BlueOcean VDR-SVDR
Survey CheckList

Type approval certifying authority:	ABS	
certificate number:	06-LD197651/1-PDA	
Maker:	COMAS	
type	VDU1M-F PLUS	
serial number		Capsule:
software version	1.2	
Standards:	IMO MSC.163 (78), IECPAS 61996-2, IEC 60945	

Ship Data

Vessel Name:	
IMO Number:	
Port of Registry:	
Gross tonnage:	
Date on which **keel** was laid**:**	

Survey Date

Position

Engineer

Tested   **Accepted**

Installer   **Ship's Master**

A. Data items to be recorded

Mandatory signals

Signal	Instrument	Manufacturer	Type	Connection point	Comments
Date and time					
Ship's position					
Speed					
Heading					
RADAR					
AIS					
Depth					
Ruder order					
Ruder response					
Engine order					
Engine response					
Accelerations and hull stresses					Only if IMO-mandated
Wind speed and direction					

Bridge audio

Microphone locations

No	Location	Comments
1		
2		
3		
4		
5		
6		
7		
8		

Communication audio

No	Instrument	Type	Output	Comments
1				
2				
3				
4				

B. Operational Integrity test

Item No	Item	Instructions	Test Result	Comments
1	**Functionality of system**	**Test with data held in final recording medium**		**All Surveys**
1.0	System check	Check screen readability. Inspect keyboard.		
1.1	Sequential record of data items	Over a thirty minute recording period verify that each applicable data item is recorded sequentially in the order that events occur (Service mode, check files)		
1.2	Co-relation in date and time	Check file time stamp: check that all recorded data items are co-related in date and time to an accuracy of not worse than one second		
1.3	Continuity of operation	Test that no gaps exists. Standard: no more than ten minutes. BlueOcean: no gaps at all (Check in service mode without interrupting recording)		
1.4	Recording period and duration	Does the copy of the data stored in the final recording medium show that all stored data items are retained for at least twelve hours?		
1.5	Bridge audio recording	Confirm that conversations at or near the bridge conning stations and bridge workstations are adequately recorded. As far as is practicable the record is to capture intercommunication, public address systems and audible alarms on the navigating bridge.		
1.6	Communications audio recording	Verify that VHF communications audio relating to ship operations is adequately recorded.		
1.7	Radar data recording	Compare the Radar data recording been with the original source image and test if it is satisfactory		
1.8	Microphone test	Auto test is every 10 minutes. Do a manual acoustic test		If environment too noisy use earphones: auto test can fail

2	**System configuration**			**Initial surveys only**
2.1	Ship particulars	Has the type approval reference, IMO number, system software version and data convention identifiers been entered into the final recording medium correctly?		Check for Blue.mdb in disk1 root directory
2.2	Instrument connection	Is the sensor data from the ship's equipment provided via interfaces that conform to the IEC 61162 standards all connected to SVDR as in "Data items to be recorded"? Use Maintanance->Test->NMEA.		
2.3	Microphones and RADAR	Are the bridge audio and radar interfaces configured to comply with the IEC 61996 and IECPAS 61996-2 standards?		
2.4	VHF	Is the bridge VHF communications audio interface configured to comply with the IEC 61097-7 standard?		
2.5	Additional interfaces	List any installed alternative interfaces - confirm compliance with appropriate international marine standard:		
2.6	Alarms	Verify that visual and audible alarms are initiated on the navigating bridge if the radar, audio and data signals are not being recorded correctly on the final recording medium. Press the test button to check the alarms.		
3	**Power Supplies (All Surveys)**			
3.1	Main Power	Confirm the operational status of the VDR or S-VDR when supplied from the main source of electrical power.		
3.2	Emergency Power	Confirm the operational status of the VDR or S-VDR when supplied from the emergency source of electrical power. (Put out mains fuse)		
3.3.1	Disconnect external power source to VDR or S-VDR.	Confirm visual and audible alarms are initiated on the navigating bridge. Verify that the VDR or S-VDR continues to record bridge audio for a further two hours. The recording will stop after two hours. See the power fail message on screen header		
3.3.2	Power reconnection	Does the VDR or S-VDR resume normal recording within one minute after restoration of the power supply?		
3.4	Battery expiry date	Are the batteries installed for reserve power source and protective capsule location aids within their expiry dates?		

4	**Protective Capsule**			All Surveys
4.1	Capsule lamp test	Press test. The white beacon should flash.		
4.2	Capsule condition	Is the shell of the capsule in good condition? Check for signs of tampering Is the capsule securely fastened?		
4.3	External markings	Is the outermost shell of the capsule of a highly visible fluorescent orange colour, marked with retro-reflective materials complying with IMO resolution A.658 and with the legend: "VOYAGE DATA RECORDER - DO NOT OPEN - REPORT TO AUTHORITIES"?		Clean if needed
4.4	Sealant condition	Confirm from visual examination that the type approved arrangements for withstanding shock, mechanical impact (VDR only), fire and sea water immersion are unimpaired		
4.5	Cable check	Check all cables for wear and tear: - Connection to capsule - Power supplies - NMEA cable - Audio cables		
5	**Modifications**			**Annual/Periodical/Renewal Surveys**
5.1	Data retention	Were the type approval reference, IMO number, system software version and data convention identifiers successfully retrieved from the final recording medium and verified as correct		
5.2	Ship's particular or connection change	Have any changes been made to the VDR, the ship's data items required to be recorded or new equipment installed since the initial installation survey?		
5.2.1	Modifications check	If yes, confirm that the modifications were undertaken with the approval of the equipment manufacturer in compliance with the performance standard. Copies of revised certification are to be attached if required and service reports are to be sighted.		