



# S-VDR Installation Survey

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An accurate quotation and a successful installation rely very much on the provision of accurate information on the following equipment (if fitted).

Please complete the following Installation Survey as comprehensive as possible.

Pls. note that all boxes should be filled out - if an information is not available, this must be noted as well. - Empty boxes will therefore be assumed to be „Equipment not fitted“!

**Bridge Layout:** If possible, include a bridge layout plan including a measurement of the total width of the bridge including wings. State, whether bridge wings are enclosed or open.

VESSEL NAME



## 1 VESSEL DETAILS

These Ships Particulars are required for the Programming of the Capsule.  
Please complete all where applicable.

Vessels Name		
Owner / Operator		
Class		
Official Number		
Call Sign		
IMO Number		
MMSI Number		
Ship Builder		
Hull Number		
Port of Registration		
Date of Registration		
Length O.A.:		
Length B.P.:		
Breadth (Moulded)		
Depth (Moulded)		
Summer Draft (EXTR)		
Deadweight (SUMMER)		
Tonnage	Gross	Net
Date next drydock		
Shipyard next drydock		
Max Passenger Capacity		
Max Crew Capacity		
Cargo Capacity		
No of Life Boats/Total Capacity		
No. of Life Rafts/Total Capacity		



## 2 NAVIGATIONAL AIDS / COMMS

Provide details of available power supplies and different inputs from the various instruments, alarms and microphones that can be stored in the Final Recording Medium (FRM).

S-VDR Power Supply / Ships power	Emergency Supplies / Normal Supplies / Battery
24V DC 10 AMP	
100-120 VAC 10 AMP	
200-250 VAC 10 AMP	

### ARPA Radar

Manufacturer	
Type	
Data formats available / NMEA Message Type (Buffered external output for VDR, eg.g. RGB, V and H Sync or Monochrome with Sync on Green?) - If yes, type of connectors used (15pin VGA, BNC, or other...)	

### AIS

Manufacturer	
Type	
Data formats available	
NMEA	
NMEA 0183	

### GYRO

Manufacturer				
Type				
Data formats available	Synchro Radio e.g. 1:1, 360:1	Stepper Volts -24V, -35V, -70V	NMEA	Proprietary



## 2 NAVIGATIONAL AIDS / COMMS

**Vessels Speed:** Speed through water and/or speed over ground (both, transverse and longitudinal) are acceptable. If this is not a serial message, full details of the interface will be required and an additional NM interface will be necessary.

### Echo Sounder

Manufacturer			
Type			
Data formats available (Definite and clear TX and RX Pulses).	NMEA	Proprietary	
Location	Approx. cable run to S-VDR		

### Speed Log

Manufacturer			
Type			
Data formats available	200PPM	NMEA	Proprietary
		NMEA 0183 VTG	
Location	Approx. cable run to S-VDR		

### GPS Position / Date / Time

Manufacturer			
Type			
Outputs available	Yes / No		
	\$GPZDA		
	\$GPRMC		
	\$GPGGA		
	\$GPGLL		
	\$GPVTG		
Location of sensor			
Approx. cable run to S-VDR			
Remarks			

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ACR Electronics, Inc. 050505 / rev. 1.0



## 3 WIND SPEED / VHF STATION

**Wind speed and direction:** This is applicable, where suitable sensors are available. Either relative or true wind speed and direction may be recorded. The format of data must be serial, otherwise it is not compulsory to connect to the S-VDR.

### Wind speed and direction

Manufacturer			
Type			
Data formats available	Speed		
	mV/M	4-20mA	NMEA
			NMEA 0183 MWD / MWV
	Direction		
	Synchro	4-20mA	NMEA
			NMEA 0183 MWD / MWV
Location of sensor			
Approx. cable run to S-VDR			

### VHF Station

Manufacturer		
Type		
External TX and RX audio signal outputs?	YES	NO
Connector		
Location		
Approx. cable run to S-VDR		
Remarks		



## 4 ENGINEERING & CONTROL EQUIPMENT

**Engine Order and Response:** Including any engine telegraphs or direct engine/propeller controls, including shaft(s) RPM and feedback indications, if fitted, including ahead/astern indicators. If format of data is not serial, it is not compulsory to connect to the S-VDR.

### Engine Order and Response

Source	
Manufacturer	
Type	
How many control positions available	
No. of engines	
No. of shafts	
Variable Prop?	
NMEA Message Type (e.g. RPM)	
Ahead/Astern indicator	
Location	
Approx. cable run to S-VDR	

### Thrusters

Source		
Manufacturer		
Type		
Number of Thrusters	Bow	Stern
Directional?		
NMEA Message Type		
Location		
Approx. cable run to S-VDR		
Remarks		



## 5 RUDDER ORDER & RESPONSE / MAIN ALARMS

**Main alarms:** Where an IEC 61162 ALR message is available this **shall be** connected to the S-VDR. This shall include the status of all IMO mandatory alarms on the bridge.

### Rudder order & Response

Source	
Manufacturer	
Type	
Number of Rudders	
Data available combined for all rudders or independently	
NMEA Message Type (e.g. RSA, HTC, HTD)	
Location	
Approx. cable run to S-VDR	

### Main Alarms

Fire Doors			
Manufacturer			
Type			
No. of total zones		No. of total doors	
Data formats available			
<b>Watertight Doors</b>			
Manufacturer			
Type			
No. of total zones		No. of total doors	
Data formats available			
<b>Main Alarms Fire/Smoke</b>			
Manufacturer			
Type		Data formats available	
No. of total zones		No. of detectors	



## 5 MAIN ALARMS

**Main alarms:** Where an IEC 61162 ALR message is available this **shall be** connected to the S-VDR. This shall include the status of all IMO mandatory alarms on the bridge.

### Main Alarms

Hull Stress Monitoring	
Manufacturer	
Type	
Data formats available	

<b>Location of main alarms</b>	
Approx. cable run to S-VDR / total	
Remarks	

### Final Recording Medium (FRM)

Location	
Approx. cable run to S-VDR	

*The protective capsule shall be fitted in the vicinity of the bridge on the external deck area of the vessel so as to maximize the probability of its survival and recovery following an incident. The capsule shall be positioned clear of the rigging and other potential obstructions and as near to the centre line of the ship as possible.*

*Criteria to be considered when assessing the optimum position:*

- Separation from fuel or other potential fire sources
- Separation from probable sources of mechanical damage
- Operational environment for continued serviceability
- Accessibility for copying of recorded data and for routine maintenance
- Facilitation of underwater removal and retrieval by both, divers and ROVs. There shall be a clear unobstructed space in the vicinity of the capsule to allow ROV or divers work.

<b>Survey Conducted by</b>	Name
Date	Signature