on the right. Download Current Drive Profile, Modify Chair Details and View

Archived Profiles.

- Tilt

Chair Details for "SM2UK17012819" After reviewing chair details, please select an option below. - Salsa R-net controlled Chair Download the Current R-net Profile - Mid Wheel Drive (MWD) To download the current profile for R-Net System - Revision 2 (M2 / R2) - 6 kph (4 mph) MTM or Linix Motors - without Intellidrive - and 33 cm (13 inch) Wheels Modify Chair Details - No Lights Answer questions provided altering chair details to Actuators controlled via ISM synchronize with current chair mechanics. - Groove Standard power recline - LCD Hand Control - PM90 Motor Controller - Using the English Language View Archived Profiles - for the United Kingdom Market This option will allow you to choose from a list of previously saved profiles.





#### Step 4

Click on Modify Chair Details.

#### Chair Details for "SM2UK17012819"

After reviewing chair details, please select an option below.

- Salsa R-net controlled Chair
- Mid Wheel Drive (MWD)
- Revision 2 (M2 / R2)
- 6 kph (4 mph) MTM or Linix Motors
- without Intellidrive
- and 33 cm (13 inch) Wheels
- No Lights
- Actuators controlled via ISM
- Tilt
- Groove Standard power recline
- LCD Hand Control
- PM90 Motor Controller
- Using the English Language
- for the United Kingdom Market

Download the Current R-net Profile To download the current profile for R-Net System

Modify Chair Details Answer questions provided altering chair details to synchronize with current chair mechanics.

View Archived Profiles

This option will allow you to choose from a list of previously saved profiles.



#### Step 5

You will be asked a series of questions regarding the specifications of the chair. Answer the questions accurately to reflect the actual build of the chair. Click Next to go to the next question.

Create New Profile for "SM2UK17012819"
Return to Chair Details
Answer questions to build a chair profile. Please note that current options are pre-selected. Once selections below are correct, click next or start over. Start Over
What chair model do you wish to configure?
● European Salsa R-Net 節
O European Salsa VR2 🛍
Next >



#### Step 6

You will eventually come to a question that asks if the chair has a Special Controls Module

(Omni). This will need to be changed if you are fitting special controls.

Change to YES and click NEXT.

#### Create New Profile for "SM2UK17012819" Return to Chair Details Answer questions to build a chair profile. Please note that current options are pre-selected. Once selections below are correct, click next or start over. Start Over Does the Chair have a Special Control Module (OMNI)? No 🔾 Yes 🛍 Next > What chair model do you wish to configure? (European Salsa R-Net) Please select a drive wheel position (MWD - Mid Wheel Drive)% Please select model type (MWD - Mid Wheel Drive Mk2) Please select speed and drive wheel combination (6 kph (4 mph) 33 cm (13 inch) wheels & No Synchrodrive Linix) Does the Chair have an LED or LCD Joystick Hand Control ? (LCD) Does the Chair have Lights? (Without any Lights) Does the Chair have an ISM 6/8 Actuator Controller (Yes ISM 6) Please select applicable powered option (Tilt) Please select applicable seat depth (Sedeo Ergo) (All chairs without Sedeo Ergo seating system) Please select powered Recline option (Salsa / Groove Standard Seat Power Recline) Please select powered Legrest option (None) Which motor controller does the chair have ? (EL90) Please select applicable powered option (None (e.g. Sedeo Ergo)) Does the Chair have an Environmental Control Module (IOM)? (No)





#### Step 7

The next question gives you the option to select which type of Special Input Device you are

using. In this case select the Proportional Head Control (Dual Pro) option and click NEXT.

Create New Profile for "SM2UK17012819"	
Return to Chair Details	O Wafer Board (4 Switch Control)
Answer questions to build a chair profile. Please note that current options are pre-selected. Once selections below are correct, click next or start over.	O Head Array (3 Switch Control)
<u>Start Over</u>	O Head Array (5 Switch Control)
Please select the input device used with the Special Control Module (OMNI) P1	
None	Proportional Head Control (e.g. Dual Pro)
O Other third party input device	O HMC Mini Joystick; MicroPilot 0-way Joystick (Proportional
O OMNI in scanning mode	O HMC Mini Chin: MicroPilot 0-way Chin (Proportional Chin C
O Wafer Board (4 Switch Control)	
O Head Array (3 Switch Control)	
O Proportional Head Control (e.g. Dual Pro)	
O HMC Mini Joystick; MicroPilot 0-way Joystick (Proportional Hand Control)	
O HMC Mini Chin; MicroPilot O-way Chin (Proportional Chin Control)	
O HMC compact joystick; Versaguide joystick	
O HMC Compact Chin; Versaguide Chin	
O Proportional Chin	
O Sip & Puff	IMPROVING PEOPLE'S LIVES
Next >	



#### Step 8

Continue to answer the questions with accurate information regarding the chair specifications.

Once you get to the last question it will ask you Are the Details Correct. Select YES and click

NEXT.

Create New Profile for "SM2UK17012819"

Return to Chair Details

Answer questions to build a chair profile. Please note that current options are pre-selected. Once selections below are correct, click next or start over. Start Over					
Are the Details Correct?					
● No					
○ Yes					
Next >					
What chair model do you wish to configure? (European Salsa R-Net) Please select a drive wheel position (MWD - Mid Wheel Drive)% Please select model type (MWD - Mid Wheel Drive Mk2) Please select speed and drive wheel combination (6 kph (4 mph) 33 cm (13 inch) wheels & No Synchrodrive Linix) Does the Chair have an LED or LCD Joystick Hand Control ? (LCD) Does the Chair have Lights? (Without any Lights) Does the Chair have an ISM 6/8 Actuator Controller (Yes ISM 6) Please select applicable powered option (Tilt)					
Please select applicable seat depth (Sedeo Ergo) (All chairs without Sedeo Ergo seating system) Please select powered Recline option (Salsa / Groove Standard Seat Power Recline)					





## Step 9

You will now see the chair details screen again. You will see the changes you have made are

reflected in the Build Specifications on the left side.







## Step 10

Click on Download the Current R-Net Profile. Then click OPEN. The drive profile will now open

in PC programmer automatically.

#### Chair Details for "SM2UK17012819"

After reviewing chair details, please select an option below.

- Salsa R-net controlled Chair
- Mid Wheel Drive (MWD)
- Revision 2 (M2 / R2)
- 6 kph (4 mph) MTM or Linix Motors
- without Intellidrive
- and 33 cm (13 inch) Wheels
- No Lights
- Actuators controlled via ISM
- Tilt
- Groove Standard power recline
- Special Control Module (OMNI)
- Head Array (Adult/Paediatric)
- LCD Hand Control
- PM90 Motor Controller
- Using the English Language
- for the United Kingdom Market

Download the Current R-net Profile To download the current profile for R-Net System

#### Modify Chair Details

Answer questions provided altering chair details to synchronize with current chair mechanics.

#### View Archived Profiles

This option will allow you to choose from a list of previously saved profiles.





## Step 11

Connect your chair to your PC using the programming dongle and USB cable. You should now

see the PC programming software with the drive profile for the chair.

sm2uk17012819_download_1_00.R-net - PGDT Rnet	Programmer			Contraction of the local division of the loc		and a second		and the state	
File Edit Controller Tools View Help									
- D 🚅 🖬 X 🖻 🕲 🚑 🤋 📑 🔭 📕 🍳	01111	. : 📭 🙀 🖂	=						
<u> </u>									
📧 🐤 File Description									
🖪 🐤 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6	Profile 7	Profile 8	
표 📚 Configuration	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6	Mode 7	Mode 8	
표 📚 Speeds	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6	Profile 7	Attendant	
🖪 🚸 Controls									
표 📚 Latched	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Profile 6	Profile 7	Attendant	
🖃 📚 Seating									
🔢 📚 Battery									
🔢 📚 General									
📧 📚 Motor									
🖪 🐤 Inhibits									
🔢 🐤 Lights									
📧 📚 Input Output Module									
🖭 🐤 Engineering									
🔢 🐤 OEM Factory									
🔢 🍫 Omni									
🖽 🐤 Compact Joystick									
🔢 🐤 Encoders									
🖽 🐤 Mouse 1									
📧 🍫 Stability									
표 🐤 iDevice1									
🔢 🍫 Switch-it									



## Step 12

Once you have connected your chair to your PC you should see this in the bottom right hand corner of the PC programming screen.







## Step 13

Once you are connected, click on the "program" button at the top of the screen.

sm2uk17012819_download_1_00.R-net - PGD	T Rnet Programmer			Programmer	
File Edit Controller Tools View Help	p	_			
- D 🚅 El X 🖻 A 🖴 ? 🖣 🏪 🏹		N. B. M. O.			
		·	•		
🗉 📚 File Description					
🗉 📚 Profile Management	Profile 1	Profile 2	Profile 3		: 🕒 🖬 🛍 🗠 🔲
🗉 📚 Configuration	Mode 1	Mode 2	Mode 3		- <u></u>
🖃 📚 Speeds	Profile 1	Profile 2	Profile 3		
🖃 📚 Controls					
🖃 📚 Latched	Profile 1	Profile 2	Profile 3		
🗉 📚 Seating					
🗉 📚 Battery					
🗉 🍫 General				D CL 4	D 01 D
🗉 🐤 Motor				Profile I	Profile Z
🗉 📚 Inhibits					
🗉 📚 Lights				Mode 1	Mode 2
🗉 📚 Input Output Module					
🗉 📚 Engineering				Profile 1	Profile 2
🗉 📚 OEM Factory				TTOME T	i ionie z
🖅 📚 Omni					
🗄 📚 Compact Joystick					
🗄 📚 Encoders					
🛨 📚 Mouse 1				Profile 1	Profile 2
🗉 📚 Stability					
🗉 📚 iDevice1					-
🗉 📚 Switch-it					



#### Step 14

The software will now write the updated drive profile to the chair.

You will now be able to control the chair with the 3 Switch Head Array.

If you want to customise the controls even further then please refer to the next section where we will cover additional programming for the Dual Pro Head Array giving the client even more control and reducing the amount of movement required to access modes and functions.





## DUAL PRO HEAD ARRAY FINE TUNING





#### **Profiles and Speeds**

It is advisable to customise the Profiles and Speed settings on the chair to suit the clients needs. If the client is using a special input device then reducing the speeds and acceleration parameters using the PC programmer is strongly advised but to what extent this is done will be dependent on the clients driving ability and also the different environments that they will be using the chair in on a daily basis.



#### **Profiles and Speeds**

To add and remove drive profiles.

Click on the Profile Enable parameter under the profile you want to add or remove. Change to Yes or No accordingly.

🖃 🙀 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Ρ
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	P
Profile Enable	Yes	Yes	Yes	Yes	No	Ν
Mode Enable	[12345678]	[12345678]	[12345678]	[12345678]	Tes [12040070]	E-
Input Device Type	Universal	Universal	Universal	Universal	Universal	U
Input Device Subtype	All	All	All	All	All	A
Seat Reversal Profile	No	No	No	No	No	N
Allow Grab	Yes	Yes	Yes	Yes	Yes	Y



#### **Profiles and Speeds**

To Rename Drive Profiles

Double click on the Profile Name Parameter – Type in the field what you would like the Profile to be called. This will then appear on the Omni display.

🖃 🚇 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4	Outdoor
Profile Enable	Yes	Yes	Yes	Yes	Yes
Mode Enable	[12345678]	[12345678]	[12345678]	[12345678]	[12345678]
Input Device Type	Universal	Universal	Universal	Universal	Universal
Input Device Subtype	All	All	All	All	All
Seat Reversal Profile	No	No	No	No	No
Allow Grab	Yes	Yes	Yes	Yes	Yes



#### **Profiles and Speeds**

Mode Enable

It's worth switching off all modes apart from Drive in all profiles apart from Profile 1. This makes things more straight forward when using buddy buttons for certain functions as you won't need to press the button multiple times.

🗉 📚 File Description				
Profile Management	Profile 1	Profile 2	Profile 3	Profile 4
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4
Profile Enable	Yes	Yes	Yes	Yes
Mode Enable	[12345678]	Drive	[12345678]	[12345
Input Device Type	Universal	Seating Mouse 1	Universal	Univers
Input Device Subtype	All	Mouse 2	All	All
Seat Reversal Profile	No	IR Control	No	No
Allow Grab	Yes	Mode 5	Yes	Yes
🗉 📚 Configuration	Mode 1	riogramming	Mode 3	Mode 4
🛨 📚 Speeds	Profile 1	Profile 2	Profile 3	Profile 4



#### **Profiles and Speeds**

Mode Enable

Step 1 – Double Click on the Mode Enable parameter in Profile 2. Deselect all modes apart from Drive.

🖃 📚 File Description				
🖃 💯 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4
Profile Enable	Yes	Yes	Yes	Yes
Mode Enable	[12345678]	Drive	[12345678]	[123450
Input Device Type	Universal	Mouse 1	Universal	Univers
Input Device Subtype	All	Mouse 2	All	All
Seat Reversal Profile	No	IR Control	No	No
Allow Grab	Yes	Mode 5	Yes	Yes
🗉 📚 Configuration	Mode 1	Flogramming	Mode 3	Mode 4
🛨 📚 Speeds	Profile 1	Profile 2	Profile 3	Profile 4



#### **Profiles and Speeds**

Mode Enable

Step 2 – Repeat this for all the other Drive Profiles that are set to the same Input Device Type. The programming screen should look like this once done.

표 📚 File Description						
🖃 🙀 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Prof
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Prof
Profile Enable	Yes	Yes	Yes	Yes	Yes	No
Mode Enable	[12345678]	[1 ]	[1 ]	[1 ]	[1 ]	123
Input Device Type	Universal	Universal	Universal	Universal	Universal	Univ
Input Device Subtype	All	All	All	All	All	
Seat Reversal Profile	No	No	No	No	No	No
Allow Grab	Yes	Yes	Yes	Yes	Yes	Yes




### **Profiles and Speeds**

Mode Enable

Step 3 – You may want certain Drive Profiles to only be available for specific input devices. For example Profile 1 & 2 for a Device connected to the Omni, and Profile 3, 4 & 5 for an additional Joystick Module. To do this first click on the Input device type parameter under the specific profile that you want to define.

🕣 📚 File Description						
🖃 🚇 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Prof
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5	Prof
Profile Enable	Yes	Yes	Yes	Yes	Yes	No
Mode Enable	[12345678]	[1 ]	[1 ]	[1 ]	[1 ]	[123
Input Device Type	Universal	Universal	Universal	Universal	Universal	Univ
input Device Subtype	All	All	All	All	All	
Seat Reversal Profile	No	No	No	No	No	No
Allow Grab	Yes	Yes	Yes	Yes	Yes	Yes



## **Profiles and Speeds**

Mode Enable

Step 4 – When you click into this parameter the following box will pop up. Click on the drop down menu under Input device type.

Select Input Device	×
Select Input Device	
Input Device Type	Input Device Subtype
Universal 💌	All
🗸 Allow Grab	
	OK Cancel





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## **Profiles and Speeds**

Mode Enable

Step 5 – When you click into this parameter the following box will pop up. Click on the drop down menu under Input device type. Select which input device you would like to use this

profile for.

Sel	ect Input Device	X
l r	Select Input Device	
	Input Device Type	Input Device Subtype
	Omni 👻	All
	Universal JSM Attendant	
	Omni IOM 1 IOM 2 IOM 3 Compact JS Compact JS Advanced Easy Rider Magic Drive Mini JS	OK Cancel



## **Profiles and Speeds**

Mode Enable

Step 6 – Repeat this process for all profiles. The example below shows this set up for Profile 1 & 2 for Omni only, then Profile 3, 4 & 5 for the Joystick Module. You need to have all the modes enabled on the first drive profile allocated to a specific input device. Then just Drive in the subsequent profiles for this input device.

표 📚 File Description					
🖃 🕼 Profile Management	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5
Profile Name	Profile 1	Profile 2	Profile 3	Profile 4	Profile 5
Profile Enable	Yes	Yes	Yes	Yes	Yes
Mode Enable	[12345678]	[1 ]	[12345678]	[1]	[1 ]
Input Device Type	Omni	Omni	JSM	JSM	JSM
Input Device Subtype	All	All	All	All	All
Seat Reversal Profile	No	No	No	No	No
Allow Grab	Yes	Yes	Yes	Yes	Yes
📼 🔦 Configuration	Mode 1	Mode 2	Mode 3	Mode /	Mode 5



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### **Profiles and Speeds**

Change Speeds and Accelerations

This is important to ensure that the client can drive the chair with safety in mind. Reducing the speeds and accelerations especially in the profiles that the client will use for indoor driving is vital but this will need to be done on a case by case basis. The turn speeds and accelerations also need to be taken into account as well as forwards and reverse.

🖃 🚇 Speeds	Profile 1	Profile 2	Profile 3	Profile 4	Outdoor
Maximum Forward Speed	30 %	40 %	50 %	75 %	100 %
Minimum Forward Speed	10 %	15 %	20 %	15 %	15 %
Maximum Reverse Speed	30 %	35 %	40 %	40 %	40 %
Minimum Reverse Speed	10 %	15 %	15 %	15 %	15 %
Maximum Turning Speed	10 %	12 %	17 %	20 %	22 %
Minimum Turning Speed	10 %	10 %	15 %	15 %	15 %
Maximum Forward Acceleration	20	20	20	20	20
Minimum Forward Acceleration	10	10	10	10	10
Maximum Forward Deceleration	40	45	45	45	45
Minimum Forward Deceleration	20	25	25	30	30
Maximum Reverse Acceleration	20	20	25	25	25
Minimum Reverse Acceleration	15	20	20	20	20
Maximum Reverse Deceleration	30	30	40	40	40
Minimum Reverse Deceleration	15	20	20	20	20
Maximum Tum Acceleration	15	20	25	25	25
Minimum Turn Acceleration	15	15	15	15	15
Maximum Tum Deceleration	30	35	40	40	40
Minimum Turn Deceleration	20	20	25	30	30
Power	100 %	100 %	100 %	100 %	100 %
Torque	60 %	60 %	60 %	60 %	60 %
Tremor Damping	0 %	0 %	0 %	0 %	0 %
	20	20	20	20	20
Switched Input Smoothing	0 %	0 %	0 %	0 %	0 %



## **Profiles and Speeds**

**Power Settings** 

Power is basically the chairs ability to climb a hill or overcome an obstacle. It would be worth reducing this parameter to help minimize damage to doorways and furniture.

E 🚇 Speeds	Profile 1
Maximum Forward Speed	30 %
Minimum Forward Speed	10 %
Maximum Reverse Speed	30 %
Minimum Reverse Speed	10 %
Maximum Turning Speed	10 %
Minimum Turning Speed	10 %
Maximum Forward Acceleration	20
Minimum Forward Acceleration	10
Maximum Forward Deceleration	40
Minimum Forward Deceleration	20
Maximum Reverse Acceleration	20
Minimum Reverse Acceleration	15
Maximum Reverse Deceleration	30
Minimum Reverse Deceleration	15
Maximum Turn Acceleration	15
Minimum Turn Acceleration	15
Maximum Turn Deceleration	30
Minimum Tum Deceleration	20
Power	100 %
Torque	60 %
Tremor Damping	0 %
Fast Brake Rate	20
Switched Input Smoothing	0 %
a 📥 Controls	



## **Profiles and Speeds**

Torque Settings

This parameter can be used to boost the power of the motors at low drive speeds. This can be useful to overcome obstacles such as door thresholds and thick carpet.

E 🖉 Speeds	Profile 1
Maximum Forward Speed	30 %
Minimum Forward Speed	10 %
Maximum Reverse Speed	30 %
Minimum Reverse Speed	10 %
Maximum Turning Speed	10 %
Minimum Turning Speed	10 %
Maximum Forward Acceleration	20
Minimum Forward Acceleration	10
Maximum Forward Deceleration	40
Minimum Forward Deceleration	20
Maximum Reverse Acceleration	20
Minimum Reverse Acceleration	15
Maximum Reverse Deceleration	30
Minimum Reverse Deceleration	15
Maximum Tum Acceleration	15
Minimum Turn Acceleration	15
Maximum Tum Deceleration	30
Minimum Turn Deceleration	20
Power	100 %
Torque	60 %
Tremor Damping	0 %
Fast Brake Rate	20
Switched Input Smoothing	0 %
🖂 🧆 Cantala	



## **Profiles and Speeds**

Tremor Damping

This parameter can be used to reduce the effects of a users hand tremor.

Note: Does not have any affect if used with a switch device.

WARNING: If using high values of tremor damping pay particular attention to the stopping distances of the wheelchair as it will be increased.

🖃 🚇 Spe	eds .	Profile 1
	Maximum Forward Speed	30 %
	Minimum Forward Speed	10 %
	Maximum Reverse Speed	30 %
	Minimum Reverse Speed	10 %
	Maximum Turning Speed	10 %
	Minimum Turning Speed	10 %
	Maximum Forward Acceleration	20
	Minimum Forward Acceleration	10
	Maximum Forward Deceleration	40
	Minimum Forward Deceleration	20
	Maximum Reverse Acceleration	20
	Minimum Reverse Acceleration	15
	Maximum Reverse Deceleration	30
	Minimum Reverse Deceleration	15
	Maximum Tum Acceleration	15
	Minimum Turn Acceleration	15
	Maximum Tum Deceleration	30
	Minimum Turn Deceleration	20
	Power	100 %
	Torque	60 %
	Tremor Damping	0 %
	Fast Brake Rate	20
	Switched Input Smoothing	0 %



## **Profiles and Speeds**

Switched Input Smoothing

This parameter smooths rapid changes of command from The Input Device which can lead to a jerky drive feel.

Normally this will not need to be adjusted but some configurations such as switched-type input devices may need additional smoothing.

Note: This smoothing will be applied to acceleration and braking, so it is important to ensure the wheelchairs Stopping distance is not adversely affected.

🗆 🚇	Speeds	Profile 1
	Maximum Forward Speed	30 %
	Minimum Forward Speed	10 %
	Maximum Reverse Speed	30 %
	Minimum Reverse Speed	10 %
	Maximum Turning Speed	10 %
	Minimum Turning Speed	10 %
	Maximum Forward Acceleration	20
	Minimum Forward Acceleration	10
	Maximum Forward Deceleration	40
	Minimum Forward Deceleration	20
	Maximum Reverse Acceleration	20
	Minimum Reverse Acceleration	15
	Maximum Reverse Deceleration	30
	Minimum Reverse Deceleration	15
	Maximum Tum Acceleration	15
	Minimum Tum Acceleration	15
	Maximum Tum Deceleration	30
	Minimum Tum Deceleration	20
	Power	100 %
	Torque	60 %
	Tremor Damping	0 %
	Fast Brake Rate	20
	Switched Input Smoothing	0 %



#### **Accessing Reverse**

When using 3 Switch Input Devices there are 3 different ways of toggling the forward and reverse function.

Method 1 – By using a buddy button plugged into the U1 jack port on the Omni.

Method 2 – Auto Toggle by means of a short tap to change the forward/reverse direction followed by a long command to drive in that direction.

Method 3 – Timed Toggling by means of programming a set time which flips between forward and reverse.





#### **Accessing Reverse**

Method 1 – By using a buddy button plugged into the U1 jack port on the Omni.

#### Step 1

Go to the Omni Parameter on the R-Net PC Programmer. Then open Ports then Controls.





#### **Accessing Reverse**

Method 1 – By using a buddy button plugged into the U1 jack port on the Omni.

Step 2

Ensure the Fwd/Rev Auto Toggle parameter is set to OFF.

In this setting forward and reverse toggle can be done by a short press on the buddy button plugged into the U1 port on the Omni. The press time can be set in the Switches parameter.

🖃 💯 Omni		
🖃 🚸 Global		
🖃 🚸 Profiled	Profile 1	Profile 2
Ports		
🗊 🚸 SID	Port 1	Port 2
🖃 🚸 Switches	Port 1	Port 2
🔁 🚇 Controls	Port 1	Port 2
User Control	Menu	
Return To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Normal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Normal	
🖃 🚸 User Menu	Port 1	Port 2
🖃 🚸 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function



#### **Accessing Reverse**

Method 2 – Auto Toggle by means of a short tap to change the forward/reverse direction followed by a long command to drive in that direction.

Forward/Reverse toggle is set by giving a short operation of the drive direction (the back pad on a head array). This will then toggle the direction arrow on the Omni screen between forwards and reverse. There is then a delay to allow the system to determine if this is a required toggle command or simply and error. Once the delay time has elapsed the direction will revert back to its original direction if the chair is not driven.



#### **Accessing Reverse**

Method 2 – Auto Toggle by means of a short tap to change the forward/reverse direction

followed by a long command to drive in that direction.

Step 1

Go to the Omni parameter on the R-Net

PC programmer. Then open ports then controls.

🖃 🚇 Omni		
🖃 📚 Global		
🔄 💖 Profiled	Profile 1	Profile 2
Ports		
😐 💊 SID	Port 1	Port 2
🖃 📎 Switches	Port 1	Port 2
🗐 🚇 Controls	Port 1	Port 2
User Control	Menu	Menu
····· 📄 Retum To	Drive	
····· Timeout to Menu	0 s	
Menu Navigation	Normal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Normal	
🗊 🚸 User Menu	Port 1	Port 2
🖪 🚸 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function



#### **Accessing Reverse**

Method 2 – Auto Toggle by means of a short tap to change the forward/reverse direction

followed by a long command to drive in that direction.

Step 2

Change the FWD/REV Auto Toggle parameter to ON.

🖃 💯 Omni	
🗉 🚸 Global	
🖪 🚸 Profiled	Profile 1
🖃 🚇 Ports	
🗊 🧇 SID	Port 1
🖅 🔶 Switches	Port 1
📋 🚇 Controls	Port 1
User Control	Menu
Return To	Drive
Timeout to Menu	0 s
Menu Navigation	Normal
Menu Scan Rate	0.00 s
Auto-repeat	Off
Fwd / Rev Auto Toggle	On
Auto Toggle Time	2.00 s
Actuator Selection	SID
Actuator Axes	Normal
🗊 📚 User Menu	Port 1
🗊 🔦 Beens	Port 1



#### **Accessing Reverse**

Method 2 – Auto Toggle by means of a short tap to change the forward/reverse direction followed by a long command to drive in that direction.

Step 3 – You can change the delay time by clicking on Auto Toggle Time Parameter and changing the time accordingly. The time programmed will provide the delay between a short drive command to toggle forward and reverse and a long command to drive the chair.

🖃 🚇 Omni	
🗉 🚸 Global	
🗉 🚸 Profiled	Profile 1
Ports	
🗊 🚸 SID	Port 1
🗊 📎 Switches	Port 1
📄 🚇 Controls	Port 1
User Control	Menu
Return To	Drive
Timeout to Menu	0 s
Menu Navigation	Normal
Menu Scan Rate	0.00 s
Auto-repeat	Off
Fwd / Rev Auto Toggle	On
Auto Toggle Time	2.00 s
Actuator Selection	SID
Actuator Axes	Normal
🗊 🚸 User Menu	Port 1
🖬 🜭 Beens	Port 1



#### **Accessing Reverse**

Method 3 – Timed. This is when the forward/reverse toggle is set on a time function, where the driving directions will toggle on the Omni screen whilst the chair is in "neutral". When the arrow is in the direction of required driving, simply give a drive command and the chair will drive in that direction. Once driving is completed, the driving direction arrow will re-commence toggling. The toggle time can be programmed to suit the client.





## **Accessing Reverse**

Method 3 - Timed.

Step 1

Select the Fwd/Rev Auto Toggle parameter and change this to "Timed"

🖃 🚇 Omni		
🖃 💖 Global		
🖃 💖 Profiled	Profile 1	Pr
Ports		
🗊 🝫 SID	Port 1	Po
🗊 🝫 Switches	Port 1	Po
🗐 🚇 Controls	Port 1	Po
User Control	Menu	M
Return To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Normal	No
Menu Scan Rate	0.00 s	
Auto-repeat	Off	Of
Fwd / Rev Auto Toggle	Timed	Of
Auto Toggle Time	3.00 s	2.
Actuator Selection	SID	
Actuator Axes	Normal	No
🗊 📚 User Menu	Port 1	Po
🗊 📚 Beeps	Port 1	Po
🖃 🔖 <u>Assign Buttons</u>	First Function	Se



## **Accessing Reverse**

Method 3 - Timed.

Step 2

Select the Auto Toggle Time parameter and change to the required time for the forward and reverse directions to toggle.

🖃 🚇 Omni		
🖃 🚸 Global		
🖃 📎 Profiled	Profile 1	Pr
Ports		
🗊 🚸 SID	Port 1	Po
🔳 🚸 Switches	Port 1	Po
🗐 🕼 Controls	Port 1	Po
User Control	Menu	M
Return To	Drive	Dr
Timeout to Menu	0 s	0 :
Menu Navigation	Normal	No
Menu Scan Rate	0.00 s	
Auto-repeat	Off	Of
	Timed	Of
Auto Toggle Time	3.00 s	2.
Actuator Selection	SID	SI
Actuator Axes	Normal	No
🖪 🔶 User Menu	Port 1	Po
🔃 🔶 Beeps	Port 1	Po
🖃 🚸 <u>Assign Buttons</u>	First Function	Se



#### **Accessing Reverse**

Important Note:

When using the chair in Forward / Reverse auto toggle mode (Setting to ON), there will be a delay in driving introduced by the Auto tog time. This can be construed as an issue with the device if the delay is too long. It is important to understand this delay, and to minimise it as much as possible. It must be explained to the user at the point of wheelchair handover.





## 3 SWITCH HEAD ARRAY SETTING UP FUNCTIONS ON MODE SWITCHES





## Setting Functions on Mode Switches.

This section explains how to set up the Omni external mode jack switches to perform multiple functions. The mode switch can carry out 3 different functions and are carried out using a buddy button plugged into the U1 jack port on the Omni.





### Setting Functions on Mode Switches.

#### **Short Press**

To swap forward and reverse driving options when using a 3 switch input device.

#### Medium Press

To access the mode screen on the Omni so that other chair functions can be controlled e.g. seating, Bluetooth.

#### Long Press

To enable the chair to be put to sleep. This enables the client to rest without fear of accidentally driving the chair. The chair can be re-awakened with a short press on the mode switch.



### Setting Functions on Mode Switches.

It is important to program the chair according for the thresholds for the difference between

short, medium and long presses.

Step 1

Enter the Omni programming option. Then select Ports and then Switches





### Setting Functions on Mode Switches.

#### Step 2

Set the User Switch parameter to Normally Open or Normally Closed depending on the type of switch used.







### Setting Functions on Mode Switches.

#### Step 3

Switch Detect and 9 Way Detect parameters need to be switched OFF unless some form of switch detect is required.





### Setting Functions on Mode Switches.

Step 4

Switch Long to be set for a threshold time for a medium press to become a long press.





### Setting Functions on Mode Switches.

Step 5

Switch Medium to be set to a threshold time for a short press to become a medium press.





## Setting Functions on Mode Switches.

#### Step 6

The Debounce and Double Click Time parameters are not relevant to simple set up.

Switch Debounce	50 ms
Double Click	0.3 s

Note – When using a 3 input device, short press mode function will only work when this is set up in the Forward / Reverse toggling section. If alternate methods of toggling are used, the short press option on the mode switch becomes redundant



## **3 SWITCH HEAD ARRAY MODE SCREEN ACCESS AND NAVIGATION**





### Mode Screen Access and Navigation.

This section the method for how to access mode screens on the Omni and also how to control Mode Screen Navigation.

There are two ways to access the mode screen on the Omni. These are:

By direct switch access using a medium switch press via a buddy button plugged into the U1 external jack socket on the Omni

OR

By timed access to the mode screen.



### **Direct Switch Access**

Step 1

First enter the Omni parameter using the in the R-Net PC programming software. Then select the Ports and then Controls parameters.

🖃 🕼 Omni		
🗊 📎 Global		
	Profile 1	Profile 2
Ports		
📺 🚸 SID	Port 1	Port 2
🗐 🜭 Switches	Port 1	Port 2
[] Controls	Port 1	Port 2
User Control	Menu	Menu
Return To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Nomal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Normal	
🗊 🝫 User Menu	Port 1	Port 2
🖃 🔖 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function



### **Direct Switch Access**

Step 2

Once you have entered the Controls menu, look for the parameter "Timeout to Menu".

For Direct switch access into the mode screen, this parameter must be set to zero.

🖃 🚇 Omni		
🗊 💖 Global		
🗉 🚸 Profiled	Profile 1	Profile 2
Ports		
🗊 🚸 SID	Port 1	Port 2
🗊 📚 Switches	Port 1	Port 2
🗐 🕼 Controls	Port 1	Port 2
User Control	Menu	Menu
Return To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Normal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Nomal	
🖪 🚸 User Menu	Port 1	Port 2
🖃 📚 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function



## **Timed Access**

#### Step 1

For automatic timeout to the menu screen, set "Timeout to Menu" to the time delay that you require. The time is set in seconds. After a period of no input on the driving device for the time delay set, the chair will automatically drop into the mode screen.

🖃 😃 Omni		
🗐 🚸 Global		
🗩 📎 Profiled	Profile 1	Pro
Ports		
🗊 🔖 SID	Port 1	Po
🗊 🔖 Switches	Port 1	Po
🔁 🕼 Controls	Port 1	Po
User Control	Menu	Me
Return To	Drive	
Timeout to Menu	5 s	
Menu Navigation	Nomal	No
Menu Scan Rate	0.00 s	0.0
□ <b>```</b> • • • •	017	OIT



#### **Menu Navigation**

#### Method 1 – Manual, one item at a time.

Step 1

To set up the chair so that the mode screen menu can be navigated one line at a time go to "Omni", then "Ports" then "Controls" on the PC Programming software.

🖃 🕼 Omni		
🖅 📎 Global		
庄 📎 Profiled	Profile 1	Profile 2
Ports		
🕀 📎 SID	Port 1	Port 2
🗊 🚫 Switches	Port 1	Port 2
[] Controls	Port 1	Port 2
User Control	Menu	Menu
Retum To	Drive	
····· Timeout to Menu	0 s	
Menu Navigation	Normal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Normal	
🗊 🝫 User Menu	Port 1	Port 2
🖪 🚸 Beeps	Port 1	Port 2
🖪 🚸 Assign Buttons	First Function	Second Function



#### Menu Navigation

### Method 1 – Manual, one item at a time.

Step 2

Ensure that "Menu Scan Rate" is set to 0 seconds and that "Auto Repeat" is set to OFF.

E Da Omni		
	Profile 1	Profile 2
		TTOMIC 2
	Det 1	D-+ 2
E Switches	Port 1	Port 2
📄 🚇 Controls	Port 1	Port 2
User Control	Menu	Menu
····· 📄 Retum To	Drive	
····· Timeout to Menu	0 s	
Menu Navigation	Nomal	
Menu Scan Rate	0.00 s	
- Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Nomal	
🗊 💠 User Menu	Port 1	Port 2
🖃 🚸 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function


#### **Menu Navigation**

### Method 1 – Manual, one item at a time.

Step 3

With this setup, each operation of the input device forwards or backwards will move the menu line by line.





### Menu Navigation

### Method 2 – Manual navigation in Repeat Mode.

Step 1

To set up the chair so that the Mode screen menu can be navigated in "Repeat Mode" go to "Omni" then "Ports" then "Controls" in the PC Programmer.

🖂 💭 Omni		
🖽 🌾 Global		
	Profile 1	Profile 2
🗐 🚇 Ports		
🗊 🐟 SID	Port 1	Port 2
🗊 🜭 Switches	Port 1	Port 2
[] 🔐 🚇 Controls	Port 1	Port 2
User Control	Menu	
Retum To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Nomal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Nomal	
🗊 🝫 User Menu	Port 1	Port 2
🖪 🔶 Beeps	Port 1	Port 2
🖃 🔶 Assign Buttons	First Function	Second Function

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### Menu Navigation

### Method 2 – Manual navigation in Repeat Mode.

Step 2

Ensure that "Menu Scan Rate" is set to "0" and the "Auto-Repeat" function is set to ON.

🖃 🚇 Omni	
🗊 🐤 Global	
🖃 🐤 Profiled	Profile 1
Ports	
🗊 🝫 SID	Port 1
🗊 🐤 Switches	Port 1 F
🚍 🚇 Controls	Port 1 F
User Control	Menu
Return To	Drive
Timeout to Menu	0 s (
Menu Navigation	Normal
Menu Scan Rate	0.00 s
Auto-repeat	On
Fwd / Rev Auto Toggle	Off
Auto Toggle Time	2.00 s
Actuator Selection	SID
Actuator Axes	Normal
	1

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#### **Menu Navigation**

### Method 2 – Manual navigation in Repeat Mode.

Step 3

With this setup, holding the input device forward or backwards will move the line by line until the desired menu option is reached.





### **Menu Navigation**

### Method 3 – Scanning Menu Navigation.

Step 1

To set up the chair so that the Mode screen menu navigates by continuous scanning, go to "Omni", then "Ports" then "Controls" on the PC Programmer.

🖃 🕼 Omni		
🖃 📎 Global		
庄 📎 Profiled	Profile 1	Profile 2
Ports		
🗊 📎 SID	Port 1	Port 2
🗐 🜭 Switches	Port 1	Port 2
[] 💭 Controls	Port 1	Port 2
User Control	Menu	
Return To	Drive	
Timeout to Menu	0 s	
Menu Navigation	Nomal	
Menu Scan Rate	0.00 s	
Auto-repeat	Off	
Fwd / Rev Auto Toggle	Off	
Auto Toggle Time	2.00 s	
Actuator Selection	SID	
Actuator Axes	Nomal	
🔃 🚸 User Menu	Port 1	Port 2
🖪 🚸 Beeps	Port 1	Port 2
🖃 🚸 Assign Buttons	First Function	Second Function

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### **Menu Navigation**

### Method 3 – Scanning Menu Navigation.

Step 2

Ensure that the "Menu Scan Rate" is set to a value other than "0" and the "Auto-Repeat" option is set to OFF.

🖃 🕼 Omni	
🗉 🚸 Global	
🖃 🚸 Profiled	Profile 1
Ports	
🖬 🚸 <u>SID</u>	Port 1
🗊 🚸 Switches	Port 1
🔁 🚇 Controls	Port 1
User Control	Menu
Return To	Drive
Timeout to Menu	0 s
Menu Navigation	Normal
Menu Scan Rate	2.00 s
Auto-repeat	Off
Fwd / Rev Auto Toggle	Off
Auto Toggle Time	2.00 s
Actuator Selection	SID
Actuator Axes	Nomal



#### **Menu Navigation**

### Method 3 – Scanning Menu Navigation.

Step 3

With this set up them, the menu will scan continuously at a scanning rate that is determined by the value you have set as the "Menu Scan Rate".

NOTE: It is important to ensure that scan rates are set so that the user has enough time to accurately select an option whilst not introducing excessive time delays which can frustrate the user.



### **3 SWITCH HEAD ARRAY ACTUATOR AXIS**





### **Actuator Axis**

This parameter sets which direction commands are used to select the available actuator axis.

The programmable options are Normal, Swap, Left/Right and Right/Left.





### **Actuator Axis**

Step 1

To change this setting go the Omni parameter in the PC programming software. Then select "Ports" and then "Controls"

T 💷 Omni		
Frofiled	Profile 1	Pn
Ports		
🖬 🗞 SID	Port 1	Pc
🖬 🗞 Switches	Port 1	Pc
Controls	Port 1	Pc
User Control	Menu	Me
Return To	Drive	
Timeout to M	enu 5s	
Menu Naviga	tion Normal	
Menu Scan	Rate 0.00 s	
Auto-repeat	Off	
	to Togale Timed	
Auto Togale	Time 3.00 s	
Actuator Sele	ction SID	
Actuator Axe	Normal	
User Menu	Swap	Pc
Beeps	Right / Left	 Pc
Assign Puttons	Simt Supption	 C

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### **Actuator Axis**

Step 2

Use the Actuator Axes parameter to select which option you would like to program the chair with.

🖃 🖞 Omni		
🖃 💖 Global		
🖃 📚 Profiled	Profile 1 P	'n
🗐 🚇 Ports		
🗊 🚸 SID	Port 1 P	c
🗊 🚸 Switches	Port 1 P	c
🚍 🚇 Controls	Port 1 P	c
User Control	Menu	Ae
Return To	Drive D	)r
Timeout to Menu	<mark>5s</mark> 0	5
Menu Navigation	Nomal	lc
Menu Scan Rate	0.00 s 0	).(
Auto-repeat	Off	)f
Fwd / Rev Auto Toggle	Timed O	)f
Auto Toggle Time	3.00 s 2	
Actuator Selection	SID S	
Actuator Axes	Nomal	lc
User Menu	Swap Left / Right Right / Left	0
	Simt Eurotion	





#### Normal

If this parameter is set to "Normal", then left and right commands from the Special Input Device (SID) will select the available actuator axis. Forward and reverse commands will move the selected actuator.







#### Swap

If set to "Swap" then forward and reverse SID commands will select the available actuator axis, left and right commands will move the selected actuator.







### Left/Right

If set to "Left/Right" then a left command from the SID will select the available actuator and a right command will move the actuator. The direction of movement is changed via a short operation of the right command on the SID within the period defined by the "Auto Toggle Time" parameter.





### **Right/Left**

If set to "Right/Left" then a right command from the SID will select the available actuator and a left command will move the actuator. The direction of movement is changed via a short operation of the left command on the SID within the period defined by the "Auto Toggle Time" parameter.



### **3 SWITCH HEAD ARRAY CUSTOMISING MENU STRUCTURE**





### **Customising Menu Structure**

This sets the position of menu items within the user menu. The user menu can have up to 16 lines.





### **Customising Menu Structure**

Step 1

Go to the "Omni" parameter in the PC Programming software. Then open "Ports", then "User Menu".

🖃 💯 Omni			
🗊 📎 Global			
💽 📀 Profiled	Profile 1	Profile 2	P
Ports			
🗊 🝫 SID	Port 1	Port 2	
🗊 🝫 Switches	Port 1	Port 2	
🕀 📀 Controls	Port 1	Port 2	
📄 🚇 User Menu	Port 1	Port 2	
Position 1	Seating		
Position 1 Type	Entry		
Position 2	Drive		
Position 2 Type	Entry		
Position 3	Drive		



### **Customising Menu Structure**

Step 2

You can now double click anywhere in this section and it will open the Omni User Menu Edit screen.

ode Seating	Type Entry	Seating Drive	>
Seating	Entry	Drive	>
Driveo.		One ad Adjust	
літе	Entry	Speed Adjust Mouse 1	<1>
Drive	Select	Lights	Ś
Speed Adjust	-	iDevice	>
Mouse 1	Entry	IR Control	>
.ights	-	Mode 5	>
Device	Entry	Mouse 2	>
R Control	Entry		
Mode 5	Entry		
3lank	Entry		
3lank	Entry		
Mouse 2	Entry		
3lank	Entry		
3lank	Entry		
3lank	Entry		
Plank	Cabru		
	prive Adjust Nouse 1 Jourse 1 Device R Control Node 5 Nank Nouse 2 Nank Nouse 2 Nank	Virve Select Sepeed Adjust - Mouse 1 Entry ights - Device Entry R Control Entry Mode 5 Entry Mank Entry Mank Entry Mank Entry Mank Entry Mank Entry	Select     Lights       ippeed Adjust     -       Mouse 1     Entry       ights     -       ights     -       Device     Entry       R Control     Entry       Mode 5     Entry       Mank     Entry



### **Customising Menu Structure**

#### Step 3

You can drag and drop the modes until you have them in an order that best suits the client. As you move the various modes you can see the Actual User Menu Display on the right hand side in blue. If set to "Blank" then there will be no menu item displayed. It is possible to set items to appear multiple times in the menu.

e ting /e	Type Entry	Seating Drive	>
iting /e	Entry	Drive	>
/e	Entry		
	Linu y	Speed Adjust	<1>
/e	Select	Lights	Ś
ed Adjust	-	iDevice	>
use 1	Entry	IR Control	>
nts	-	Mode 5	>
vice	Entry	Mouse 2	>
Control	Entry		
de 5	Entry		
nk	Entry		
nk	Entry		
use 2	Entry		
nk	Entry		
	ed Adjust use 1 nts vice Control de 5 nk nk use 2 nk nk nk	ed Adjust - use 1 Entry nts - vice Entry Control Entry de 5 Entry nk Entry nk Entry use 2 Entry nk Entry nk Entry nk Entry nk Entry nk Entry	red Adjust     -     iDevice       use 1     Entry     IR Control       nts     -     Mode 5       vice     Entry       de 5     Entry       nk     Entry



### DUAL PRO HEAD ARRAY ON BOARD PROGRAMMING





#### Now you are ready to program the individual Dual Pro pads.

Tips

Each Dual pro pad has a force and proximity (crawl) sensitivity setting, and both settings can be adjusted individually through the Dual Pro back pad.

It is recommended that the chair be set at 100% and percentages be adjusted through the Dual Pro profile functions because the Dual pro will send a signal to the chair as a percentage of full speed.



For Instance......

If the chair is set to 100% forward speed and the Proximity (crawl) sensor is set to 20% (1 light) then the chair will only move at 20% of full speed in the Proximity (crawl) mode.

If the Force is set to 20% (1 light), the maximum speed with pressure applied to the force sensor will be 20% of the chair settings.

Similarly, if the chair is set to 50% maximum speed, the percentages will drop accordingly. At 50% chair speed, a 20% setting of the proximity or force sensor in the Dual Pro will result in 10% of maximum speed (20% sent by head array to a chair setting of 50% will equate to 10% of maximum drive).



On Board Programming

Each pad has a force and proximity (crawl) sensitivity setting, and both settings can be adjusted individually through the on-board programmer. To configure the different pads follow these easy steps.





Step 1

Press the "Set" and "Force" at the same time for 1 second.





Step 2

This will allow you to select the pad you would like to configure as indicated by the light corresponding with each pad.

(Center) Right Left



Step 3

Press the set button to scroll through and select the pads you would like to configure.







Step 4

You can set the "Force" by pressing the "Force" button. More Force lights means more force is required to reach full speed. This is indicated through the series of lights on the right side of the keypad.





Step 5

You can set the Proximity setting by pressing the "Crawl/Prox" button. More "Crawl/Prox" lights means more speed when within range of the proximity sensor. This is indicated through the series of lights on the right side of the keypad.





Note.....

Once the maximum sensitivity is reached, the lights will reset to the left indicating you have reached the maximum setting. The sensitivity will cycle through the lights until the desired setting is reached. Once the sensitivity of both switches is set as desired, scroll through the pads until no pad indicators are lit.



Programming Interface Examples.

1 – 40% speed within proximity (crawl) and light force for full speed.





Programming Interface Examples.

2 - Light force on pad for full speed, no proximity (crawl) speed.





Programming Interface Examples.

3 - Fully proximity switched head array.



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Programming Interface Examples.

4 – 60% speed within proximity (crawl) switch and then reach full speed with medium force.





#### Now you are ready to calibrate the tilt sensor.

Setting the tilt sensor disables the back pad when in a pressure relief tilt position. This allows the user to come out of a tilted position by deactivating the back pad.

The degree of tilt should be set at a point between a good driving position and a good tilt position., and where the user can lift their head off the back pad. How far off the back pad the need to come in order to engage the back pad sensor depends on how sensitive the Dual Pro back pad is programmed.



- 1. Regular Driving angle
- 2. Settable inactivate back pad angle
- 3. Pressure relief angle.




### To set the inactive back pad angle

Step 1

Tilt the chair back to the angle where you would like the back pad to become inactive.

Step 2

Hold down the "Set" button on the Dual Pro and cycle the power on the chair, then release the "Set" button. The two Dual Pro speedometers should cycle through with green and red lights, indicating that the calibration was successful.



Step 3

Now, when the chair tilts back past this angle the back pad will become inactive.

Step 4

When the back pad is inactive the blue power symbol will blink







### To deactivate the Dual Pro tilt sensor.

Step 1

Press and hold either the "Prox/Crawl" or "Force" button of the Dual Pro.

Step 2

Turn the Omni OFF





### To deactivate the Dual Pro tilt sensor.

Step 3

Turn the Omni ON

Step 4

Release the "Prox/Crawl" or "Force" button

The Blue power LED should now be solid and the tilt sensor will be inactive.





### TROUBLESHOOTING TOP TIP!!!

If the back pad is not working and the blue power light is blinking, follow the Deactivating Dual Pro tilt sensor steps, then reset the "Active Angle" if desired.





### **Common Dual Pro Adjustments**

1. If user leans to one side more or is able to apply more force to one pad than the other. Set the appropriate side to a high force setting and the opposite side pad to a proximity setting with low or no force.

2. If user needs to sit in slight tilt. Increase force requirement and set proximity to zero (no lights) for back pad to avoid activating the drive while in contact with the pad



#### **On Board Smart Jacks**

There are 3 ports on the bottom of the back pad. These ports incorporate Patented smart jack technology. These ports can accept Mechanical or Electronic switches.

Port 1: Reverse

Port 2: Mode

Port 3: On/Off Switch

