

PDC-3D4H-3DRVL-DSP-DVR3-M1.0 Diver Gas, Communication, Video recorder, Camera & Light

PROTEUS-C1 | All in one portable case with 3 diver gas control, communication, video & light control and Digital Depth gauges

The PROTEUS-C1 is a portable all-in-one case. It consists of a case that has a base and a lid. A diver gas panel (BOREAS-C10 or BOREAS-C11) can be found in the base. In the lid are a DVR3 video system and a THETIS-P1 diver radio. The lid also has light control and a Digital Depth Gauge and a Digital Gas Analyser for each diver.



PROTEUS-C1 is configured with :

NOVASUB xDR-DSP self-contained diver intercom that supports communication between a tender and 2 to 4 divers.

NOVASUB DVR3 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 DDG Digital diver depth gauge for dive profile logging

PROTEUS-C1 comes standard with a headset and wireless keyboard.

Features:

- Portable All-in-One
- Compact & Rugged
- 3 Diver Control

Applications:

- Commercial Diving

website link : <https://www.novasub.com/product/proteus-c1-portable-diver-radio-video-recorder-and-air-control-system/>

product video : <https://www.youtube.com/channel/UCRqqqmJy8O7XEabp7S1rpQ>

PDC-2D3H-2DRVL-DSP-DVR3-M1.0 Diver Gas, Communication, Video recorder, Camera & Light

PROTEUS-C1 | All in one portable case with 2 diver gas control, communication, video & light control and Digital Depth gauges

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PDC-xDxH-xDRVL-DSP-DVR3-M1.0 NOVASUB Products incorporated in PROTEUS-C1



DVR
diver video recorder & touchscreen monitor

DGA
diver gas analyzers

light control

DDG
digital depth gauges

THETIS-P1
diver radio

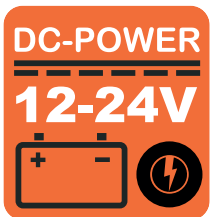
BOREAS
dive panel

PROTEUS-C1 3-Diver case



PROTEUS-C1 Available options:**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.

*** 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*

PDC-xDxH-xDRVL-DSP-DVR3-M1.0 Diver Gas, Communication, Video recorder, Camera & Light

Specifications :

System	Description	Type / Parts
Name	PDC-xDxHx-DVRL-DSP-DVR-M1.0	
Channels	2x or 3x	
Light Control	Regulated	32vdc 0-1,7Ah
Camera control	Balanced or unbalanced	32vdc (optional 12-32vdc)
xDR	Yes	G4
Wireless Connections	2x optional	
DVR	Yes	G3
DVR Screen size	15,6"	1000 nits daylight screen
Storage	SSD	120 GB / 90 GB free for recording upgradable to 240/480/512 GB
Connectors		
Umbilical :		
<i>Multipin</i>	2x or 3x, With Comms, Video, Light & Depth	UTS712E10S or UTS714E19S
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 or 3x	RCA
Aux In	1x	Jack 3.5mm (Mono/Stereo)
External monitor	1x	HDMI
Ethernet	1x	RJ45
USB	4x	USB 2.0
Video Out	2x or 3x	BNC
Couplings / INLET		
High Pressure	1/4" NPT, max 350 bar, standard supplied with DIN G5/8" 300 bar	
Couplings / OUTLET		
Diver Air Supply	1/4" NPT, standard supplied with JIC06 Coupling	
Diver Pneumo	1/4" NPT, standard supplied with JIC06 Coupling	
Battery		
Run time	20-45 min.	Serves only as UPS backup
Charging time	12 hours	
Size		
Length	787 mm	
Width	559 mm	
Height	500 mm	
Weight	2 Diver 60 kg / 3 Diver 80 kg	

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.

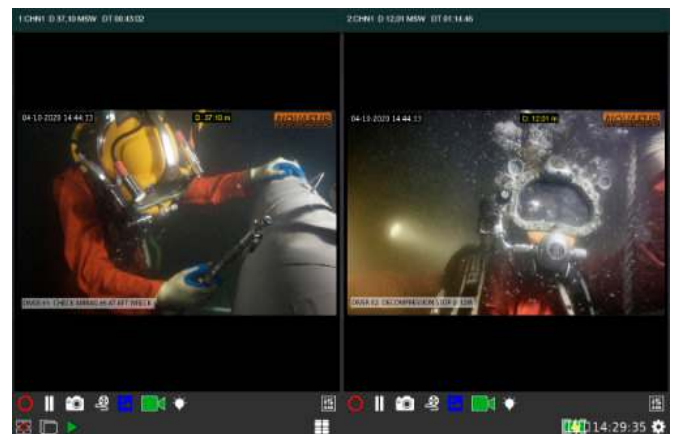
Different channels can be displayed in various ways to ensure you have your operation's best sight. That also includes the ability to connect to an external monitor on which you can select the channels you want to view.

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.

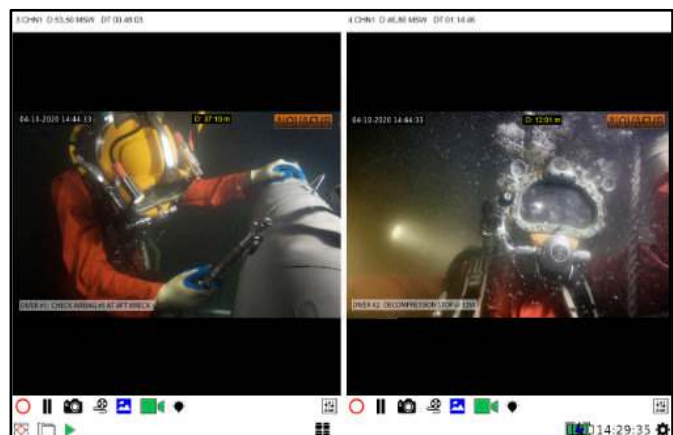


Recording Specifications

Image Compression	H.264	File Format : MP4
Audio Compression	MPEG-4 AAC	File Size : 3,5 GB/Hrs
Recording Mode	Manual	Bitrate(constant): 8 Mbps
Recording Resolution	PAL: SD (720 x576) 960H (960x576)	
	NTSC: SD (720x480) 960H (960x480)	
Frame rate	PAL: 25 fps NTSC 30 fps	

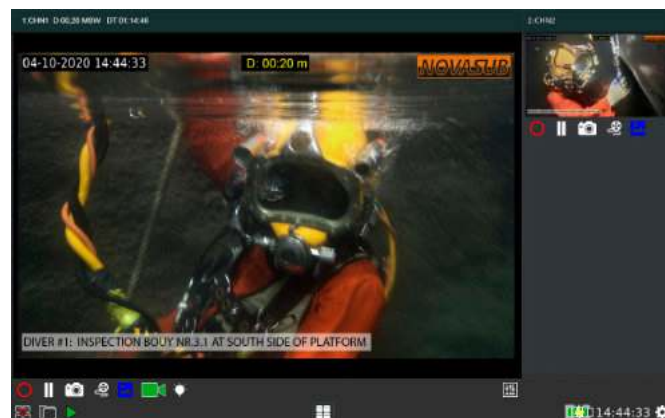


Screen 2 divers video overlay in **DARK** mode

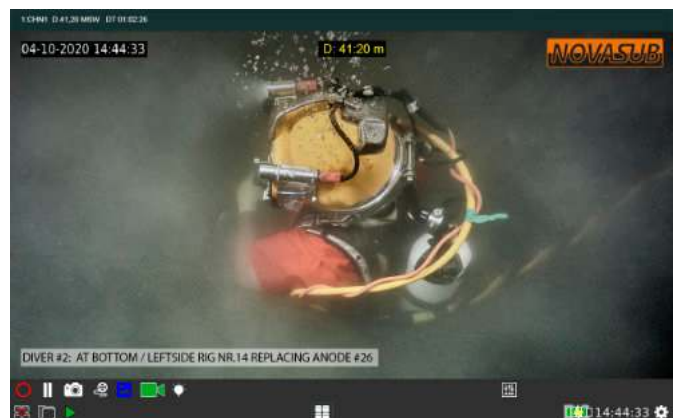


Screen 2 divers video overlay in **LIGHT** mode

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-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 translatable 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 be 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

DDG Digital Diver Depth

DDG | Digital Diver Depth Gauge for dive profile logging

NOVASUB Digital Depth Gauge (DDG) is a high-end digital pneumo depth gauge. The DDG is developed to replace or supplement the current analog pneumo gauges. However, the DDG is not only a replacement of your standard pneumo depth gauge but a diver depth tool with multiple extra features making diver data registration more accurate and safe.

This gauge is very accurate and can measure depth in two ways:

- **Using the internal depth sensor connected to the pneumo hose.**
- **Using the UDS-3 external pressure sensor at the end of the diver umbilical.**

The option with an external pressure sensor ensures a continuous measurement of the actual depth without surface operations.

Using the constant depth measurements makes the DDG a complete tool for 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. During the dive, the display also shows the water temperature of the diver's water surrounding. It calculates if the diver is descending or ascending and indicates the speed of ascending.

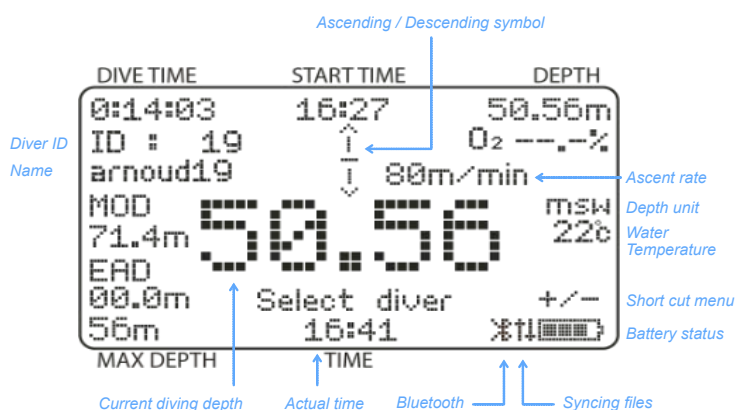
The DDG has more; the dive can be logged in a user-selectable interval. This log is stored in the DDG internal memory and can be recovered using the Windows-based DDG Visualizer software. Each dive can be logged to a selected diver number to keep track of each diver's dive information. In the DDG Visualizer 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.



Functions:

- Actual & Maximum Depth
- Depth readout shown in large text size
- Start time & dive time (manual and auto)
- Diver name input
- Nitrox equivalent air depth settings
- Digital calibration
- Adjustable zero-point
- Adjustable to MSW or FSW
- Adjustable to Fresh or Saltwater
- Selectable internal or external pressure sensor use
- Configurable for other depth sensor ranges
- Alarms: Diver depth, Time, Ascent rate, Max. Operating Depth
- Pneumatic valve control relay
- Output for alarm relay or buzzer
- Low-pressure alarm input
- Smart charger with battery capacity indication
- Automatic diver logging
- Logging of all dives (selectable per diver)
- Visualization software for reports of the log-profiles
- Firmware upgradable by user
- Serial string output to video overlay or another device

DDG Display Explanation



DDG Specifications

Screen	Transflective LCD with backlight
Temperature range	-10 ~ 60 °C
Dive logging start	At 1m depth
Dive counter	20 divers, 255 logs each
Ascent rate	0 ~ 20 m/min
pp0, value range	1,4 ~ 1,6 bar
Nitrox value range	21 ~ 60 %
Internal depth sensor	0 - 60 MSW accuracy ± 0.25%
Pneumo	Male 1/4" BSP
Diver sensor (UDS-3)	4 ~ 20mADC 2-wir
Data transfer	USB/RS232
Power Supply	12-32 vDC
Battery Capacity	2200 mAh @ 6V
Battery Run time	min. 12 hours

ACCESSORIES Compatible with PROTEUS-C1

NSHEADSET5



Single Ear Headset
with dual Jack
(Included with PROTEUS)

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
needs 'Wireless Ready' option

WLHEADSET2



Wireless Headset
with PTT for helmet mount /
waterproof
needs 'Wireless Ready' option

WLHEADSET3



Wireless Headset
with PTT and Hear-Trough
mode / waterproof
needs 'Wireless Ready' option

TMIC3-2L



Table Microphone
2 channels

K400



Logitech Wireless Touch Keyboard K400
U.S. International
(Included with PROTEUS)

NSEXTSPK33



Waterproof External Speaker
23 watt

HHMIC-3



Handheld Microphone

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

BOREAS

**DIVING AIR
CASES & PANELS**

ARGOS

CAMERAS

HELIOS

LIGHTS

HERMES

COMMS

DUx

UMBILICALS

DLRx & CDURx

**CABLES
for video & comms**

UDS

Depth Sensor