

Consilium VDR

Next Generation Voyage Data Recorders

Consilium VDR F1

Consilium S-VDR S1

RECORDER
OPEN
TIES

 **Consilium**

When Safety Matters

New Consilium VDR F1 and S-VDR S1



- Low lifecycle cost
- Built to meet future demands
- Easy updates by crew
- Remote diagnostic
- Hot swap replacement (hardware & software)
- Flexible hardware configuration
- Based on small, optimized modules
- Embedded design
- Solid state



Consilium brings the Voyage Data Recorder's one step further with a new reliable marine rugged vdr.

The platform is based on modules which enables you to choose the level of recording data from the most basic system up to full option version with a large number of I/O's.

We have designed the vdr to be compatible with all navigation equipment performing under the toughest marine conditions as well as serving as an ideal upgrade option for older vdr's. The software provides you with the latest technology for solid non-interruptible hardware and full control on a Linux platform.

The stable design gives you a discrete vdr with a user-friendly remote control unit featuring backup for easy handling in emergency situations. The vdr can be upgraded with an extended, portable memory and a Consilium live player.

The system meets all relevant requirements of the IMO standards and EU directives, i.e. IMO Resolution A.861(20), MSC.214(81), IEC 61996-1 and IEC 61996-2.

FEATURES

Marine Rugged

Modular, reliable design with a solid state, non interruptible hardware built on full controlled software in a Linux environment.

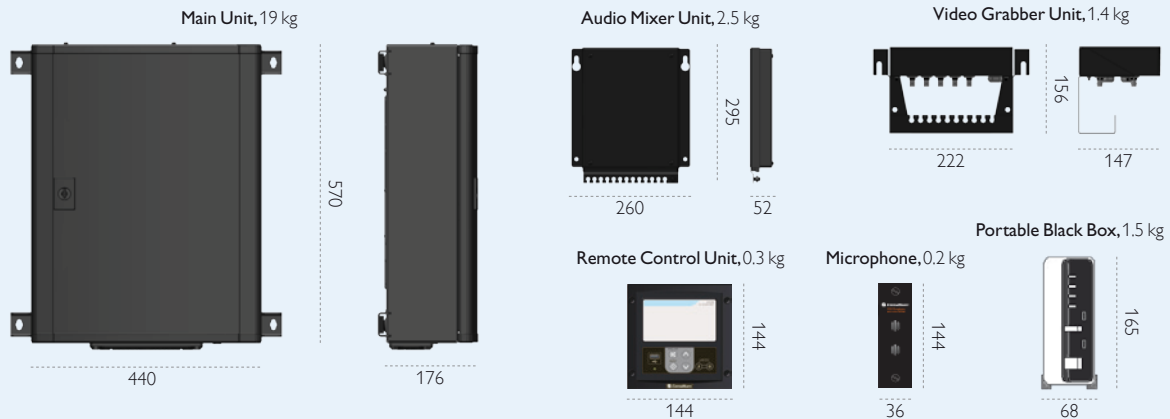
Compatible

Verified and suitable to all major approved navigation equipment in the world, which includes both new buildings and retrofit.

Discrete

The system status is monitored and easily operated through a discrete graphical colour display equipped with a user-friendly backup interface as standard.

Technical Specifications



Measurements in millimetres. Images not to scale

Main Unit (MU)

Environmental conditions	IEC 60945 protected equipment*
Recording period	12 hours recorded period, stored securely
Data export features	Data output for industrial USB memory
NMEA 0183 INPUT	Up to 19 channels IEC 61162-1, 1 channel according to IEC 61162-2 (high-speed)
NMEA 0183 OUTPUT	1 channel, IEC 61162-1
Service Connection	100Base-TX (IEEE 802.3)
Communication interface	100Base-TX (IEEE 802.3)
Power failure	2 hours of continuous recording
System Voltage	115-230 VAC
Power Consumption	< 120 W

Audio Mixer Unit (AMU)

Environmental conditions	IEC 60945 protected equipment*
Audio inputs	Up to 8 microphones with self-test mixed to 4 audio channels
VHF inputs	2 channels

Video Grabber Unit (VGU)

Environmental conditions	IEC 60945 protected equipment*
Radar inputs	Display up to 1920x1200 and 60 Hz.
Can be configured for a capture interval as short as 5 seconds.	

Remote Control Unit (RCU)

Environmental conditions	IEC 60945 protected equipment*
TFT color display	User-friendly with system status messages
Incident button	Store a preconfigured amount of time on an industrial USB stick
Acknowledge/mute button	Confirm and silence alarms
Dimmer	Continuously adjustable

Microphone AM1

Environmental conditions	IEC 60945 protected equipment*
Standard feature for automatic self testing sequence. Housing for outdoor use, IP66 classed	

Fixed Capsule (VDR)

Environmental conditions	Compliant to IEC 61996-1
Record period	Min 12 hours
Penetration	250 kg/100 mm probe at 3 m
Fire protection	60 minutes at 1100°C, 10 hours at 260°C
Impact	50 g, 11 ms and half sine shock
Immersion	6 000 m depth for 30 days

Fixed Capsule (S-VDR)

Environmental conditions	Compliant to IEC 61996-2
Record period	Min 12 hours
Fire protection	60 minutes at 1100°C, 10 hours at 260°C
Impact	50 g, 11 ms and half sine shock
Immersion	6 000 m depth for 30 days

Float Free Capsule (S-VDR)

Environmental conditions	Compliant to IEC 61996-2
Record period	Min 12 hours
Immersion	10 m depth at 5 minutes

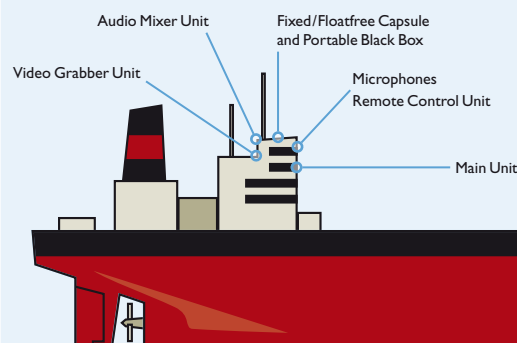
Portable Black Box (PBB) *Optional*

Environmental conditions	Not according to IMO mandatory regulations*
Storage capacity	Min 30 days
Communication interface	100Base-TX (IEEE 802.3)

Signal Converter

Environmental conditions	IEC 60945 protected equipment*
Analogue/ Digital	1024 separated inputs on each Gateway +/- 10 VDC 8 inputs on each module 4 - 20 mA 8 inputs on each module Digital 16-32 inputs on each module Numbers of different interfaces/adapters are available on request.

*Refer to manual for detailed temperature range for sub-parts



Global Service Network

Consilium Marine & Safety is represented in more than 50 countries and has a presence in the most frequently used ports around the world. Customers are able to obtain spare parts or conduct servicing via the network of subsidiaries and agents. So no matter where you are you are never far from a Consilium expert.

After sales support you can rely on

Consilium prides itself on providing customers with the benefit of a highly trained and resourceful after sales team. Each member of the team is fully experienced so customers have the added assurance of knowing that when they buy from Consilium complete customer satisfaction is an essential part of the deal.

Training on demand

To help customer to get the most out of our equipment Consilium offers educational courses and training seminars from their global network of offices. So should a customer have a special requirement Consilium representatives can help arrange and conduct specific seminars where attendees can discover everything there is to know about a particular product and its functions.

Annual Performance Test

All VDR systems, including sensors, will be subjected to an annual performance test in compliance with IMO and IEC standards. The test is conducted by an approved service supplier to verify the accuracy, duration and recoverability of the recorded data. In addition, inspections will be conducted to determine the condition of all protective enclosures and devices fitted to aid location.

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