NOVASUB Surface control wall panel for two diver radio with integrated camera, light control with DVR & 10.4" colour monitor and digital depth gauges.

The Novasub diver communication radio is based on the latest electronic technology and is specially designed for an outstanding diver and surface sound quality. The unit is standard fitted for a 2 diver connection and has a built in LED light control and video transmission over twisted pair or coax controller for each diver (CCTV). This in combination with DDG per channel, makes the radio a must-have communication logging device.

The video controller is auto tunable for any cable up to 600 m. The unit has a mains and battery backup. Is powered with a built in smart battery charger and has a battery state condition monitoring. Standard the radio is fitted with a volume controllable external speaker amplifier. Both diver and tender voice are heard on the external speaker.

The radio is based on a 2 wire communication principal and has for each diver a PTT (Push To Talk) button. The communication type is "simplex", that is to say; the operator must press a button to speak. The sound of the diver is always heard, except when operators speaks to the diver. The operator at the surface can speak to each diver individually. Also the operator can activate the communication diver-diver (Cross Talk). The SCC can also be set for Round-Robin (4 wire comms). Each diver audio and video have an output for extra monitors and recording.

Features

- ***Digital depth measurement***
- ***960H resolution***
- ***2 Channel Rec.***
- ***Daylight Monitor***
- ***PIP & PAP***
- ***Snapshot button***
- ***Camera Control***
- ***Light Control***
- ***Network connection***
- ***Text & Data overlay***

Video format

The DVR can record either in the standard D1 format or the new 960H wide format. The format can be set per channel. 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

Each channel has its own 4 lines of 36 characters overlay. One line is dedicated for use of the date/time with data. 2nd 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 of each channel 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)

Digital depth gauge

The DDG is not only a replacement of your standard pneumo depth gauge but an diver depth tool with multiple extra features making the diver data registration more accurate and safe. The DDG has a standard built in depth sensor with a range of 0- 60 MSW. This sensor connected to the pneumo hose is used to measure the diver depth in the traditional way by pressurizing the pneumo hose until it is complete free of water. Or you can use the UDS-3, a standard external depth sensor with a range of 0-60 MSW. Using the constant depth measurements makes the DDG a complete tool for the commercial dive logging. The DDG has the standard basic features of starting the Dive time chronometer; Dive time and Start time are logged along with the maximum reached depth. The most important information for the Dive supervisor's log.

During the dive the display also shows the water temperature of the divers water surrounding. It calculates if the diver is descending or ascending and indicates the speed of ascending. The DDG has more; the dive can be logged in a user selectable interval. This log is stored in the DDG internal memory and can be recovered using the Windows based DDG Visualizer software. Each dive can be logged to a selected diver number, this to keep track of each divers dive information. In the DDG Visualizer software the Dive Profile will be displayed graphically along with all logged data. In this program the diving profiles can be added commentary and exported for further use.

SCCW-2DRVL-DVR-DDG

R 1.10

Specifications

Ext. power supply	:	100-260 VAC, 50/60 Hz	**Battery life**	:	20 hours -> 2 diver comms. only 2 hours -> 2 divers video & DVR 1 hours ->1 diver light & video and DVR
Light control	:	100% dimmable per diver, max 30 watts, 12-30 vdc			
Video out	:	1 per diver, 1Vpp/75 Ohm	**Int. Power supply**	:	24 vdc rechargeable battery with battery status indication, UPS function
DVR	:	Solid State HD recording, H264,avi 720x576 pixels@25 fps and 944x576 pixels@ 20 fps	**Network**	:	Connection to network, DVR accessible via Browser
Video control	:	Video transmission over twisted pair or coax, auto-tune to 600 m, 32 vdc (12,15,24 vdc optional)	**Tender volume control**	:	Per diver
DVR control	:	Panel keypad control & Mouse	**Monitor**	:	10,4" Daylight Monitor, 1000 candela
Audio Out	:	1 per diver signal of 1Vpp	**Recording time**	:	100 hrs @ 960H best 1,2 Gb / hr. (120 Gb SSD-HD)
Diver to diver	:	Cross-talk switch, full duplex (4 wire)	**Ext. speaker**	:	Amplifier 10W/4-8 Ohm with volume control
Diver volume control	:	Per diver	**Communication**	:	2 wire - simplex, 4 wire - full duplex
Dimensions	:	602,4x335x623,4 mm – 23,72x13,19x24,54 Inch	**Recording channel**	:	2 channel, per channel record button
Weight	:	24 kg	**Video file**	:	Retrievable with USB memory stick (*.avi) or connection to PC via LAN

Connections

Audio out	:	2x RCA (Cinch)	**Umbilical connector**	:	2x UTS-10p Multi pin circular connector, comms, camera and light
Headset/Mic	:	Bulgin 8pin, audio out, Mic in, PTT	**Diver comms**	:	2x Banana socket per channel
Keyboard	:	USB-A	**DDG**	:	Bulgin 8pin – RS232
Network	:	LAN RJ45	**External speaker**	:	2x Banana screw sockets
Extra monitor	:	HDMI	**Bobox**	:	External Comms box
Video out	:	2x BNC	**Novabus**	:	Bulgin 8pin – 2 wire data bus
Flash drive	:	USB-A	**Power in**	:	IEC C14 mates with C13
Pneumo	:	Sampling coupling per channel			

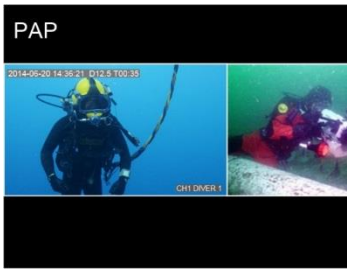
DDG

Auto counting starts & stop	:	1 m (3 ft.) depth	**Internal depth sensor**	:	0 to 60 MSW; accuracy: ± 0.25%
Dive counter	:	20 divers, 255 logs (per diver)	**External diver sensor (UDS-3)**	:	4 ~ 20mADC 2-wire current output HART protocol accuracy: ± 0.25%
Ascent rate	:	0 ~ 20 m/min (0 ~ 65 ft./min)	**External power supply**	:	12-32 vDC, 15 watt supplied with Adapter 100/240 VAC to 12 vDC, 4A
ppO_2 value range	:	1,4 ~ 1,6 bar	**Internal Power**	:	NiMH battery pack, 6v-2200 mAh
Nitrox value range	:	21 ~ 60 %	**Battery operating time**	:	10-24 hrs
Logging interval	:	2 sec. range: 1 ~ 60 sec	**Log and data transfer to PC**	:	USB/Bluetooth or USB/RS232 and RS485 (NovaNet)

Optional

- Diver depth to overlay ; direct connection of UDS-3 depth sensor data to video overlay.
- DDG diver data to overlay ; DDG depth and dive/time data to video overlay.
- BoBox ; Breakout Box for remote comms, control with both divers, 50 m cable.
- Thickness Gauge to overlay ; Tritex or Cygnus Thickness data to video overlay.
- Analog value to overlay ; any 0-10v or 4-20 ma signal data to video overlay.
- Remote control software ; Novasub DVR software to remote control and view the SCC-2DRVL-DVR G3.
- 4 channel viewing and recording.
- Black protection cover and/or keyboard standard.

PIP 1/4 size with Darkened text overlay



PAP horizontal with Darkened text

The built in DVR with 10,4" daylight monitor can record both divers 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). The smaller PIP window can be placed anywhere over the main window. Also the PIP size is selectable between ¼ or 1/9 size of the monitor.

Related Products:

- NSBC camera
- LUXR 3&6 Lights
- DDG
- DUR01 Umbilical
- DLR-3&4 cables
- DP diver gas panels
- SCC-1,2&3DR diver radio
- BoBox

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