

JCY-1900/1950

VDR/S-VDR

CYC-825

**Playback Software
for Investigator**

**INSTRUCTION
MANUAL**



Japan Radio Co., Ltd.

< Introduction >

This software is intended to help analyze the data recordings that are stored in Fixed Protective Capsule, Float-free Capsule or Internal Storage of VDR/S-VDR installed onboard.

This software chronologically plays back all the data including the radar/ECDIS image, bridge and VHF communication audios recorded in VDR/S-VDR.

- Before using the software, read this manual thoroughly to ensure correct use.
- Keep the manual in a convenient location so that it can be used easily whenever necessary.
- Use this manual to check the operation of the software or at the occurrence of a fault.

Note	The install CD-ROM of the Playback software is kept on the back side of the VDR equipment door. After installing the software, please return the CD to the place.
------	--

Microsoft, MS-DOS, and Windows are the registered trademarks of Microsoft Corporation in the U.S.A and / or other countries.

Pentium is the trademark of Intel Corporation.

The names of actual companies and products mentioned herein are the trademarks of their respective owners.

Attention

- (1) The copyright of this software and a manual is in Japan Radio Co., Ltd.
- (2) The range as which the Copyright Act determines a part or all of the contents of this software and a manual cannot be exceeded, and it cannot reproduce without notice.
- (3) Although we created to make doubly sure about the contents of this book, if there is a thing of companion mind, such as a doubtful point, and an error, omission in written, please contact us.
- (4) Please understand beforehand that it is not concerned with (3) clauses and any responsibility cannot be taken about the claim of the loss for reasons of the employed result, loss profits, etc. in our company.

< Before Using >

Icons

This manual and product employ various icons to enable users to use the product safely and correctly, and to prevent any harm to users or others, and to prevent damage to the property.

The icons and the meanings are indicated below.



WARNING

Incorrect use of the equipment by ignoring this icon may cause death or a serious injury.



CAUTION

Incorrect use of the equipment by ignoring this icon may cause an injury or physical damage.

< Notes on Using >



CAUTION



Be careful of a computer virus.

If a computer is infected with a virus, it may suffer the damage of an unusual display, a program, and data being destroyed, and may become the cause of failure.

Please confirm whether it is infected with the computer virus, using a virus checker program periodically.

Blank Page

< Contents >

< Introduction >	i
< Before Using >	ii
< Notes on Using >	iii
Chapter1 Outline	1
1.1 Operation flow	1
Chapter2 Installing Playback Software	3
2.1 PC specification	3
2.2 How to install	4
2.3 How to uninstall	20
Chapter3 Connecting PC to VDR/S-VDR	23
Chapter4 Downloading Recorded Data from VDR/S-VDR	25
4.1 Downloading Recorded Data from VDR/S-VDR by Download Software	25
4.2 Copying Recorded Data to USB Memory from VDR/S-VDR	29
4.3 Folder Composition	35
Chapter5 Setup for Playback Software	37
5.1 Setup Procedure	37
Chapter6 Playback Operation	41
6.1 How to start up the Playback software	41
6.2 How to exit the Playback software	42
6.3 Playback screen	43
6.4 Playback Operation Panel	45
6.5 To start playback, and to stop	46
6.6 To set playback time	46
6.6.1 Setting playback time by Slide bar	46

Contents

6.6.2 Setting playback time by [Forward] button or [Rewind] button	47
6.6.3 Setting playback time by [Clock] button	47
6.7 To change a playback speed	48
6.8 To adjust Volume and select audio source	49
6.9 Voyage screen.....	50
6.9.1 Graphic screen	51
6.9.2 Numeric screen.....	57
6.10 Alarm/Status screen.....	58
6.11 Radar/ECDIS screen	59
6.11.1 Icon	60
6.11.2 Menu bar	61
6.12 AIS Screen.....	62
6.12.1 Graphic screen	63
6.12.2 List screen	65
6.12.3 Detail Information of own ship	66
6.12.4 Detail information of AIS target.....	67
6.13 To confirm the record sentences in the NMEA format.....	68
6.14 To print screen	69
6.15 To confirm the VDR system information	70
6.16 How to customize screen layout.....	72
6.17 How to restore to initial screen layout.....	76
 Chapter7 Converting Recorded Data into Industry Standard Formats	77
7.1 Starting Conversion software.....	77
7.2 Convert all recorded data	78
7.3 Convert parts of recorded data	80
7.4 Converted file (Industry Standard Formats files)	82
 Chapter8 Trouble Shooting	83
 Chapter9 Appendix	85
9.1 How to preserving recorded data	85
9.2.Stopping the data recording.....	87

Playback Software / Instruction Manual

9.3 Sentence and indication place.....	88
--	----

Contents

Blank Page

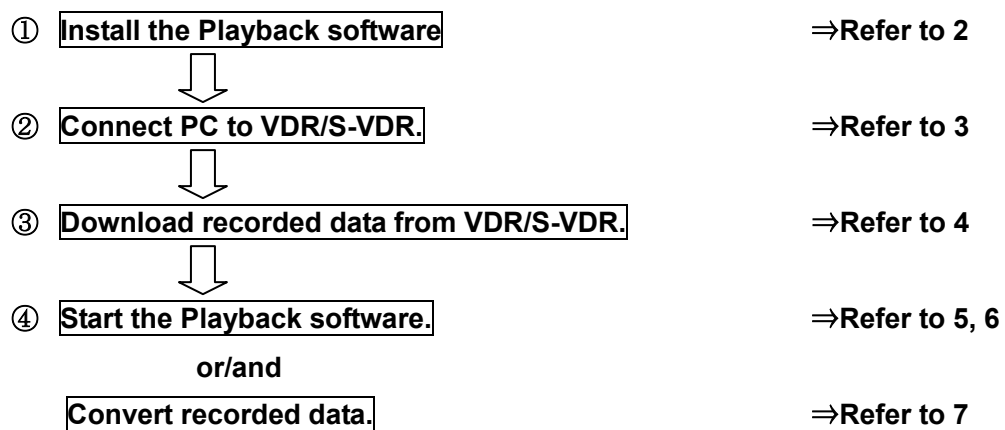
Chapter1 Outline

This software intends to be used for playing back recorded data required the International Standard in a Fixed Protective Capsule, a Float-free Capsule or a Internal Storage of VDR/S-VDR equipment.

Record data

- Configuration data of VDR/S-VDR
- Sensor data
- Bridge audio and VHF communication
- Radar image
- ECDIS image

1.1 Operation flow



Blank Page

Chapter2 Installing Playback Software

2.1 PC specification

Confirm the following system requirement on your PC.

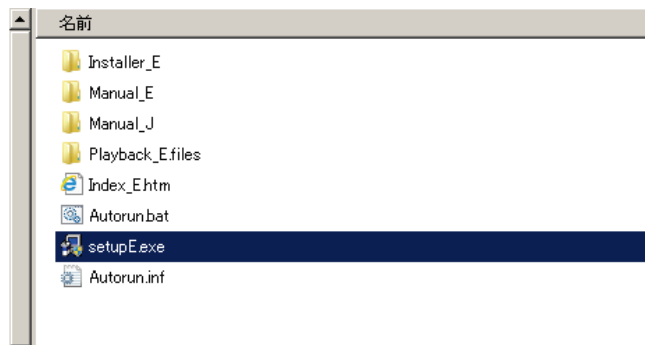
OS	:	Windows Vista (SP1)	
		Windows 7	
		Windows 8	
CPU	:	Core2 Duo 2GHz or Higher	
RAM	:	Windows Vista / Windows 7	Minimum 1GB
		Windows 8	Minimum 2GB
HDD	:	Minimum 40GB	
		To play back record data, HDD of 16GB/day size is required.	
Display Resolution	:	1024×768 dots (Recommend XGA)	
CD drive	:	CD-ROM	

Chapter2 Installing Playback Software

2.2 How to install

Install the Playback Software in a PC in accordance with the following operation.

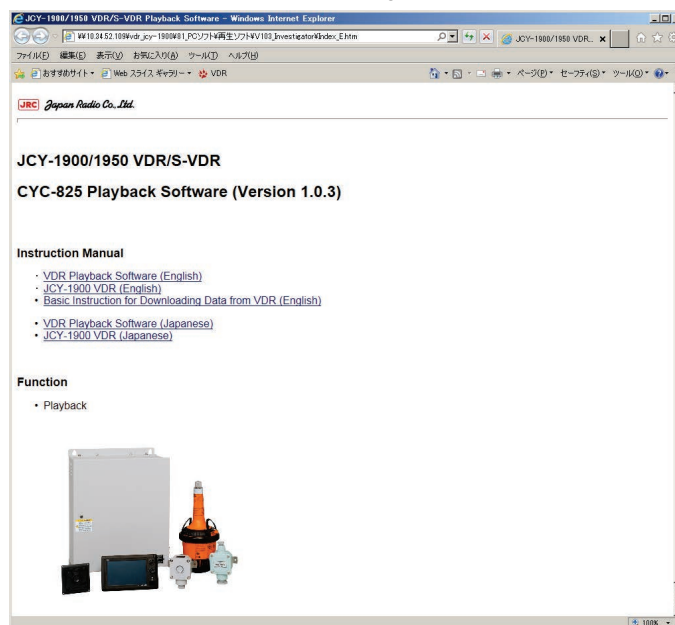
- (1) Insert the Install CD-ROM in a CD drive.
- (2) Select the CD-ROM drive by the Computer or Explorer, click the “SetupE.exe”

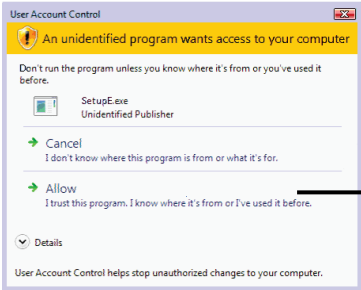
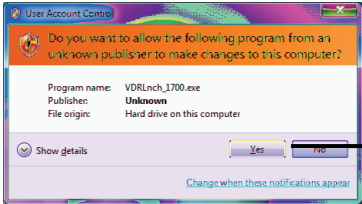


Note

When the Index_E.htm in CD-ROM is clicked, the following contents are possible to refer in the web screen.

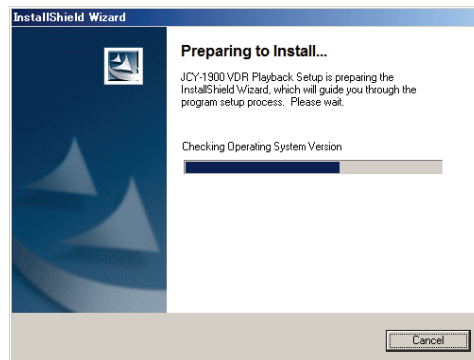
- Playback software instruction manual
- JCY-1900 VDR instruction manual
- Basic Instruction for Downloading Data from VDR



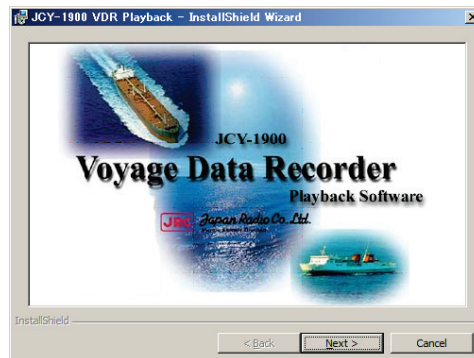
Note	The Instruction of how to install on Windows Vista, Windows 7 and Windows 8 • In order to install Playback Software, always login PC as administrator, and execute the installation. • Run SetupE.exe in the folder by left-clicking it, then the following confirmation screen for execution displays. For Windows Vista Select "Allow" by left-clicking it, then the installer starts up.  A screenshot of the Windows Vista User Account Control dialog box. The title bar says 'User Account Control'. The main text reads: 'An unidentified program wants access to your computer. Don't run the program unless you know where it's from or you've used it before.' Below this, it shows a file icon, 'SetupE.exe', and 'Unidentified Publisher'. There are two buttons: 'Cancel' (with a green arrow) and 'Allow' (with a green arrow). A line points from the word 'Allow' to the 'Allow' button. At the bottom, there is a 'Details' link and a note: 'User Account Control helps stop unauthorized changes to your computer.' For Windows 7 and 8 Press [Yes] button, then the installer starts up.  A screenshot of the Windows 7/8 User Account Control dialog box. The title bar says 'User Account Control'. The main text reads: 'Do you want to allow the following program from an unknown publisher to make changes to this computer?'. Below this, it shows: 'Program name: VDRInch_1700.exe', 'Publisher: Unknown', and 'File origin: Hard drive on this computer'. There are two buttons: 'Yes' and 'No'. A line points from the text '[Yes] button' to the 'Yes' button. At the bottom, there is a 'Show details' link and a note: 'Change when these notifications appear.'
------	---

Chapter2 Installing Playback Software

- (3) The preparation for the installation are started.



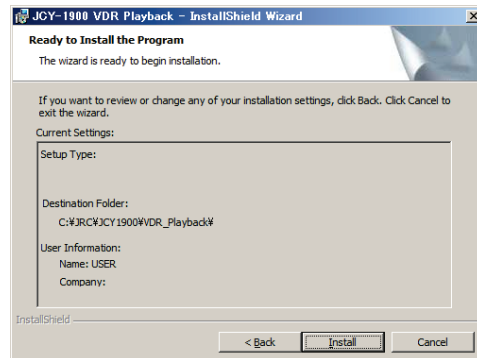
- (4) The opening screen is indicated, and click [Next] button.



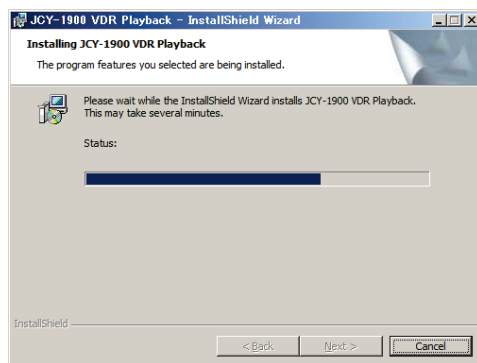
- (5) The Install Shield Wizard for the Playback software starts, and click [Next] button.



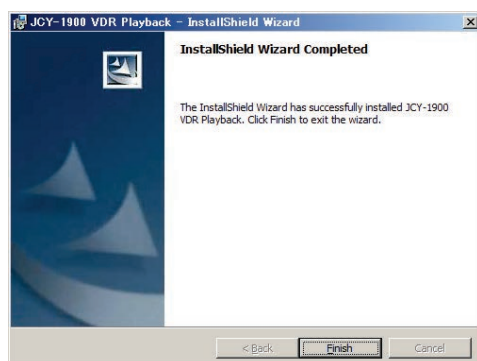
- (6) The confirmation screen where the installation folder and user information are shown is indicated, and click [Install] button.



- (7) Install is started, and progress bar is indicated.



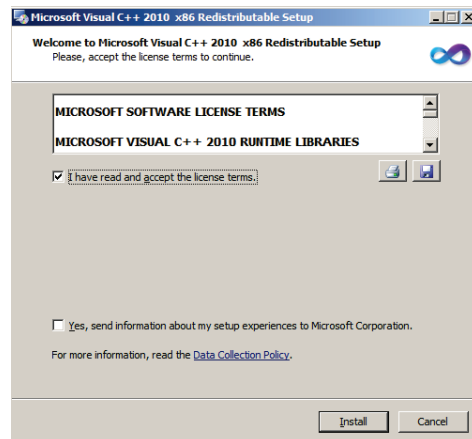
- (8) The Install Shield Wizard completion screen is indicated, and click [Finish] button.



Chapter2 Installing Playback Software

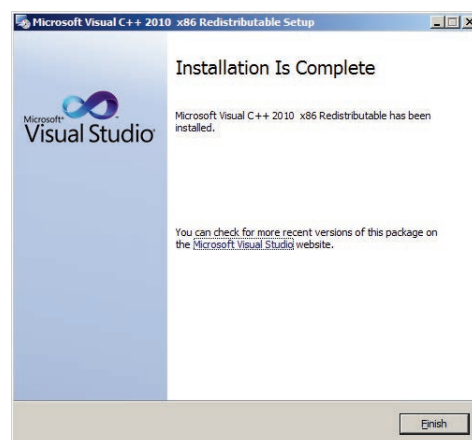
(9) Visual C++ install screen is displayed.

Input ✓ mark in checkbox of “I have read and accept the license terms”, and click [Install] button.



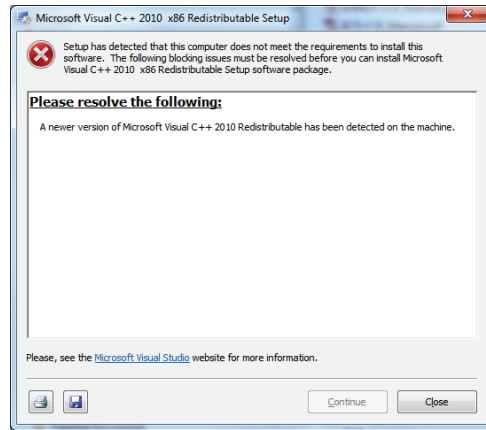
(10) Complete screen of VC++ Install is displayed.

Click [Finish] button.

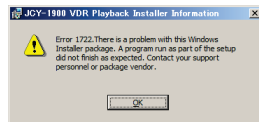


Note

When displaying the following screen, Visual C++ Runtime Library has already been installed, it is not error. Click [Close] button, and close the screen.



After that, though the following screen is displayed, click [OK] button, and close the screen.



Even if the above screens are displayed, install is complete correctly.

- (11) Please eject the Install CD-ROM from the CD drive, and keep the Installation CD-ROM carefully.

Note

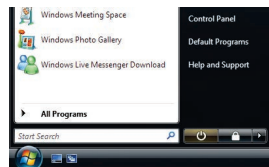
The install CD-ROM of the Playback software is kept on the back side of the VDR equipment door.
After installing the software, please return the CD to the place.

- (12) Since Playback software partially uses network communication, disable the firewall function on your PC in accordance with the following procedure.

Chapter2 Installing Playback Software

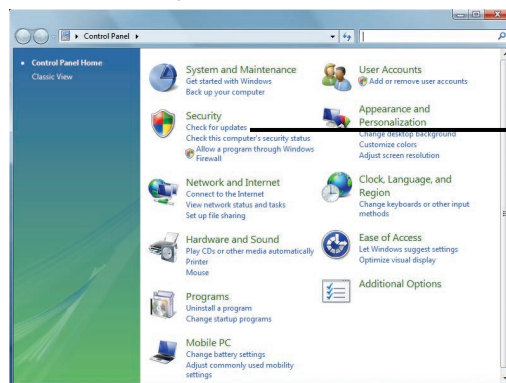
●For Windows Vista

- Click [Start] button and then click “Control Panel”.



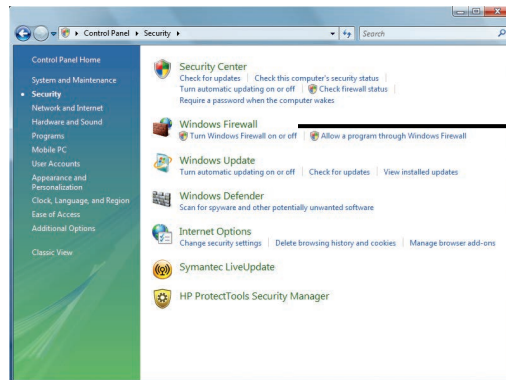
Control Panel

- Click “Security”.



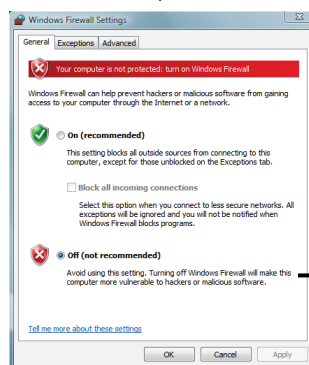
Security

- Click “Turn Windows Firewall on or off”.



Turn Windows Firewall on or off

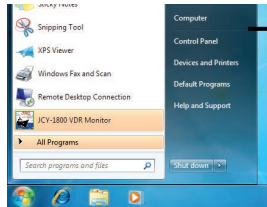
- Select “Off (not recommended)”, and click [OK] button.



Off (not recommended)

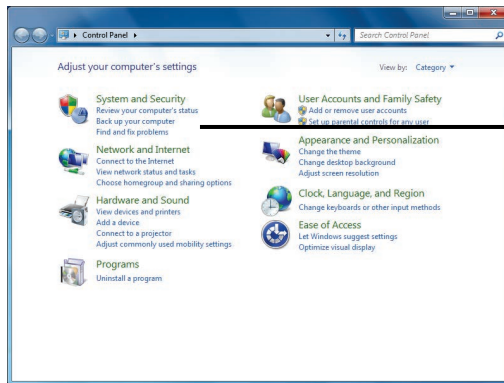
● For Windows 7 and 8

- Click [Start] button and then click “Control Panel”.



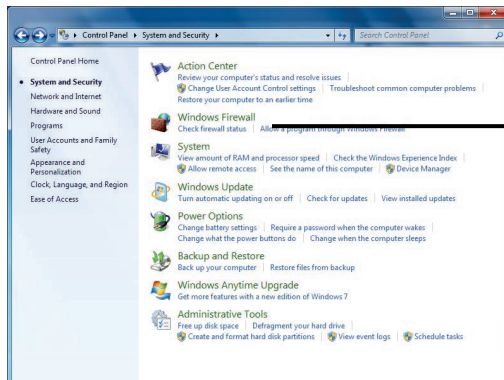
Control Panel

- Click “System and Security”.



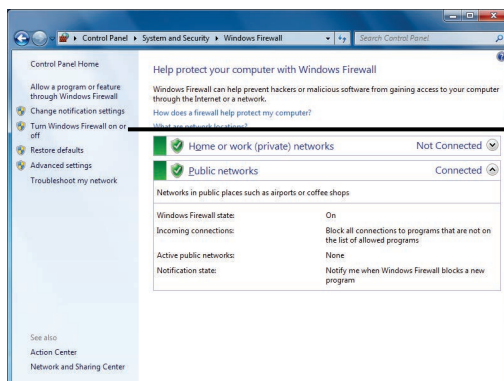
System and Security

- Click “Windows Firewall”.



Windows Firewall

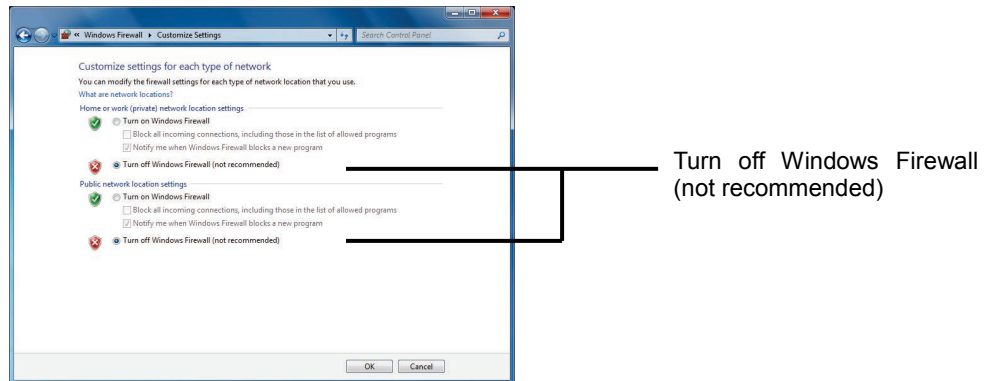
- Click “Turn Windows Firewall on or off”.



Turn Windows Firewall on or off

Chapter2 Installing Playback Software

- Select “Turn off Windows Firewall (not recommended)”, and click [OK] button.

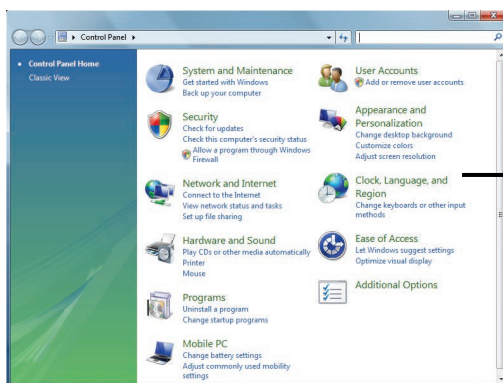


(13) If the operating system (OS) on your PC is not Japanese or English version, Playback software might not display correctly.

Please set language to "English (United States)" or "English (United Kingdom)" as follows.

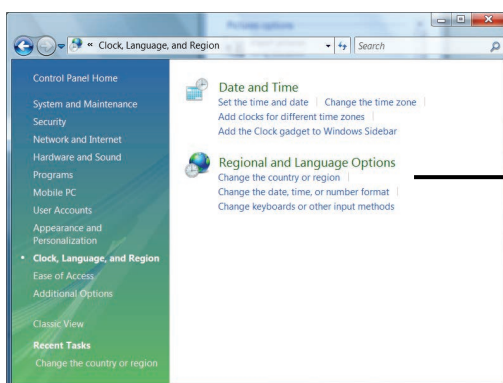
● For Windows Vista

- Click "Clock, Language, and Region" on Control Panel screen.



Clock, Language, and Region

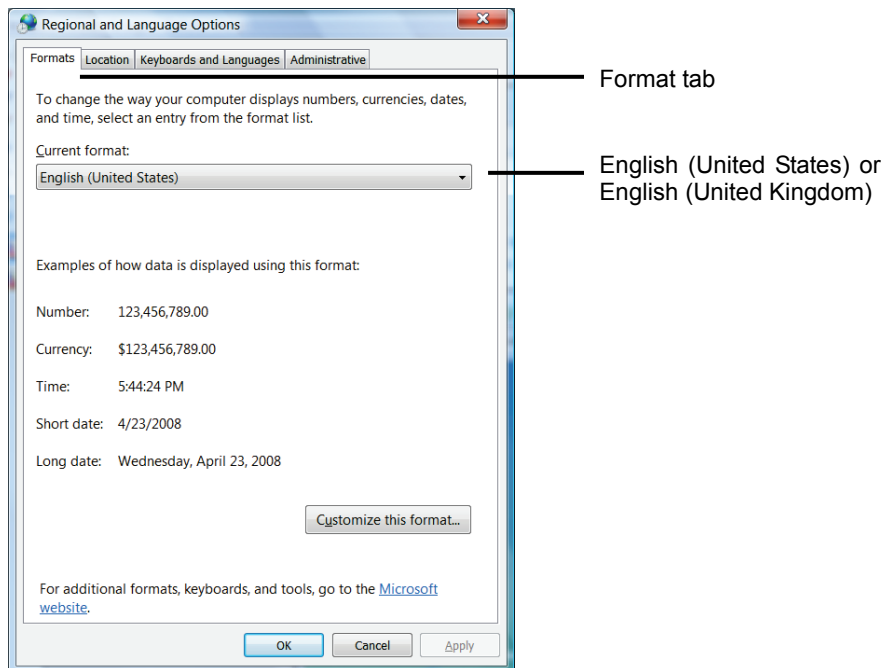
- Click the "Regional and Language Options".



Regional and Language Options

Chapter2 Installing Playback Software

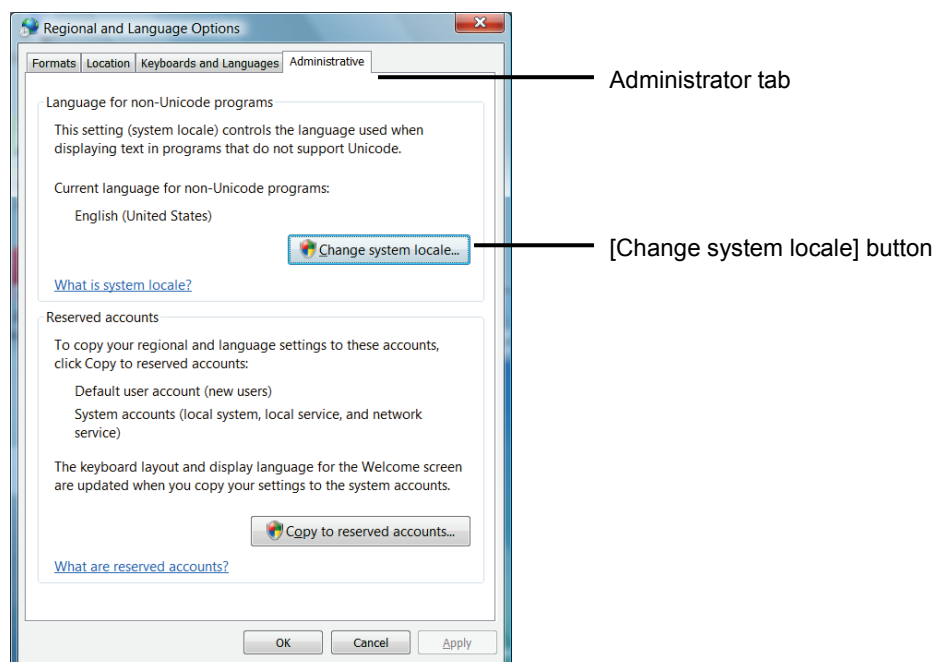
- Select “Format” tab and select “English (United States)” or “English (United Kingdom)”.



- Select “Administrator” tab.

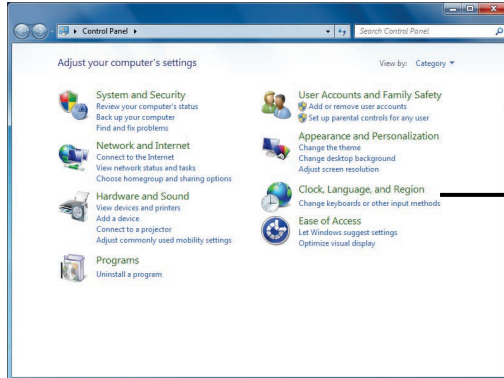
Click [Change system locale] button, and select “English (United States)” or “English (United Kingdom)”, and then click [OK] button.

You will be asked to restart Windows, and then restart it.



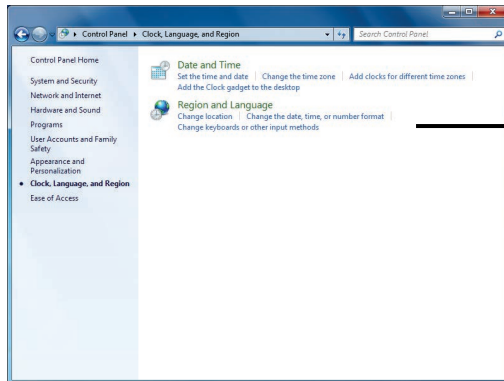
●For Windows 7 and 8

- Click “Clock, Language, and Region” on Control Panel screen.



Clock, Language, and Region

- Click “Regional and Language Options”.

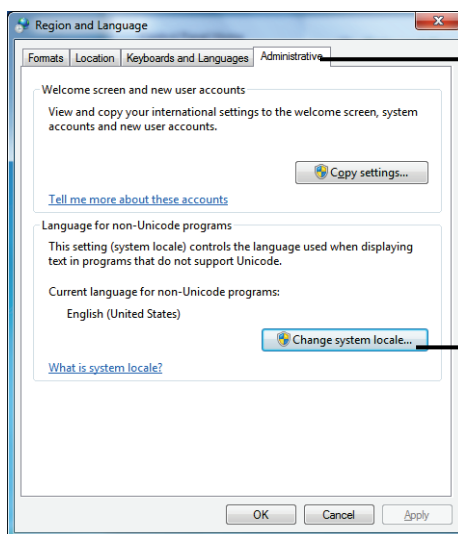


Regional and Language

- Select “Administrative” tab.

Click [Change system locale] button, and select “English (United States)” or “English (United Kingdom)”, and then click [OK] button.

You will be asked to restart Windows, and then restart it.



Administrative

[Change system locale] button

Chapter2 Installing Playback Software

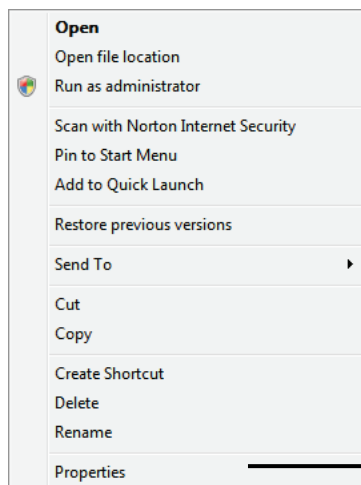
(14) For Windows Vista, Windows 7 or Windows8, since Playback software has to start by the administrator user continually, set as follows.

● For Windows Vista

- Right-click the “JCY-1900 VDR Playback” icon on desktop.

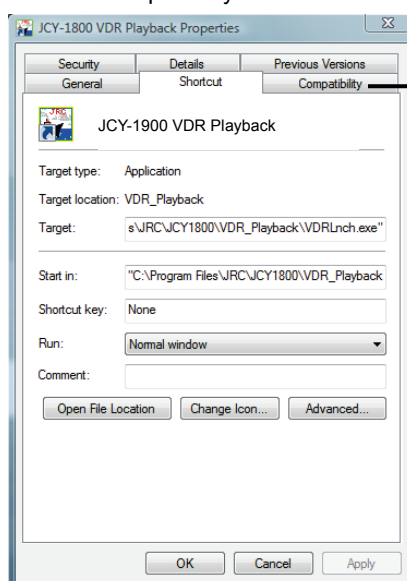


- Select “Properties”.



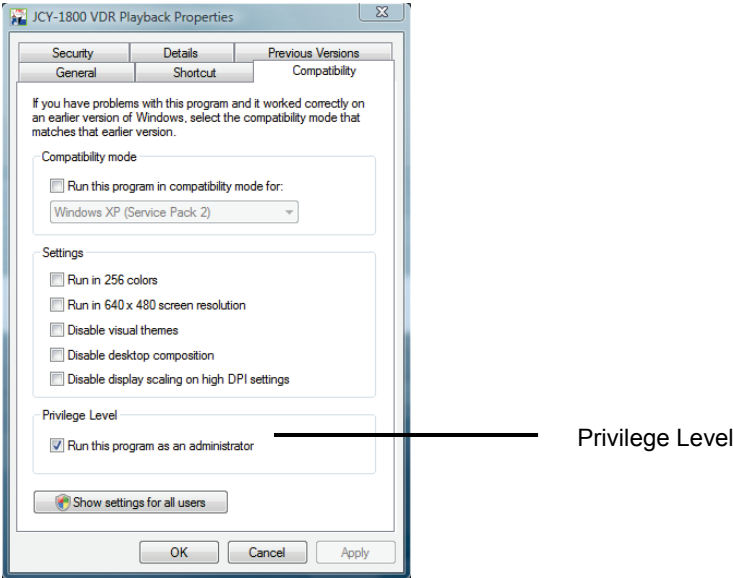
Properties

- Select the “Compatibility” tab.



Compatibility tab

- Input “✓” mark in “Run this program as an administrator” under “Privilege Level”, and click [OK] button.



The setup for Windows Vista PC is completed above.

Note	After installation also, always login as administrator user and use Playback software. In addition, since the confirmation screen is displayed at starting Playback software, please select "Allow" and start the software. The screenshot shows a User Account Control dialog box. It has a yellow warning bar at the top. The main text says 'An unidentified program wants access to your computer.' Below that, it says 'Don't run the program unless you know where it's from or you've used it before.' The program is identified as 'VDRLnch.exe' from an 'Unidentified Publisher'. There are two buttons: 'Cancel' and 'Allow'. The 'Allow' button is highlighted with a line pointing to the text 'Allow'.
-------------	--

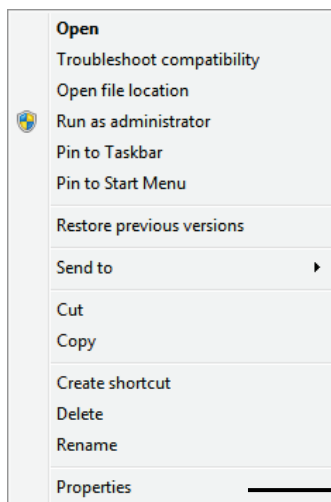
Chapter2 Installing Playback Software

- For Windows 7 and 8

- Right-click the “JCY-1900 VDR Playback” icon on desktop.

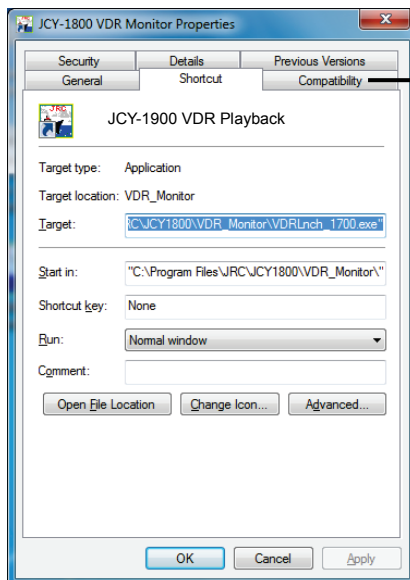


- Select “Properties”.



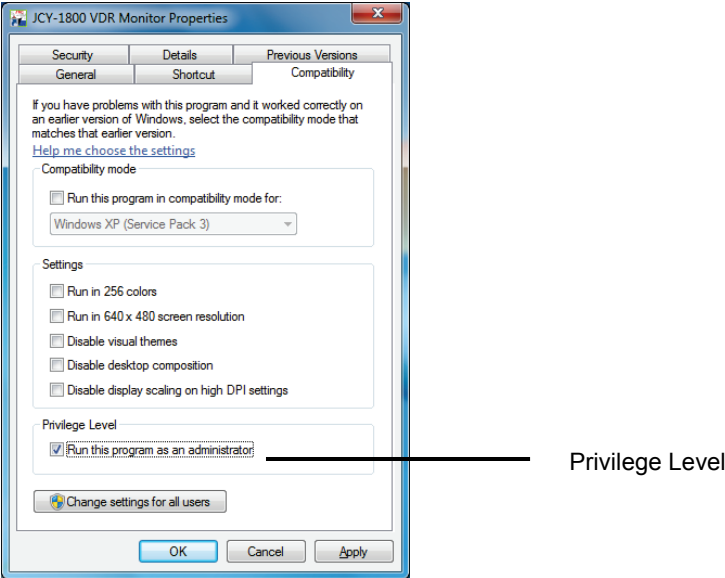
Properties

- Select “Compatibility” tab.



Compatibility tab

- Input “✓” mark in “Run this program as an administrator” under “Privilege Level”, and click [OK] button.



The setup for Windows 7 or 8 PC is completed above.

Note	After installation also, always login as administrator user and use Playback software. In addition, since the confirmation screen is displayed at starting Playback software, click [Yes] and start the software. The screenshot shows the 'User Account Control' dialog box. It asks 'Do you want to allow the following program from an unknown publisher to make changes to this computer?'. The program name is 'VDRLnch_1700.exe', publisher is 'Unknown', and file origin is 'Hard drive on this computer'. The 'Yes' button is highlighted with a line pointing to it from the text 'Yes'.
-------------	--

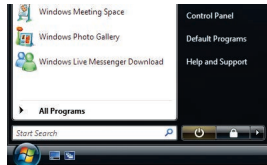
Chapter2 Installing Playback Software

2.3 How to uninstall

Uninstall the Playback software in your PC in accordance with the below operation.

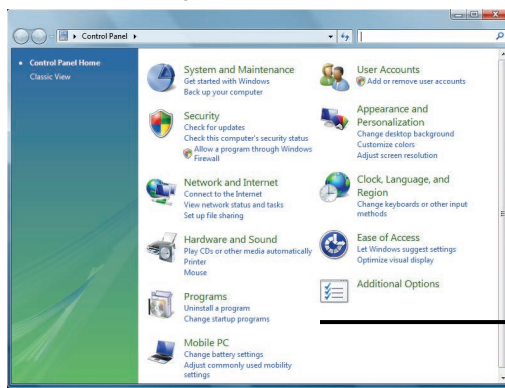
●For Windows Vista

- Click [Start] button and click “Control Panel” in Start menu.



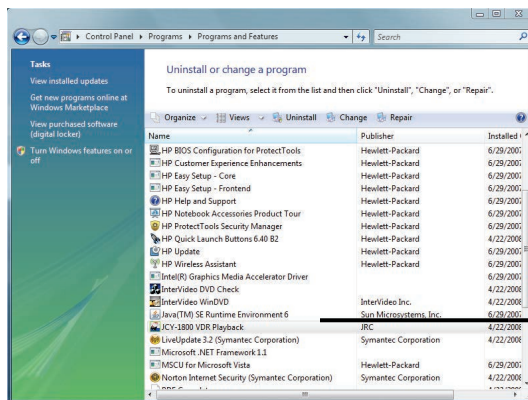
Control Panel

- Click “Uninstall a program”.



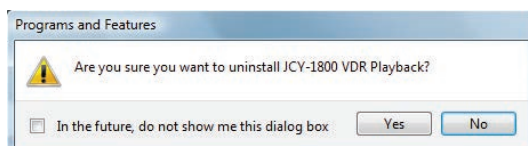
Uninstall a program

- Click “JCY-1900 VDR Playback”.



JCY-1900 VDR Playback

- Click [Yes] button.



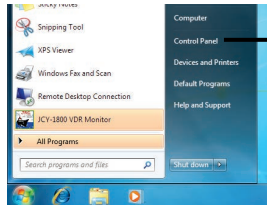
- Since some files remain in the installation folder after completing the uninstallation, open My Computer and delete the folder.

Installation folder: C:\Program Files\JRC\JCY1900\VDR_Playback

Playback Software / Instruction Manual

● For Windows 7 and 8

- Click [Start] button and click “Control Panel” in Start menu.



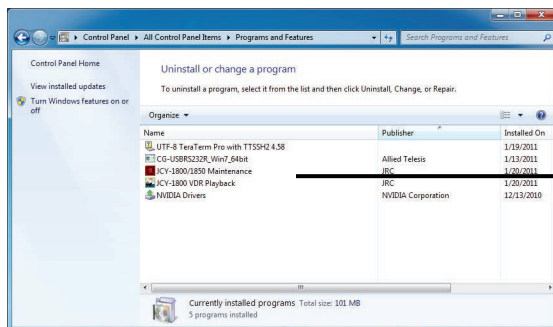
Control Panel

- Click “Programs”.



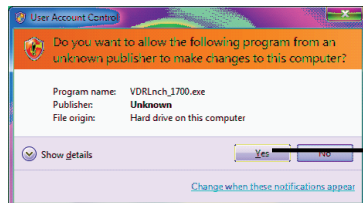
Programs

- Click “JCY-1900 VDR Playback”.



JCY-1900 VDR Playback

- Click [Yes] button.



[Yes] button

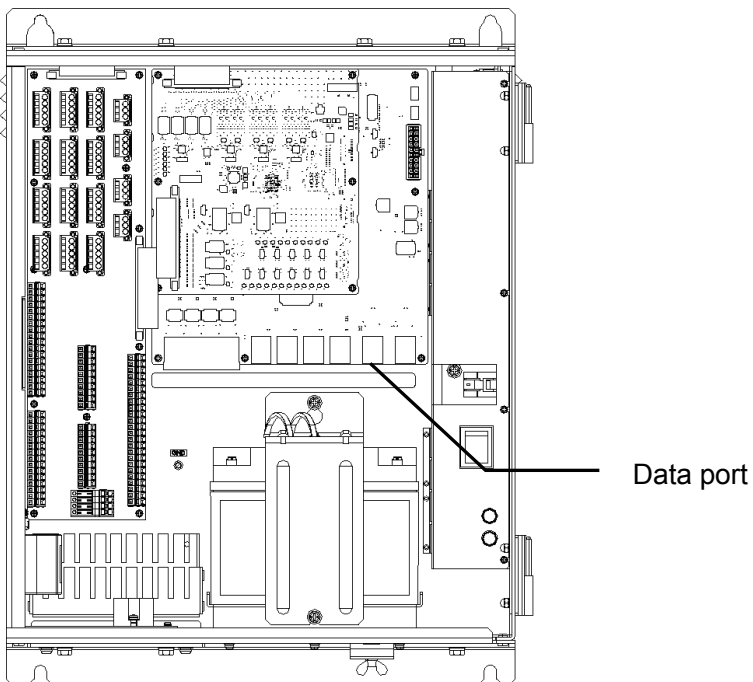
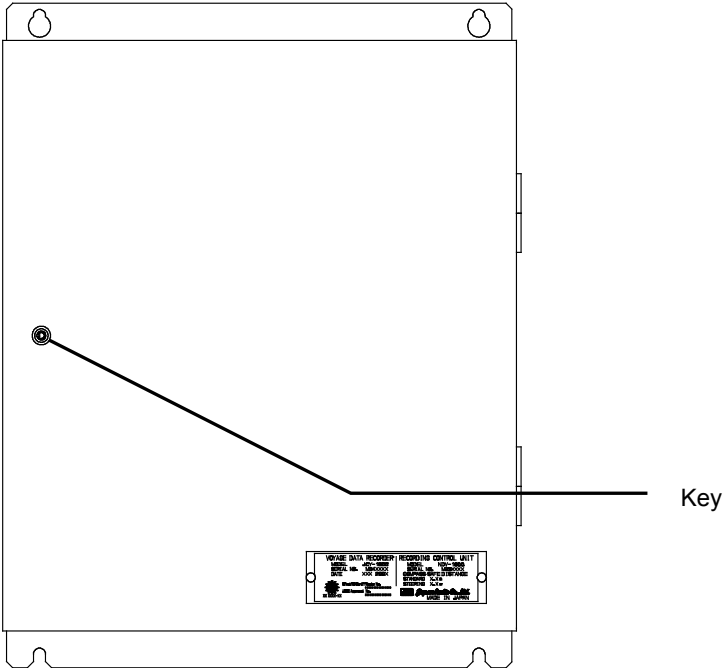
- Since some files remain in the installation folder after completing the uninstallation, open My Computer and delete the folder.

Installation folder:

32bit PC C:\Program Files\JRC\JCY1900\VDR_Playback

64bit PC C:\Program Files(x86)\JRC\JCY1900\VDR_Playback

Blank Page



Blank Page

Chapter4 Downloading Recorded Data from VDR/S-VDR

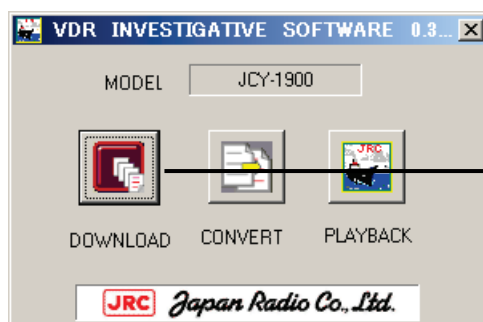
4.1 Downloading Recorded Data from VDR/S-VDR by Download Software

- (1) Click the JCY-1900 VDR Playback icon on the desktop.

The icon is created automatically after installation.

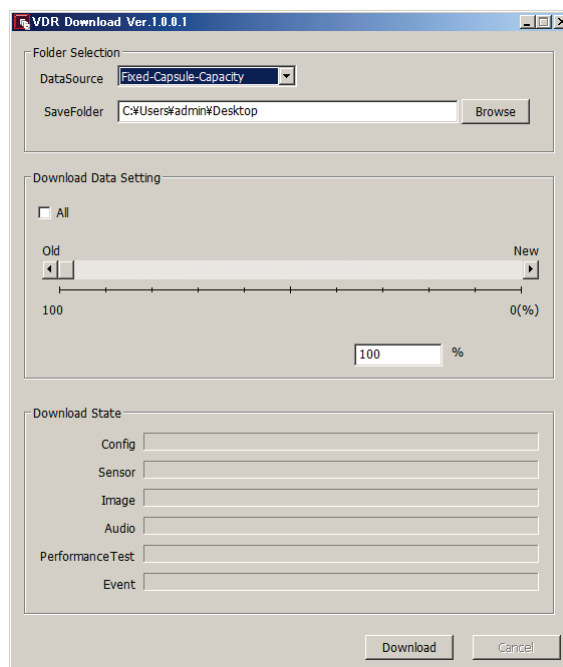


- (2) Click [DOWNLOAD] button from "VDR INVESTIGATIVE SOFTWARE" launcher menu, and start the download software.



[DOWNLOAD] button

- (3) Download software screen indicates.



Chapter4 Downloading Recorded Data from VDR/S-VDR

(4) Select a storage media (Data Source) for downloading the recorded data.

- Internal Storage ← Protected data by user operation at accident
- Float-free Capsule ← Recorded data in the Float-free Capsule
- Fixed Protective Capsule ← Recorded data in the Fixed Protective Capsule
- All Medium ← All of the above media
- Fixed Capsule Capacity ← Recorded data in the Fixed Protective Capsule
(In case of selection with capacity)

Captain stops the recording to the “Internal Storage” after accident.

Therefore, the record data preserved at accident can be downloaded from the “Internal Storage”.

It takes time about 2 hours for downloading 12hours recorded data from “Internal Storage”, “Float-free Capsule” or “Fixed Protective Capsule”.

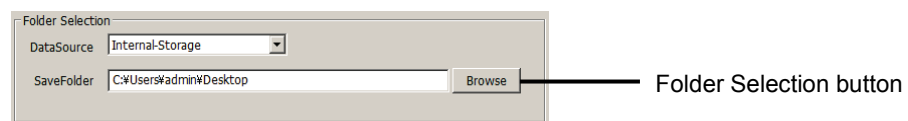
Note	• When downloading from capsule, download time can be decreased by stopping record. Refer to “9.1 How to stop recording” about method of stopping record. • In case of S-VDR, Equipping 2 capsules of Float-free Capsule and Fixed Protective Capsule is not required. Unconnected capsule cannot be selected from Data Source.
------	---

(5) Specify the location to save by clicking “Folder Selection” Button.

When the download starts, the data source folder is created automatically.

Downloaded data is saved in the selected data source.

Refer to “4.2 Folder Composition” for more detail.



- (6) Set download value with the slide bar.

Setup method differs by selection of "Data Source".

- In case of "Internal Storage", "Float-free Capsule" or "Fixed Protective Capsule"

Download data period can be specified in date/time.

In downloading all recorded data, enter a check mark into a check box of "All".

Moreover, in case of "Internal Storage", go to (7).

- In case of "All Medium"

Download data size is fixed automatically in latest 12 hours.

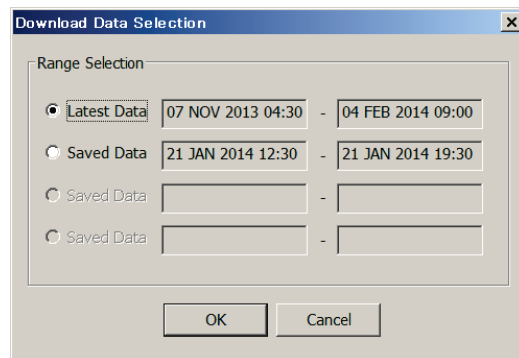
- In case of "Fixed Capsule Capacity"

Download data size can be specified in capacity.

Note) Except "Internal Storage", skip (7).

Chapter4 Downloading Recorded Data from VDR/S-VDR

- (7) In case of the “Internal Storage”, select data in the Download Data Selection screen.



Note	Internal Storage can save accident recording data before and after outbreak of 3 hours to three times separately from normal recorded data. Latest Data: Normal recording data Saved Date: 3-hour preservation data before and after accident Reference) 9.2 How to preserve recording data
------	---

- (8) Click [Download] button.

The Setup Folder screen opens, and please input certain folder name in save folder if necessary.

As default, date folder name (YYYYMMDDhhmmss: Year/Month/Day/Hour/Minute/Second) is indicated.

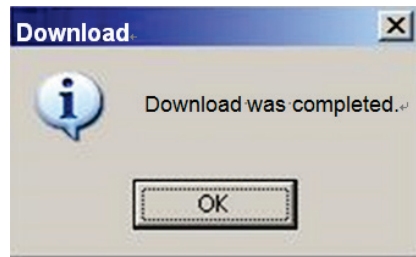
Click [OK] button, and download starts.



(9) When download starts, download progresses of recorded data are shown by progress bar.

(10) If the following screen is indicated, download is completed.

Click [OK] button, and close the download software.

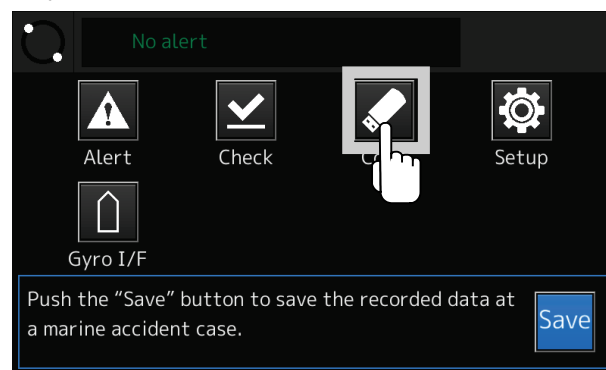


4.2 Copying Recorded Data to USB Memory from VDR/S-VDR

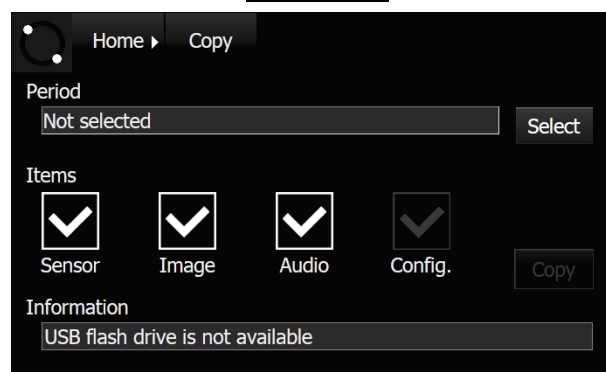
The preserved data by the protected operation and the recorded data in the Internal Storage can copy to the USB memory for up to 6 hours.

Note	The recorded data can't copy to the secure USB memory and the USB card reader.
------	--

(1) Tap the [Copy] button in the Home screen.



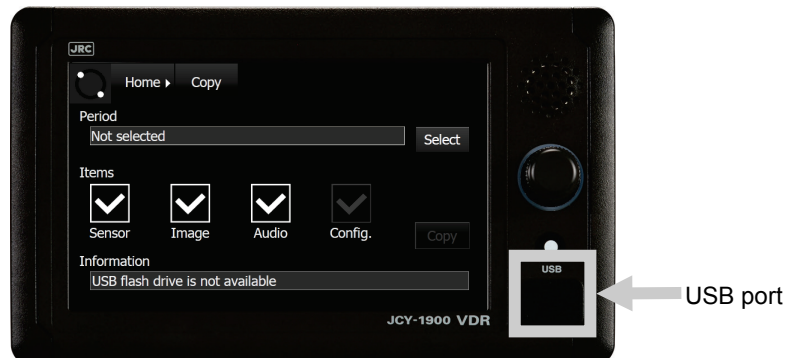
Home screen



Data Copy screen

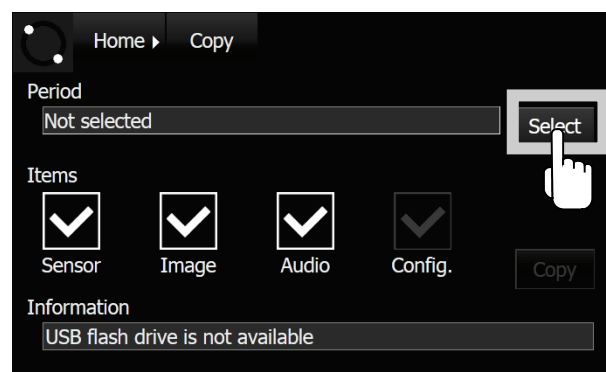
Chapter4 Downloading Recorded Data from VDR/S-VDR

- (2) Remove the OPU's USB port cover, and insert a USB memory into the USB port.

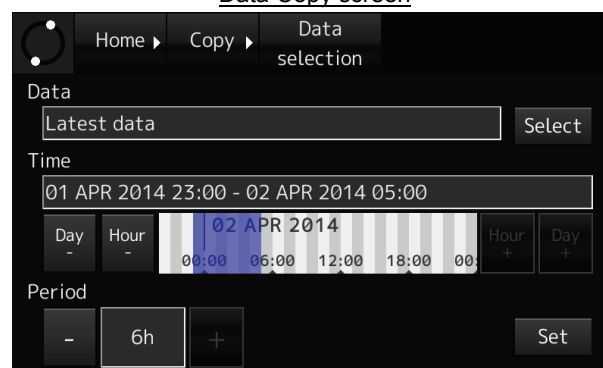


Note	Use the USB memory which formatted in the FAT32. The storage capacities can use up to 32GB.
------	---

- (3) Tap the [Select] button in the Data Copy screen.



Data Copy screen



Data Select screen

- (4) Tap the [Select] button in the Data Select screen and select from the drop-down list the recorded data that would like to copy.



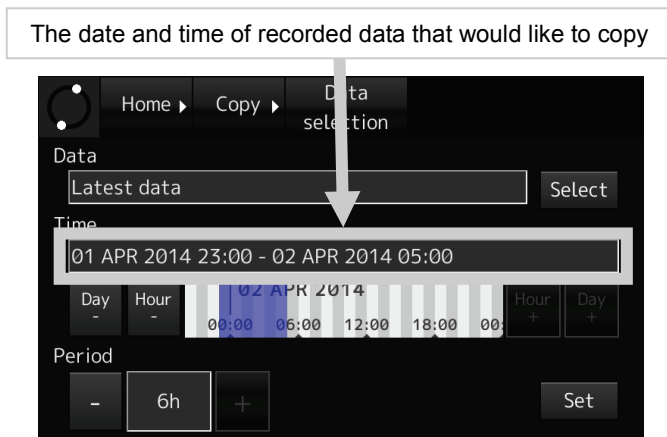
Selecting the Recorded Data

Selectable Recorded Data

Data Name	Description
Latest data	The latest recorded data for 6 hours that is recorded in the internal storage.
Save 1	The preserved data by the PROTECT operation.
Save 2	The data is preserved up to 3 times
Save 3	

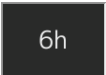
Chapter4 Downloading Recorded Data from VDR/S-VDR

- (5) If [Latest data] is selected, change the date and time of recorded data that would like to copy by the button shown the following figure.

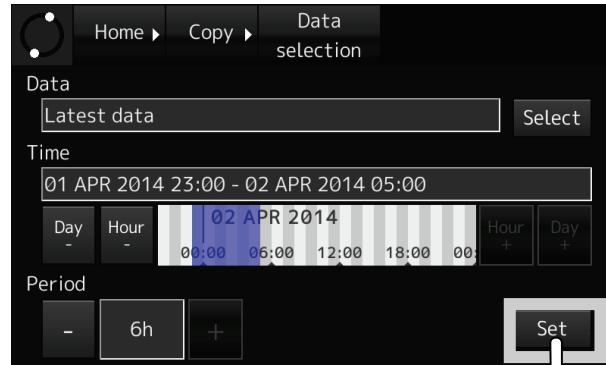


Setting the date and time of recorded data

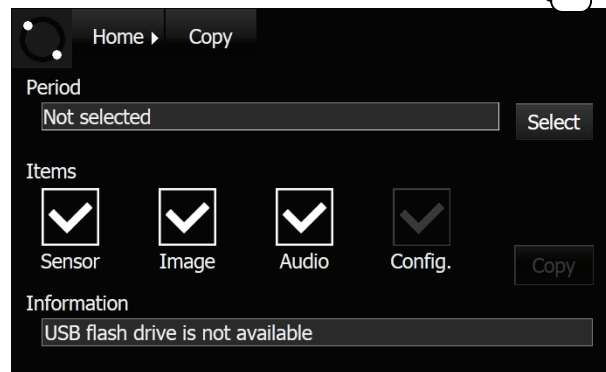
The button in the Data Select screen

Button	Function
	Changes the date of recorded data that would like to copy [The center of cursor] minus [one day]
	Changes the date of recorded data that would like to copy [The center of cursor] plus [one day]
	Changes the hour of recorded data that would like to copy [The center of cursor] minus [one hour]
	Changes the hour of recorded data that would like to copy [The center of cursor] plus [one hour]
	Changes the period of copy [The period of copy] minus [one hour]
	Displays the period of copy The settled period of copy is 1 to 6 hours by 1 hour unit.
	Changes the period of copy [The period of copy] plus [one hour]

- (6) Tap the [Set] button in the Data Select screen. Return to the Data Copy screen and displays the date and time that would like to copy in the [Period] field.

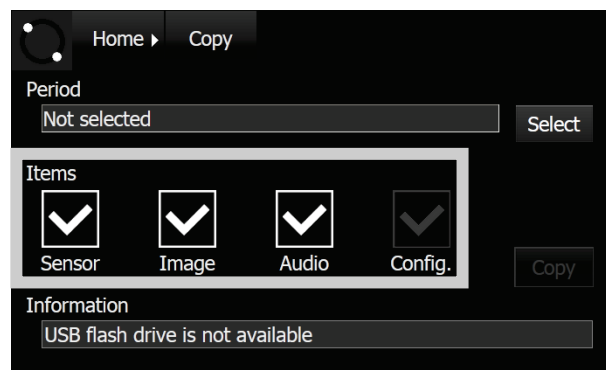


Data Select screen



Data Copy screen

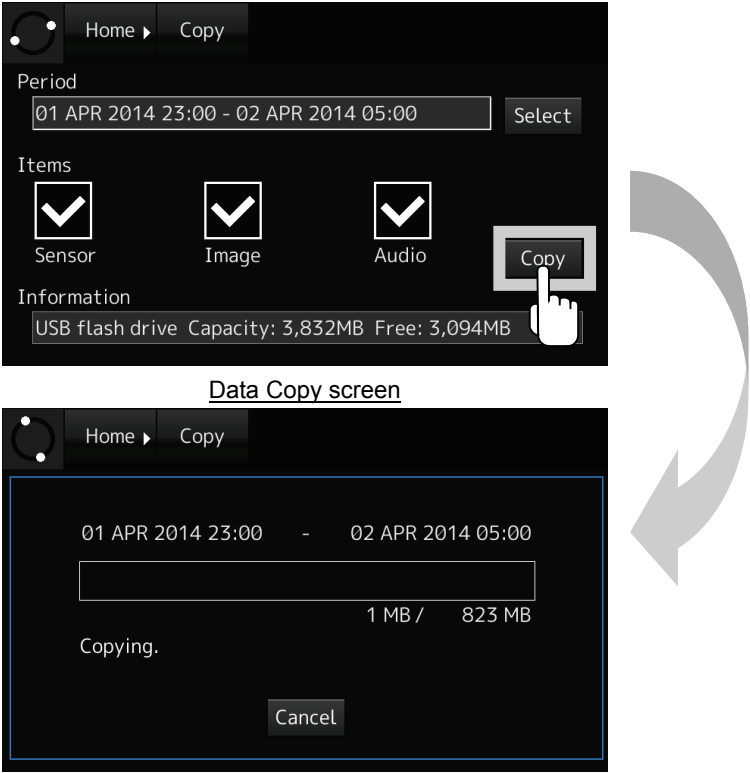
- (7) Select the item that would like to copy in the Data Copy screen.
- The selectable item is [Sensor], [Image] and [Audio]. Default to copying all items. The item not to copy taps the check box, remove the check mark.



Selecting the item that would like to copy

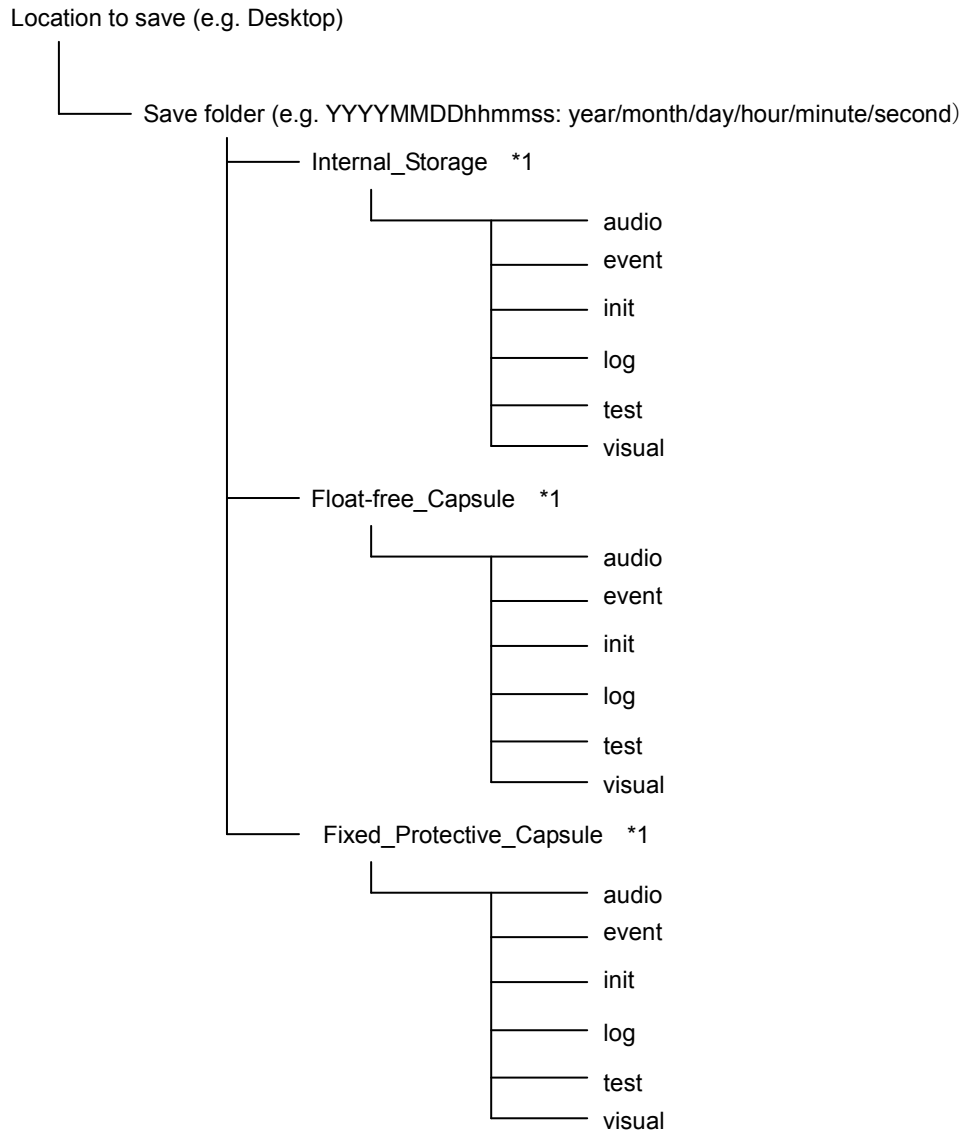
Chapter4 Downloading Recorded Data from VDR/S-VDR

- (8) Tap the [Copy] button in the Data Copy screen, then starts copying.
- If the data starts to be copied, the progress bar is displayed. During copying the[Copy] button turns into the [Cancel] button. Tapping the [Cancel] button stops a copy.



Note	It takes about 30 minutes to copy the recorded data for 6 hours.
------	--

4.3 Folder Composition

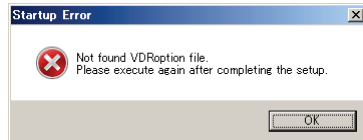


*1: The folder of the downloaded media is created, but the folder of the media which is not downloaded is not created.

Blank Page

Chapter5 Setup for Playback Software

In order to start Playback software, Setup is required. When Playback software is started and the following warning screen is indicated, setup is not completed.



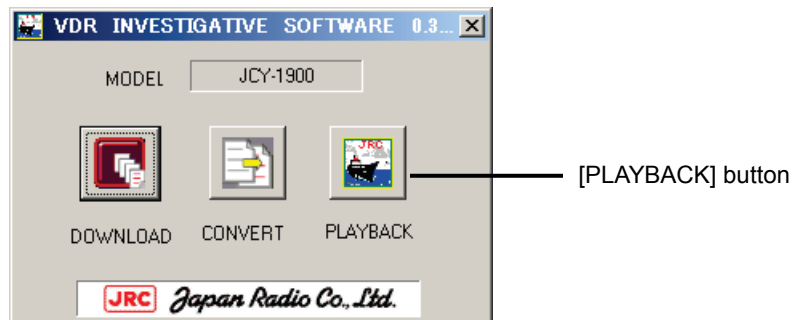
Refer to "Chapter 7 for Converting Recorded Data into Industry Standard Formats".

The Conversion software can convert recorded data in the Internal Storage and the Capsules into Industry Standard Formats.

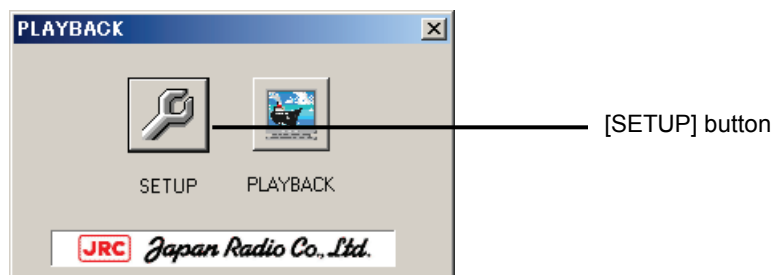
- VDR Configuration data : can be converted into text file
- Log data : can be converted into text file
- Image data: can be converted into Png file
- Audio data: can be converted into Wav file

5.1 Setup Procedure

- (1) Click [PLAYBACK] button from "VDR INVESTIGATIVE SOFTWARE" launcher menu.

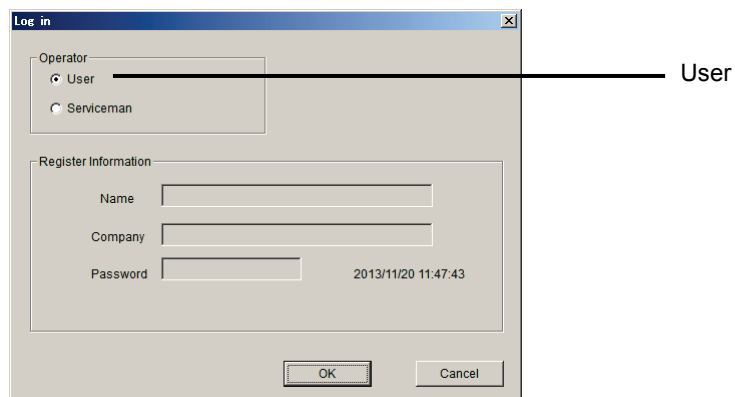


- (2) Click [SETUP] button from "PLAYBACK" launcher menu, and start the Setup software.

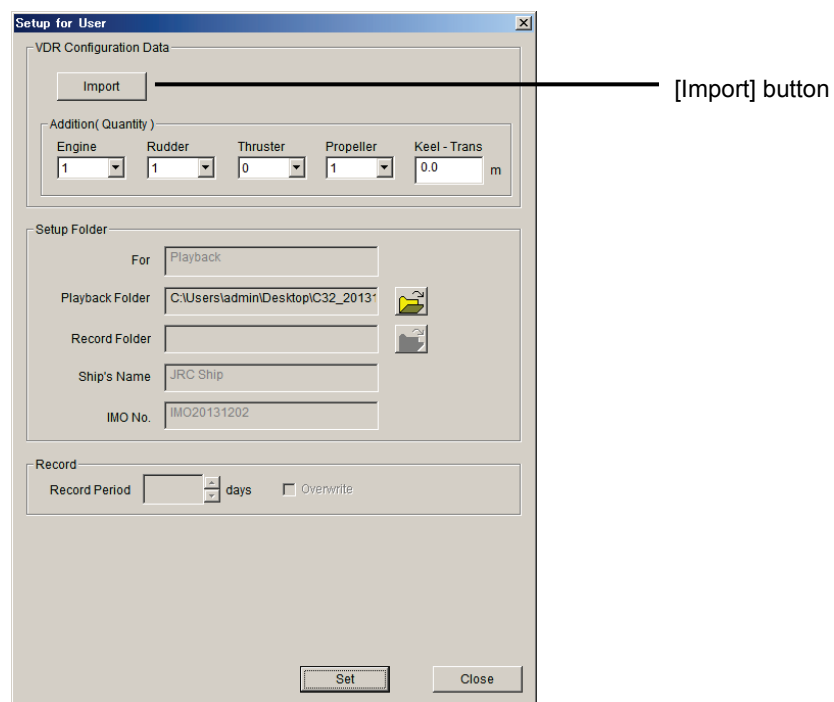


Chapter5 Setup for Playback Software

- (3) The Login screen is indicated, and click [OK] button after confirming that “User” is selected in the Operator block.



- (4) The Setup for User screen is indicated.
Click [Import] button.



- (5) As “Open” screen displays, select and open SysInfo.dat (VDR composition information) file, that is VDR/S-VDR recorded data downloaded at Section 4.1.

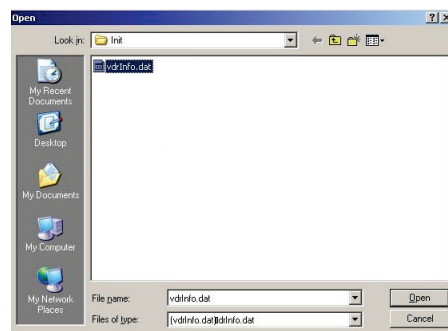
The vdrInfo.dat file is downloaded in the following location.

*\YYYYMMDDhhmmss\Data Source\init\vdrInfo.dat

Download folder

The folder specified at Chapter 4, Section 4.1 (7)

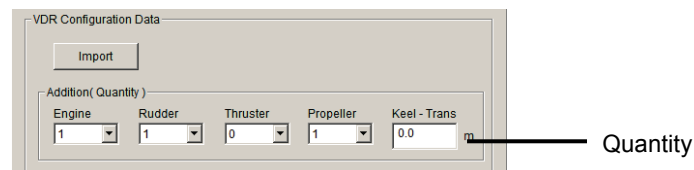
The name of data source
(Internal_Storage, Float-free_Capsule
or Fixed_Protective_Capsule)



Note

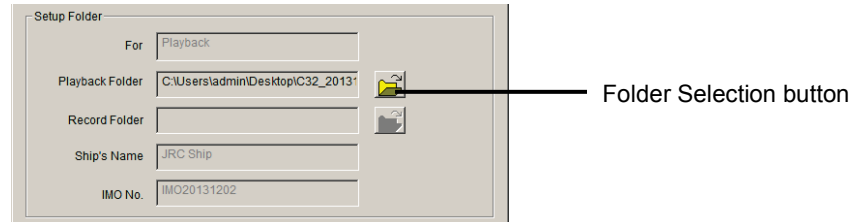
Click [Import] button and import “vdrInfo.dat” file.
If not, [Set] button is not available and setup is not completed.

- (6) Quantity of engine, rudder, thruster and propeller and so on is indicated.



Chapter5 Setup for Playback Software

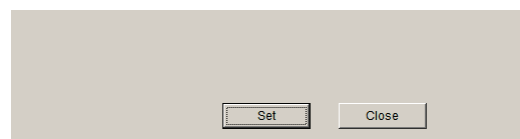
- (7) Click [Folder Selection] button, and select a folder specified with the clause 4.1(4) of Chapter 4.



When playing back download data, select the media folder (Internal Storage, Float-free Capsule or Fixed Protective Capsule),

- (8) Click [Set] button, and setup is completed.

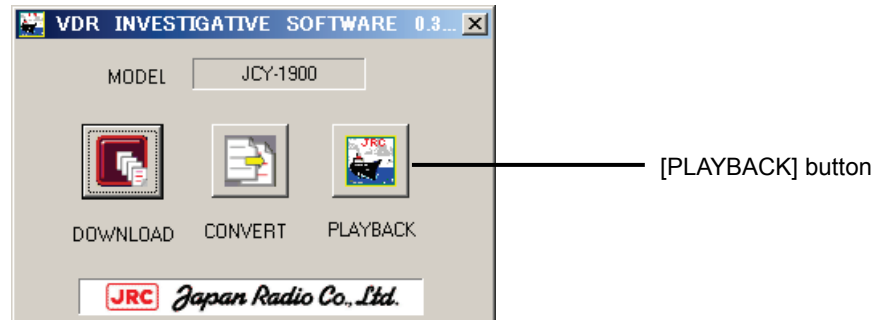
To close the Setup software, click [Close] button.



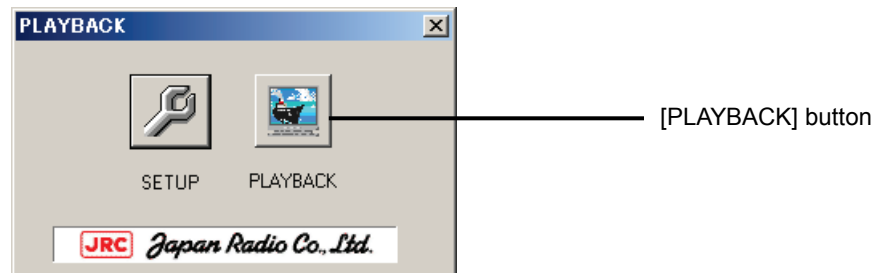
Chapter6 Playback Operation

6.1 How to start up the Playback software

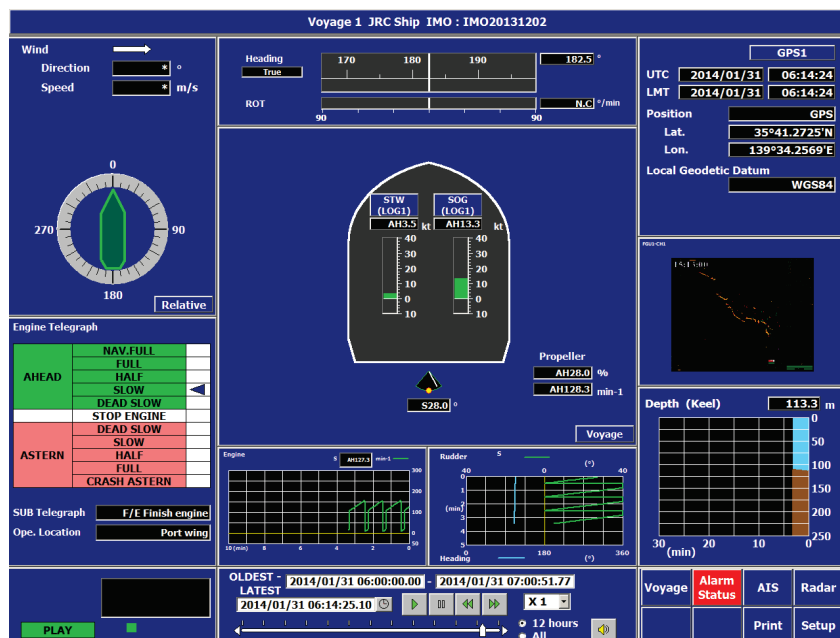
- (1) Click [PLAYBACK] button from “VDR INVESTIGATIVE SOFTWARE” launcher menu.



- (2) Click [PLAYBACK] button from “PLAYBACK” launcher menu.



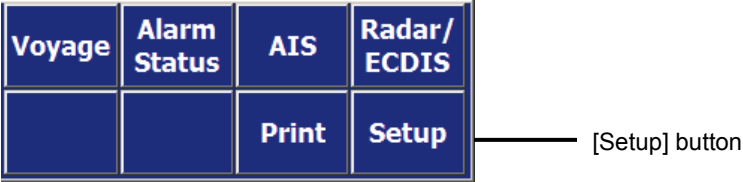
- (3) Playback screen displays.



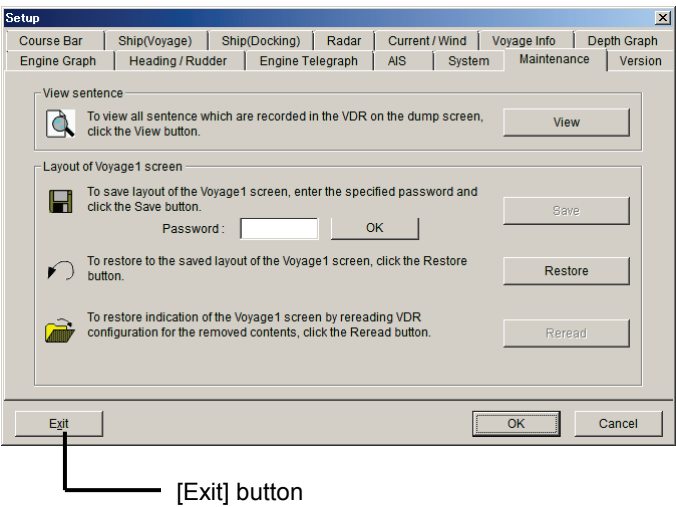
Chapter6 Playback Operation

6.2 How to exit the Playback software

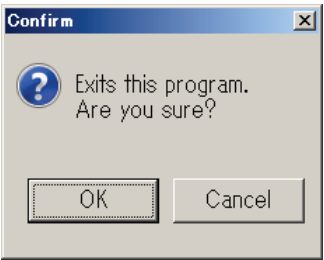
- (1) Click [Setup] button of bottom right in the playback screen and the Setup screen is indicated.



- (2) Click [Exit] button of bottom left in the Setup screen.



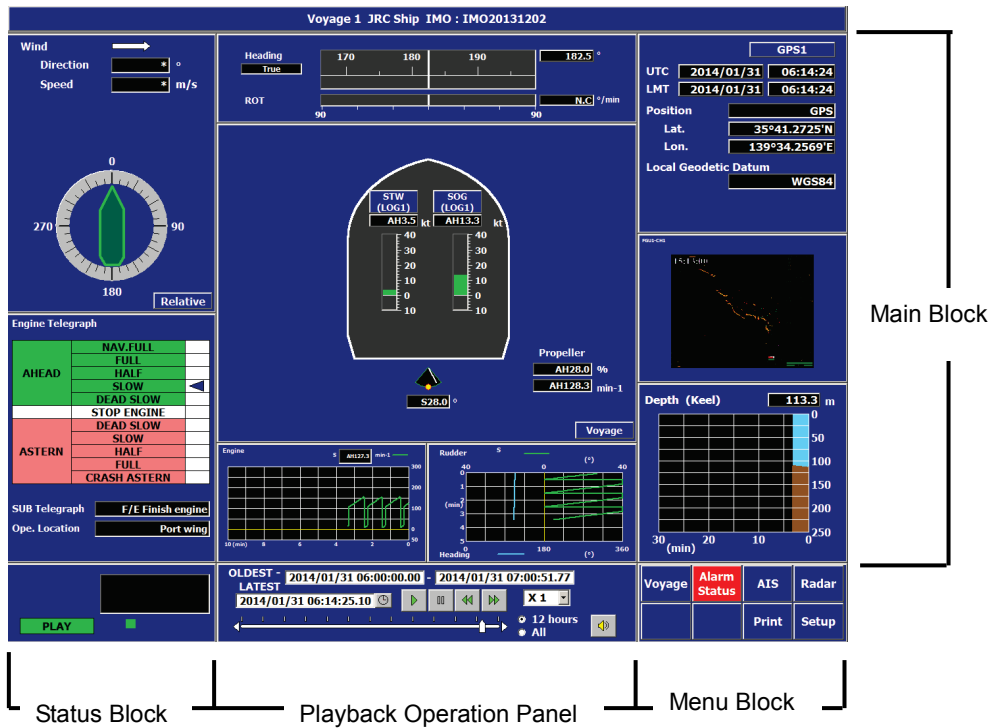
- (3) Click [OK] button in the Confirm window.



- (4) The Playback screen is closed and it returns to the Launcher menu.

6.3 Playback screen

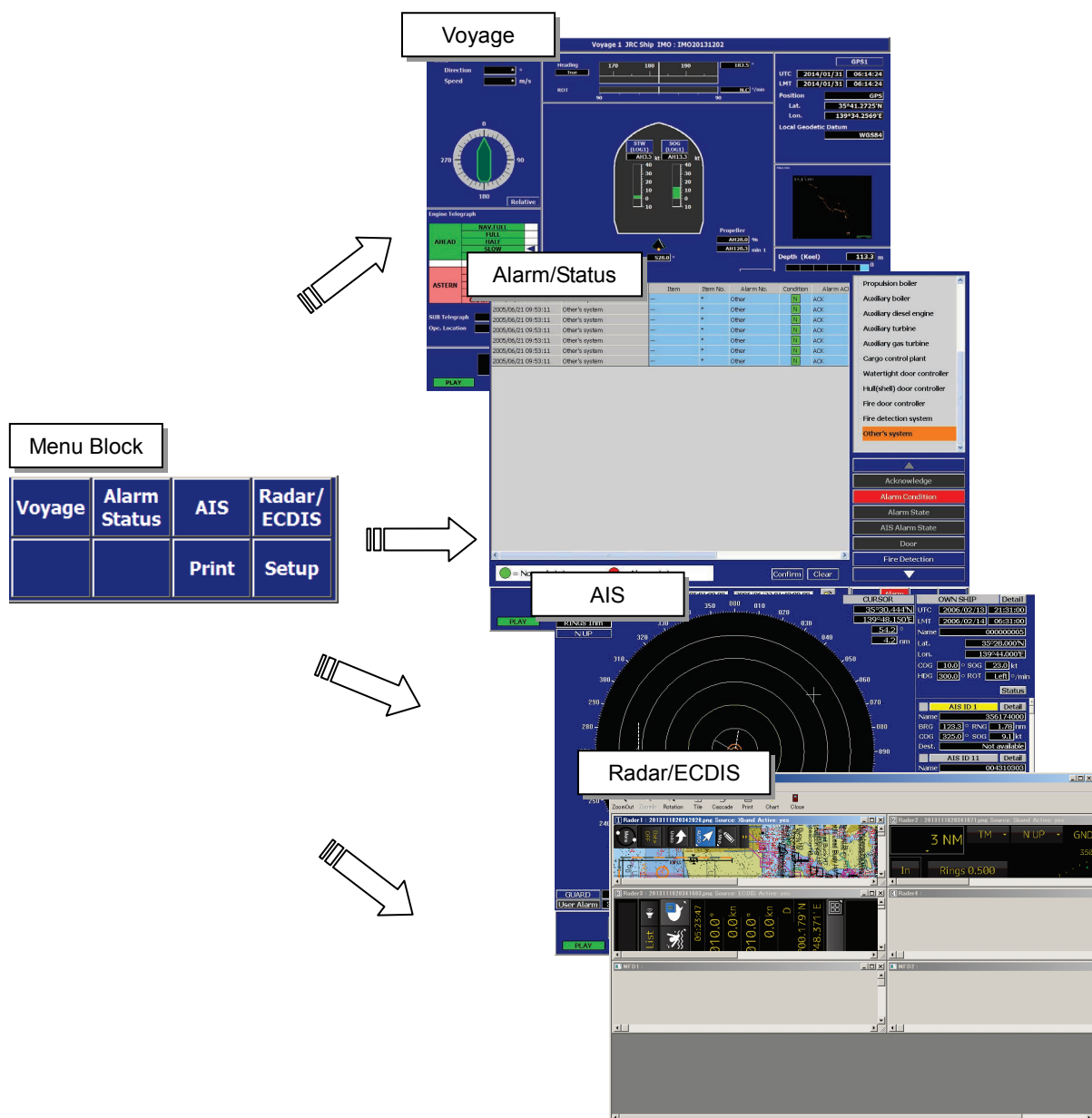
The Playback screen is composed with Main Block, Status Block, Playback Operation Panel and Menu Block.



Chapter6 Playback Operation

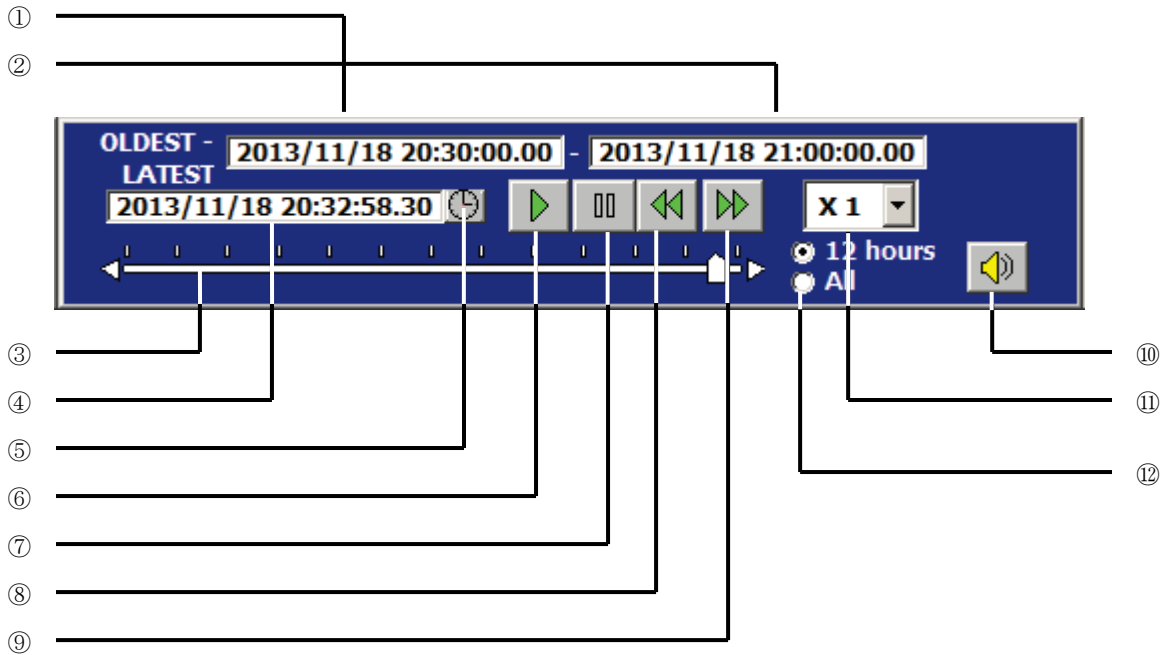
The Playback screen has Voyage screen, Alarm/Status screen, AIS screen and Radar/ECDIS screen on the Main Block, and their screens are selected with buttons of the Menu Block.

AIS screen does not display when AIS is not connected to VDR/S-VDR



6.4 Playback Operation Panel

Shows the function of buttons and sections.

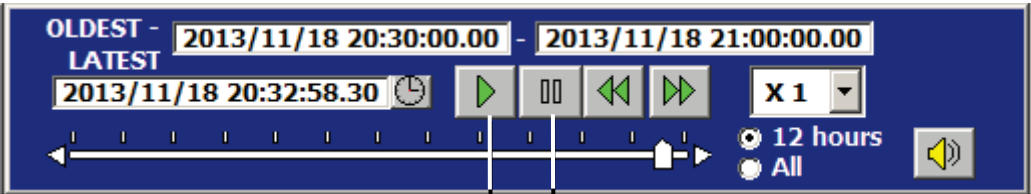


No.	Name	Function
①	OLDEST time	Show the oldest time of the recorded data.
②	LATEST time	Show the latest time of the recorded data.
③	Slide bar	Available to playback from a certain time by sliding the knob.
④	Playback time	Shows a playback time.
⑤	Clock button	Available to select a playback time from the calendar.
⑥	Playback button	Available to start playback.
⑦	Stop button	Available to stop playback.
⑧	Rewind button	Available to reverse a playback time fast.
⑨	Forward button	Available to forward a playback time fast.
⑩	Speaker button	Available to select audio source and adjust volume.
⑪	Playback Speed	Available to select a playback speed from "× 1", "× 2" and "× 4". Note) Audio is not outputted at playback of × 2 and × 4.
⑫	Slide bar select button	Available to select time span of slide bar for playback time.

Chapter6 Playback Operation

6.5 To start playback, and to stop

To start playback, click [Playback] button. And to stop playback, click [Stop] button.



Stop

Playback

6.6 To set playback time

Explain how to set playback time.

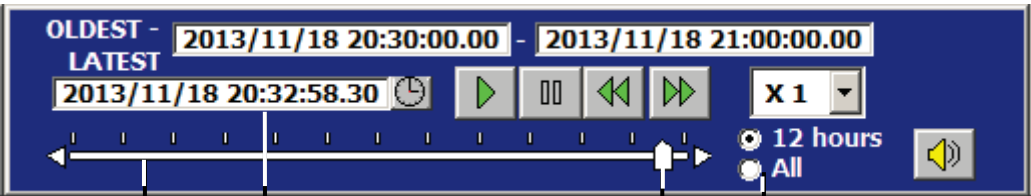
6.6.1 Setting playback time by Slide bar

If knob is slid, a playback time is forwarded or reversed according to the position.

By slide bar selection button, time span for playback can be set.

· 12hours :Time span of slide bar is 12 hours

· All :Time span of slide bar is all of record period



Slide bar select button

Slide bar

Playback time

Slide bar

Note

If recorded data for some days is played back, time span becomes long. Playback time span of the Slide bar becomes long, and so it is not easy to adjust playback time.

In that case, select the 12 hours in the Slide bar select button.

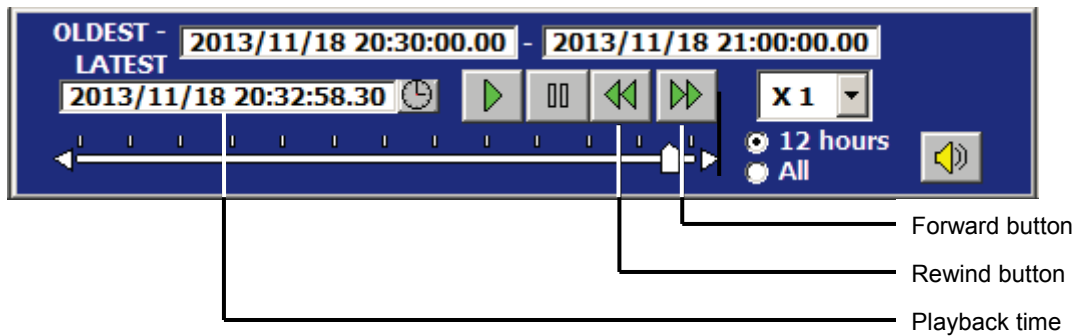
Time span of slide bar becomes 12 hours; moreover, scale in every hour is indicated.

So it is easy to adjust playback time.

6.6.2 Setting playback time by [Forward] button or [Rewind] button

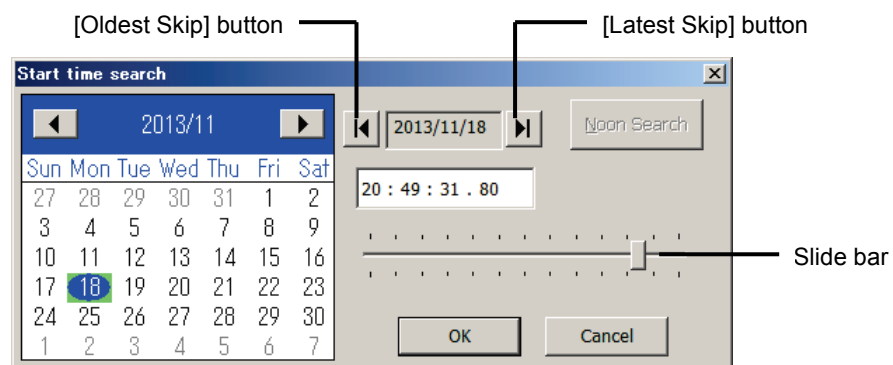
If [Forward] button is pressed, a playback time is forwarded. And the step time is increased by pressing the button continuously.

If [Rewind] button is pressed, a playback time is reversed. And step time is increased by pressing the button continuously.



6.6.3 Setting playback time by [Clock] button

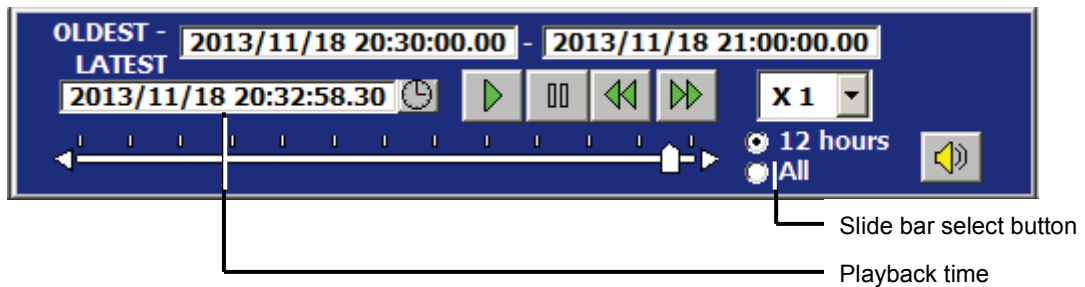
- (1) Select a date you want to play back from calendar.
(A light green part shows that there is recorded data.)
- (2) To select time, slide the knob of the Slide bar.
- (3) Click [OK] button.



Note	If [Oldest Skip] button is clicked, playback time can be skipped to oldest time. And if [Latest Skip] button is clicked, playback time can be skipped to latest time.
------	---

Chapter6 Playback Operation

- (4) Selected date is indicated in the Playback time



- (5) Click [Playback] button.

(If playback is in progress, playback is restarted automatically without clicking [Playback] button.)

Note	If 12 hours of slide bar select button is set, time span is 12 hours after selected playback time. So it becomes easy to select playback time with slide bar.
------	---

6.7 To change a playback speed

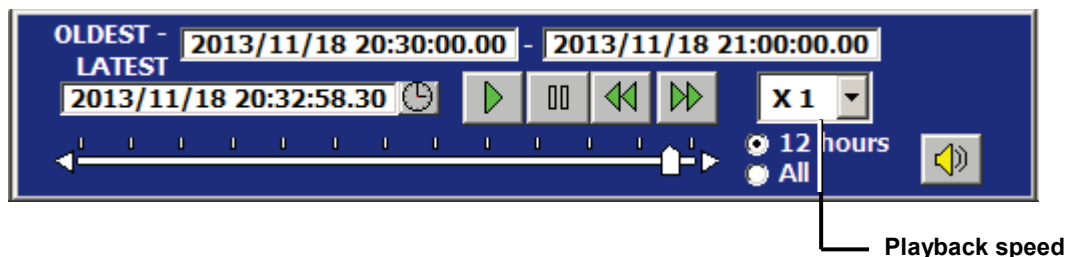
To change a playback speed, select it from the Playback speed.

“× 1” is selected as default, the playback speed is normal.

If “× 2” is selected, the playback speed become 2 times faster than normal.

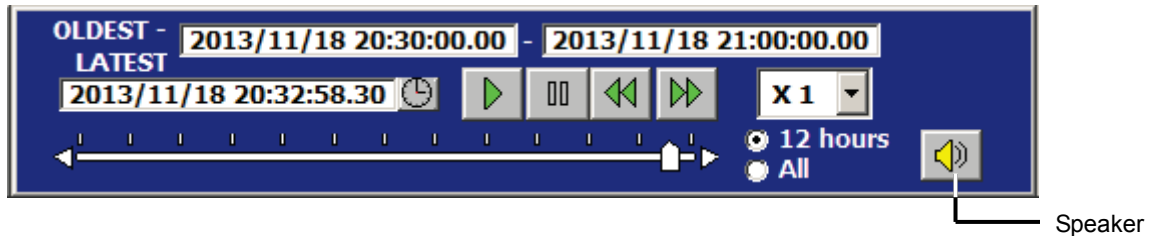
Moreover if “× 4” is selected, the playback speed become 4 times faster than normal.

Audio data cannot be played back at "X2" or "X4" speed.



6.8 To adjust Volume and select audio source

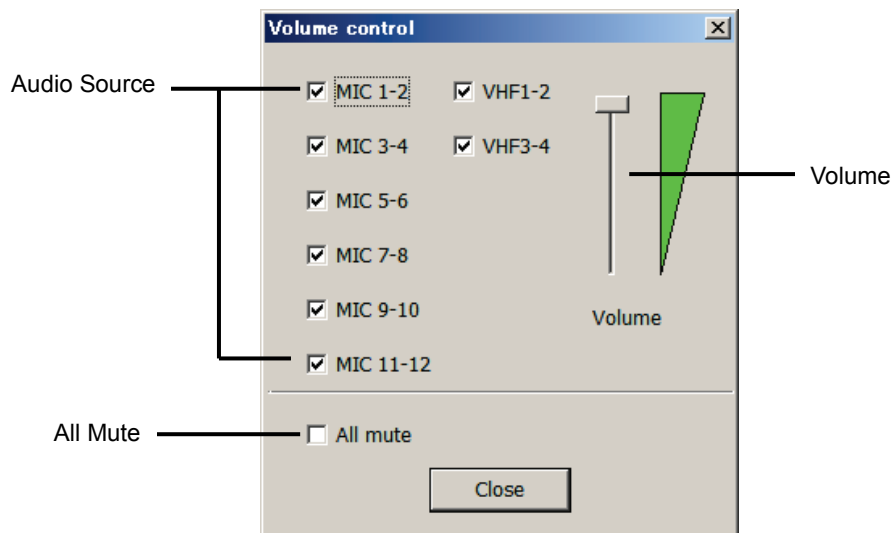
If [Speaker] button is clicked, the Volume control screen appears.



To adjust volume, slide up or down the volume knob.

If exclude an unnecessary audio source, click the source and remove the “✓” mark.

Moreover if the All mute is clicked and enter the “✓” mark, all sources are muted.



Note

When sound is small even if volume is set to maximum, click the  icon on the task bar and give volume more.

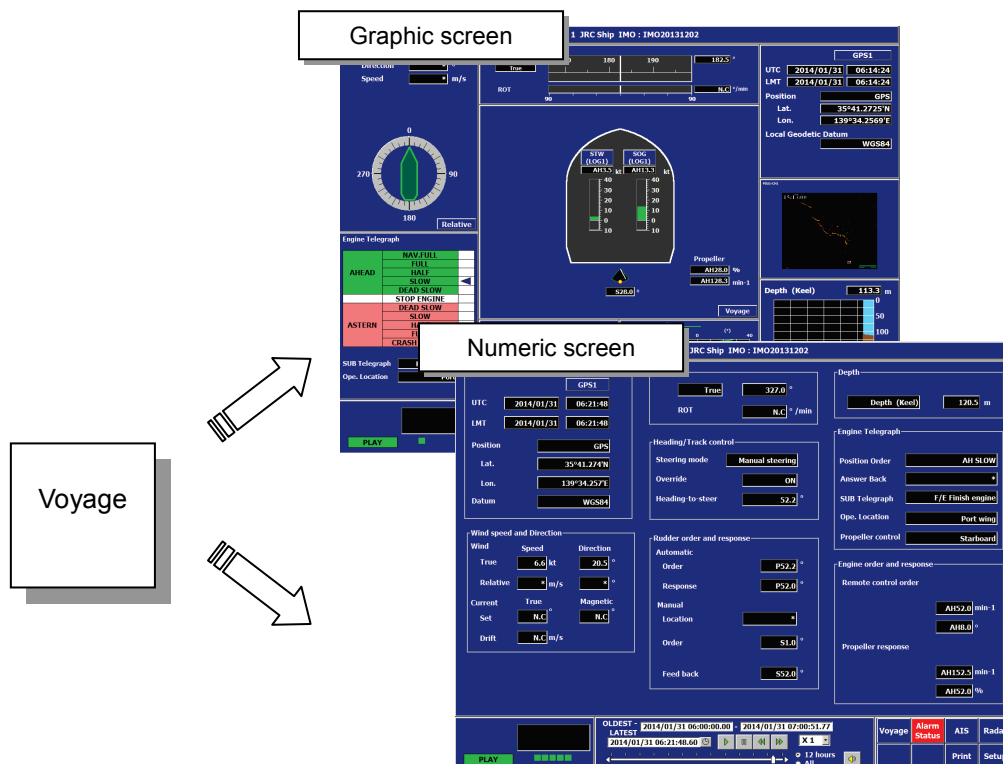


Chapter6 Playback Operation

6.9 Voyage screen

There are the Graphic screen and the Numeric screen in the Voyage screen.

To change the screens, click [Voyage] button in the Menu block.



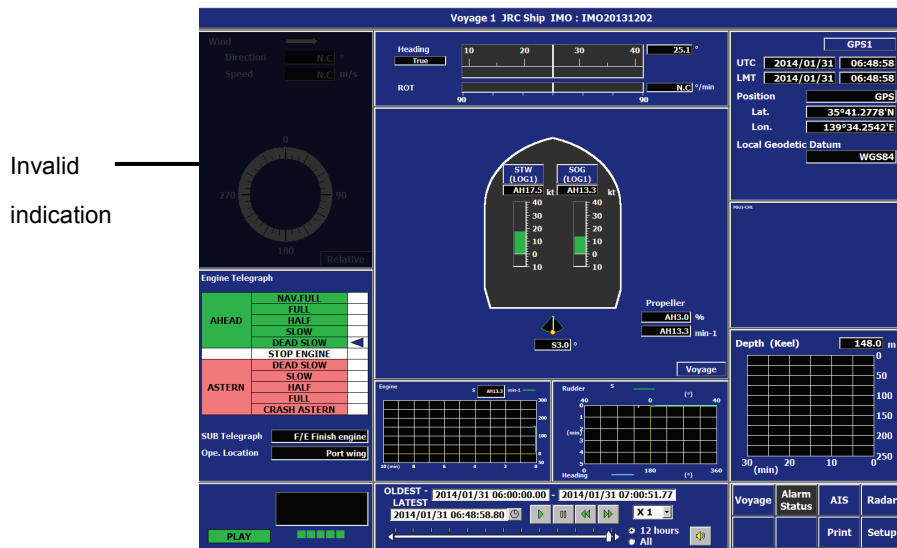
6.9.1 Graphic screen

The following explains Graphic screen.

“*” mark displays when data in numeric indication are not recorded.

“N.C” displays when the input equipment is not connected.

Moreover, it becomes an invalid indication when all the items in the divided block have not been connected.

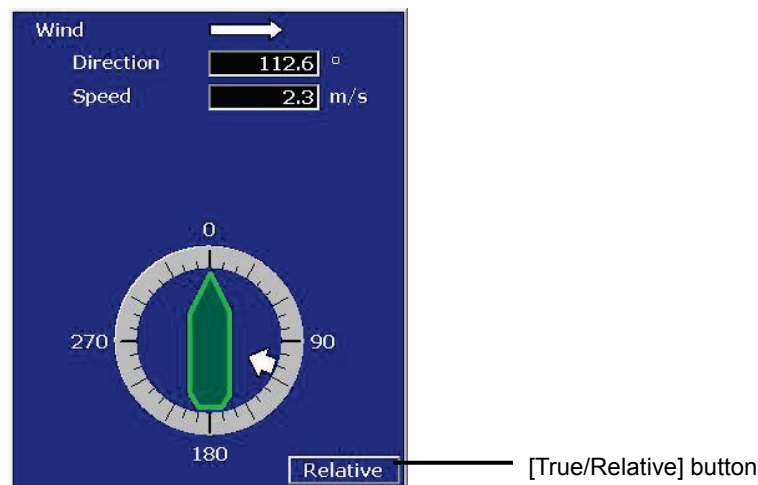


6.9.1.1 Wind block

This block shows wind speed and wind direction by numeric and graphic.

Moreover, if [True/Relative] button is clicked, it changes to true indication (top is the north) or relative indication (top is head of a ship).

Since VDR/S-VDR usually records only data of relative value, only relative value displays.



Chapter6 Playback Operation

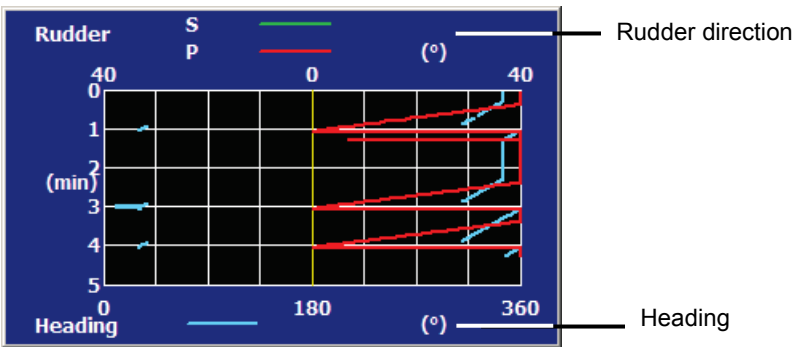
6.9.1.2 Rudder direction and heading block

This block shows heading against rudder direction by graphic.

The following figure is an example in case there is one rudder.

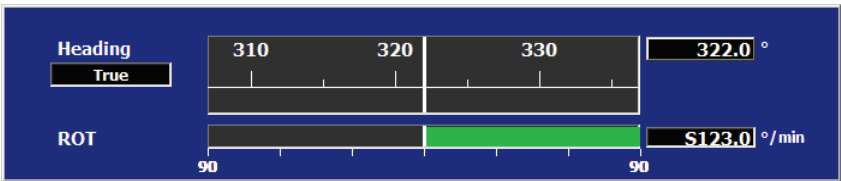
The green line shows rudder.

And the blue line shows heading by Gyro.



6.9.1.3 Heading block

This block shows heading graphically and numerically by Gyro.



6.9.1.4 Ship block (Voyage screen)

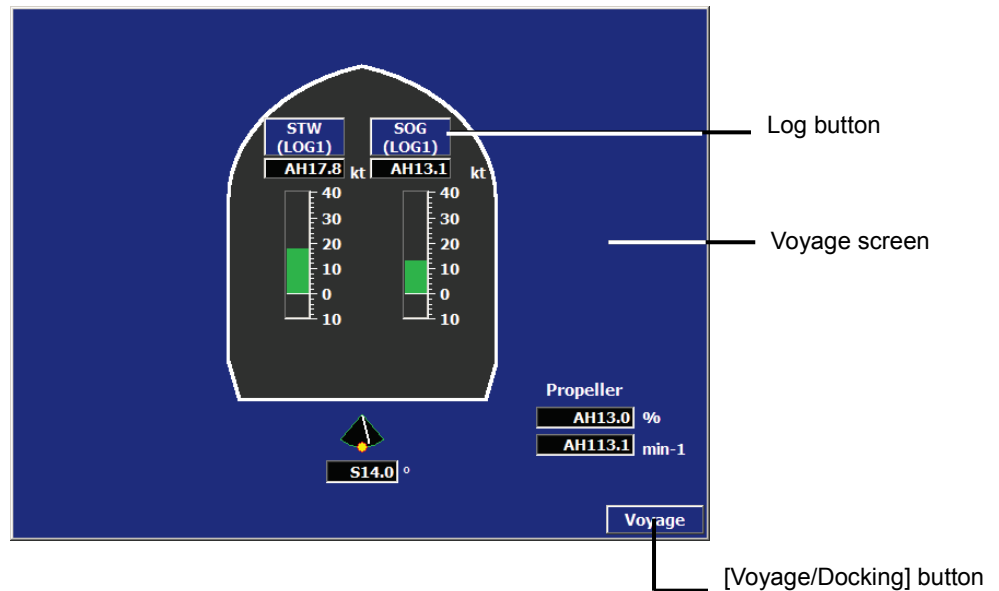
This block shows status of propeller, rudder and speed by numeric and graphic under voyage.

The following figure is an example in case there are 1 propeller and 1 rudder.

If [Voyage/Docking] button is clicked, the Ship block is switched to the Docking screen.

Refer to “6.9.1.5 Ship block (Docking screen)” about the Docking screen.

When equipping 2 Logs, Log can be switched with the [STW (LOG1/2)] and [SOG (LOG1/2)] button.



Chapter6 Playback Operation

6.9.1.5 Ship block (Docking screen)

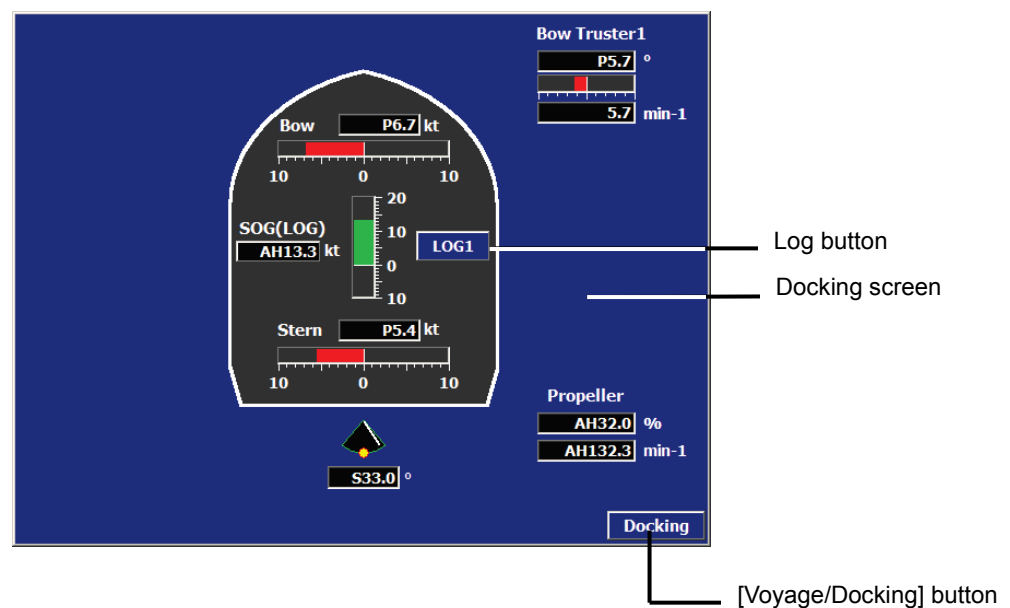
This block shows status of propeller, rudder, speed and thruster by numeric and graphic under docking.

The following figure is an example in case there are 1 propeller, 1 rudders and 1 thruster.

If [Voyage/Docking] button is clicked, the Ship block is switched to the Voyage screen.

Refer to “6.9.1.4 Ship block (Voyage screen)” about the Voyage screen.

When equipping 2 Logs, Log can be switched with the [LOG1/2] button.



6.9.1.6 Voyage Info block

This block shows date, time, own ship's position etc. by numeric.

	GPS1	
UTC	2014/01/31	06:26:11
LMT	2014/01/31	06:26:11
Position	GPS	
Lat.	35°41.2748'N	
Lon.	139°34.2571'E	
Local Geodetic Datum	WGS84	

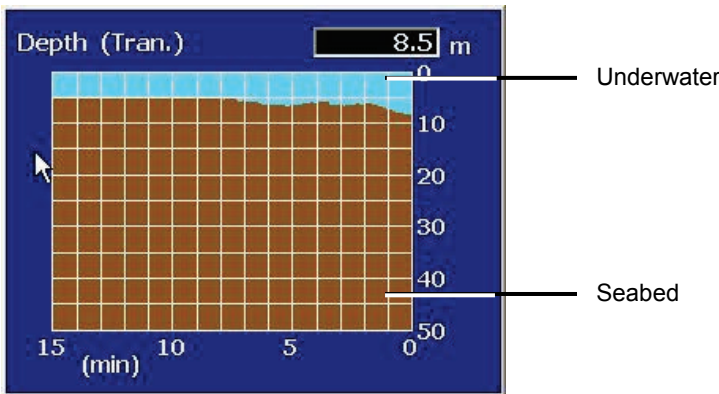
Chapter6 Playback Operation

6.9.1.7 Depth block

This block shows Depth by numeric and graphic.

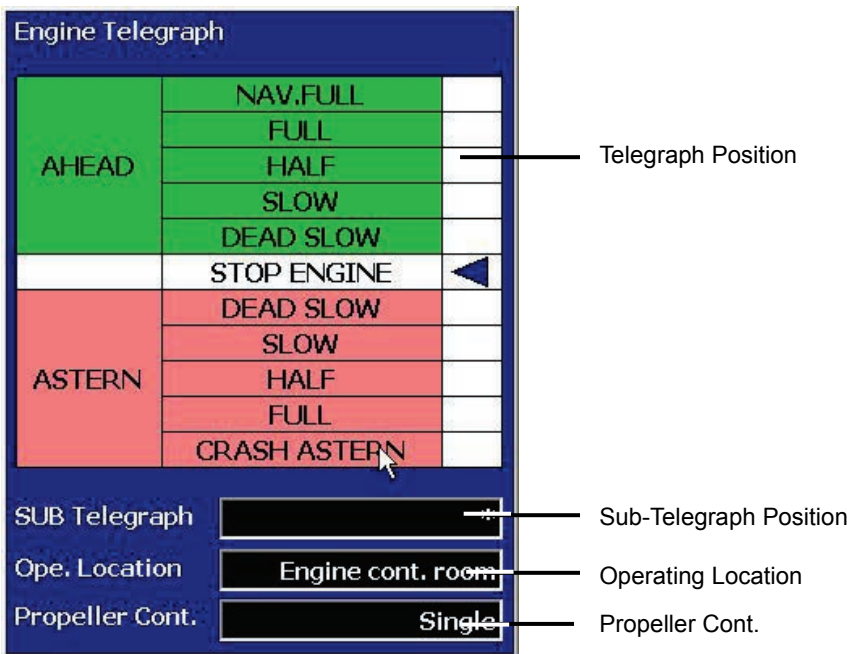
The brown zone is seabed, and the light-blue zone is underwater.

A horizontal axis shows lapsed time and shows the depth of water of the newest at right end.



6.9.1.8 Engine Telegraph block

This block shows engine telegraph status by graphic.



6.9.2 Numeric screen

There are two numeric screens as follows.

In numeric screen, all data of graphic screen are showed in numeric.

“*” mark displays if data in numeric indication have not yet received or illegal data are inputted,

“N.C” displays when the input equipment is not connected.

VDR 1 JRC Ship IMO : IMO20131202

Position and Time GPS1 UTC 2014/01/31 06:43:20 LMT 2014/01/31 06:43:20 Position GPS Lat. 35°41.293'N Lon. 139°34.267'E Datum WGS84	Heading True 159.5 ° ROT N.C ° /min Heading/Track control Steering mode Manual steering Override ON Heading-to-steer 25.2 °	Depth Depth (Keel) 142.3 m Engine Telegraph Position Order AH HALF Answer Back * SUB Telegraph F/E Finish engine Ope. Location Port wing Propeller control Starboard
Wind speed and Direction Wind Speed Direction True 2.1 kt 42.3 ° Relative * m/s * ° Current True Magnetic Set N.C ° N.C ° Drift N.C m	Rudder order and response Automatic Order P25.6 ° Response P25.0 ° Manual * Location *	Engine order and response Remote control order AH25.0 min-1 AH3.0 °

VDR 2 JRC Ship IMO : IMO20131202

Speed Water and Ground To Water (LOG1) (LOG2) Bow 524.6 kt N.C kt STW AH17.6 kt N.C kt Stern S19.2 kt N.C kt To Ground (LOG1) (LOG2) Bow P6.6 kt N.C kt SOG AH13.2 kt N.C kt Stern P5.6 kt N.C kt (GPS) SOG N.C kt	Thruster control order and response Order Response Bow1 18.6 % 6.7 min-1 S6.7 % P6.7 °	Device Position GPS1 X coordinate * m Y coordinate * m Z coordinate * m Ship's Width * m Ship's Length * m																					
Distance Water and Ground Total Water (LOG1) (LOG2) * nm * nm Water Distance 2416.64 nm * nm Total Ground * nm * nm Ground Distance * nm * nm	Rolling motion Heel angle 55.2 ° Roll period 3.3 sec Amplitude Port 9.5 ° Starboard 9.2 ° Log Book Log Book	Plausibility / Integrity <table border="1"> <thead> <tr> <th></th> <th>Plausibility</th> <th>Integrity</th> </tr> </thead> <tbody> <tr> <td>Heading</td> <td>*</td> <td>*</td> </tr> <tr> <td>Position</td> <td>*</td> <td>*</td> </tr> <tr> <td>STW</td> <td>*</td> <td>*</td> </tr> <tr> <td>SOG</td> <td>*</td> <td>*</td> </tr> <tr> <td>Depth</td> <td>*</td> <td>*</td> </tr> <tr> <td>Time</td> <td>*</td> <td>*</td> </tr> </tbody> </table>		Plausibility	Integrity	Heading	*	*	Position	*	*	STW	*	*	SOG	*	*	Depth	*	*	Time	*	*
	Plausibility	Integrity																					
Heading	*	*																					
Position	*	*																					
STW	*	*																					
SOG	*	*																					
Depth	*	*																					
Time	*	*																					

PLAY [Green Bar]

OLDEST - LATEST 2014/01/31 06:00:00.00 - 2014/01/31 07:00:51.77
 2014/01/31 06:46:16.80 [Play] [Stop] [Previous] [Next] [X1] [12 hours] [All]

Voyage [Red] **Alarm Status** [Red] **AIS** [Green] **Radar** [Green]
Print **Setup**

Chapter6 Playback Operation

6.10 Alarm/Status screen

The Alarm/Status screen shows alarm information, status of engine telegraph, door status, water level and fire detection etc.

This screen is composed 3 blocks of Alarm/Status, Category Menu and Alarm/Status Menu.

To show door status e.g., click [Door] button from the Alarm/Status Menu.

Moreover, to show about Steering gear e.g., click the Steering gear from the Category Menu.

And if [Section] button is clicked, the Alarm/Status information is sorted.



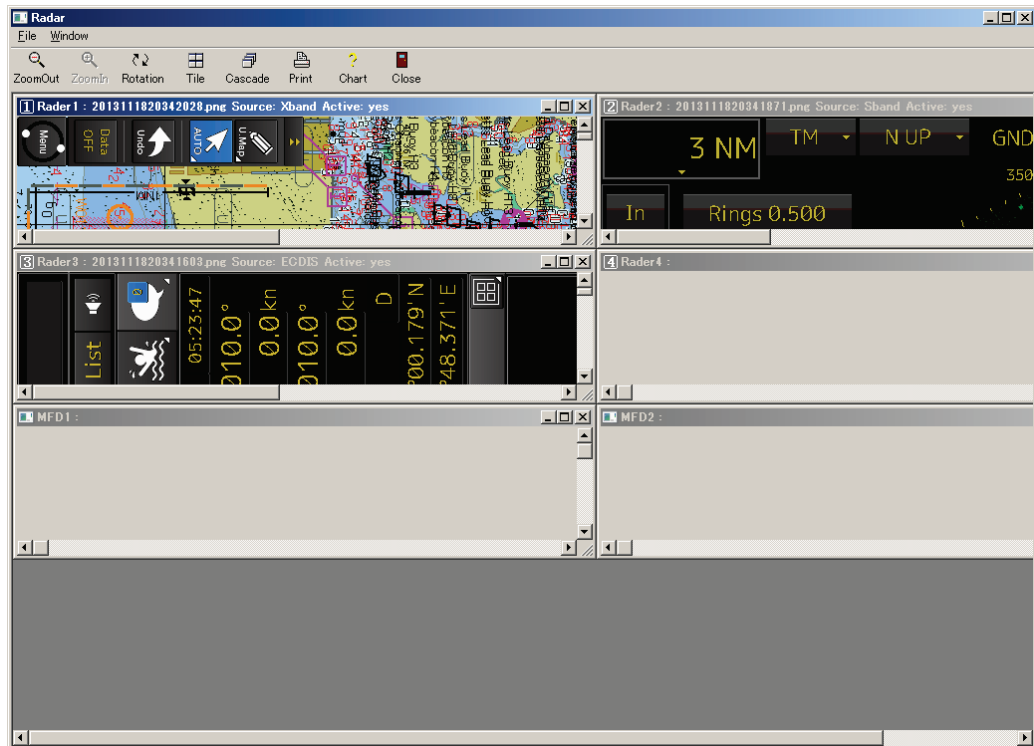
6.11 Radar/ECDIS screen

It is possible to view Radar and ECDIS images captured every 15 seconds in this screen.

It is prepared so that the icon and the menubar may effectively view the screens.

It is possible to view maximum 6 images as follows.

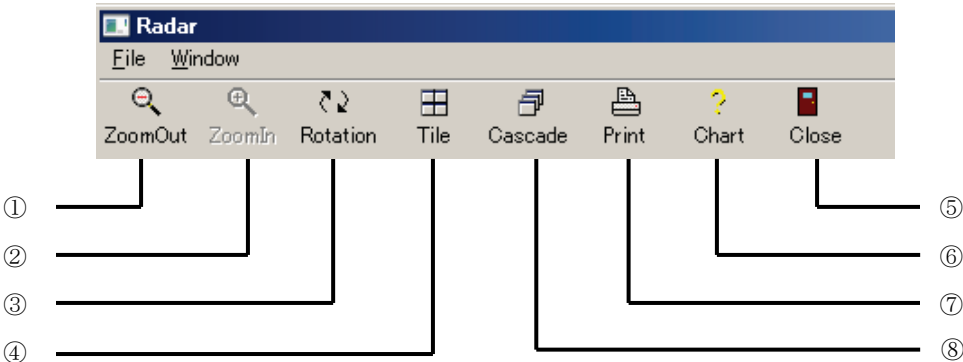
- No.1 and No.2 X-Band RADAR
- No.1 and No.2 S-Band RADAR
- No.1 and No.2 ECDIS



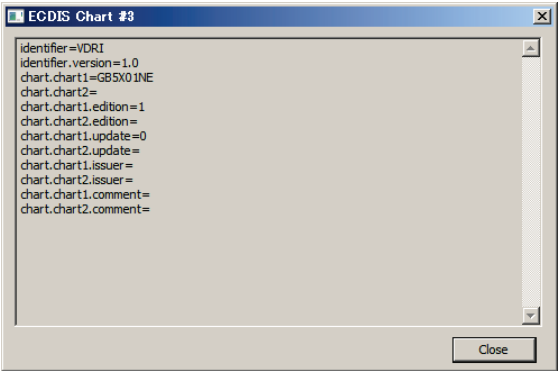
Chapter6 Playback Operation

6.11.1 Icon

Shows the function of buttons below.



No.	Name	Function
①	Zoom Out	Available to contract a selected screen.
②	Zoom In	Available to expand a selected screen.
③	Rotation	Available to rotate a selected screen.
④	Tile	Available to arrange screens like tiles.
⑤	Close	Available to close the screen.
⑥	Chart	Available to view chart information of ECDIS.
⑦	Print	Available to print a selected screen.
⑧	Cascade	Available to arrange screens in forward and backward.

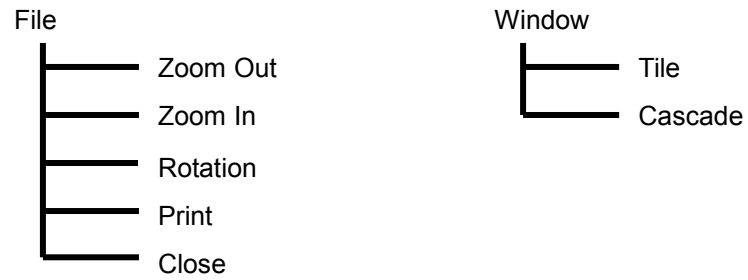


e.g. Chart Information screen

6.11.2 Menu bar

Shows the composition of the menu bar below.

The functions are same as icons of “6.11.1 Icon”.



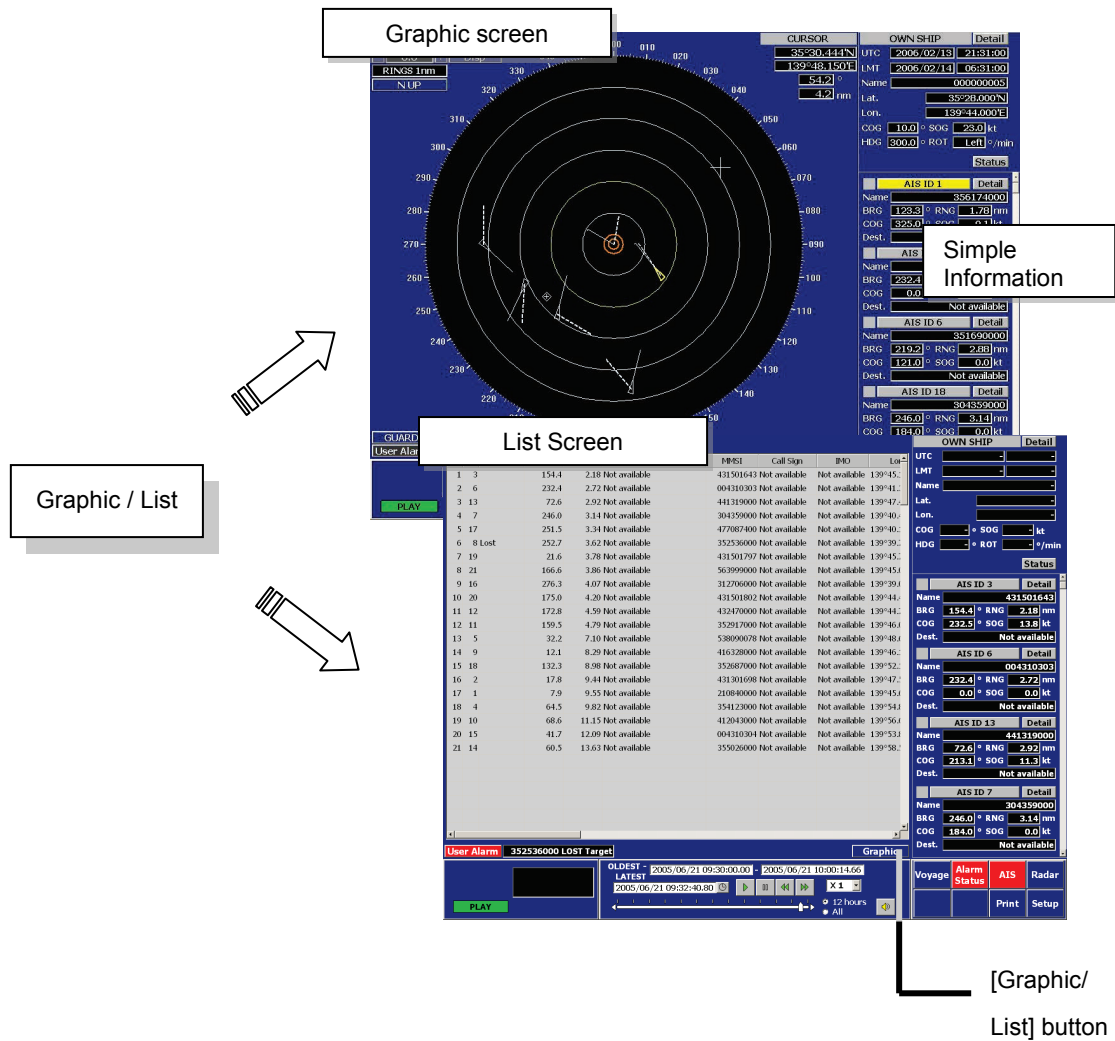
Chapter6 Playback Operation

6.12 AIS Screen

There are the Graphic screen and List screen in the AIS screen.

To select the screens, click [Graphic] button or [List] button.

And simple information of own ship and AIS targets is indicated on right side.



6.12.1 Graphic screen

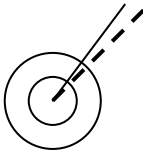
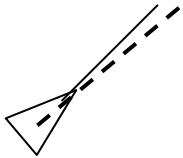
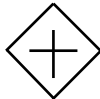
Centering on own ship, the state of AIS target is indicated on graphics by a symbol.

Screen area is expanded or contracted by Range button. (Radius: from 0.75 to 24 nm)



Chapter6 Playback Operation

Explains about symbols in the following table.

Category	Symbol	Explain
Own ship		• Solid line shows heading. • Dashed line shows COG(Course Over Ground).
AIS Target		• Solid line shows heading. • Dashed line shows COG(Course Over Ground).
		If position report of a ship is not received more than a certain time, the symbol is indicated.
AIS Base Station		
Aids-to-navigation		
Mouse cursor		

6.12.2 List screen

Position report, ship's name, IMO number, call sign and length of hull etc are showed in this screen.

It is indicated on near order from a top from own ship.

AIS-List

No.	ID	Guard/Lost	BRG(deg)	RNG(nm)	Name	MMSI	Call Sign	IMO	Lat	Lon
1	3		154.4	2.18	Not available	431501643	Not available	Not available	139°45.1	
2	6		232.4	2.72	Not available	004310303	Not available	Not available	139°41.1	
3	13		72.6	2.92	Not available	441319000	Not available	Not available	139°47.1	
4	7		246.0	3.14	Not available	304359000	Not available	Not available	139°40.1	
5	17		251.5	3.34	Not available	477087400	Not available	Not available	139°40.1	
6	8	Lost	252.7	3.62	Not available	352536000	Not available	Not available	139°39.1	
7	19		21.6	3.78	Not available	431501797	Not available	Not available	139°45.1	
8	21		166.6	3.86	Not available	563999000	Not available	Not available	139°45.1	
9	16		276.3	4.07	Not available	312706000	Not available	Not available	139°39.1	
10	20		175.0	4.20	Not available	431501802	Not available	Not available	139°44.1	
11	12		172.8	4.59	Not available	432470000	Not available	Not available	139°44.1	
12	11		159.5	4.79	Not available	352917000	Not available	Not available	139°46.1	
13	5		32.2	7.10	Not available	538090078	Not available	Not available	139°48.1	
14	9		12.1	8.29	Not available	416328000	Not available	Not available	139°46.1	
15	18		132.3	8.98	Not available	352687000	Not available	Not available	139°52.1	
16	2		17.8	9.44	Not available	431301698	Not available	Not available	139°47.1	
17	1		7.9	9.55	Not available	210840000	Not available	Not available	139°45.1	
18	4		64.5	9.82	Not available	354123000	Not available	Not available	139°54.1	
19	10		68.6	11.15	Not available	412043000	Not available	Not available	139°56.1	
20	15		41.7	12.09	Not available	004310304	Not available	Not available	139°53.1	
21	14		60.5	13.63	Not available	355026000	Not available	Not available	139°58.1	

OWN SHIP Detail

UTC: [Dropdown]
 LMT: [Dropdown]
 Name: [Dropdown]
 Lat: [Dropdown]
 Lon: [Dropdown]
 COG: [Dropdown] ° SOG: [Dropdown] kt
 HDG: [Dropdown] ° ROT: [Dropdown] °/min

Status

AIS ID 3 Detail

Name: 431501643
 BRG: 154.4 ° RNG: 2.18 nm
 COG: 232.5 ° SOG: 13.8 kt
 Dest: Not available

AIS ID 6 Detail

Name: 004310303
 BRG: 232.4 ° RNG: 2.72 nm
 COG: 0.0 ° SOG: 0.0 kt
 Dest: Not available

AIS ID 13 Detail

Name: 441319000
 BRG: 72.6 ° RNG: 2.92 nm
 COG: 213.1 ° SOG: 11.3 kt
 Dest: Not available

AIS ID 7 Detail

Name: 304359000
 BRG: 246.0 ° RNG: 3.14 nm
 COG: 184.0 ° SOG: 0.0 kt
 Dest: Not available

User Alarm 352536000 LOST Target

Graphic

OLDEST: 2005/06/21 09:30:00.00 - 2005/06/21 10:00:14.66
 LATEST: 2005/06/21 09:32:40.80
 PLAY [Button]
 X 1 [Dropdown]
 12 hours [Dropdown]
 All [Dropdown]

Voyage **Alarm Status** **AIS** **Radar**
 [Button] [Button] [Button] [Button]
 [Button] [Button] [Button] [Button]

Chapter6 Playback Operation

6.12.3 Detail Information of own ship

If [Detail] button in the simple information block, the detail screen is indicated.

OWN SHIP			
UTC	2013/12/02		04:14:20
LMT	2013/12/02		04:14:20
Name	Not available		
MMSI	431900001		
Call Sign	Not available		
IMO No.	Not available		
Pos.Sensor	Undefined		
Pos.Accuracy	Low		
Lat.	35°41.269'N		
Lon.	139°34.252'E		
COG	15.6 °	SOG	0.0 kt
HDG	N/A °	ROT	N/A °/min
Dest.	Not available		
Nav.Stat.	Under way using engine		
ETA	Not available		
Ship Type	Not available		
Cargo Type	Not available		
Dimension	Length	N/A	m
	Beam	N/A	m
	Draught	N/A	m
Close			

6.12.4 Detail information of AIS target

If [Detail] button in the simple information block, the detail screen is indicated.

AIS ID 1	
Name	
MMSI	431000002
Call Sign	DEF9800
IMO No.	431999030
Pos.Sensor	GPS
Pos.Accuracy	High
Lat.	35°41.000'N
Lon.	139°24.000'E
BRG	268.2 °
RNG	8.37 nm
COG	5.3 °
SOG	13.4 kt
HDG	15.0 °
ROT	0.0 °/min
Dest.	AFRICA & TOKYO
Nav.Stat.	Under way using engine
ETA	12/31 23:59
Ship Type	Pilot Vessel
Cargo Type	Not available
Dimension	
Length	235 m
Beam	46 m
Draught	12.3 m
AIS Class	Class A
Close	

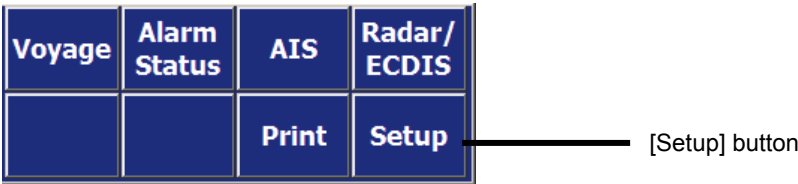
Chapter6 Playback Operation

6.13 To confirm the record sentences in the NMEA format

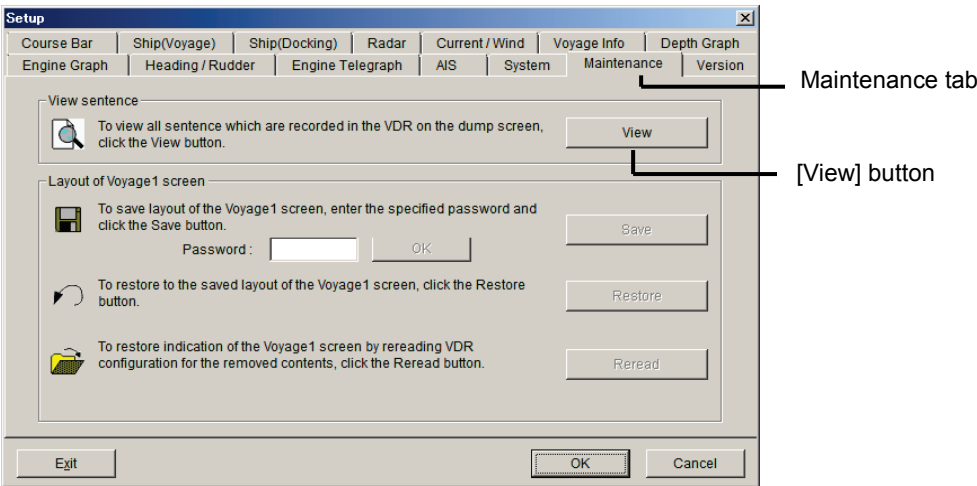
Available to confirm the record sentences in the NMEA format on the Dump screen.

To open the Dump screen, operate as follows.

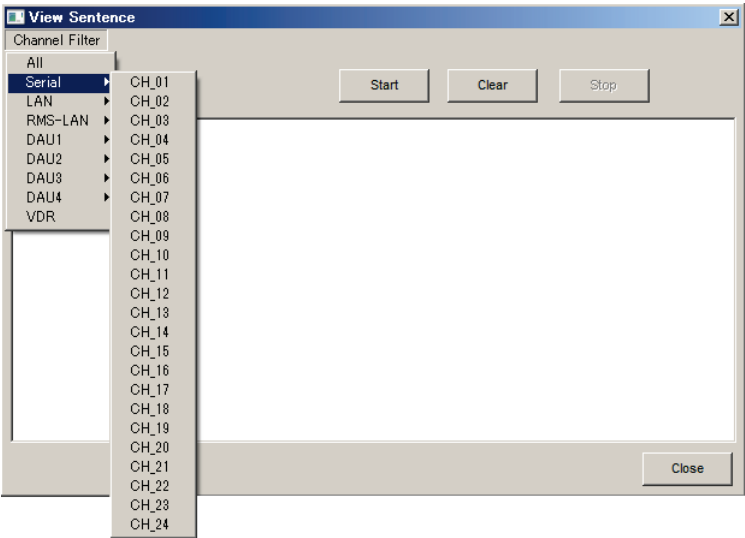
- (1) Click [Setup] button in the Menu Block.



- (2) Select the Maintenance tab in the setup and click [View] button.



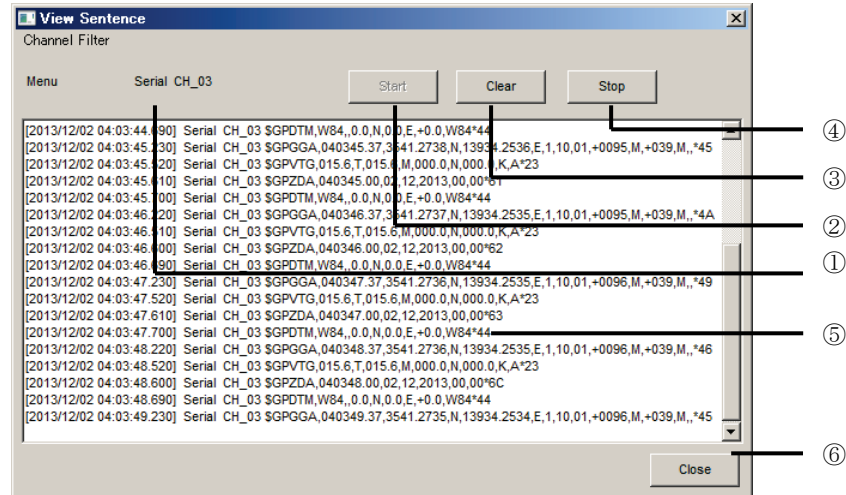
- (3) Select a target channel from Cannel Filter menu



(4) Click [Start] button.

To abort view, click [Stop] button.

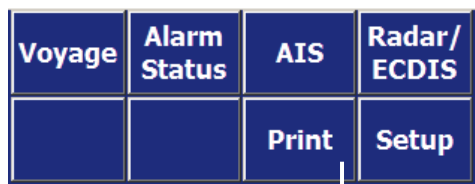
Shows the function of buttons below.



No.	Name	Function
①	Port No.	Available to select a certain channel or all channels.
②	Start	Available to start view.
③	Clear	Available to clear NMEA sentences on the Dump screen.
④	Stop	Available to abort view.
⑤	Dump screen	NMEA sentence is shown on the screen.
⑥	Close	Available to close the Dump screen.

6.14 To print screen

To print screen, click [Print] button in the MENU Block.



[Print] button

Note	To print, it is necessary to install a printer driver in a used PC beforehand.
------	--

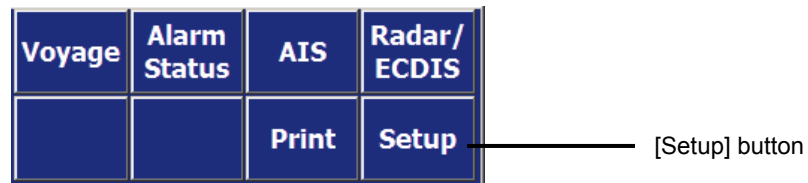
Chapter6 Playback Operation

6.15 To confirm the VDR system information

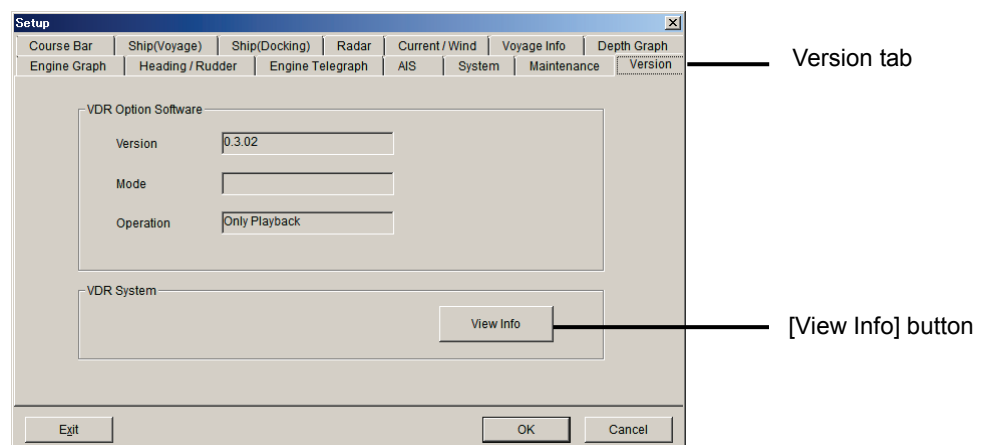
Available to confirm the VDR system configuration that is required in the International Standard on the VDR System Information screen.

To open the VDR System Information screen, operate as follows.

- (1) Click [Setup] button in the Menu Block and select the Version tab.

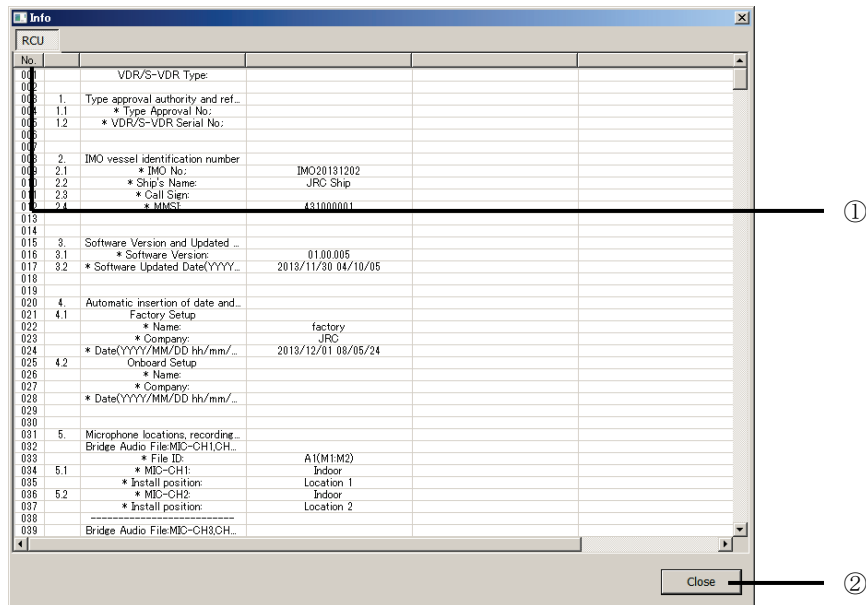


- (2) Click [View Info] button.



(3) The VDR System Information screen is opened.

Shows the function of buttons below.



No.	Name	Function
①	RCU	Available to show the RCU system information on the screen.
②	Close	Available to close the screen.

Chapter6 Playback Operation

6.16 How to customize screen layout

It is possible to move, expand and reduce the Voyag1 and Voyage2 screens.

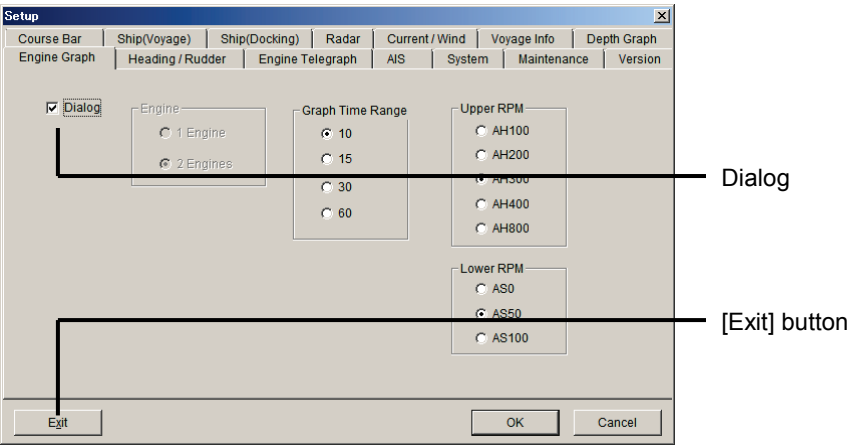
And when [Setup] button is clicked, setting tabs of each block are indicated, and if a check mark of "Dialog" is removed, the corresponding block disappears. Therefore it is possible to indicate necessary blocks only.

When Dialogs are changed on the Voyage1 screen, a layout of the Voyage1 screen is changed.

If the Voyage2 screen is changed, please change Dialogs on the Voyage2 screen.

The screen layouts are saved automatically at exiting the Playback software.

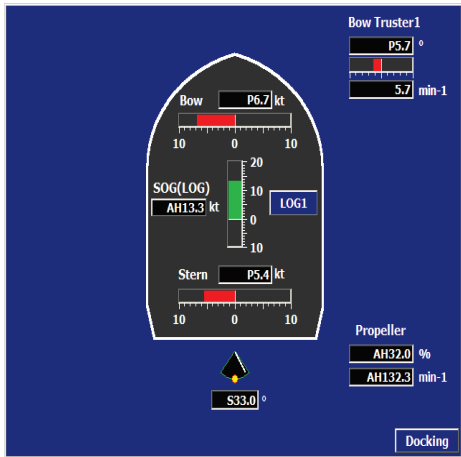
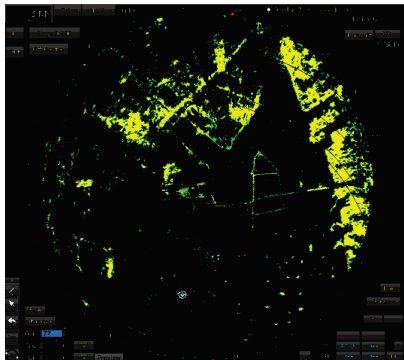
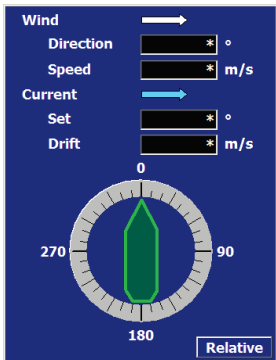
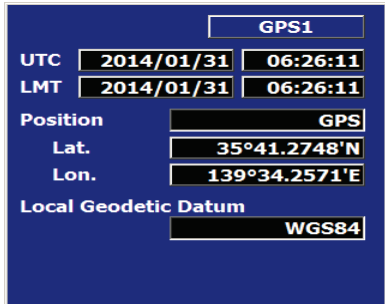
Course Tab e.g.)



(1/4)

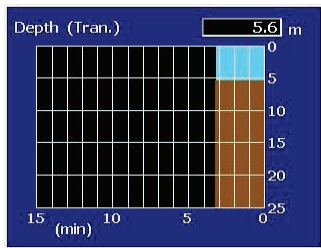
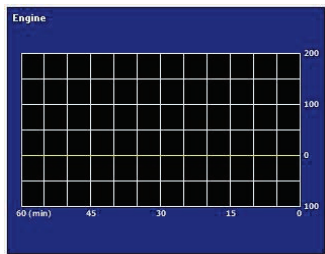
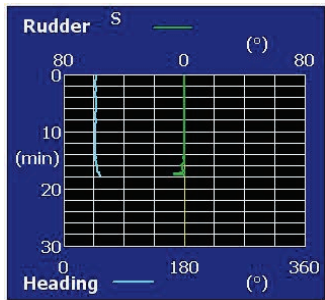
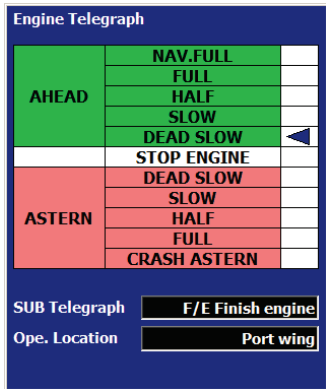
Tab	Corresponding Block	Note
Course Bar		
Climate	—	Not used
Ship (Voyage)		

(2/4)

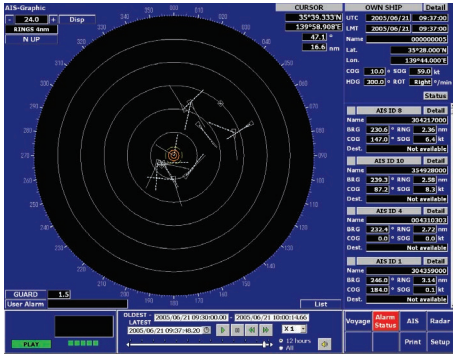
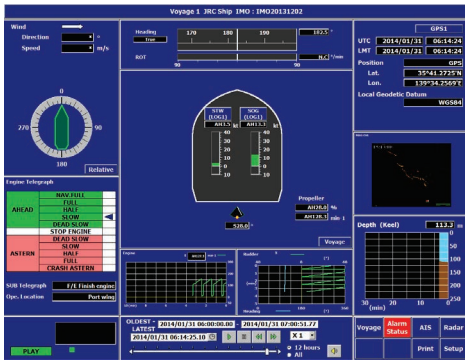
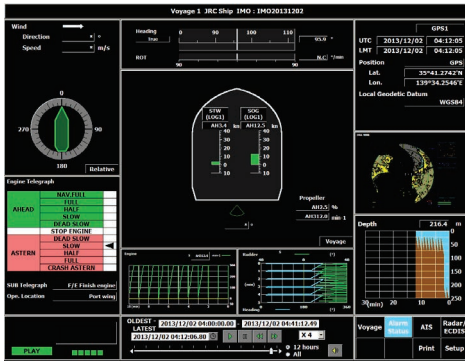
Tab	Corresponding Block	Note
Ship (Docking)	 The Ship (Docking) screen displays a central speedometer-like gauge with multiple scales. At the top, 'Bow' speed is 6.7 kt. Below it, 'SOG(LOG)' is 13.3 kt. At the bottom, 'Stern' speed is 5.4 kt. To the right, 'Bow Truster1' is 5.7 min-1. Below the gauge, 'Propeller' is 32.0 % and 13.3 min-1. A 'Docking' button is at the bottom right. A heading indicator shows 33.0 degrees.	
Radar	 The Radar screen shows a circular radar display with yellow returns on a black background. Various interface elements are visible around the perimeter, including range and bearing scales.	It is possible to display maximum 6 windows in the Radar screen.
Current / Wind	 The Current / Wind screen displays wind and current data. Wind direction is indicated by an arrow pointing right. Wind speed is in m/s. Current set and drift are also in m/s. A circular gauge at the bottom shows a green needle pointing towards 180 degrees, labeled 'Relative'.	
Voyage Info	 The Voyage Info screen displays GPS data. It shows UTC and LMT timestamps as 2014/01/31 06:26:11. Position is given as 35°41.2748'N, 139°34.2571'E. The local geodetic datum is WGS84.	

Chapter6 Playback Operation

(3/4)

Tab	Corresponding Block	Note
Depth Graph		· It is possible to change a graph range in addition to selection of visible and invisible. · It is possible to select “KEEL” mode or “WATER/TRANS/KEEL” mode.
Engine Graph		· Initially this block is not shown. If needed, change the dialog. · It is possible to change a graph range in addition to selection of visible and invisible.
Heading / Rudder		· It is possible to change a graph range in addition to selection of visible and invisible. · Initially this block is shown on the Voyage1 screen only.
Engine Telegraph		
Time Correction	—	· There is no corresponding block, but shows how to correct time.

(4/4)

Tab	Corresponding Block	Note
AIS		It is possible to change AIS target number and range in the AIS screen.
System	 Background: Blue (Default)  Background: Black	It is possible to select blue or black for background color. Default background color is blue.

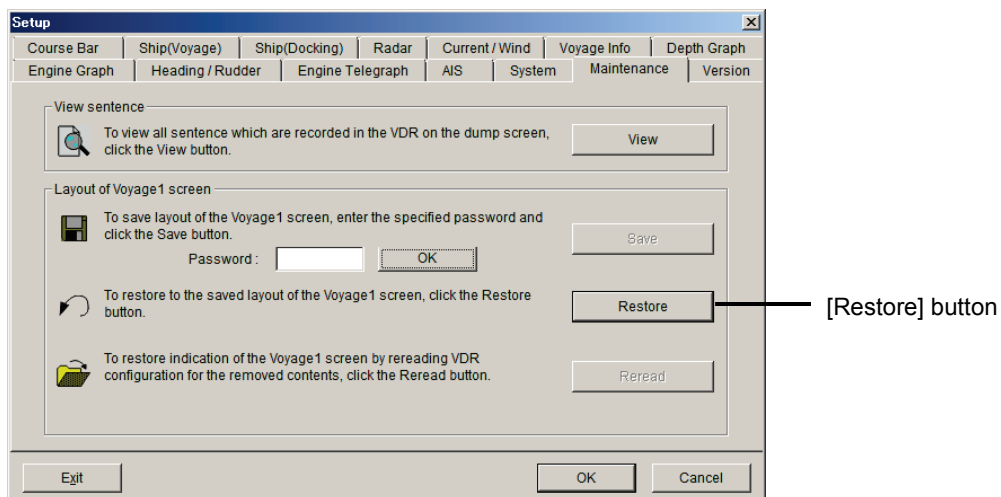
Chapter6 Playback Operation

6.17 How to restore to initial screen layout

It is possible to restore to initial screen layout by [Restore] button in the Maintenance tab.

If the Voyage1 screen is restored, click [Restore] button after opening the Voyage1 screen.

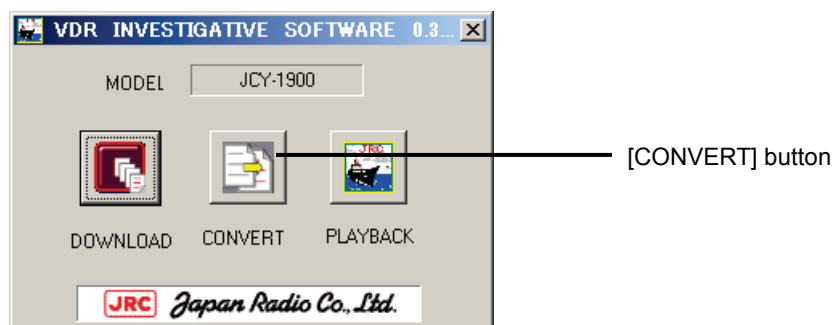
If the Voyage2 screen is restored, click [Restore] button on the Voyage2 screen.



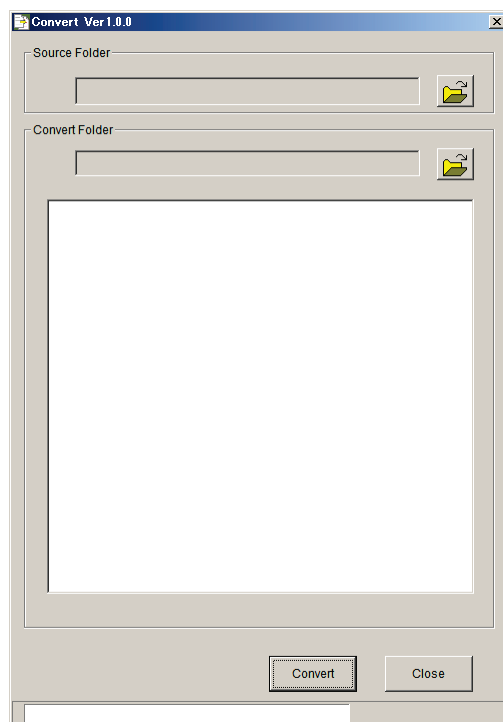
Chapter7 Converting Recorded Data into Industry Standard Formats

7.1 Starting Conversion software

- (1) Click [CONVERT] button, so that conversion software starts up.



- (2) Conversion software screen displays.



- (3) Method for conversion

Refer to Section 7.2, when converting all recorded data.

Refer to Section 7.3, when partially converting recorded data.

Chapter7 Converting Recorded Data into Industry Standard Formats

7.2 Convert all recorded data

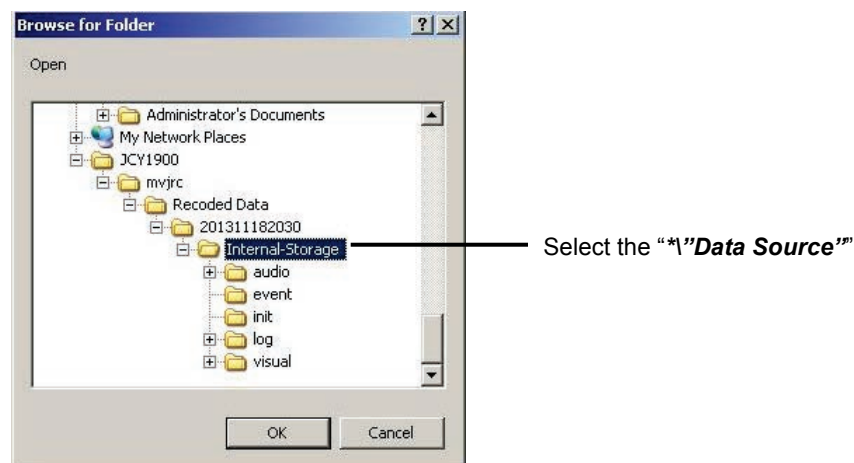
- (1) Click Folder Selection button in the “Source Folder,” and select “Data Source” folder in the folder that recorded data are saved.

*\YYYYMMDDhhmmss\”Data Source”

Recorded data folder

The folder specified at Chapter 4, Section 4.1 (7)

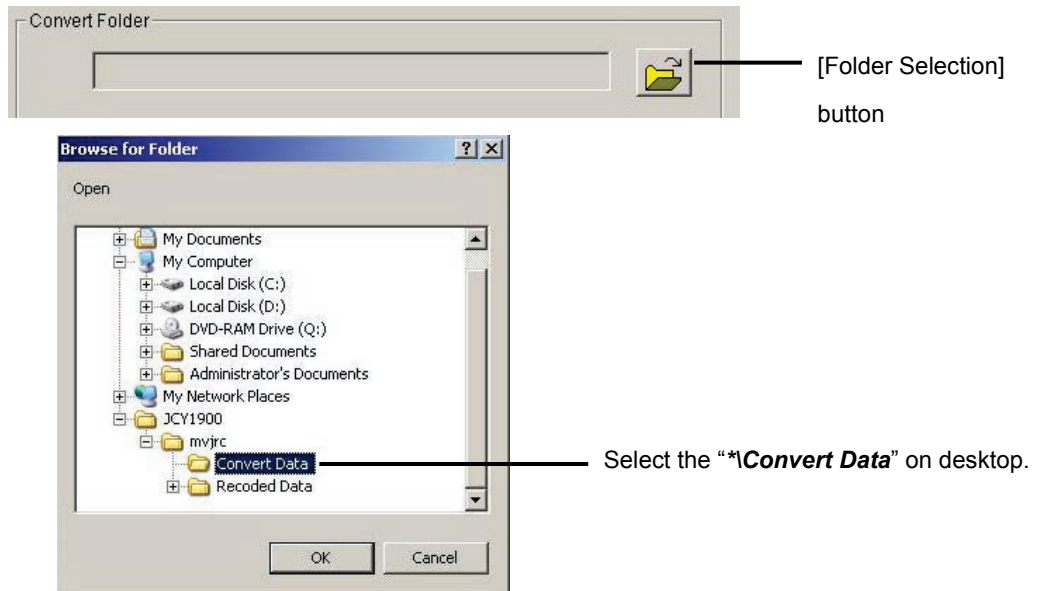
The name of data source
(Internal Storage, Float-free Capsule
or Fixed Protective Capsule)



- (2) Create any folder for saving converted files on desktop.
Here, "Convert Data" folder was created as an example.

Chapter7 Converting Recorded Data into Industry Standard Formats

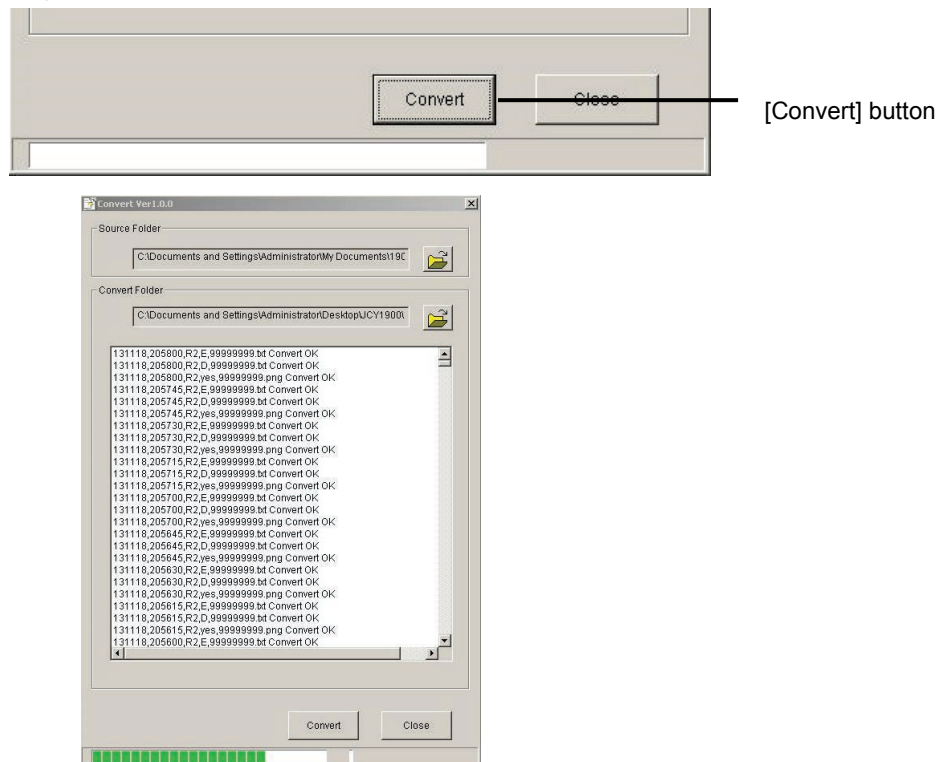
- (3) Click Folder Selection button in “Convert Folder”, and select “Convert_Data” folder as the destination of converted files.



- (4) Click [Convert].

When conversion starts, progress of conversion is indicated in progress bar.

Also, converted files are indicated in list box.



Chapter7 Converting Recorded Data into Industry Standard Formats

(5) Stop converting

Click [Cancel] button in order to stop converting.



7.3 Convert parts of recorded data

- (1) Click Folder Selection button in “Convert Folder”, and select “Convert Data” folder as the destination of converted files.



- (2) Drag and drop a part of recorded data into list box.

Recorded data that can be partially converted are single file, two or more files, single folder, or two or more folders.

When a folder is selected, all files in the folder are converted.

* Refer to next page for the example operation.

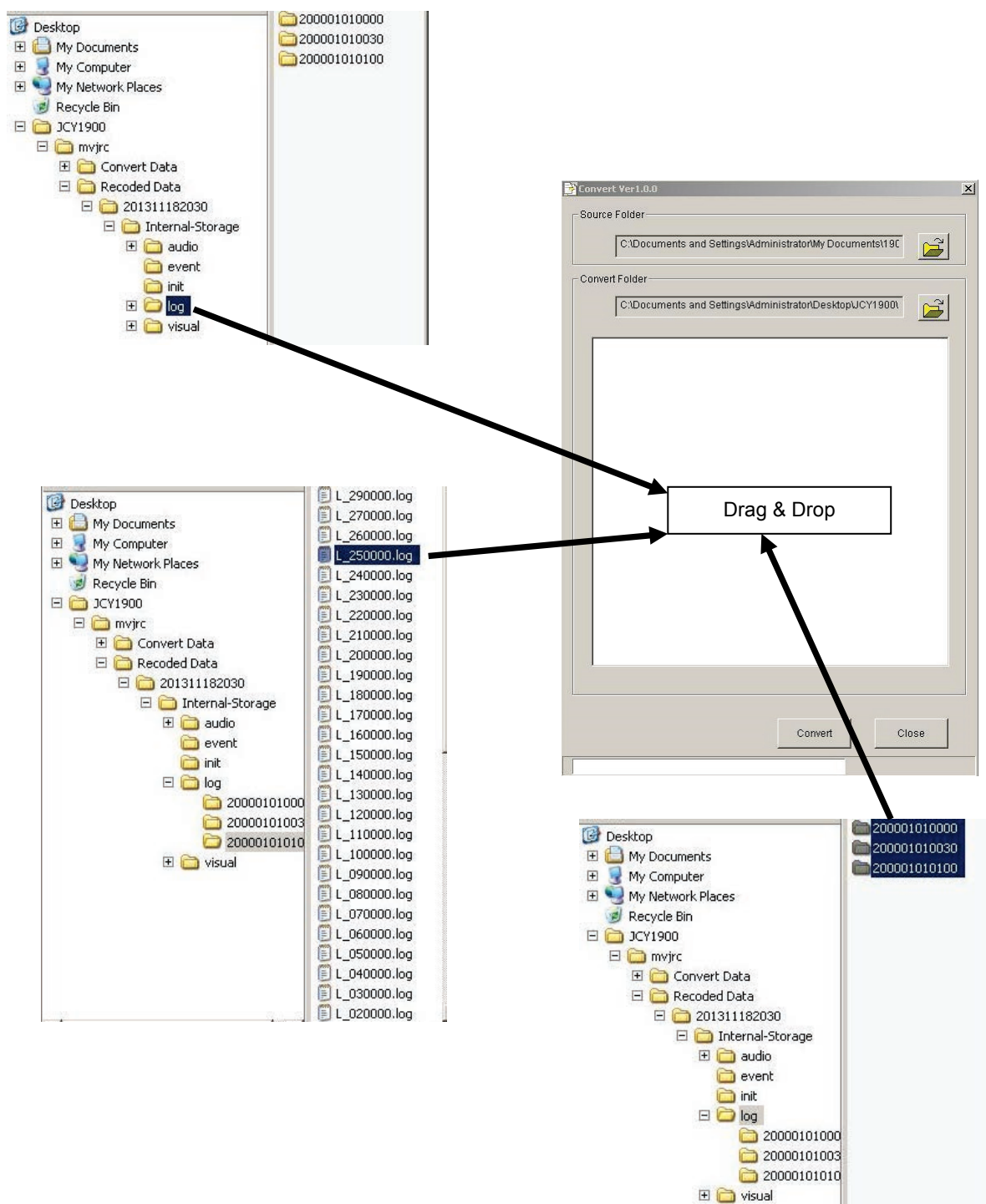
Note	When OS is after Windows Vista, to use the “drag & drop” operation cancel UAC (User Account Control).
------	---

- (3) Conversion starts automatically.

When conversion starts, the progress of conversion is indicated in progress bar.

Also, converted files are indicated in list box.

Chapter7 Converting Recorded Data into Industry Standard Formats



Note

When OS is after Windows Vista, to use the "drag & drop" operation cancel UAC (User Account Control).

Chapter7 Converting Recorded Data into Industry Standard Formats

7.4 Converted file (Industry Standard Formats files)

The Convert software creates the converted files as follows.

Data	File Name	Note
Configuration Information	YYMMDD,hhmmss, CF ,?????????. csv	
Digital Sensor Data	YYMMDD,hhmmss, DD ,?????????. txt	
Audio	YYMMDD,hhmmss, A1 ,?????????. wav	Mix MIC-CH1 and CH2,
	YYMMDD,hhmmss, A2 ,?????????. wav	Mix MIC CH3 and CH4
	YYMMDD,hhmmss, A3 ,?????????. wav	Mix MIC-CH5 and CH6
	YYMMDD,hhmmss, A4 ,?????????. wav	Mix MIC-CH7 and CH8
	YYMMDD,hhmmss, A5 ,?????????. wav	Mix MIC-CH9 and CH10
	YYMMDD,hhmmss, A6 ,?????????. wav	Mix MIC-CH11 and CH12
	YYMMDD,hhmmss, C1 ,?????????. wav	Mix VHF-CH1 and Ch2
	YYMMDD,hhmmss, C2 ,?????????. wav	Mix VHF-CH3 and CH4
Screen Display Image	YYMMDD,hhmmss, R1 ,?????????. png	Radar 1 Image
	YYMMDD,hhmmss, R2 ,?????????. png	Radar 2 Image
	YYMMDD,hhmmss, R3 ,?????????. png	Radar 3 Image
	YYMMDD,hhmmss, R4 ,?????????. png	Radar 4 Image
	YYMMDD,hhmmss, E1 ,?????????. png	ECDIS 1 Image
	YYMMDD,hhmmss, E2 ,?????????. png	ECDIS 2 Image
LAN Image Status and Information	YYMMDD,hhmmss, R1,DI ,?????????. txt	
	YYMMDD,hhmmss, R2,DI ,?????????. txt	
	YYMMDD,hhmmss, R3,DI ,?????????. txt	
	YYMMDD,hhmmss, R4,DI ,?????????. txt	
	YYMMDD,hhmmss, E1,DI ,?????????. txt	
	YYMMDD,hhmmss, E2,DI ,?????????. txt	
	YYMMDD,hhmmss, E1,EC ,?????????. txt	ECDS 1 Chart Information
	YYMMDD,hhmmss, E2,EC ,?????????. txt	ECDIS 2 Chart Information
Operational Performance test	YYMMDD,hhmmss, OP ,?????????. txt	
Logbook Data	YYMMDD,hhmmss, BB ,?????????. txt	

YYMMDD: Date

hhmmss: Time (UTC)

?????????: IMO No. ((If IMO number is not entered, automatically converts to "99999999".))

Chapter8 Trouble Shooting

If the Playback software may be not normal or occur a error, please confirm the contents of this chapter before contact us

No.	Symptom	Cause	Action
1	Download from the VDR/S-VDR is not possible.	Faulty wiring of LAN cable.	Check the connections.
2	Audios are not output.	Audio Volume of the Playback software may be set low, or muting may be set valid.	Please adjust volume level, or cancel muting.
		Audio Volume of Windows OS may be set low, or muting may be set valid.	Please adjust volume level, or cancel muting.

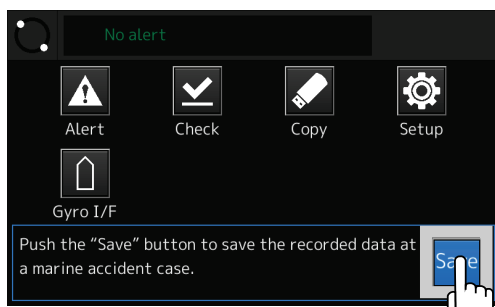
Blank Page

Chapter9 Appendix

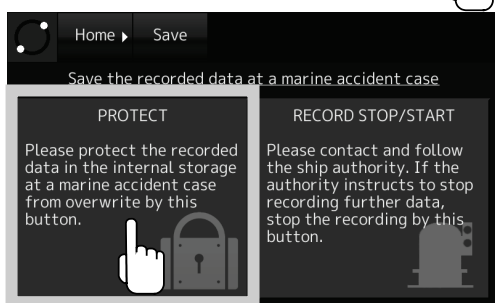
9.1 How to preserving recorded data

Note	· Follow the directions of the relevant authorities as to whether to stop or restart the data recording. · If the data recording is stopped, the recording to the Fixed Protective Capsule, the Float-free Capsule, and the Internal Storage stops.
------	---

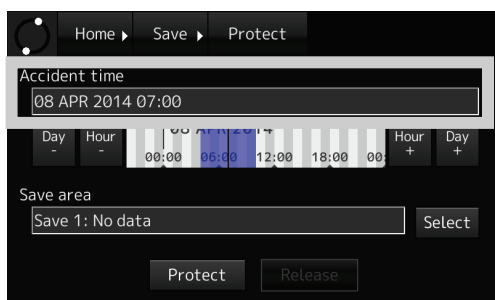
So that the VDR does not overwrite the recorded data, preserve the recorded data in the internal storage of RCU.



1) Tap the [Save] button in the HOME screen.



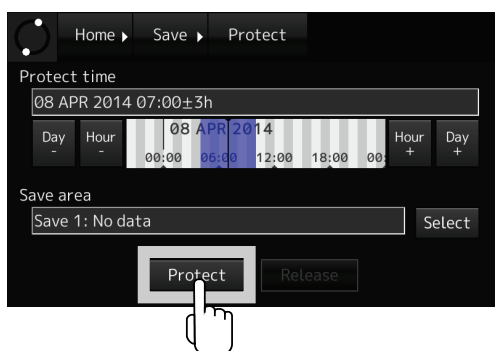
2) Tap the [PROTECT] button in the "Save the recorded data at marine accident case" screen.



3) Check that the UTC date and time of [Accident time] field in the DATA PROTECT screen is the current time.

[Information]

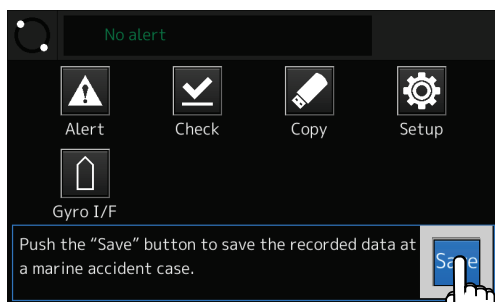
It is not usually necessary to change because the date and time is the current time.



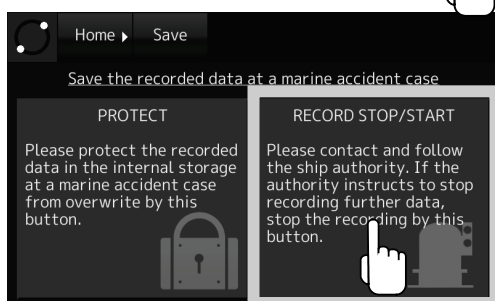
4) If the [Protect] button is tapped, the recorded data is preserved.

9.2.Stopping the data recording

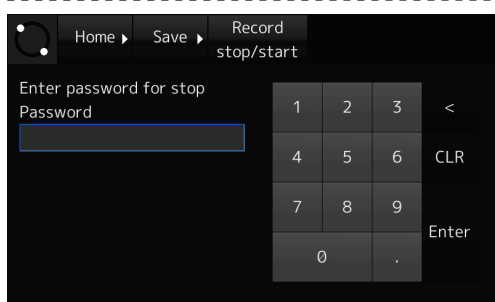
Stop the recording of data in the fixed protective capsule unit, float-free capsule unit, and internal storage of the RCU.



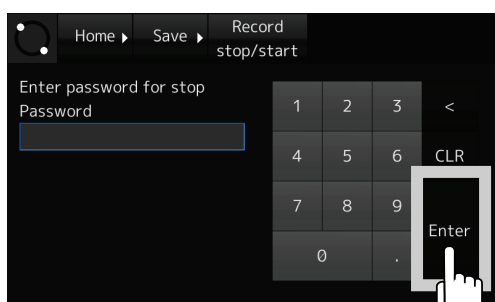
1) Tap the [Save] button in the HOME screen.



2) Tap the [RECORD STOP/START] button in the "Save the recorded data at marine accident case" screen.



3) Enter the password by the numeric keypad in the PASSWORD INPUT screen.



4) If the [Enter] button is tapped, the data recording stops.

Chapter9 Appendix

9.3 Sentence and indication place

(1/4)

Screen	Block	Section			Data		
					Indication	Unit	Sentence
Voyage1	Wind	True	Wind Direction		xxx.x	deg(°)	\$xxMWV
Voyage2			Wind Speed		xx.x	kts, m/s	
(Graphic)		Relative	Wind Direction		xxx.x	deg(°)	
			Wind Speed		xx.x	kts, m/s	
Rudder direction and heading	Rudder	Starboard		xxx.x	deg(°)	\$xxRSA	
		Port		xxx.x	deg(°)		
	Heading	True		xxx.x	deg(°)	\$xxHDT	
Heading	True			xxx.x	deg(°)	\$xxHDT	
Ship (Voyage)	STW (Water-reference)	[AS/AH]xx.x			kts	\$xxVBW	
		SOG (Ground-reference)			xx.x		kts
	Propeller	Pitch	Starboard	xxx.x	deg(°)	\$xxRPM	
			Port	xxx.x	deg(°)		
		Revolution	Starboard	xx	min-1	\$xxRPM	
			Port	xx	min-1		
	Rudder	Starboard		xxx.x	deg(°)	\$xxRSA	
		Port		xxx.x	deg(°)		
Ship (Docking)	Speed	Bow (The left and right in bow)		[P/S]xx.x	kts	\$xxVBW	
		SOG (Ground-reference)		[AS/AH]xx.x	kts		
		Stern (The left and right in stern)		[P/S]xx.x	kts		
	Thruster	Pitch		xxx.x	deg(°)	\$xxTRD	
		Revolution		xxx.x	min-1		
	Propeller	Pitch	Starboard	xxx.x	deg(°)	\$xxRPM	
			Port	xxx.x	deg(°)		
		Revolution	Starboard	xx	min-1	\$xxRPM	
			Port	xx	min-1		
	Rudder	Starboard		xxx.x	deg(°)	\$xxRSA	
		Port		xxx.x	deg(°)		

(2/4)

Screen	Block	Section	Data		
			Indication	Unit	Sentence
Voyage1 Voyage2 (Graphic)	Engine Telegraph	Telegraph Position	STOP ENGINE e.g.	---	\$xxETL
		SUB Telegraph	S/B, F/A, F/E e.g.	---	
		Ope.Location	Bridge, Port wing, Starboard wing e.g.	---	
		Propeller Cont.	Single, Starboard, Wing e.g.	---	
	Voyage Info	UTC	DD/MM/YYYY hh:mm:ss	---	\$xxZDA
		LMT	DD/MM/YYYY hh:mm:ss	---	
		Position	GPS, DGPS	---	\$xxGNS
		Lat.	xx° xx.xxx'[N/S]	---	
		Lon.	xxx° xx.xxx'[E/W]	---	
		Local Geodetic Datum	WGS84,WGS72 e.g.		\$xxDTM
		Steer. Mode	Auto/Manual		\$xxHTD
		Override	ON/OFF		
	Depth	Depth (Water/ Tran. / Keel)	xxx.x	m	\$xxDPT
VDR1 (Numeric)	Date and Time	UTC	DD/MM/YYYY	---	\$xxZDA
		LMT	DD/MM/YYYY	---	
	Ship's Position	Position	GPS, DGPS	---	\$xxGNS
		Lat.	xx° xx.xxx'[N/S]	---	
		Lon.	xxx° xx.xxx'[E/W]	---	
		Datum	WGS84,WGS72 e.g.		\$xxDTM
	Wind speed and Direction	True	Speed	xxx.x	\$xxMWV
			Direction	xx.x	
		Relative	Speed	xxx.x	
			Direction	xx.x	

Chapter9 Appendix

(3/4)

Screen	Block	Section			Data		
					Indication	Unit	Sentence
VDR1 (Numeric)	Depth	Offset from transducer			Depth(Water/Tran./ Keel)	---	\$xxDPT
		Depth			xxx.x	m	
	Heading	True			xxx.x	deg(°)	\$xxHDT
	Rudder order and response	Automatic	Order		xxx.x	deg(°)	\$xxHTC
			Response		xxx.x	deg(°)	\$xxHTD
		Manual	Location		Bridge, Port wing, Starboard wing e.g.	---	\$xxROR
			Order		xxx.x	deg(°)	
			Response Feedback	Port		xxx.x	deg(°)
		Starboard		xxx.x	deg(°)		
	Heading/Track control	Steering mode			Manual Steering /Stand alone /Heading Control /Track Control /Rudder Control	---	\$xxHTD
		Override			ON/OFF	---	
		Heading-to-steer			xxx	deg(°)	
	Engine order and response	Remote control order	Port	Revolution	xx	min-1	\$xxPRC
				Pitch	xxx.x	deg(°)	
			Starboard	Revolution	xx	min-1	
				Pitch	xxx.x	deg(°)	
		Propeller response	Port	Revolution	xx	min-1	\$xxRPM
				Pitch	xxx.x	deg(°)	
			Starboard	Revolution	xx	min-1	
				Pitch	xxx.x	deg(°)	

(4/4)

Screen	Block	Section			Data		
					Indication	Unit	Sentence
VDR2 (Numeric)	Speed Water and Ground	Log1/Log2	STW (Water-reference)		[AS/AH]xx.x	kn	\$xxVBW
			SOG (Ground-reference)		[AS/AH]xx.x	kn	
			Bow (The left and right in bow)		[P/S]xx.x	kn	
			Stern (The left and right in stern)		[P/S]xx.x	kn	
		GPS	SOG (Ground-reference)		[AS/AH]xx.x	kn	\$xxVTG
	Distance Water and Ground	Total Water Distance			xxx.x	NM	\$xxVLW
		Water Distance (since reset)			xxx.x	NM	
		Total Ground Distance			xxx.x	NM	
		Ground Distance (since reset)			xxx.x	NM	
	Thruster control order and response	Order	Bow	Revolution	xx	min-1	\$xxTRC
				Pitch	xxx.x	deg(°)	
			Stern	Revolution	xx	min-1	
				Pitch	xxx.x	deg(°)	
		Response	Bow	Revolution	xx	min-1	\$xxTRD
				Pitch	xxx.x	deg(°)	
			Stern	Revolution	xx	min-1	
				Pitch	xxx.x	deg(°)	
	Rolling motion	Heel angle			xxx.x	deg(°)	\$xxHRM
		Roll period			xxx.x	sec	
		Amplitude	Port		xxx.x	deg(°)	
			Starboard		xxx.x		
	Device Position	X coordinate			xx.x	m	\$xxPOS
		Y coordinate			xxx.x	m	
		Z coordinate			xx.x	m	
		Ship's Width			xx.x	m	
		Ship's Length			xxx.x	m	

Blank Page

アスベストは使用しておりません
Not use the asbestos

CODE No.7ZPNA4421

For further information, contact:



Japan Radio Co., Ltd.

Since 1915

URL <http://www.jrc.co.jp>

Marine Service Department

Telephone : +81-3-3492-1305

Facsimile : +81-3-3779-1420

e-mail : tmsc@jrc.co.jp

AMSTERDAM Branch

Telephone : +31-20-658-0750

Facsimile : +31-20-658-0755

e-mail : service@jrceurope.com

SEATTLE Branch

Telephone : +1-206-654-5644

Facsimile : +1-206-654-7030

e-mail : marineservice@jrcamerica.com

01ETM

ISO 9001, ISO 14001 Certified

©AUG. 2014 Edition 1 JRC

Printed in Japan