VDR (Voyage Data Recorder)

- NSR's own FFC and FPC adopted
- Real monitoring software available for easy check
- Flexible configuration for either VDR or SVDR
- Linux O/S used in firmware of VDR system
- Large size color LCD with touch screen operation
- Data interface to BAM System
- Type approval with DNV (MED), CCS, RS and VR





RAU





NVR-9000 VDR is designed to comply with the latest IMO rules of MSC.494 (104), IMO MSC.302 (87), IEC 61996-1, IEC 62923-1, IEC 62923-2.

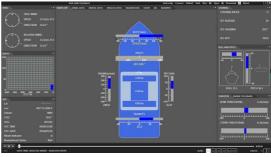
- Store data for min 48 hours both in Float-free Capsule (FFC) and Fixed Protective Capsule (FPC).
- Store data for min 30 days/720 hours in Data Acquisition Unit.
- Record image of two radars and two ECDIS.
- Three separate channels for audio input:
 - One for up to 4 microphones
 - One for up to 4 microphones
 - One for 2 VHF audio
- As standard configuration, below ports provided:
 - Serial port × 24 ch (8 at DAU and 16 at DEU)
 - Digital port × 64 ch (DEU)
 - Analog port × 8 ch (DEU)
- PC software available for playback & real time monitoring.





DAU













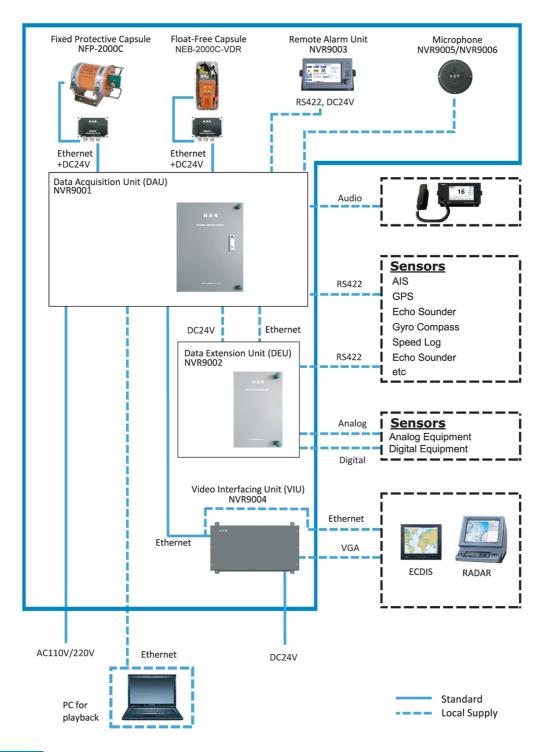














SPECIFICATIONS									
		Interface			Ethernet IEC 61162-450		4 ch		
					Serial IEC 61162-1/2, RS422		8 ch		
					VHF Audio		2 ch		
	Inter				Microphone		8 ch		
Data Acquisition Unit (DAU)					Remote Alarm Unit		1 ch		
					USB		1 ch		
					Remote Alarm Unit (RAU)		1 ch		
	DC 2	4V output			Fixed Protective Capsule (FPC)		1 ch		
					Float-Free Capsule (FFC)		1 ch		
		rding Duration					min 720 hours		
	Rese	rve Battery Ca	pacity	y			min 2 hours		
					Memory		64 GB		
Eived Protective Cancula (EDC)					Recording Duration		min 48 hours		
rixed Protective Capsule (FC)	Fixed Protective Capsule (FPC)				Beacon Battery Capacity		min 90 days		
					Beacon Battery Life		3 years		
					Memory		64 GB		
Float-Free Capsule (FFC)					Recording Duration		min 48 hours		
Trode Supsulo (TTO)				Battery Capacity		min 168 hours			
					Battery Life		5 years		
					Analog Input		8 ch		
Data Extension Unit (DEU)		Interface			Digital Input		64 ch		
					Serial IEC 61162-1/2, RS422		16 ch		
					Ethernet		1 ch		
Video Interface Unit (VIU)	Interf	Interface			VGA Ethernet		1-2 ch		
Pomete Alerm Unit (PAU)					Serial IEC 61162-1/2, RS422		1-2 cn		
Remote Alarm Unit (RAU)					Serial IEC 61 162-1/2, RS42.	2	I CII		
POWER SUPPLY									
Data Acquisition Unit (DAU)		AC110V/220V, 0.5~1.5A, 50/60Hz							
Data Extension Unit (DEU)	_	DC24V, 0.5A							
Video Interface Unit (VIU)	DC2	4V, 0.3A							
EQUIPMENT LIST									
Standard									
1 Data Acquisition Unit (DAU) NV	R9001	1 unit	5	Indoor Micro	ophone Unit (IMU)	NVR9005		4 units	
2 Data Extension Unit (DEU) NV	R9002	1 unit	6	Outdoor Mid	crophone Unit (OMU)	NVR9006		2 units	
3 Remote Alarm Unit (RAU) NV	R9003	1 unit	7	Fixed Prote	ctive Capsule (FPC) *	NFP-2000C		1 unit	
4 Video Interface Unit (VIU) NV	R9004	0∼4 units	8	Float-Free Capsule (FFC) * NEB-2000C-VDR 1 uni				1 unit	
* NEB-2000C-VDR/NFP-2000C is supplied together with a Junction Box (NEB205) and cable (30m).									

1	Data Acquisition Unit (DAU)	NVR9001	1 unit	5	Indoor Microphone Unit (IMU)	NVR9005	4 units		
2	Data Extension Unit (DEU)	NVR9002	1 unit	6	Outdoor Microphone Unit (OMU)	NVR9006	2 units		
3	Remote Alarm Unit (RAU)	NVR9003	1 unit	7	Fixed Protective Capsule (FPC) *	NFP-2000C	1 unit		
4	Video Interface Unit (VIU)	NVR9004	0∼4 units	8	Float-Free Capsule (FFC) * NEB-2000C-VDR		1 unit		
* NEB-2000C-VDR/NFP-2000C is supplied together with a Junction Box (NEB205) and cable (30m).									
Options									
1	Data Extension Unit (DEU)		NVR9002						
2	Video Interface Unit (VIU) NVR9004								
3	3 Indoor Microphone Unit (IMU) NVR9005								
4	4 Outdoor Microphone Unit (OMU) NVR90			IVR9006					

1	Data Acquisition Unit (DAU)	NVR9001	IP22	15.2 kg	510.0 480.0 450.0 100 NSR Voyage Data Recorder
2	Data Extension Unit (DEU)	NVR9002	IP22	5.2 kg	330.0 300.0 270.0 130.0 270.0 130.0
3	Remote Alarm Unit (RAU)	NVR9003	IP22	1.6 kg	264.0 165.0 165.0 17 17 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4	Video Interface Unit (VIU)	NVR9004	IP22	2.5 kg	344.2 292.0 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5	Indoor Microphone Unit (IMU)	NVR9005	IP22	0.1 kg	49.4.5 HOLE Ø100 25.0
6	Outdoor Microphone Unit (OMU)	NVR9006	IP56	0.2 kg	2-Ø6 HOLE Ø100.0
7	Fixed Protective Capsule (FPC)	NFP-2000C	IP68	16.5 kg	323.5 253.5 263.5 242.0 238.0 196.0 310.0×4
8	Float-Free Capsule (FFC)	NEB-2000C-VDR	IP67	3.5 kg	415.0