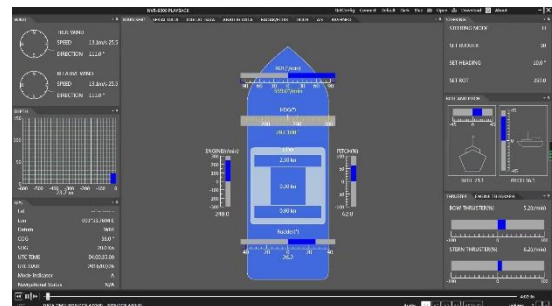
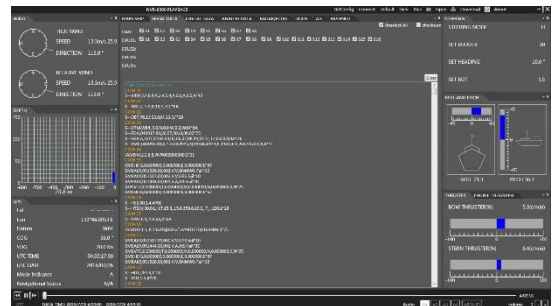
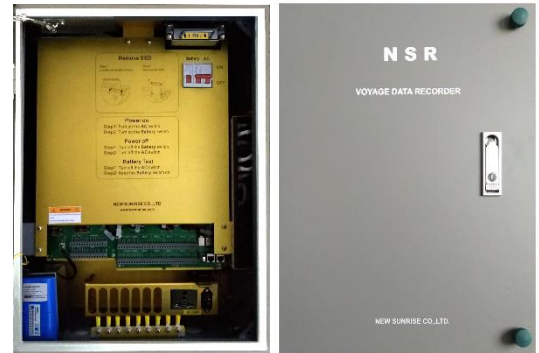
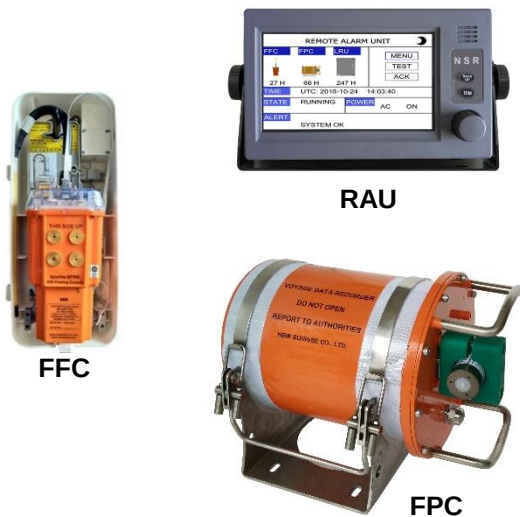


SVDR (Simplified Voyage Data Recorder)

NVR-9000S

- Only VDR/SVDR maker who produces both FFC and FPC by self
- 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

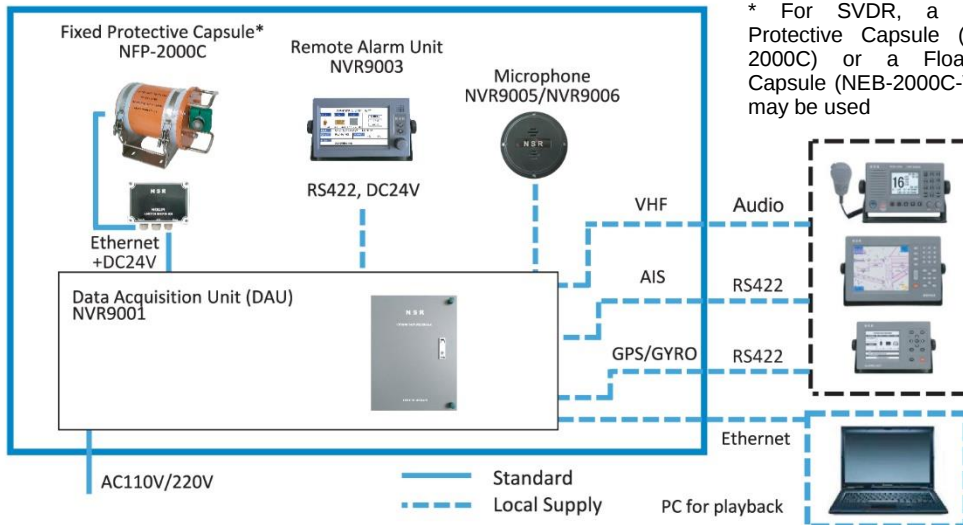


NVR-9000S SVDR is designed to comply with relative IMO and IEC rules.

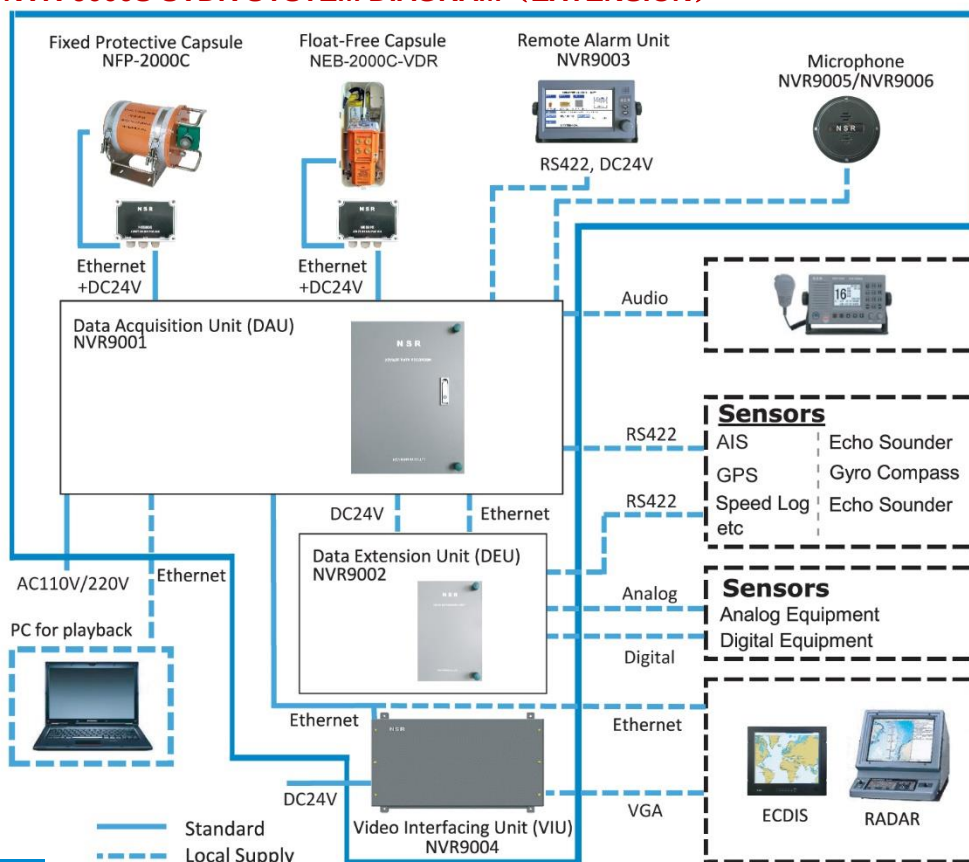
- Float-free Capsule (FFC) or Fixed Protective Capsule (FPC) can be selected as the storage medium.
- Both FFC and FPC has the capacity of 64G each.
- As option, Data Acquisition Unit (DAU) can be fitted with SSD (64G or more) on request.
- 8 ch of serial ports are available in DAU.



NVR-9000S SVDR SYSTEM DIAGRAM (STANDARD)



NVR-9000S SVDR SYSTEM DIAGRAM (EXTENSION)



SPECIFICATIONS

Data Acquisition Unit (DAU)	Interface	Ethernet IEC61162-450	4 ch
		Serial IEC 61162-1/2, RS422	8 ch
		VHF Audio	2 ch
		Microphone	8 ch
		Remote Alarm Unit	1 ch
		USB	1 ch
	DC 24V output	Remote Alarm Unit (RAU)	1 ch
		Fixed Protective Capsule (FPC)	1 ch
		Float-Free Capsule (FFC)	1 ch
Reserve Battery Capacity		min 2 hours	
Fixed Protective Capsule (FPC) *		Memory	64 GB
		Recording Duration	min 48 hours
		Beacon Battery Capacity	min 90 days
		Beacon Battery Life	3 years
Float-Free Capsule (FFC) *		Memory	64 GB
		Recording Duration	min 48 hours
		Battery Capacity	min 168 hours
		Battery Life	5 years
Data Extension Unit (DEU) (OPTION)	Interface	Analog Input	8 ch
		Digital Input	64 ch
		Serial IEC 61162-1/2, RS422	16 ch
		Ethernet	1 ch
Video Interface Unit (VIU) (OPTION)	Interface	VGA	1-2 ch
		Ethernet	1-2 ch
Remote Alarm Unit (RAU)		Serial IEC 61162-1/2, RS422	1 ch
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)	DC24V, 0.3A		

* FPC or FFC is selected.

EQUIPMENT LIST

Standard

1	Data Acquisition Unit (DAU)	NVR9001	1 unit	5	Indoor Microphone Unit (IMU)	NVR9005	4 units
2	Data Extension Unit (DEU)	NVR9002	0 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 unit	8	Float-Free Capsule (FFC) *	NEB-2000C-VDR	(FPC or FFC)

* NEB-2000C-VDR/NFP-2000C is supplied together with a Junction Box (NEB205) and cable (30m).

Option

1	Data Extension Unit (DEU)	NVR9002
2	Video Interface Unit (VIU)	NVR9004
3	Indoor Microphone Unit (IMU)	NVR9005
4	Outdoor Microphone Unit (OMU)	NVR9006

※ Specifications subject to change without notice

1	Data Acquisition Unit (DAU)	NVR9001	IP22	15.2 kg	Technical drawing of the Data Acquisition Unit (DAU). Front view dimensions: 510.0 (top), 480.0 (top), 450.0 (top), 600.0 (left), 560.0 (left), Ø12×4 (bottom). Side view dimension: 210.0 (top).
2	Data Extension Unit (DEU)	NVR9002	IP22	5.2 kg	Technical drawing of the Data Extension Unit (DEU). Front view dimensions: 330.0 (top), 300.0 (top), 270.0 (top), 420.0 (left), 390.0 (left), Ø12×4 (bottom). Side view dimension: 130.0 (top).
3	Remote Alarm Unit (RAU)	NVR9003	IP22	1.6 kg	Technical drawing of the Remote Alarm Unit (RAU). Front view dimensions: 264.0 (top), 145.0 (right). Side view dimensions: 264.0 (top), 165.0 (top), 38.0 (right), 35.0 (right), 4-Ø7 (bottom).
4	Video Interface Unit (VIU)	NVR9004	IP22	2.5 kg	Technical drawing of the Video Interface Unit (VIU). Front view dimensions: 344.2 (top), 292.0 (top), 213.0 (left), 197.0 (left), 185.4 (left). Side view dimension: 60 (top).
5	Indoor Microphone Unit (IMU)	NVR9005	IP22	0.1 kg	Technical drawing of the Indoor Microphone Unit (IMU). Top view dimension: 4 Ø 4.5 HOLE. Side view dimensions: Ø100 (top), 25.0 (top).
6	Outdoor Microphone Unit (OMU)	NVR9006	IP56	0.2 kg	Technical drawing of the Outdoor Microphone Unit (OMU). Top view dimensions: 2-Ø6 HOLE, 115 (bottom). Side view dimensions: Ø100.0 (top), 61 (left), 55 (right), 130 (bottom).
7	Fixed Protective Capsule (FPC)	NFP-2000C	IP68	16.5 kg	Technical drawing of the Fixed Protective Capsule (FPC). Front view dimensions: 323.5 (top), 253.5 (top), 242.0 (right). Side view dimensions: 170.0 (top), 112.0 (top), 238.0 (left), 186.0 (left), Ø10.0×4 (bottom).
8	Float-Free Capsule (FFC)	NEB-2000C -VDR	IP67	3.5 kg	Technical drawing of the Float-Free Capsule (FFC). Front view dimensions: 415.0 (top), 234.0 (top), Ø8.0 (top), 200.0 (right), 220.0 (right), 140.5 (bottom).