

## Novasub Surface control unit with 1,2 & 4 channel DVR recorder.

The Surface Control Unit (SCU) is the NSDVR2 hard disk recorder built in a 19 inch rack. The system can record and control up to 4 channels with cameras & lights. The monitor connection is HDMI, VGA and composite video. The cameras are recorded on a hard disk at standard D1 720x576 or 960H / WD1 944x576.

Each channel has an independent audio input for recording audio along with the video file.

Standard the SCU is fitted with a text video overlay per channel. The system is 100-240 Vac powered and has a built in UPS function with batteries and battery charger.

The DVR2 is controlled with the membrane keypad and keyboard. The DVR2 is also fitted with a snapshot function which makes it possible to take pictures of the video stream. The video files can be copied from the internal SSD hard disk and external USB storage device. With a LAN connections you have the possibility to stream the video images over the network and internet.

### Video format

The DVR2 can record either in the standard D1 format or the new 960H wide format. The 960H format is in PAL 960x576 pixels, compared to the D1 720x576 and increase of 35%. To really achieve the actual 960H resolution, use the latest Novasub NSBC cameras which actually have the 960x576 pixels resolution.

### Text & Data overlay

The video text overlay are 4 lines of 36 characters each. One line is dedicated for use of the date/time with data. 2<sup>nd</sup> overlay is the name of the channel plus free text, and the remaining two overlay lines are free text. All overlay lines can be placed anywhere on the window. Also a snapshot can be made and is stored as a JPG on the hard disk. Optional diver data like depth and dive time can be added to the overlay. (see Novasub DDG Digital Diver Gauge and UDS-3 depth sensor)

The SCU-DVR2 can record all channels at the same time, each to an independent file. The monitor view is selectable between, 1 channel, 2 channels PAP (Picture & Picture) or 2 channels PIP (Picture in Picture) and Quad, 4 channels. The smaller PIP window can be placed anywhere over the main window. Also the PIP size is selectable between 1/4 or 1/9 size of the monitor.



1 channel SCU-DVR2-1



4 channel SCU-DVR2-4

### Features

- 19" inch rack
- Text & Data overlay
- Snapshot button
- Network connection

### Options

- 1,2 or 4 channels
- SCU-MON1
- SCU-(DR)VL



PIP- Picture in Picture

### Related Products:

- SCU-1DRVL
- SCU-VL
- SCU-MON1
- DDG
- SCC-1,2&3DR diver radio

### Distributed by:

## Specifications

<b>Ext. Power supply</b>	: 100-260 VAC, 50/60 Hz	<b>Battery life</b>	: 0.5 hours -> DVR recording
<b>Recording time</b>	: 50 hrs@ 960H best per channel 1,2 Gb / hr. (250 Gb SSD-HD)	<b>Int. Power supply</b>	: 12 vdc rechargeable battery with battery status indication, UPS function
<b>Video out</b>	: 4x 1Vpp/75 Ohm, 1x HDMI, 1x 1Vpp/75 Ohm Spot	<b>Network</b>	: Connection to network, DVR accessible via Browser
<b>DVR</b>	: Solid State HDD recording, H264,avi 720x576 pixels@25 fps & 944x576 pixels@ 20 fps per channel	<b>Video file</b>	: H264 Retrievable with USB memory stick (*.avi) or connection to PC via LAN
<b>Camera control</b>	: On/Off (only with Novasub SCC/SCU-(DR)VL systems)	<b>DVR control</b>	: Panel keypad control, Mouse control
<b>Lights control</b>	: ON/OFF & Dimming 0-100% (only with Novasub SCC/SCU-(DR)VL systems)	<b>Audio In/Out</b>	: signal of 1Vpp

## Connections

<b>Audio in</b>	: 4x RCA (Cinch)	<b>Power in</b>	: IEC C14 mates with C13
<b>Extra monitor</b>	: HDMI, VGA, BNC	<b>Network</b>	: LAN RJ45
<b>Mouse</b>	: USB-A	<b>Audio Out</b>	: 1x RCA (cinch)
<b>Data connection</b>	: Rs485 screwterminals (NovaBus)	<b>Video in</b>	: 4x BNC (direct from cameras)
<b>Flash drive</b>	: USB-A	<b>Video out</b>	: 1x BNC (Spot, channel selectable)

## The DVR keypad has the following function:

<b>Channel selection 1,2,3 &amp; 4</b>	: Channel selection for overlay, camera, light and snapshot control	<b>CAM</b>	: ON/OFF camera
<b>Rec per channel</b>	: Start/stop recording	<b>Light (+,-)</b>	: ON/OFF. dimming
<b>SNAP</b>	: Snapshot picture of video image (same resolutions a video)	<b>Arrows, OK</b>	: Menu control DVR
<b>View</b>	: Selection of view, full, PIP, PAP and Quad	<b>Menu</b>	: Access to menu
<b>ESC</b>	: Escape in DVR menu	<b>Play, STOP</b>	: Access playback of rec. files



SCU-MON1



SCU-1DRVL