

## Startup

### Plug in main power cable

Plug in external power supply 100-240 vac. The system will automatically start charging the internal battery. Even with the main power switch off.

### Connect Communication

Connect the communication cable to the system. Connect optionally the communication to the recorder. You can then also connect a headset or any other audio input or output.

### Switch main power ON & OFF



**Power ON**  
Press and hold for 2 seconds

**Power OFF**  
Press and hold for 2 seconds, LED starts flashing rapidly

### Battery

The battery status is displayed by both a icon on the screen and a LED. Please note that older versions may not have a LED.



#### Charging

When the system is charging it shows a battery icon in the screen with 6 levels of capacity.

The LED is not blinking and shows a color: Red: 0-20%, yellow: 20-80%, Green: 80-100%



#### On Battery

When the system is on battery it shows the time remaining in the screen. The LED is blinking and shows a color: Red: 0-20%, yellow: 20-80%, Green: 80-100%.

## Controls

### Rotary Switch

This switch has a rotation and push function. It is used to enter and scroll through the Menu items. By default the switch is used to increase/decrease the volume.

**Hold 1 second to open menu**

### Screen

Is used for settings and displaying other information.

### Volume Control

These potentiometers are used to control the volume to and from the divers.



This button is usually located next to the speaker

### Speaker ON/OFF

Press this to enable or disable the speaker. Pushed in means it is enabled

### Panel Mic

This Mic is used when there is no headset connected. The Mic is sensitive, so there is no need to speak into it. You can just speak from a distance.



### Push to talk Diver 1

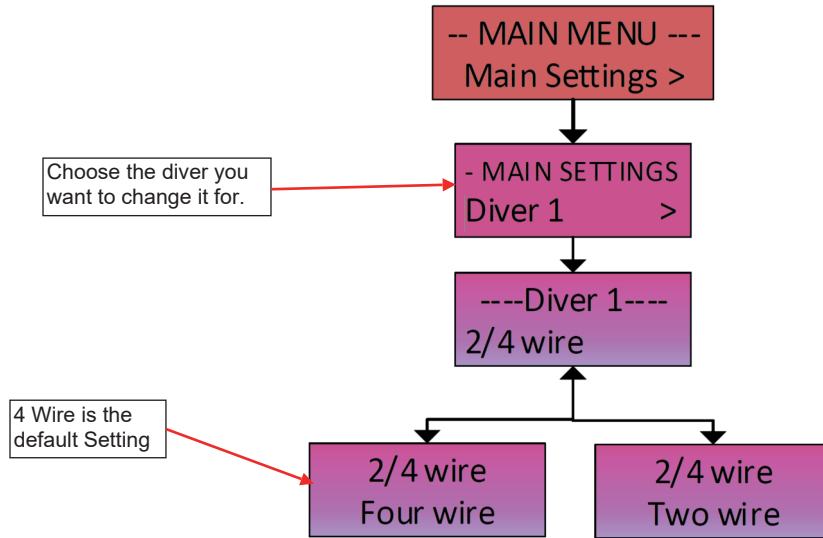
Press this to talk to diver 1 when you are in Half Duplex

### Push to talk Diver 2

Press this to talk to diver 2 when you are in Half Duplex

## 2 / 4 Wire Communication

For each diver the communication can be set to a 2-wire connection or a 4-wire connection. If you use a 2-Wire this needs to be set up otherwise the diver can not hear the tender. This can be set up in the menu in the following place:



## Audio connections

Audio connections	Description	Connector
Audio Out 1 Rec Out 1	Audio out 1 and Rec out 1 have both the same selection of you want to hear on these outputs and the same internal gain setting. Audio Out is standard isolated. REC out is both isolated to the recorder as well if it is an output. By default Diver 1 & Tender are selected to output	RCA (Cinch) (Phono)
Audio Out 2 Rec Out 2	Audio out 2 and Rec out 2 have both the same selection of you want to hear on these outputs and the same internal gain setting. Audio Out is standard isolated. REC out is both isolated to the recorder as well if it is an output. By default Diver 2 & Tender are selected to output	
Aux Out 1 Aux Out 2	Aux Out 1 & 2 have each their own selection of to hear and both have their own internal gain setting. Both outputs are isolated. By default Diver 1&2, Tender and Aux are selected to output.	
Aux In	Aux in can be used to input an audio source from any device, like a MP3 player or Smartphone. This audio source can be selected in the Menu to hear at any output. This means for example, that you can selected at the Diver can hear, and the diver can hear music. If the Tender talks to the diver, the aux (music in this example) will be muted.	Jack 3,5 mm (mono/stereo)
DVR In	DRV In is an audio input which can be used to connect to a DVR or other output. The sound of this output will be heard on the Internal speaker of the xDR radio. This input will be internally used in all Novasub systems with a built in DVR recorder. This input is isolated and has an internal gain setting.	RCA (Cinch) (Phono)
Headphone	Headphone connection of a standard headphone used with PC's or other devices. The volume control of the headphone is in parallel with the Internal speaker volume. This is the Vol. Tender on the menu display, using the rotary switch	Jack 3,5 mm (mono/stereo)
Microphone	Microphone input of a headset or other Mic input which is an Electret Microphone. This input has an internal gain setting. When a microphone is plugged it, it is detected and this switches automatically from the internal panel Mic.	Jack 3,5 mm (mono)
Mic/Headset	This is a Novasub configured multipin connection used for a Table Microphone with PTT buttons, hand held Mic with PTT button or rugged Mic/Headsets with PTT button.	Bulgin PX0412/08S or Lumberg 0271-07

**Note that when there is a microphone connected to either the multipin or the jack then the panel microphone is disabled.**