

ANALOG SURFACE CONSOLE

DOCUMENTATION



Configuration based on purchase

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General

The Surface Console provides a totally portable solution for viewing your Seaviewer camera from the surface. The console comes with internal power (battery) or can be powered externally from any 12v source. Your console was shipped with a 110-220 converter to provide such power. Additionally you can connect the console directly to any 12v battery. We recommend reading through this document prior to use however we have provided a short version below that should eliminate any issues if you want to get started quickly. Many issues can be prevented by connecting all accessories prior to turning on your Surface Console.

Quick Start

POWER ON

1. Make sure the power switch is in the neutral position (middle)
2. Plug in the Seaviewer Camera and Camera Power to the lower right portion of the panel.
3. If using “external power connection” connect external power.
4. POWER ON – Turn power on (external source or battery)

POWER OFF

1. Finalize the recording (IE: Stop the recorder, if installed)
2. POWER OFF – Turn power off
3. Disconnect the camera from the console
4. Prior to closing lid make sure no objects will damage the monitor

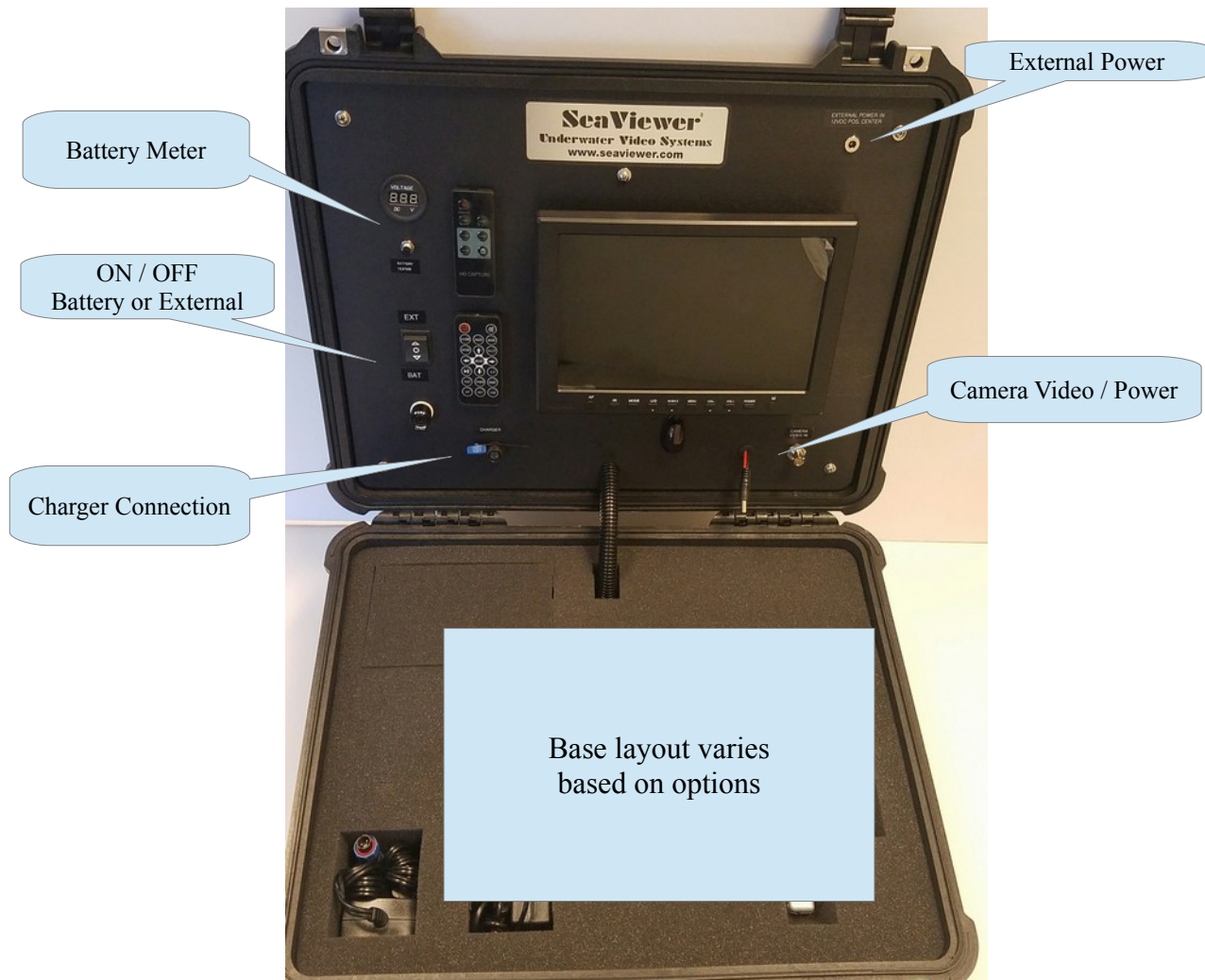
RECHARGING

1. Make sure the power switch is in the OFF or EXTERNAL Position
2. Attach the charger to the console
3. The light on the charger will start in **RED** , and turn **GREEN** when fully charged. The charger is a high quality float charger but should be disconnected within 2 or 3 days of being charged.

DISCLAIMER

This manual may contain features that were not purchased with your Surface Console. Specific images related to the devices included in the console may change as products are updated. In addition the specific layout of the devices in the Surface Console will change based upon the manufactures choices during assembly. The goal in layout is to provide the best functional system for our users.

Typical Connections



Connections and Powered Panel

Fuses – The console has 2 fuses. The main console fuse (7amp slow blow glass) is located on the anodized panel while the other fuse (10amp mini spade) is located on the positive (+) terminal of the battery. If proper procedures are followed these fuses should never need to be replaced.

Usage

Make sure power is in the OFF position prior to connecting the camera and camera power. If you connect the camera when power is on you might blow a fuse (10amp).

1. Verify power is off
2. Connect the camera to the Surface Console
3. Connect external power if using that as the power source
4. Power on – Select external or battery using the On/Off switch
5. Power off – When turning off the console please STOP the recorder if installed. This allows the recorder to properly close any recordings in process.

Connections - Continued

CAMERA CONTROL BOX

Dimmer Control – equipped if lights were ordered

On/Off Switch – controls lights if lights were ordered

On/Off Switch – Turns off camera video if no lights were ordered (should be always on)

Red – Power (Connected to Console)

RCA – This is video from the camera and connects to the bottom right of the console

CONNECTING CAMERA TO CONSOLE

The camera connects to the bottom right of the console for both power and video

SEATRAK

If equipped you will be connecting to the RS232 connection on the SEATRAK. The connection is on the rear of the SEATRAK so an extension to that connection has been provided for easier access.

SD-DVR Recorder Documentation



The SD-DVR is a small computer with a lot of options available. The instructions below are designed to verify proper settings and start recording. This recorder **REQUIRES THE REMOTE** to start and stop recordings. When the console is turned on the recorder will typically be in stand by mode. Lights on the DVR will be on once power is applied whether in stand by mode or actually on. The lights will flash in all modes.

AV1 / AV2 - The console has been configured for the recorder to be connected one of the AV ports (typically AV2). We also connect the camera directly to the other AV port allowing you to see the camera view (bypassing the recorder) directly. This setup allows you to save battery power by turning off the DVR (the lights will still be on).

Power ON - The DVR will take approximately 1-2 minutes to power up.

1. Turn the power on - if the DVR is wired to power up fully you will see "color bars" on the monitor within the power up time and then if the camera is connected you will see the image, otherwise you will see a blue or black screen.
2. After 2 minutes (max) if nothing happens use the REMOTE and hold down the Power ON button for 2 full seconds. Within a few seconds you should see "color bars" on the monitor.
3. If no "color bars" are shown, CHANGE to AV setting on the monitor and repeat the process.

RECORDING ** STOP recording before turning off the Surface Console

1. PRESS the record button on the REMOTE
2. PRESS stop to STOP

PLAYBACK

3. PRESS menu on the REMOTE and follow the screen options.
4. OPTIONALLY - Flash drive can be removed and installed in a computer

SEATRAK OVERLAY – by SEAVIEWER



When used in our console the SEATRAK is configured directly after the camera to assure the GPS overlay is recorded and displayed on the monitor.

The overlay device has a standard RS232 input which would be connected to your GPS. Connect your GPS to the device. Once communication has been established you will see the GPS information on the screen.

Refer the manual included with the SEATRAK for enhanced features and configuration specifics.

The SEATRAK configuration allows you to place the LOT/LAN on different areas of the screen.

NOTES FOR ALL USERS ...

A) The Display Console should always be ventilated (lid open) when using or charging to avoid heat issues.

B) It is recommended not to use the Battery Charger while running the equipment since this could cause the current rating of the Charger to be exceeded in some cases.

C) TURN “OFF” -STOP THE RECORDING prior to turning off the main console switch. It is NOT required that you turn off all accessories during the shutdown process.

D) Additional component documentation may be included for each accessory.

E) The DVR draws power from the MAIN POWER BATTERY .

F) The BATTERY CHARGER (110-240 Volt AC @ 50/60Hz) for the MAIN BATTERY is inside the foam. You may expect to power the Surface Console and a SeaViewer Camera for up to 8 hours with the MAIN BATTERY charged, depending on your choice of components. See the pages below concerning Battery Information to get a more accurate estimation.

G) CABLE WITH ALLIGATOR CLIPS (IF EQUIPPED) – is used to power system when internal battery is low, or to conserve internal battery. First turn OFF main battery switch. Then connect the cigarette lighter plug to the console. If using alligator clips ordered from Seaviewer, connect the FEMALE cigarette lighter plug to the alligator clips provided.

BE SURE RED CLIP IS ON POSITIVE (+) BATTERY POST.

CONSOLE BATTERY, CHARGER & SWITCH INFORMATION

There are two different size batteries available. Both are sealed lead-acid (SLA) batteries, and output approximately 12 Volts DC. They are maintenance-free and come with a charger that uses 110-240 Volt (50/60 Hz) AC input, along with an inline 12-Volt DC fuse which is replaceable. Those built into the Surface Console units also include an ON/OFF switch. It is recommended not to use the Battery Charger while running the equipment since this could cause the current rating of the Charger to be exceeded in some cases.

BATTERY SIZES

The difference between the batteries, other than size and weight, is the running-time which they will allow before needing to be re-charged. Of course, the more equipment that is powered, the less the running-time will be; and also the larger the battery that will be required to achieve the same running-time. The size of the battery is rated in Amp-Hours (AH). The running time below is based upon the the typical configuration of our consoles.

Typical Hours of Operation:

Complete System FISH – no recorder (7ah – 5 hours / 18ah – 7 hours)

Complete System PRO – with Recorder (7ah – 4 hours / 18ah – 6 hours)

Complete System PRO+ – with Recorder and GPS/Overlay (7ah – 2-3 hours / 18ah – 5 hours)