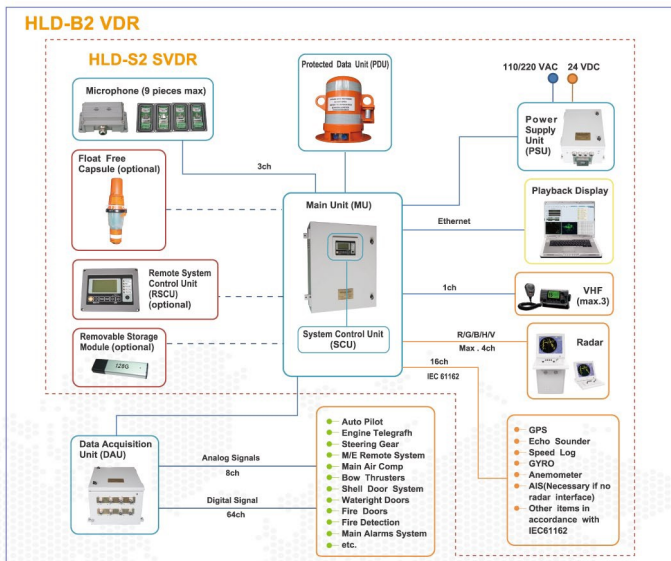


System links



- Features
- Configurations
- Data items to be recorded
- Specifications
- Product size
- System links

VDR/SVDR

Voyage Data Recorder

HLD-S2/B2



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Beijing Highlander Digital Technology Co., Ltd.

HLD-B2 VDR & HLD-S2 SVDR

Beijing Hihglander Digital Techonlogy Stock Co.,Ltd is an international enterprise manufacturing and supplying Voyage Data Recorder(VDR) and Simplified Voyage Data Recorder(SVDR).Highlander' s second generation VDR/SVDR are designed for interfacing all common bridge Systems and ship sensors,and manufactured on the same hardware and software.

Features

- High reliability – With embedded operating systems;
- Easy to install – Compact,lightweight,suitable to be installed on different ships;
- Flexible configurations,good adaptability – Analogue and digital signal inputs can be easy adapted to the specific ship requirements; Inmarsat interface,long distance annual performance test(additional devices required);
- Extendible – Some optional components can be selected;Ternovable Storage Module,Data Acquisition Unit etc;
- Detailed log backup,remote fault diagnosis;
- Real time playback software and interface provided,VDR/SVDR and PC can be connected by Local Area Network,any PC on board can be used to replay or copy the ship data;
- Tadar interface – HLD-B2 VDR is able to record up to 4 radars.

Configurations

Standard		Quantity	
		HLD-B2 VDR	HLD-S2 SVDR
Main (MU)		1	1
Power Supply Unit(PSU)		1	1
Protected Data Unit(PDU)		1	1*
DataAcquisition Unit (DAU)		1	-
System Control Unit(SCU)		1	1
Microphone	Interior microphone	4	4
	Exterior microphone	2	2
Cables		2	2
Playback Software		1	1
Optional		Quantity	
Removable Storage Module,128GB.(RSM)		1	1
Remote System Control Unit		1	1
Compass interface		1	1
Float Free Capslue		1	1
*Optional:Fixed or Float Free			

Data items to be recorded

Data	HLD-B2 VDR	HLD-S2 SVDR
Data and Time	√	√
Ship's Position	√	√
Speed	√	√
Heading	√	√
Bridge Audio	√	√
VHF Communication Audio	√	√
Radar Image	√	√*
AIS Data	√	√*
Depht	√	
Main Alarms	√	
Rudder Operation and Response	√	
Engine Operation and Response	√	
Hull Opening Status	√	
Watertight and Fire Door Status	√	
Accelations and Hull Stress	√	
Wind Speed and Direction	√	
Other items in accordance with IEC61162		√
*AIS Data is nessary if no radar interface		

Specifications

Main Unit

*16 Channels of NMEA 0183/IEC 61162 signals,4800-115200 bps supported;
*4 audio channels;
*9 Microphone interfaces;
*3 standard VHF interfaces;
*2 nonstandard VHF interfaces;
*Up to 4 channels of video input for Radar,ECDIS,CCTV etc;
*5 Port 100M Tthernet Switch for maintenance,downloading and other applications;
*1 channel isolated pulse input(passive or active,configurable)for speed log;
*Max.output power:200W.

Power Supply Unit

*Input voltage:DC 24V,AC 110/220V,50-60Hz;
*Output:DC 24V,Max.10A;
*Input-output isolation voltage:AC 3000V (1min),DC 2000V (1 min);
*Backup battery supply time:>2h
*Interface bus:RS-232 C.

System Control Unit/ Remote System Control Unit

*Power Supply:24V/0.2A;
*Display of malfunction and alarm;
*Data backup operation.

Microphone

*Frequency range:100-12KHz;
*Panel Installation(Indoors);
*Special protecting housing(Outdoors);
*Integrated self-test function;
*Special Audio Chamber to improve recording effect and audio quality.

Protected Data Unit

*Strong time:>=12h;
*Communication with Main Unit:Ethernet;
*Storage capacity:4 Gb,optional up to 8 Gb;
*Operating system:Embedded Linux with high reliability and stability;
*Protecting container satisfies the specific requirements of IEC 61996.

Data Acquisition Unit

*Convert non-IEC 61162 format data,such as analog;
*Contact or other signals into IEC 61162 format data;
*Different interface acquisition boards can be selected;
*Output data(to Main Unit)format is in compliance with IEC 61162.

Float Free Capslue

*Strong time:>=12h;
*Communication with Main Unit:Ethernet;
*Storage capacity:4Gb,optional up to 8Gb;
*Operating system:Embedded Linux with high reliability and stability;
*Release mechanism satisfies the requirement of IMO A.662(16),it will release automatically when reach a water depth of 4m;
*EPRB satisfies the requirements of IEC 61097-2,IEC 61096-7,IMO A.810(19) and ITU-RM.633-3:2004;
*Watertight at depth of 10m for at least 5 min;
*Be capable of floating upright in calm water and have positive stability and sufficient buoyancy in all sea conditions;
*Be capable of being dropped into the water without damage form a height of 20m.

Removable Storage Module

*Embedded operating system with high reliability;
*Storage capacity:Riser selectable,128Gb as standard (USB interfaces);
*Storage time>=30 days;
*Shock absorption,onboard enbironment satisfied;
*Hot swap supported,Plug and Play supported;
*Portable.

Product size

