

SCC-2DRHVL-DSP-DVR3-G4.2 2 Diver Communication, HD Video recorder, Camera & Light control

The TRITON-C2 is a top of the line surface control case that combines both a diver radio and video recorder into one highly portable unit. The system is integrated into a rugged, fully waterproof case with high grade connectors on the outside. The video recorder runs on the proprietary DVR3 software from NOVASUB. The recorder is able to support both SD and HD analog camera's. Each channel supports SD, TVI and AHD camera's. The system has integrated camera and light control. Both channels can be displayed on the 12.1" daylight screen. The systems also utilizes the xDR diver radio system from NOVASUB. This radio is fully adjustable to your needs. The case has a built-in battery that is charged when you are connected to an external power supply.



TRITON-C2 is configured with :

NOVASUB HD: An innovative hardware solution for transmitting Full HD video with 4x more pixels via existing cables and umbilicals, using analog signals from AHD and TVI cameras, supporting cable lengths up to 300m for quality twisted pairs and 250m for coax cables.

NOVASUB DVR3: The 3rd generation video recording software developed by Seascope Subsea. The software is completely redesigned from the ground up to accommodate better ease of use, new features and a better image quality.

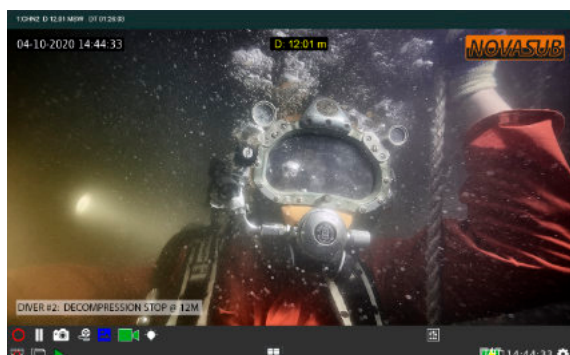
NOVASUB xDR-DSP: An advanced self-contained digital diver intercom that supports communication between a tender and multiple divers. This cutting-edge intercom offers a high degree of customization and adjustment.

Features:

- Full HD support
- Video & Radio in one
- Rugged, compact & portable
- 12.1" Touch- & daylight screen

Applications:

- Commercial Diving



website link : <https://www.novasub.com/product>

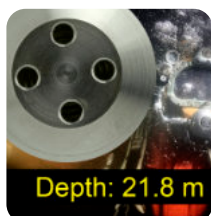
product video : <https://www.youtube.com/channel/UCRqqumJy8O7XEabp7S1rpQ>

TRITON-C2 Available options:**Wireless Ready**

Equip the system with a Bluetooth print and antennas to be able to connect wireless headsets to the radio. This upgrade can be done post-production.

**Extra Wireless Connections**

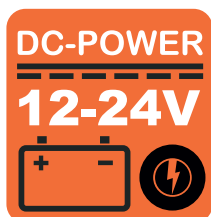
This option increases the available wireless connections from 2 to 4. The system will then be equipped with 4 antennas and buttons.

**Depth Display**

The system can be expanded with depth displaying capabilities. This option will integrate a depth reading PCB (Printed Circuit Board) into the system and requires the UDS-3-x depth sensor.

**Client Specific Umbilical Connectors**

The system can be equipped with the umbilical connectors that you need. This makes combining our system with your current equipment more convenient.

**DC Power**

The system can be expanded with a DC power inlet. This inlet uses a high-grade connector that accepts 12-24 Vdc. The product will have a 2 meter charging cable with either an open-end or a client-specific connector included.

**Extended Power**

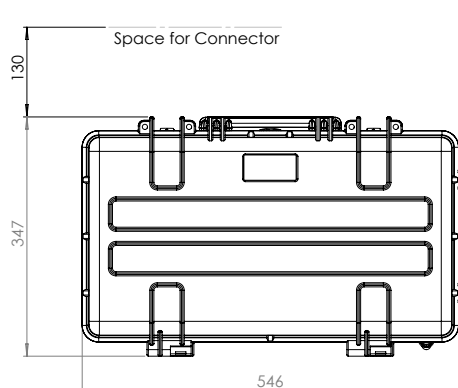
The battery of the system can be replaced with a bigger battery. This battery has 5x the capacity of the original battery which enables you to work much longer without needing external power. This option also adds 1.5kg to the total weight of the system.

* Please contact NOVASUB. All options, unless otherwise specified, need to be clarified when ordering.

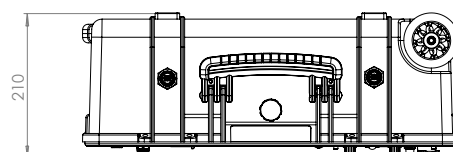
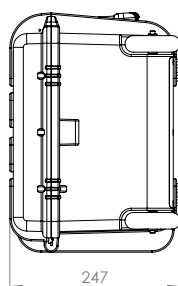
* Features and specifications are subject to change without prior notice due to continuous developments

SCC-2DRHVL-DSP-DVR3-G4.2 2 Diver Communication, HD Video recorder, Camera & Light control

System	Description	Type / Parts
Name	SCC-2DRHVL-DSP-DVR G4.2	
Channels	2x	
Light Control	Ampere regulated (max. 1.7A)	Max. 31 vdc (settable 12-31 vdc)
Camera control	Balanced or unbalanced (settable)	Max. 31 vdc (settable 12-31 vdc)
Video input	Hybrid (SD, AHD or TVI)	
xDR	Yes	G4
Wireless Connections	2x optional	
DVR	Yes	G3
DVR Screen size	12.1"	1000 nits daylight screen
Storage	SSD	240 GB / 210 GB free for recording upgradable to 480 GB
Connectors		
Umbilical :		
<i>Multipin</i>	2x, With Comms, Video, Light & Depth	UTS712E10S or UTS714E19S
<i>Banana</i>	2 Channels	4x Banana for each channel
External Speaker	1x	2x Banana binding posts
Power	1x, 100-240Vac	C14
NovaBus (Data in/out)	1x	Bulgin, PX0412/08S
Wired Headset :		
<i>Multipin</i>	1x, With Earphone, Mic & PTT	Lumberg 0271-07
<i>Earphone</i>	1x	Jack 3.5mm (Mono/Stereo)
<i>Mic</i>	1x	Jack 3.5mm (Mono)
Audio Out	2x	RCA
Aux In	1x	Jack 3.5mm (Mono/Stereo)
Aux Out	2x	RCA
External monitor	1x	HDMI
Ethernet	1x	RJ45
USB	4x	USB 2.0 / USB3.0
Video Out	2x	BNC (SD, TVI or AHD output)
Battery		
Run time	20-45 min.	Serves only as UPS backup
Charging time	6 hours	
Size		
Length	546 mm	
Width	347 mm	
Height	247 mm	
Weight	13.7 kg	



Dimensions (mm)



All topside units, communication, lights and cameras have been meticulously crafted and rigorously tested to meet the guidelines and norms established by the CE norm. A declaration of conformity is available on our website and on request.



DVR3 Digital Video Recording Software with Camera & Light control

DVR3 Video Recording Software

NOVASUB DVR3 is the 3rd generation video recording software developed by Seascope Subsea. The software is completely redesigned from the ground up to accommodate better ease of use, new features, and better image quality. The software now includes support for touchscreens apart from keyboard and mouse. It also has a new user interface with a taskbar to control all different functions for each diver. These functions include:

- Camera control
- Light control
- Recording
- Clip Recording
- Snapshot
- Quick overlay changes
-

The system has support for extensive overlay functions, such as text, images, and data. These overlay functions can be configured for each diver separately to accommodate every situation. The configurations can be saved and restored to make switching between conditions as smooth as possible.

The system can record in SD and 960H and has an audio input for every channel, recorded within the video file.

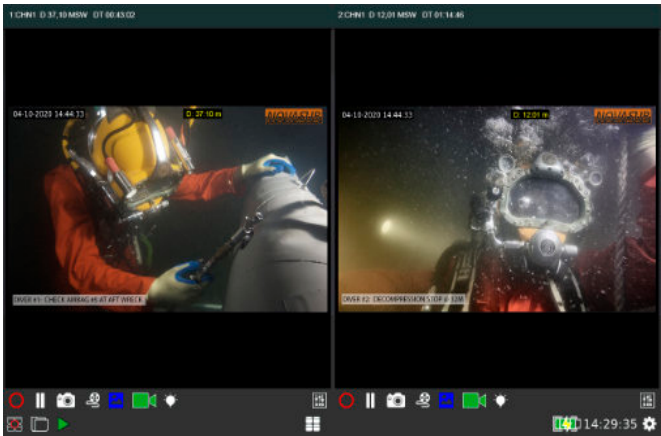
Different channels can be displayed in various ways to ensure you have your operation's best sight. That also includes the ability to connect to an external monitor on which you can select the channels you want to view.

The system has TeamViewer built into the software so you can share your code with anyone who wants to control the system remotely. TeamViewer also makes technical support more convenient and efficient.



Recording Specifications

Image Compression	H.264	File Format : MP4
Audio Compression	MPEG-4 AAC	File Size : 1,8 GB/Hrs
Recording Mode	Manual	Bitrate(constant): 4 Mbps
Recording Resolution	PAL: SD (720 x576) 960H (960x576)	
	NTSC: SD (720x480) 960H (960x480)	
Frame rate	PAL: 25 fps NTSC 30 fps	



Screen 2 divers video overlay in **DARK** mode

NOVASUB HD Analog Video

Novasub has developed a method to utilize full HD cameras on existing cables and umbilicals, enabling the transmission of nearly four times the pixels without any additional delay. By employing a high-bandwidth signal on either a coax core or a high-quality twisted pair, we can achieve significantly higher resolutions. The system supports both AHD and TVI camera's.

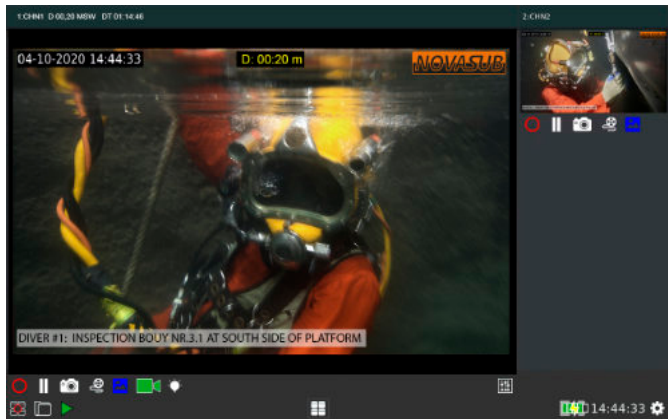
The maximum achievable length depends on the quality of the twisted pair, with lengths of up to 300m achievable for twisted pairs close to CAT specifications and up to 250m for coax.



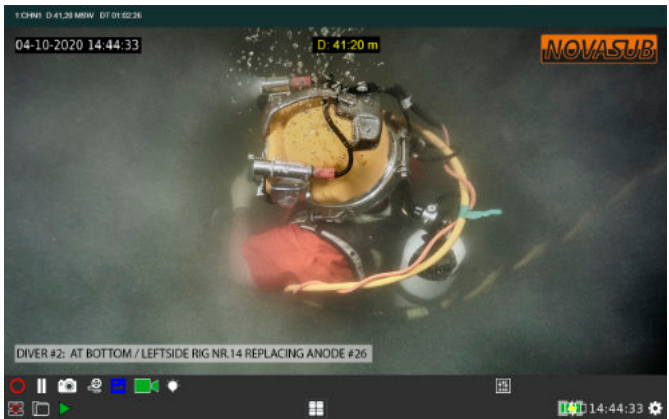
To use the new Novasub HD standard, you will have to have a novasub HD camera end a HD compatible topside unit. HD systems can be recognized by the HD ready logo.

Image Compression	H.264	File Format : MP4
Audio Compression	MPEG-4 AAC	File Size : 5,4 GB/Hrs
Recording Mode	Manual	Bitrate(constant): 12 Mbps
Recording Resolution	1920 x 1080 progressive	
Max length	Twisted Pair: 100-300m Coax: 250m	
Frame rate	25 fps	

DVR3 has configurable overlay and screen options:



Screen 2 divers video overlay : main screen with thumbnail for diver 2



Screen 1 diver video overlay in **DARK** mode



xDR DIVER INTERCOM

xDR-DSP xDR-DSP Diver Intercom with Digital Signal Processing (DSP)

Self-contained Diver Intercom that supports communication between a tender and 2 to 4 divers

NOVASUB xDR-DSP is a self-contained diver intercom that supports communication between a tender and 2 to 4 divers. It is an innovative system that includes in-house written software in combination with industrial hardware. Because of this software, the system has a massive amount of configurability. To achieve this it uses Digital Signal Processing (DSP).



Software:

This DSP makes the xDR-DSP an adjustable diver intercom in which you can, for example, select which channels you want to hear on an output or adjust its volume levels. The xDR-DSP can also operate in half duplex tender to diver as well as full duplex between divers (Round Robin). By default settings, the xDR-DSP will work as a standard 2 Diver intercom you will be used to.

Hardware:

The xDR-DSP is equipped with a 2 line translatve display. This display is used to scroll through the menu and adjust the required settings. The xDR-DSP is always equipped with push to talk buttons, Volume control and a microphone connection. The audio in- and outputs can are configured as needed.

Features:

- Fully audio configurable, select on each Diver, Tender and output what it may hear
- Each Diver, input and output has a gain level adjustment
- Separate amplifiers for Divers, Internal speaker and External speakers
- Transformer Isolated on all Divers, inputs and outputs
- 3,5 mm jacks to connect any media / gaming headset with mic

Options:

The system is per default **'Wireless Prepared'** for 2 connections, this means that the connectors for the antennas and the buttons are already integrated in the the system. This can be upgraded anytime to **'Wireless Ready'** to be able to connect to wireless headsets. On order, the number of connections can be expanded up to 4 wireless connections.



'Wireless Ready' option installed

Input Impedance (Each Input)	250 Ohms	Headset Mic Sensitivity	159 mVpp
Frequency Response	300 - 10000 Hz	Inputs audio (Aux&DVR in)	2,82 Vpp
Common Mode Rejection	40 dB Minimum	Outputs Audio (Rec, Out & Aux)	2,82 Vpp
Power Drain	0.2 – 0.5 Ah (12v)	Headset speaker	
Output Impedance	4 Ohm	Diver Output Power (RMS @ 4 Ohm Load, 12 Vdc	7 watt audio
Diver Mic Sensitivity (Input)	15 mVpp	Speaker Output Power (4 Ohm)	15 watt audio
		Inputs and outputs Isolation	Transformer galvanic Isolated

ACCESSORIES Compatible with TRITON-C1

NSHEADSET5  Single Ear Headset with dual Jack (Standard included)	NSHEADSET1  Headset with PTT and noise cancellation	NSHEADSET4  Heavy Duty Single Ear Headset with PTT	NSHEADSET6  Heavy Duty Double Ear Headset with PTT
WLHEADSET1  Wireless Headset with PTT / waterproof <i>needs 'Wireless Ready' option</i>	WLHEADSET2  Wireless Headset with PTT for helmet mount / waterproof <i>needs 'Wireless Ready' option</i>	WLHEADSET3  Wireless Headset with PTT and Hear-Trough mode / waterproof <i>needs 'Wireless Ready' option</i>	NSEXTSPK33  Waterproof External Speaker 23 watt
K400  Wireless Keyboard K400 U.S. International (Standard Included)	TMIC3-2L  Table Microphone 2 channels	HHMIC3-4L  Handheld Microphone	ALB-5122  Wall Mount Bracket



RELATED PRODUCTS

NOVASUB Available products that can be used in combination with TRITON :

BOREAS  DIVING AIR CASES & PANELS	ARGOS  SD CAMERAS	ARGOS  HD CAMERAS	HERMES  COMMS
DUX  UMBILICALS	DLRx & CDURx  CABLES for video & comms	UDS   Depth Sensor	HELIOS  LIGHTS