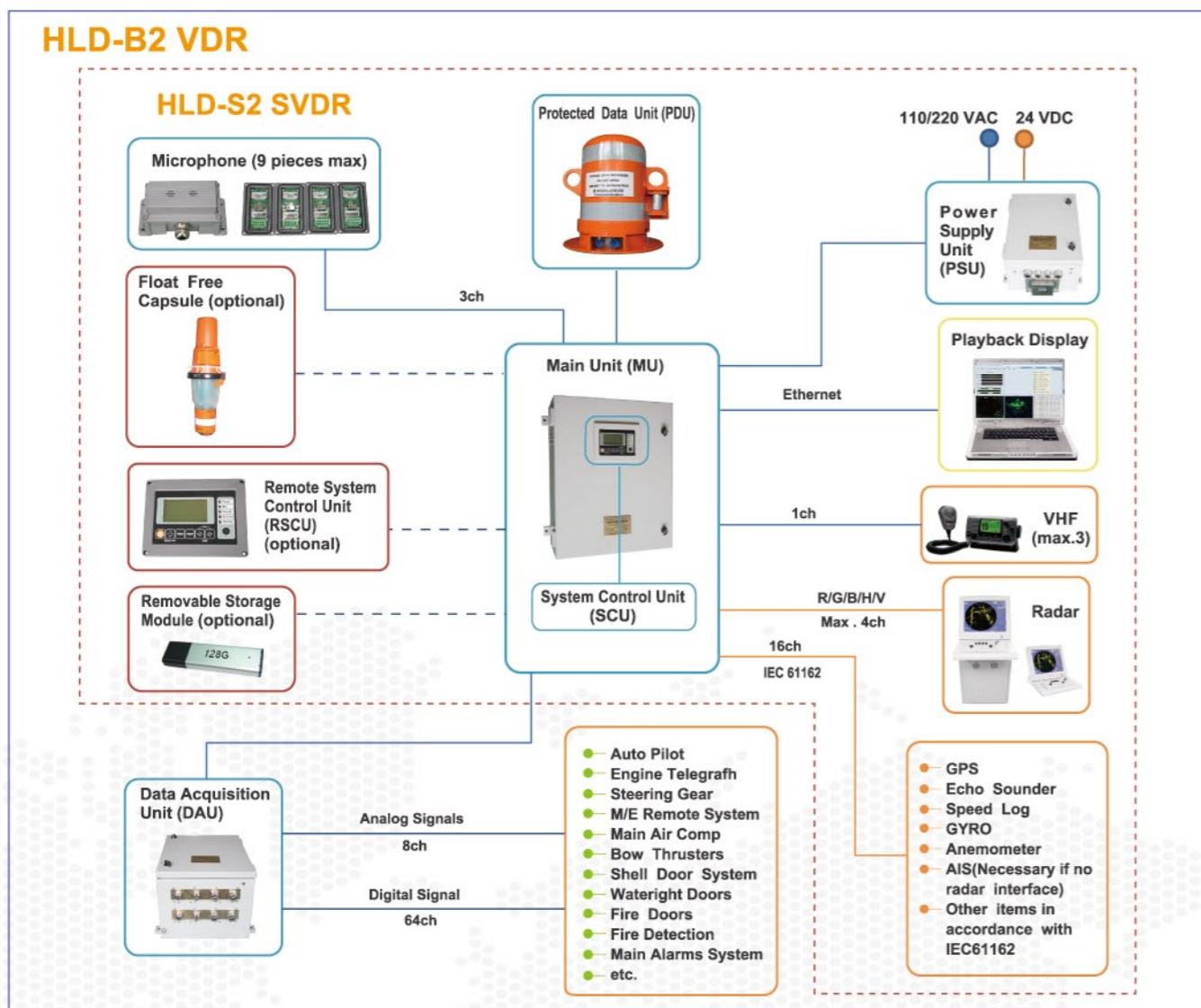


System links

HLD-B2 VDR



- 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;Temovable 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
	Exterior microphone	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	√	
Acceletations 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 Mirophone 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 Capsule

- *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;
- *EPIRB 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:Rser selectable,128Gb as standard (USB interfaces);
- *Storage time:> =30 days;
- *Shock absorption,onboard enbrionment satisfied;
- *Hot swap supported,Plug and Play supported;
- *Portable.

Product size

