



SECURITY MEASURES

The ASL 165 FUSION Display and Programmer is susceptible to moisture. If moisture contacts the Display and Programmer, the touch screen may not work properly. Do not operate the ASL 165 FUSION Display and Programmer without instruction. The ASL 165 Display and Programmer should be mounted in a secure location. When using as a display the ASL 165 should be mounted so it is visible to the patient.

Installation of the ASL 165 FUSION Display and Programmer and the programming of the wheelchair electronics should only be conducted by a specialist with an in depth technical knowledge of the ASL 165 FUSION Display and Programmer and the wheelchair electronics. All testing and verification of the completed wheelchair equipment with the ASL 165 FUSION Display and Programmer is to ISO/RESNA or applicable standards for the completed wheelchair, including RFI compatibility testing, is the sole responsibility of the wheelchair manufacturer.

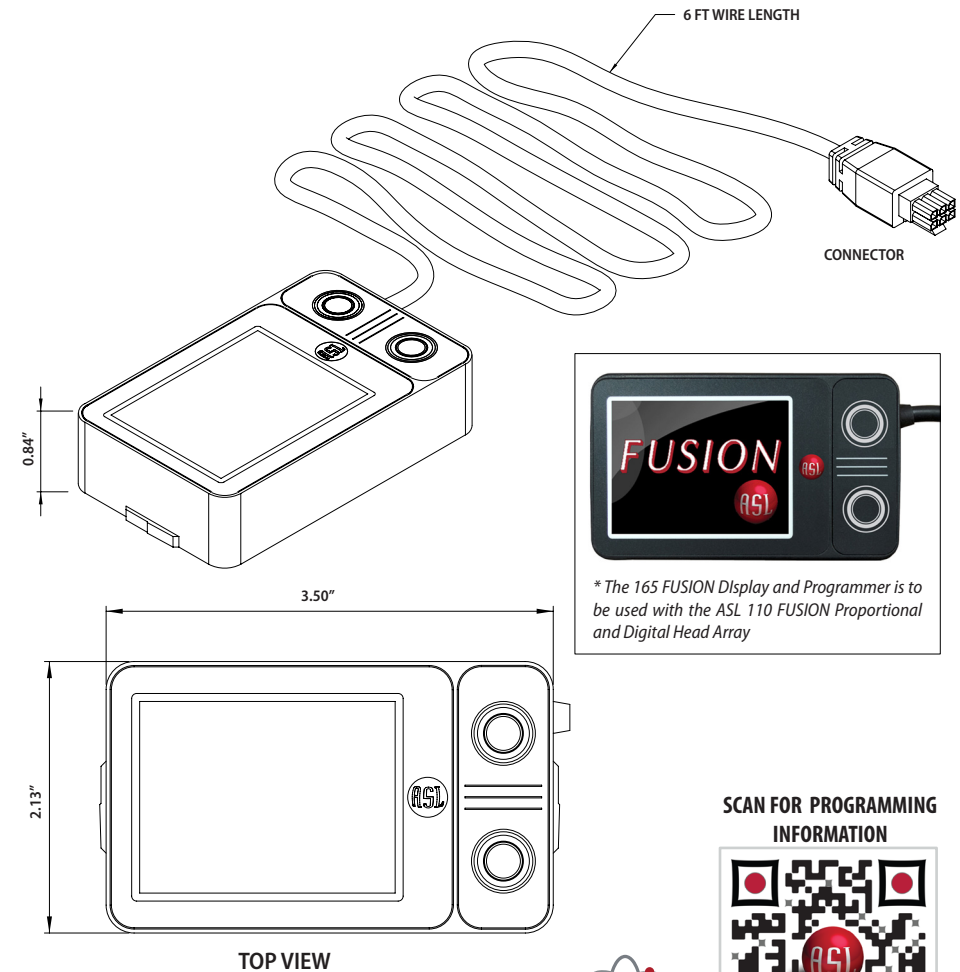
WARRANTY

The ASL 165 FUSION Display and Programmer is warranted to be free from manufacturing defects for two years from date of purchase.

This warranty shall not cover equipment modified or repaired by unauthorized personnel. ASL cannot be held responsible for damage caused by incorrect installation or incorrect use of the product. Misuse, mishandling, or storage is not covered by this warranty. The foregoing express warranty is exclusive and in lieu of any other warranties of any kind, whether express or implied, including the implied warranties of merchantability or fitness for a particular purpose, and is the sole and exclusive remedy for any defective product. The health care professional is responsible for understanding the intended use of the ASL equipment and the specification and safe programming parameters of the chair it is going on. The wheelchair manufacturer is responsible for testing and verification of the completed wheelchair equipped with the ASL 165 FUSION Display and Programmer to ISO, RESNA or other applicable standards including RFI compatibility. RFI interference can impact the proper functioning of the wheelchair. Route and secure all cables in such a way in order to prevent damage by crushing, cutting or snagging. Incorrect installation, configuration, or programming could result in unsafe set up of the wheelchair for the user. ASL accepts no liability for losses of any kind which result for such conditions.

ASL 165 FUSION Display and Programmer*

PATENT PENDING



SCAN FOR PROGRAMMING
INFORMATION



FUSION 165 DISPLAY AND PROGRAMMER EXPLANATION OF PARTS

The ASL 165 FUSION Programmer and Display has multiple features. It can be used to personalize the FUSION to the specific patients' needs and it can be used as a display, so the patient will know what they are controlling, such as: *Bluetooth*, *Next Function*, *Next Profile*, and *On/Off* of the Head Array.

The **Startup Screen** will appear while the system is booting up for 2 seconds.

When a switch is plugged into the User Port of the FUSION Interface a momentary activation of the switch will activate the highlighted top selection.

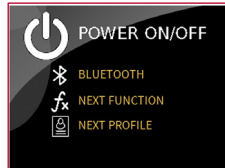
When the patient holds the switch to the adjusted time, the system will move to the next line item that is turned on in the FUSION display. An Auditory tone will be heard:



One (1) beep for *On/Off*, two (2) beeps for *Bluetooth*, three (3) beeps for *Next Function*, and four (4) beeps for *Next Profile*.

PROGRAMMER MENU

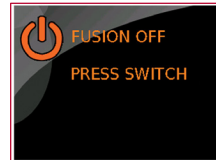
MAIN USER



The Main User Screen shows all the features available on the FUSION. When a switch is plugged into the User Port of the FUSION interface, a momentary activation of the switch will activate the highlighted top selection.

When the patient holds the switch to the adjusted time, the system will move to the next line item in the FUSION display. When the same switch is then activated in a momentary activation, it will activate that selection.

POWER OFF



When the Power On/Off is highlighted a momentary switch activation will turn the FUSION off and on.

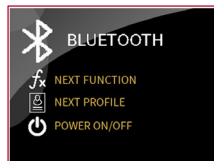
When the FUSION is Off, the screen will change color to indicate the Head Array is off and will not react to any pad activation.

OUT OF NEUTRAL



The Out of Neutral Screen will appear if any of the pads are activated while the FUSION is powering up and when Power Up Idle is off. As a safety precaution, it will instruct the user to move away from the activated pad.

MAIN USER - BLUETOOTH



In Bluetooth Mode the FUSION will connect to one of (3) three ASL Accessories shown below.

Once in the Bluetooth Mode the FUSION will automatically connect to the selected powered receiver and the FUSION Head Array will be the activation for that accessory.



557-3 Bluetooth Switch Interface



558 Mouse Emulator



545 Tecla E

MAIN USER - NEXT FUNCTION



When Next Function is highlighted, a momentary switch activation will move through the functions programmed within a profile.

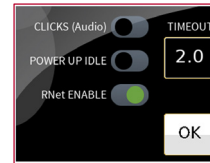
MAIN USER - NEXT PROFILE



When Next Profile is highlighted a momentary switch activation will move through the profiles that are turned on in the chair.

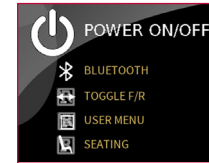
R-NET FEATURES IN FUSION

R-NET ENABLED



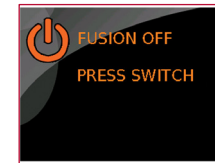
When the R-Net Feature is enabled, it displays the R-Net Main User Screen. This indicates that the system will be set up to be used with R-Net electronics. A long press will advance to the next feature.

R-NET MAIN USER



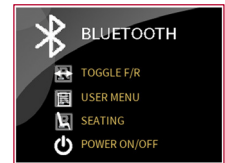
The R-Net Main User Screen shows all the Functions available on the FUSION with the R-Net Feature Enabled and Power On/Off Feature Active. When the patient holds the switch to the adjusted time, the system will move to the next line item in the FUSION display. When the same switch is then activated in a momentary activation, it will activate that selection.

POWER OFF



When the Power On/Off is highlighted a momentary switch activation will turn the FUSION off and on. When the FUSION is Off, the screen will change color to indicate the Head Array is off and will not react to any pad activation.

R-NET MAIN USER BLUETOOTH



In Bluetooth Mode the FUSION will connect to one of (3) three ASL Accessories:



557-3 Bluetooth Switch Interface

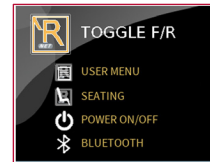


558 Mouse Emulator



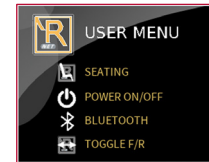
545 Tecla E

MAIN USER - TOGGLE F/R



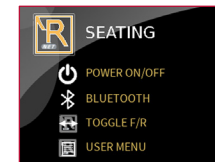
When the Toggle F/R is highlighted, a momentary press of the switch in the user port will toggle the Drive Control from forward to reverse.

MAIN USER - USER MENU



When User Menu is highlighted a momentary press will put the R-Net Omni into the User Menu which will allow someone to access the list of modes such as, Seating, Speed and Adjust Lights. The backpad of the FUSION will scroll you through the list of modes. To select a desired mode like Seating, you activate the right pad which gives you access to the Seating Options. A long hold will take you to the Seating Mode.

MAIN USER - SEATING



A momentary press of the switch while in R-Net Seating will turn the back pad of the FUSION Off. This will automatically change the left and right pad to work in Digital for easy access and navigation. A momentary activation of the switch will turn the back pad on and take you back to the User Menu where a momentary switch activation will exit the menu, so you can go back to driving.

Once in the Bluetooth Mode the FUSION will automatically connect to the selected powered receiver and the FUSION Head Array will be the activation for that accessory.

PROGRAMMING THE DISPLAY

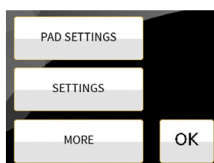


Activating the 165 Display Programming Screen: Simultaneously press down on both top and bottom circular buttons on the right side of the display. This will activate the screen to begin programming.

FUSION 165 DISPLAY AND PROGRAMMER

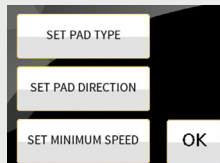
MAIN PROGRAMMING

PROGRAMMING



The Initial Programming Screen is activated by pressing the top and bottom buttons simultaneously for 2 seconds. When Pad Settings is selected a new screen will appear.

PAD SETTINGS



Set "Pad Type" directs you to the Proportional Digital Selection.

PAD TYPE



Tapping "Prop" on the pad will change it from Proportional to Digital by each pad or direction.

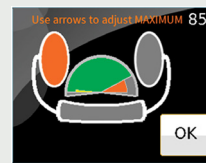
In this example, the Left and Center Pad are set to Proportional and the Right Pad is set to Digital.

CALIBRATION MIN

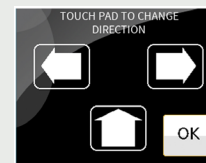


When the Proportional Programmed Pad is held for 2 seconds a calibration screen will appear. You will be guided to set up the Minimum and Maximum force required to gain proportionality. When you push on the pad the green color is a real time guide for the pressure that a person is pushing on the pad. This can be set by each direction. The **Minimum** (in yellow) sets the force required to initiate the proportional movement. The **Maximum** (in red) sets the force to reach 100% of the programmed speed.

CALIBRATION MAX



PAD DIRECTION

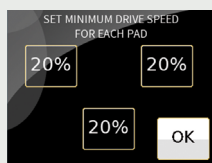


This allows the driving direction to change by pad. Touching the direction will scroll clockwise starting with the factory set direction.

The back pad will move from **Forward, Right, Off, Left** and then back to **Forward**. This is helpful for a patient that needs the back pad for a rest.

You can turn off the back pad, change the right switch to be forward, and move the right direction to another location such as, a hand or knee.

MINIMUM SPEED

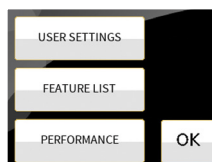


Set Minimum Speed: This setting will allow each pad on the FUSION to change the percentage of Digital to start the movement of the chair.

The factory setting in each pad is set to 20%. This will start the initial movement of the chair for the first 20% of the speed to be Digital. Pressing into the pads will make the chair move proportionally.

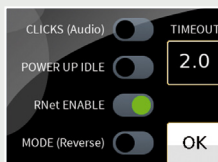
The selections are **15, 20, 25, 30, 35, 40** and **OFF**.

SETTINGS



This screen is shown when the **USER SETTINGS** button is pressed from the Main Programming screen.

SETTINGS



The Settings Screen will allow the Auditory beeps to be turned on and off.

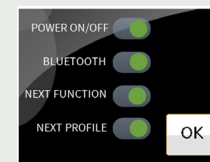
Power Up Idle: When this setting is on it will allow the FUSION to stay off when the chair is turned on. An activation of the User Switch will turn the system on when a patient is ready to move.

Timeout: The length of time that the User Switch has to be held to move to the next setting. The adjustment range is in seconds: 1 sec, 1.5, 2, 2.5, 3, 4, 5, and OFF.

R-Net Enable: Changes the User Screen to R-Net features for easier access.

Mode (Reverse): The Slide switch will change the how the switch responds to activation. The choices are Mode and Reverse.

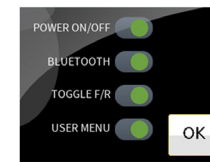
FEATURE SETTINGS



This will allow the FUSION Features that a person is **Not Using** to be turned Off.

If someone is not using Bluetooth through the FUSION, or is not changing Profiles, you can slide them to Off and they will not appear on the Main Menu.

FEATURE SETTINGS IN R-NET



This will allow the FUSION Features in R-Net that a person is **Not Using** to be turned Off.

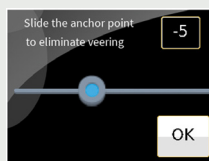
If someone is not using Bluetooth through the FUSION, or does not need access to the R-Net User Menu, you can slide them to Off and they will not appear on the main screen.

PAD PERFORMANCE



The Pad Performance screen is displayed when the "PERFORMANCE" button is pressed from the Pad Settings screen.

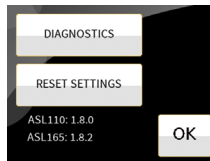
VEER ADJUSTMENT



The Veer Adjust will help a chair drive in a straight line by adjusting the signal from the FUSION Input to the Controller.

The range is from -12 to +12. This image illustrates what setting is provided as a Default. It is a suggested setting for R-Net and Q-Logic. Each chair will have a slightly different setting.

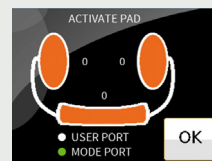
MORE SETTINGS



This screen is shown in response to pressing the **MORE** button on the PROGRAM SETTINGS screen.

The version of the ASL 110 FUSION and the ASL 165 Programmer and Display is also shown.

DIAGNOSTIC



Diagnostic: This screen shows the pad's, switch port, and user port activations. The "0" next to the Pad indicate the percentage of Drive Demand.

The Pad's illuminate in orange when the Pad is set to Proportional and green when set to Digital (not shown). A green light next to the Mode or User Port will indicate the switch is working properly. This tests the Mode and User Port for activation. The light is green when activated.

RESET SETTINGS

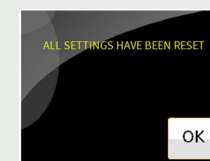


This screen is shown in response to pressing the **RESET SETTINGS** button on the MORE settings screen.

The Reset Screen will take the FUSION back to the Factory Settings. You will be prompted to be double sure that you want to do this.

If NO is pressed, settings will not be changed, and no action is performed.

ALL SETTINGS RESET



If YES is pressed, the parameters are reset to Factory Default and this screen is shown. The system will tell you when all of the settings have been changed to Factory Settings.

The OK button will return the user to the Main Programming screen.

FUSION PROGRAMMING DIAGRAM

