

OPERATOR'S MANUAL

LIVE PLAYER V5

Model

VR-7030

FURUNO ELECTRIC CO., LTD.

www.furuno.com



FURUNO ELECTRIC CO., LTD.

9-52 Ashihara-cho, Nishinomiya, 662-8580, JAPAN \bullet FURUNO Authorized Distributor/Dealer

All rights reserved. | Printed in Japan

Pub. No. OME-44851-H

(REFU) VR-7000 LIVE PLAYER

A : JUL. 2014 H : NOV. 02, 2020



0 0 0 1 7 9 3 5 0 1 7

IMPORTANT NOTICES

General

- This manual has been authored with simplified grammar, to meet the needs of international users.
- The operator of this equipment must read and follow the instructions in this manual.
- Wrong operation or maintenance can void the warranty or cause injury.
- Do not copy any part of this manual without written permission from FURUNO.
- If this manual is lost or worn, contact your dealer about replacement.
- The contents of this manual and the equipment specifications can change without notice.
- The example screens (or illustrations) shown in this manual can be different from the screens you see on your display. The screens you see depend on your system configuration and equipment settings.
- Save this manual for future reference.
- Any modification of the equipment (including software) by persons not authorized by FURUNO will void the warranty.
- The following concern acts as our importer in Europe, as defined in DECISION No 768/2008/EC.
 Name: FURUNO EUROPE B.V.
 - Address: Ridderhaven 19B, 2984 BT Ridderkerk, The Netherlands
- All brand, product names, trademarks, registered trademarks, and service marks belong to their respective holders.
- Pentium is a trademark of Intel Corporation in the U.S. and/or other countries.
- Windows, Microsoft Visual C++, and DirectX are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Ogg Vorbis is a registered trademark of the Xiph Organization.

How to discard this product

Discard this product according to local regulations for the disposal of industrial waste. For disposal in the USA, see the homepage of the Electronics Industries Alliance (http://www.eiae.org/) for the correct method of disposal.

How to discard a used battery

Some FURUNO products have a battery(ies). To see if your product has a battery, see the chapter on Maintenance. Follow the instructions below if a battery is used. Tape the + and - terminals of battery before disposal to prevent fire, heat generation caused by short circuit.

In the European Union

The crossed-out trash can symbol indicates that all types of batteries must not be discarded in standard trash, or at a trash site. Take the used batteries to a battery collection site according to your national legislation and the Batteries Directive 2006/66/EU.

In the USA

The Mobius loop symbol (three chasing arrows) indicates that Ni-Cd and lead-acid rechargeable batteries must be recycled. Take the used batteries to a battery collection site according to local laws.



In the other countries

There are no international standards for the battery recycle symbol. The number of symbols can increase when the other countries make their own recycle symbols in the future.

TABLE OF CONTENTS

FO	FOREWORDv			
1.	INS	TALLA	TION	1-1
	1.1	Installa	ble PC	1-1
	1.2	How to	Install the Live Player V5 and Set Up the PC	1-1
		1.2.1	Windows [®] 7	1-2
		1.2.2	Windows [®] 8.1	1-3
		1.2.3	Windows [®] 10	1-4
	1.3	How to	Connect a PC to the VR-7000/7000S	1-5
	1.4	How to	Start the Live Player V5	1-5
	1.5	How to	Uninstall the Live Player V5	1-6
		1.5.1	Windows [®] 7	1-6
		1.5.2	Windows [®] 8.1	1-6
		1.5.3	Windows [®] 10	1-6
2.	PLA	YER C	ONFIGURATION	2-1
	2.1	Display	/ Configuration	2-1
		2.1.1	Configuration overview	2-1
		2.1.2	Menu area, status area, control area	2-2
		2.1.3	View area	2-4
	2.2	How to	Create a New Configuration Page	2-5
	2.3	Making	a User-specified Graphical Form	2-8
		2.3.1	Arranging graphical sheet	2-8
		2.3.2	Configuration of graphical object	.2-10
		2.3.3	Compass sheet	.2-11
		2.3.4	Dial Meter and Dual Dial Meter sheets	.2-13
		2.3.5	Doppler (log) sheet	. 2-14
		2.3.6	Graph sheet	. 2-15
		2.3.7	Horizontal bar sheet	. 2-17
		2.3.8	Horizontal ruler sheet	. 2-18
		2.3.9	Wind direction sheet	. 2-19
		2.3.10	Numeric data display sheet	. 2-20
		2.3.11	Pitch and roll sheet	. 2-21
		2.3.12	Rudder sheet	. 2-22
		2.3.13	Vertical bar sheet	. 2-23
		2.3.14	Azimuth Promotion sheet	. 2-24
		2.3.15	Two Dimension Plotter sheet	. 2-25
		2.3.16	Color definition	. 2-26
		2.3.17	Formatter syntax	. 2-27
		2.3.18	[Radar/AIS] sheet	. 2-27
		2.3.19	Inclinometer Sheet	. 2-28
	2.4	Setting	of Data Source	. 2-30
	2.5	Saving	the Configuration	. 2-35
	2.6	When I	Live Player V5 Display Error Occurs	. 2-37
		2.6.1	How to clear the Java [®] cache	. 2-37
		2.6.2	How to reload the configuration	. 2-38
		2.6.3	How to change the OS font size setting	. 2-38

3.	EXT	RACTING, REPLAYING DATA	.3-1
	3.1	Reading the Data Recorded in the Long TermDevice	.3-1
		3.1.1 How to connect the replay PC to the Long Term Device	.3-2
	3.2	How to Extract Data from a Long Term Device or Save Area, Replay the Data on a PC	.3-4
		3.2.1 How to extract the data from a Long Term Device	.3-5
		3.2.2 How to extract the data from Save area	.3-7
		3.2.3 How to replay the data copied into the PC	.3-9
	3.3	How to replay Data and Extract the Data on an User Disk	3-10
		3.3.1 How to replay the data in the User Disk	3-10
		3.3.2 How to extract the data from a User Disk	3-11
4.	LIVI	E PLAY	.4-1
	4.1	Wiring	.4-1
	4.2	How to Display Data	.4-2
5	ΠΔΠ		5_1
υ.	5 1	Opening the Decoder Library	5_1
	5.2	Decoder Library	5-2
	5.3	Decoder Editor	.5-4
6	ΟΤΙ		6 1
0.		Alert Denun	6 1
	0.1	Settings for Alert	.0-1
	0.2	6.2.1 Buzzor sotting	.0-5
		6.2.2 Alert popula screep	.0-5
	63	Extraction of Recorded Data	6-6
	6.4	Audio Setting	.0-0. 6_8
	6.5	How to Set Password for Audio Reproduction	6-9
	6.6	How to Open the Sentence Information	6-9
	6.7	How to combine extracted data	.0 0 6-10
	0.1		5 .0
7.	LIVI	E PLAYER V5 BACKUP	.7-1
	7.1	Starting the Backup Process	.7-2
	7.2	Settings After Restart of Program	.7-3
	7.3	Replaying the Extracted Data	.7-3
8.	SEF	RIAL OUTPUT FOR OTHER APPLICATIONS	8-1
9.	AIS	DISPLAY	9-1
	9.1	Display Lavout	
	9.2	Target Symbols	.9-3
	9.3	Display Range	
	9.4	Own Ship Details Window (detailed information)	.9-4
	9.5	AIS Target Details Window	.9-5
	9.6	Message Logs	9-6
		9.6.1 RX message log	
		9.6.2 TX message log	.9-7
10		CONFIGURATION	10_1
10.	10 1	How to Confirm the VDR Configuration	10_1
	10.1	Configuration File in the PC	10_1

11. REMOTE PLAYBACK SETTING (LAND-SHIP COMMUNICATION)	11-1
11.1 Preparations	11-1
11.2 Limitations and Notifications	
11.3 Communication speed measuring	11-2
11.4 Live (Remote) Replay	
11.4.1 Connection on Live (Remote) Replay	
11.4.2 Live (Remote) Replay settings	11-4
11.4.3 Live (Remote) data conversion	11-8
11.5 Data extraction on remote connection	11-9
11.5.1 How to extract the data on remote connection	
11.5.2 How to resume the extraction	11-11
APPENDIX 1 MENU TREE	AP-1
APPENDIX 2 MATERIALS FOR PLAYBACK	AP-2

FOREWORD

A Word to the Owner of the Live Player V5 VR-7030

FURUNO Electric Company thanks you for purchasing the Live Player V5 VR-7030. We are confident you will discover why the FURUNO name has become synonymous with quality and reliability.

Since 1948, FURUNO Electric Company has enjoyed an enviable reputation for quality and reliability throughout the world. This dedication to excellence is furthered by our extensive global network of agents and dealers.

Please carefully read and follow the operation procedures set forth in this manual to obtain the best performance from this equipment.

Thank you for considering and purchasing FURUNO.

Features

This Live Player V5 is a software program that installs in a PC, and functions to monitor and playback the data collected in the VR-7000/7000S's DRU, Long Term Device.

Notes on usage

Observe the notices shown below to prevent malfunction.

- Do not connect the Live Player to a DRU (Fixed, Float-free) during recording. Data may not be correctly recorded to the DRU. Further, do not extract data from a DRU during recording.
- Live Player software with program versions earlier than those listed below cannot be installed on the same PC.
 - VR-3000/S: Version 1.41
 - VR-7000/S: Version 1.04

Uninstall software except for the above-mentioned program versions. Confirm that software versions are compatible before installing new Live Player software. Where both Live Player V4 and Live Player V5 are installed on the same PC, to use Live Player V5 after using Live Player V4, restart the PC before starting Live Player V5. A restart is not required when using Live Player V4 after using Live Player V5.

• The screenshots shown in this manual were taken on a Windows[®]7 based PC. The screens you see may be different depending on your PC's OS.

Open Source Software

This product includes software to be licensed under the GNU General Public License (GPL), GNU Lesser General Public License (LGPL), BSD, Apache, MIT and others. The program(s) is/are free software(s), and you can copy it and/or redistribute it and/or modify it under the terms of the GPL or LGPL as published by the Free Software Foundation. Please access to the following URL if you need source codes: https://www.furuno.co.jp/cgi/cnt_oss_e01.cgi

Reverse engineering

Reverse engineering (reverse assemble, reverse compiler) of the software of this equipment is strictly prohibited.

However, reverse engineering is permitted under the following conditions:

- The library used for the reverse engineering (GNU Library General Public License Version 2, GNU Lesser General Public License Version 2.1, or later editions) is clearly noted.
- The reverse engineered software is used only within the scope outlined under the appropriate license.

1. INSTALLATION

The Live Player V5 is a software program that installs in a PC, and functions to monitor and playback the data collected in the VR-7000/7000S's DRU, Long Term Device. Install the Live Player V5 in a PC using the accessory CD.

This chapter provides the description for the installable PC and how to install the program and set the PC.

1.1 Installable PC

The Live Player V5 is compatible with the OS (Operating System) shown below. The OS language should be English or Japanese. The Live Player V5 may not operate properly on the PC with other OS and language.

- Windows®10 (64 bit)
- Windows[®]8.1 (32bit, 64 bit)
- Windows[®]7 (32bit, 64 bit)

Required specifications for replay PC

- CPU: Pentium 350 MHz (or equivalent) or higher
- RAM: Minimum 1 GB
- HDD: Minimum 250 GB
- Screen resolution: XGA or higher (More than SXGA (1280x1024) recommended)
- CD-ROM drive (internal or external)
- LAN port
- USB port (2.0 compatible)
- DirectX[®]9.0c or higher
- Java[®] (If there is no Java[®] in the PC, download and install the Java[®] program from the Internet.)
- Microsoft[®] Visual C++[®] 2005 SP1 (x86) or later.

Note: Before you connect a PC to the VDR, set the IP address and subnet mask on the PC.

1.2 How to Install the Live Player V5 and Set Up the PC

The software program for the Live Player V5 is included in the program CD. Follow the appropriate procedure, depending on your OS. The procedure is comprised of the following three steps.

- · Install the software.
- Set the IP address and subnet mask of the PC.

Note: The Live Player V5 version 1.20 (or later) is not compatible with version 1.10(or earlier). Therefore, the program CD has install programs for both Live Player V5 latest version and version 1.10(or earlier). If the Live Player V5 version 1.10(or earlier) has

been installed in your PC, uninstall the Live Player V5 before installing the latest version.

Firewall software block setting

Confirm that "JAVA (TM) Platform SE binary" is not blocked by the Firewall. If blocked, enable "JAVA (TM) Platform SE binary". When "JAVA (TM) Platform SE binary" is blocked, the Live Player V5 cannot connect with the VDR.



To confirm the firewall settings, open the [Windows Firewall with Advanced Security] dialog box as follows:

- Windows[®]7: [Start] button > [Control Panel] > [Windows Firewall] > [Advanced settings] > [Inbound Rules]
- Windows[®]8.1: Open the desktop > Move the mouse pointer to the bottom right edge of the screen > [Settings] > [Control Panel] > [System and Security] > [Windows Firewall] > [Advanced settings] > [Inbound Rules]
- Windows[®]10: [Start] button > [All Apps] > [Windows System] > [Control Panel] > [System and Security] > [Windows Firewall] > [Advanced settings] > [Inbound Rules]

1.2.1 Windows[®]7

Install the software

- 1. Insert the supplied program CD into the CD drive.
- 2. Run "view.exe" on the program CD to show the [Setup-VR-7000] dialog box.
- 3. Click the [Next] button.
- 4. Confirm that the install location is "C:\Program Files*\FURUNO" then click the [Next] button. * Folder name for 32 bit. "Program Files(x86)" for 64 bit.
- 5. Click the [Yes] button.
- 6. Click the [Next] and [Install] buttons to install the software.
- 7. After the installation is completed, the message "Yes, restart computer now" is checked. Click the [Finish] button to complete the installation and restart the PC.

Set the IP address and subnet mask

- 1. Click the [Start] button then click [Control Panel].
- 2. In the search box, type adapter.
- 3. Under [Network and Sharing Center], click [View network connections].
- 4. Right click the connection to change, and then click [Properties].

- 5. Click the [Networking] tab. Under [This connection uses the following items], click [Internet Protocol Version 4 (TCP/IP v4)] then click [Properties].
- 6. Click the [Use the following IP address] button.
- 7. Enter the IP address and subnet mask of the PC. If you do not know the connection port, contact a FURUNO agent or dealer. <u>Port J502 (DATA) of DCU is connected to port J17</u>: IP address: 172.31.16.201 or 172.31.16.202 Subnet mask: 255.255.0.0 **Note**: The IP address of the VR-7000/7000S is 172.31.16.200. <u>Port J502 (DATA) of DCU is connected to port J26</u>: IP address: 10.0.0.101 or 10.0.0.102 Subnet mask: 255.0.0.0 **Note**: The IP address of the VR-7000/7000S is 10.0.0.100.
- 8. Click the [OK] button and then click the [Close] button.
- 9. Restart the PC.

1.2.2 Windows[®]8.1

Install the software

- 1. Insert the supplied program CD into the CD drive.
- 2. Run "view.exe" on the program CD to show the [Setup-VR-7000] dialog box.
- 3. Click the [Next] button.
- 4. Confirm that the install location is "C:\Program Files*\FURUNO" then click the [Next] button. * Folder name for 32 bit. "Program Files(x86)" for 64 bit.
- 5. Click the [Yes] button.
- 6. Click the [Next] and [Install] buttons to install the software.
- 7. After the installation is completed, the message "Yes, restart computer now" is checked. Click the [Finish] button to complete the installation and restart the PC.

Set the IP address and subnet mask

- 1. Move the mouse cursor to the bottom or top right corner of the screen and select the cog icon for [Settings].
- 2. Select [Control Panel].
- 3. In the [Control Panel] window, select [Category] and then select Large or Small icons.
- 4. Select [Network and Sharing Center].
- 5. Select [Change adapter settings].
- 6. Right click on your connected network and select [Properties].
- 7. Select [Internet Protocol Version 4 (TCP/IP v4)] then click [Properties].
- 8. Click the [Use the following IP address] button.
- Enter the IP address and subnet mask of the PC. If you do not know the connection port, contact a FURUNO agent or dealer. <u>Port J502 (DATA) of DCU is connected to port J17</u>: IP address: 172.31.16.201 or 172.31.16.202 Subnet mask: 255.255.0.0 **Note**: The IP address of the VR-7000/7000S is 172.31.16.200.

Port J502 (DATA) of DCU is connected to port J26: IP address: 10.0.0.101 or 10.0.0.102 Subnet mask: 255.0.0.0 **Note**: The IP address of the VR-7000/7000S is 10.0.0.100.

- 10. Click the [OK] button and then click the [Close] button.
- 11. Restart the PC.

1.2.3 Windows[®]10

Install the software

- 1. Insert the supplied program CD into the CD drive.
- 2. Run "view.exe" on the program CD to show the [Setup-VR-7000] dialog box.
- 3. Click the [Next] button.
- 4. Confirm that the install location is "C:\Program Files(x86)\FURUNO" then click the [Next] button.
- 5. Click the [Yes] button.
- 6. Click the [Next] and [Install] buttons to install the software.
- 7. After the installation is completed, the message "Yes, restart computer now" is checked. Click the [Finish] button to complete the installation and restart the PC.

Set the IP address and subnet mask

- 1. Right-click on the icon in the bottom-left corner of the screen to open the [Quick Access] menu.
- 2. Click the [Control Panel] option on the [Quick Access] menu to open the [Control Panel].
- 3. In the [Control Panel] window, select [Category] and then select Large or Small icons.
- 4. Select [Network and Sharing Center].
- 5. Select [Change adapter settings].
- 6. Right click on your connected network and select [Properties].
- 7. Select [Internet Protocol Version 4 (TCP/IP v4)] then click [Properties].
- 8. Click the [Use the following IP address] button.
- 9. Enter the IP address and subnet mask of the PC. If you do not know the connection port, contact a FURUNO agent or dealer. Port J502 (DATA) of DCU is connected to port J17: IP address: 172.31.16.201 or 172.31.16.202 Subnet mask: 255.255.0.0 Note: The IP address of the VR-7000/7000S is 172.31.16.200. Port J502 (DATA) of DCU is connected to port J26: IP address: 10.0.0.101 or 10.0.0.102 Subnet mask: 255.0.0.0 Note: The IP address of the VR-7000/7000S is 10.0.0.100.
- 10. Click the [OK] button and then click it again on the next screen.
- 11. Restart the PC.

1.3 How to Connect a PC to the VR-7000/7000S

Open the door on the cover of the DCU. Connect the LAN cable (supplied) between the DATA port J502 in the DCU and the LAN port on the PC.



1.4 How to Start the Live Player V5

Select the Live Player V5 program version according to the VDR program version. When the Liver Player V5 program version is not compatible with the VDR program version, the Liver Player V5 does not work properly.

- When the VDR program version is "01.20" or later: Use the latest version of Live Player V5 ([Live Player V5 (xx.xx)] (xx.xx: 01.20 or later).
- When the VDR program version is "01.10" or earlier: Use the Live Player V5 version 01.10 ([Live Player V5 OLD (01.10)]).

How to start the latest version of Live Player V5

- Windows[®]7: [Start] button > [All Programs] > [VR-7000] > [Live Player V5 (xx.xx)] (xx.xx: 01.20 or later).
- Windows[®]8.1: [Start] screen > Right click a blank part of screen then select [All Apps] > click "VR-7000" > [Live Player V5 (xx.xx)] (xx.xx: 01.20 or later).
- Windows[®]10: [Start] menu > [All Apps] > [VR-7000] > [Live Player V5 (xx.xx)] (xx.xx: 01.20 or later).

How to start the Live Player V5 version 01.10

- Windows[®]7: [Start] button > [All Programs] > [VR-7000 Previous Version] > [Live Player V5 OLD (01.10)]
- Windows[®]8.1: [Start] screen > Right click a blank part of screen then select [All Apps] > click [VR-7000 Previous Version] > [Live Player V5 OLD (01.10)]
- Windows[®]10: [Start] menu > [All Apps] > [VR-7000 Previous Version] > [Live Player V5 OLD (01.10)]

Note 1: When one of the following symptoms occurs, reboot the Live Player.

• A Java[®] related error occurs and Live Player shuts down.

- The Live Player shuts down when maximizing or minimizing a dialog box.
- The track list does not appear (source selected from [Source Select] window; [Analyze] button clicked) after several minutes.

Note 2: If the PC requests a restart while the Live Player is starting up, restart the PC.

Note 3: If there is audio or video in Live play on [Multicast], activate [Network Interface Select] checkbox on the [Source Select] dialog box, then select the LAN port that is connected with the VR-7000/S.

1.5 How to Uninstall the Live Player V5

Login as the administrator to uninstall the Live Player.

1.5.1 Windows[®]7

- 1. Click [Start] button > [Control Panel] > [Programs] > [Programs and Features].
- 2. Select "VR-7000" then click [Uninstall].
- Delete the VR-7000 folder saved in the [My Computer] > [Local Disk (C:)] > [Program Files*\FURUNO] folder. *: Folder name for 32 bit. "Program Files(x86)" for 64 bit.

1.5.2 Windows[®]8.1

- Hover the cursor in the bottom-left corner of the screen until a small image of the Start Screen appears, then right-click on the icon to open the [Start Context] menu. Select [Programs and Features] menu then [Select Programs and Features].
- 2. Select "VR-7000" then click [Uninstall].
- Delete the VR-7000 folder saved in the [My Computer] > [Local Disk (C:)] > [Program Files*\FURUNO] folder. *: Folder name for 32 bit. "Program Files(x86)" for 64 bit.

1.5.3 Windows[®]10

- 1. Click on the icon in the bottom-left corner of the screen, then select the [Settings] menu. Click the [System] menu then the [Apps & features].
- 2. Select "VR-7000" then click [Uninstall].
- Delete the VR-7000 folder saved in the [My Computer] > [Local Disk (C:)] > [Program Files(x86)\FURUNO] folder.

2. PLAYER CONFIGURATION

The user can configure the layout and the data to display. The configuration can be saved and copied as a file, which can be loaded to another PC to share the same layout. In addition, the configuration can be saved in a capsule for use as the default layout for replay and live play.

2.1 Display Configuration

2.1.1 Configuration overview

D	isplay title area
	Menu area
Status area	Control area
	Data tabs
	View area
Connection	information display area

Display title area: The application name appears here.

• For version 1.20: Live Player V5 (Version 2450)

Menu area: The system menu.

Status area: Shows common data (FURUNO logo, time at DCU, etc.). The time at the VDR is updated at regular intervals.

Control area: The operation buttons related to the contents of the view area appear here.

View area: Select the data to show with the data tabs.

Connection information display area: VDR status is displayed.

2.1.2 Menu area, status area, control area



No.	ltem	Description
Men	u area	
1	Menu	[File]: [Open VDR Config]: Opens the VDR configuration.[Exit]: Exits the
		application.
		[100]:[Source Select]: Shows the [Source Select] dialog box.
		[Volume]. Shows the [Audio Volume] dialog box.
		[Extract]. Shows the [Extract] dialog box. [Analyza]: Shows the [Extractor Analysis] dialog box
		[Combine extracted data]: Shows the [Combine extracted data] dialog box.
		(See section 6.7).
		[Live (Remote) Data Export]: Shows the [Live (Remote) Data Export] dialog
		box (See section 11.4.3).
		[Live(Remote) Data Clear]: Clears the data replayed in Live (Remote) Re-
		play.
		[Alert Display]: Shows the [Alert Popup] dialog box.
		[Buzzer Setting]: Shows the [Buzzer Setting] dialog box.
		[Alert Popup]: Sets the alert popup on or off.
		[Audio]: Sets the audio reproduction on or off.
		[Password]: Shows the [Password Setting] dialog box.
		[Serial Output]: Shows the [Serial Output]dialog box.
[Backup]: Shows the [Backup] dialog box.		[Backup]: Shows the [Backup] dialog box.
		VDR (PDF format).
		[Measuring for network quality]: Shows the [Measuring for network quality]
		[Configuration] [Configuration Mode]: Turns the configuration mode on or
		off.[Sheet]: Shows the [Sheet list].[Decoder library]: Shows the [Decoder Li-
		brary List]. [Alert definition list]: Shows the [Alert Definition List].[Viewer con-
		figuration management]: Shows the [Viewer Config Management]. [VDR
		Config]: Shows the [VDR Config].[Backup Configuration File Clear]: Clears
		the configuration downloaded by Live (Remote) Replay function (See
		section 11.4.1).
-		[Help] [About]: Displays the program version information.
Statu	us area	
2	System time, local time	System time and local time.
3	Product name	Display VR-7000 or VR-7000S.
4	RAP STATUS	Alert status is shown with colored and lighting or flashing lamps.
		[NORMAL]: Lights green when there are no unacknowledged or unrectified
		alerts.
		[ALERT]: Lights or flashes red for unacknowledged or unrectified alert.
		Alert status and lamp state and color:
		Unacknowledged alert: Flashes red.
		Unrectified alert: Lights red.
		Unacknowledged but rectified alert: Flashes red.

No.	ltem	Description
5	POWER	[BATT]: Battery status appears.
	STATUS	[AC]: AC power status.
		For either indicator: Light on (Green): Power on, Light off: Power off
Cont	rol area	
6	Track control panel	 Selects the track to playback. Replace the played back track with one track number younger than the played back track. Track: Display currently selected track number. "-" appears when no track is selected. Replace played back track with next sequential track.
7	Play control panel	Control track playback. For the 8x playback speed, asterisks may appear in the data. This is not a sign of malfunction. If necessary, lower the playback speed to remove the asterisks. x 1.0 ▼: Select playback speed. ■: Stop playback. ▶: Play back data. ■: Pause playback.
8	Time panel	Display various times. Start time : Display the time when the recording of the selected track start- ed. Play time : Display the time from the Start time to the End time of the track currently being played back End time : Display the time when the recording of the currently played back track was stopped.
9	Time control	Set the start time for playback. The time at the slider position appears in the time panel.
10	[Play Setting] button	Click this button to adjust live (remote) replay settings (see section 11.4.2). This button is shown at the right of Control area in Live (Remote) connection.

2. PLAYER CONFIGURATION

2.1.3 View area

The items shown in the view area changes according to the mode selected, with [Source Select] in the [Tool] menu.



No.	Item	Function
1	Mode drop-down list	There are two main modes (Live and Extract (Play- back)) and seven sub modes (Fixed DRU, Float DRU, Long Term Device (Direct), Long Term Device (LAN), and User Disk (USB), Long Term Device (Save Area), Live (Remote)).
2	[Automatically download and load Viewer Configu- ration] checkbox	Check this checkbox to download viewer configura- tion from the connection source (DCU or DRU). It can also be used for playback. Previously downloaded configuration is written over each time new configuration data is downloaded. If the configuration data is incorrect, an error mes- sage appears and no downloading occurs.
	[Automatically download and load Sentence Infor- mation] checkbox	Check this checkbox to download the sentence infor- mation (PDF file) from the DCU. If the sentence infor- mation is not saved, it cannot be downloaded.
3	[Mode Select] button	This checkbox appears only when [Live] is selected from the mode drop-down list. Select [Multicast] when performing live playing with multiple Live Play- er V5. Select [Unicast] when performing live play- back with one Live Player V5.
4	[Network Interface Select] checkbox	If the audio or video are not replayed in Live play, ac- tivate this checkbox, then select the LAN port that is connected with the VR-7000/S. Note: This checkbox appears only when [Live] is se- lected from the mode drop-down list. The checkbox is available when [Multicast] is selected.

No.	ltem	Function
5	Launch configuration	The dialog box appears at the start up of the applica- tion. Check this box to hide the dialog box at start up.
6	[Connect] button	Click the button to connect to the VDR/Long Term Device. If the connection could not be made, an error message appears. After the connection is made the base display for the mode selected appears.
7	[Cancel] button	Click the button to finish current display and return to the base display.

2.2 How to Create a New Configuration Page

Do the procedure in this section to create a new player configuration page. The window title bar complies with the general standard for Microsoft GUI.

Note 1: Stop Replay or Live Play before creating a new player configuration page. If the LAN cable is disconnected, Replay or Live Play stops, however they are still active. In this case, restart the Live Player V5 and create a new player configuration page.

Note 2: A part of the conning display may be hidden when scrolling the display. If this occurs, change the component placement.

- 1. Start the Live Player V5.
- 2. Click the [Cancel] button in the [Source Select] dialog box.
- Click [Configuration] > [Configuration Mode] > [ON]. The program provides the following data sheet. However you can make a customer's data sheet. Proceed to step 4.



2. PLAYER CONFIGURATION

4. Click [Configuration] > [Sheet] to show the [Sheet List] dialog box.



5. Click the [Add] button to show the [Sheet Property] dialog box.

Sheet Property	X
Sheet Icon	Title
Sheet Type	
DefaultEmptySheet (1280x102	24) ▼
	OK Cancel

6. Select a tab icon from the [Sheet Icon] drop-down list as appropriate.



7. Enter a name for the tab in the [Title] field.

8. Select a suitable template for the page layout from the [Sheet Type] drop-down list, and the template selected appears in the [Example] window.

 DefaultEmptySheet (1280×1024)/ DefaultEmptySheet (1920×1200)/ DefaultEmptySheet (3840×2180)
 FullSetSheet (1280×1024)
 Provides a preset graphical objects.

Note 1: Do not use two or more data sheets whose page size is 1920×1200 or 3840×2180.

Note 2: When you select [DefaultEmptySheet (3840×2180)], use a monitor whose screen size is 42 inch or more. If you use a monitor whose screen size is small to display the high resolution image, the text size on the monitor may be small.

Sheet Property
Sheet Icon Iitle dot Test
Sheet Type FullSetSheet (1280x1024)
Example :
OK Cancel

Example: FullSetSheet (1280×1024)

- 9. Click the [OK] button to close the [Sheet Property] dialog box.
- 10. Click the [OK] button to close the [Sheet List] dialog box. The new tab appears at right side of the tab list.



11. Go to the next section to set each data box.

2.3 Making a User-specified Graphical Form

2.3.1 Arranging graphical sheet

To create a graphical form, do as follows:

- 1. Right click on an empty panel to show the context-sensitive menu.
- 2. Click the [Add] button to show the [Component Select] dialog box.



3. Click the arrow on the drop-down list and select (click) the object desired you wish to display. In the example shown below, [CompassSheet] is selected.



4. Click the [OK] button. In the example shown below, the compass sheet is displayed.



5. Right click on an empty panel again to show the panel menu and repeat steps 2 to 4 to select other objects. There are 15 objects: [Compass Sheet], [Dial Meter Sheet], [Doppler Log Sheet], [Dual Dial Meter Sheet], [Graph Sheet], [Horizontal Bar Sheet], [Horizontal Ruler Sheet], [Wind Direction Sheet], [Numeric Data Display Sheet], [Pitch and Roll Sheet], [Rudder Sheet], [Vertical Bar Sheet], [Radar/AIS], [Radar/AIS (900×690)], [Radar/AIS (1200×920)], [Azimuth Promotion Sheet], [Two Dimension Plotter Sheet] and [Inclinometer Sheet].

Panel layout

The position of a sheet can be changed. Locate the pointer on a sheet and drag-and-drop it.



2.3.2 Configuration of graphical object

There are 16 objects. Configure each graphical object as described in the next several sections. To display each [Component Properties] dialog box, right click each object and select [Property]. To show input signal data, set various items in the [Property] dialog box. However, the Radar/AIS sheet has no items to set.



2.3.3 Compass sheet

<u>General tab</u>

Component Properties	×
General Compass	
Title	
Gauges	
V Show Component	
	OK Apply Close

The leftmost tab on any sheet is called the [General] tab, and it contains the parameters common to all graphical objects.

[Title]:

Enter text that is displayed in the graphical object.

[Gauges]:

Check the check box to enable the display of gauges defined for that graphical object. (This setting is invalid for Two Dimension Plotter Sheet.)

[OK] button:

After setting all items, click the button to finish configuring all objects.

[Apply] button:

Show effect after setting.

[Close] button:

Close the sheet.

Compass tab

Component Properties		
General Compas	5	
Scale		
Format	: 0	
Sources		
Primary	: Source Disabled Setup	
Secondary	: Source Disabled Setup	
Colors Primary Seconda	Indicator Color Set to Default ry Indicator Color	
	OK Apply Close	

[Scale]:

[Format]: Define the format of the figures on the compass dial. See section 2.3.17.

[Sources]:

[Primary]: Select the primary data source to control the rotation of the compass dial. [Secondary]: Select the secondary data source (optionally) to control the small triangle circling on the compass dial.

Click the [Setup] button to display the source setting dialog box.

Open the [Analog], [Digital], [Sensor (LAN)] or [Serial] tab according to the input signal connected.

For the compass sheet, open the [Serial] tab and set HDG or HDT to show ship's heading data.

[Colors]:

The parameters in this window control the appearance of the dial meter. The [Set to Default] resets all the colors to the default definition. See section 2.3.16.

2.3.4 Dial Meter and Dual Dial Meter sheets

The setting of the [General] tab is similar to that shown in section 2.3.3.

Dial Meter tab

Component Properti	es
General Dial Meter	
Labels	
Dial Title	:
Unit	:
Scale	
Start Value	: -100
End Value	: 100
Format	: 0
Angle	: 270 💌
Rotation	: 0 •
Scale Resolution	COARSE 💌
🔲 Show Mathemati	cal Sign
Sources	
Primary	: Source Disabled Setup
Secondary	: Source Disabled Setup
Colors	
Primary Indi	cator Color 📃 Positive Scale Color
Secondary Ir	ndicator Color Megative Scale Color
Peak Indicat	or Color Set to Default
	OK Apply Close

[Labels]:

[Dial Title]: Text located immediately over the dial meter. [Unit]: Text located inside the dial.

[Scale]:

This window contains the parameters for controlling the geometry and resolution of the dial.

[Start Value]: The start value corresponds to the most counterclockwise point on the dial. [End Value]: The end value corresponds to the most clockwise point on the dial. [Format]: Define the format of the figures on the dial, see section 2.3.17.

[Angle]: Define the extent of the dial.

[Rotation]: In default setting, the dial will be oriented like a typical speedometer in a car. The operator may change the orientation by selecting a value other than 0 from the drop-down list.

[Scale Resolution]: Select scale resolution.

[Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.



Example of settings for dual dial meter

[Sources]:

[Primary]: Input to the pointer for the dial meter.

[Secondary]: Input to the secondary indicator for the dial meter. The secondary indicator is shown as a small triangle. The secondary indicator is typically used for displaying the "commanded value" while the main indicator shows the actual value.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.4.

[Colors]:

The parameters in this window control the appearance of the dial meter. The [Set to Default] resets all the colors to the default definition. See section 2.3.16.

2.3.5 Doppler (log) sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Doppler (log) tab

Component Properties		X
General Doppler		
Numeric Output		
Unit	:	Knt
Format	:	0
🔲 Show Mathematical Sign	n	
Sources		
Longitudinal Speed	:	D3[SIWLogitual(VBW)] Setup
Bow Transverse Speed	:	3[STWTransvers(VEW)] Setup
Stern Iransverse Speed	:	SternIransvSIW(VEW)] Setup
Relative Wind Direction	:	Source Disabled Setup
Colors		
Forward Indicator C	olor	Left Indicator Color
Backward Indicator	Colo	r Right Indicator Color
Wind Direction Indi	cato:	r Color Set to Default
		OK Apply Close

[Numeric Output]:

[Unit]: Text displayed after all numeric outputs, e.g., Kn. [Format]: Define the format of the numeric outputs. See section 2.3.17. [Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Sources]:

Four inputs may be applied to the Doppler log object. [Longitudinal Speed]: Shown as numeric data in the center of the sheet. [Bow Transverse Speed]: Shown as numeric data at the bottom of the sheet. [Stern Transverse Speed]: Shown as numeric data at the top of the sheet. [Relative Wind Direction]: Shown as a triangle circling the center of the sheet.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.4.

[Colors]:

The parameters in this window control the appearance of the object. The [Set to Default] button resets all the colors to the default definition. See subsection 2.3.16.

2.3.6 Graph sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Graph tab

Component Properties.		Component Properties
General Graph		General Graph
Graph Type	Resolution	Label :
	Time Span : 5min 👻	Init .
(lx)X/Y-graph	Sample Interval : 5s 💌	
Labels		Scales Princer (71)
Primary(Y1) :		
Label :		Max Value . U
Unit		Min Value : -100
Secondary (72)		Secondary (Y2) :
Secondary(12)		Max Value : 100
Label :		Min Value : -100
Unit :		Format : 0
Scales		
Primary(Y1) :		✓ Show Mathematical Sign
Max Value :	0	Show Secondary (Y2) Scale
Min Value :	-100	Scale resolution : MEDIUM -
Secondary (Y2) :		Source
Max Value :	100	Primary : SIO7[Depth(DPT)] Setup
Min Voluo	-100	Secondary : Source Disabled Setup
min value .		Colors
Format :	0	Primary Indicator Color
Show Mathematical	Sign	Secondary Indicator Color
Show Secondary (Y2) Scale		Zero Line Color
Scale resolution :	MEDIUM	Set to Default
	OK Apply Close	OK Apply Close

[Graph type]:

This window defines the input to the X-coordinate for the graph object. [Time/Y graphs]: The primary and secondary are used as Y-coordinate for two independent graphs. The time is used as the X-coordinate for both graphs. [X/Y graph]: The primary input is used for the X-coordinate and the secondary for the

[Resolution]:

Y-coordinate.

This window defines the resolution of the graph(s). Small values for "Time Span" and "Sample Interval" provide a graph with high resolution while high values provide a graph that covers a large time span.

[Labels]:

[Label]: Labels for numeric output.

[Unit]: Text displayed after numeric output and Y-axis, and X-axis if X/Y graph is selected.

[Scales]:

[Max Value]:	[Time/Y-Graph] [Primary (Y1)]: Set maximum scale for Y1 axis. [Secondary (Y2)]: Set maximum scale for Y2 axis. [X/Y-Graph] [Primary (Y1)]: Set maximum scale for Y axis. [Secondary (Y2)]: Set maximum scale for Y axis.
[Min Value]:	[Time/Y-Graph] [Primary (Y1)]: Set minimum scale for Y1 axis. [Secondary (Y2)]: Set minimum scale for Y2 axis. [X/Y-Graph] [Primary (Y1)]: Set minimum scale for Y axis. [Secondary (Y2)]: Set minimum scale for Y axis.

[Format]: Define the format of the numeric outputs. See section 2.3.17. [Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication. [Show Secondary (Y2) Scale]: Check to show Y2 axis scale. [Scale resolution]: Set scale resolution - [Fine], [Medium] or [Coarse].

[Sources]:

[Primary]: Set the primary data source for Y1 axis or Y-axis. [Secondary]: Set the secondary data source for Y2 axis or X-axis.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

The parameters in this window control the colors of the graph. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

2.3.7 Horizontal bar sheet

The setting of the [General] tab is similar to that shown in section 2.3.3. To display two horizontal bars, check two check boxes in the [Gauges] window in the General tab.

The parameters for the horizontal bar correspond to the parameters for vertical bar. An extra label (middle) has been added.

Horizontal Bar tab

Component Proper	ties		
General Horizonts	al Bar 1 Horizontal Bar 2		
Labels			
Left Label	:		
Middle Label	:		
Right Label	:		
Scale			
Start Value	: -100		
End Value	: 100		
Format	: 0		
🔽 Show Mathemat	ical Sign		
🔲 Mirror Vertic	ally		
Sources			
Primary	: Source Disabled Setup		
Secondary	: Source Disabled Setup		
Colors			
Positive Ba	r Color(Primary)		
Negative Ba	Negative Bar Color(Secondary)		
Iriangle Co	lor		
	Set to Default		
	OK Apply Close		

[Labels]:

A vertical bar has two labels, one at each end. One of them is typically used as a description while the other indicates units.

[Scale]:

[Start Value]: The start value corresponds to the bottom of the bar.

[End Value]: The end value corresponds to the top of the bar.

[Mirror Vertically]: In the default setting, two adjacent bars are two symmetrical instances of the bar object, that is, bar 1,2 and 3,4 form two pairs. The operator may change this by, for example, "horizontally mirror" bar object 1 and 3.

[Format]: Define the format of the figures for the bar object. See section 2.3.17. [Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Sources]:

[Primary]: Input to the main indicator for the bar object.

[Secondary]: Input to the secondary indicator for the bar object. The secondary indicator is shown as a small triangle. The secondary indicator is typically used for displaying the "commanded value" while the bar shows the actual value. The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

Parameters in this window control the appearance of the bar object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

Note: To show the title on the horizontal bar, uncheck [Show Horizontal Bar 1] on the [General] tab and enter a name at the [Title] box.

2.3.8 Horizontal ruler sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Horizontal ruler tab

Component Prop	erti	es
General Horiz	onts	l Ruler
Labels		······································
Top Left	:	
Top Middle	:	
Top Right	:	
Bottom Left	:	
Bottom Middle	:	
Bottom Right	:	
Scale		
Start Value	:	-100
End Value	:	100
Format	:	0
Show Mather	nati	cal Sign
Sources		
Primary	:	Source Disabled Setup
Secondary	:	Source Disabled Setup
Colors		
Primary I	ndi	cator Color 📃 Positive Scale Color
Secondary	In	dicator Color Negative Scale Color
		Set to Default
		OK Apply Close

[Labels]:

A horizontal bar has 6 labels.

[Scale]:

[Start Value]: The start value corresponds to the far-left point of the ruler. [End Value]: The end value corresponds to the far-right point of the ruler. [Format]: Define the format of the figures on the ruler object. See section 2.3.17. [Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Sources]:

[Primary]: Input to the main indicator for the bar object. The main indicator is shown as a triangle above the ruler.

[Secondary]: Input to the secondary indicator for the bar object. The secondary indicator is shown as a triangle below the ruler. The secondary indicator is typically used for displaying the "commanded value" while the primary indicator shows the actual value.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

Parameters in this window control the appearance of the ruler object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

2.3.9 Wind direction sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Wind Direction tab

Component Properties			x
General Wind Direction			
Labels			
Wind Speed Unit	:	knt	
Wind Direction Unit	:	0	
Scales			
Wind Speed Format	:	0	
Wind Direction Format	:	0	
Sources			
Log	:	D3[SOGLogitual(VBW)]	Setup
True Wind Direction	:	dDirectionTrue (MWV)]	Setup
Irue Wind Speed	:	WindSpeedTheor (MWV)]	Setup
Relative Wind Direction	:	ndDirectionRel (MWV)]	Setup
Relative Wind Speed	:	<pre>b[WindSpeedRel(MWV)]</pre>	Setup
Colors			
Wind Indicator Color			
		Set to	Default
		OK Apply	Close

[Labels]:

[Wind Speed Unit]: Text shown at wind speed indication. [Wind Direction Unit]: Text shown at wind direction indication.

[Scales]:

[Wind Speed Format]: Define the format of the numeric outputs. See section 2.3.17. [Wind Direction Format]: Define the format of the numeric outputs. See section 2.3.16.

[Sources]:

[Log]: Set the data source of own ship speed. The typical input is data from the Speed log sensor.

[True Wind Direction]: Set the data source of true wind direction.

[True Wind Speed]: Set the data source of true wind speed.

[Relative Wind Direction]: Set the data source of relative wind direction.

[Relative Wind Speed]: Set the data source of relative wind speed.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

The parameters in this window control the appearance of the object. The Set to Default button resets all the colors to the default definition. See section 2.3.16.

2.3.10 Numeric data display sheet

Component Properties
General
Title
Gauges
Show Graphical Standard Object 1
Use label from configuration
Limit 20 📩 💽 Font Color Set to Default
Source : Source Disabled Setup
Show Graphical Standard Object 2
Use label from configuration
Limit 20 - Font Color Set to Default
Source : Source Disabled Setup
Show Graphical Standard Object 3
Use label from configuration
Limit 20 - Font Color Set to Default
Source : Source Disabled Setup
OK Apply Close

The Numeric Data Display does not display any gauges. Three smaller "objects" for displaying numeric data or text are displayed instead. These smaller objects, called "Graphical standard objects", are almost identical to the non-graphical standard objects defined for showing data in tabular form.

Note that the overall title for the graphical object may interfere with the [Graphical Standard Object 1].

The color of the label text for a "Graphical Standard Object" is determined by the default color definition (Text/Outline Color). See section 2.3.16. The "Primary indicator color" is used as default for the displayed data but may be set by the operator.

A number of Numeric Data Displays may be linked by removing adjacent lines.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

2.3.11 Pitch and roll sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Pitch and Roll tab

Component Properties
General Pitch and Roll 1 Pitch and Roll 2
Gauge
Title :
Type : Roll 🔻
Scale
Format : O
🕼 Show Mathematical Sign
Source
Source : Source Disabled Setup
Colors
Positive Scale Color
Negative Scale Color
Set to Default
OK Apply Close

[Gauge]:

[Title]: Text shown above the gauge.

[Type]: Used to select gauge type (pitch or roll). Pitch is default for gauge 2; roll is default for gauge 1.

[Scale]:

[Format]: Define the format of the numeric outputs. See section 2.3.17. [Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Source]:

[Source]: Set the data source of pitch and roll. The typical input is data from the rudder angle sensor.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

The parameters in this window control the appearance of the object. The Set to Default button resets all the colors to the default definition. See section 2.3.16.

2.3.12 Rudder sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Rudder tab

Component Properties
General Rudder1 Rudder2
Labels
Title :
Scale
Rudder Max Angle : 90 💌
Scale Resolution: FINE -
Show Mathematical Sign
Sources
Primary : Source Disabled Setup
Secondary : Source Disabled Setup
Colors
Primary Indicator Color Positive Scale Color
Secondary Indicator Color 📕 Negative Scale Color
Set to Default
OK Apply Close

[Labels]:

[Title]: Text shown beneath the rudder indicator.

[Scale]:

[Rudder Max Angle]: This parameter controls the extent of the dial for the object. It is recommended that a value equal to the maximum rudder angle for vessel be used. [Scale Resolution]: Select scale resolution.

[Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Sources]:

[Primary]: Set the primary data source of rudder angle. The typical input is data from the rudder angle sensor. [Secondary]: Set the secondary data source of rudder angle (optionally). The typical secondary input is "Commanded rudder angle".

The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

The parameters in this window control the appearance of the object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.
2.3.13 Vertical bar sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

<u>Bar1 tab</u>

Component Prope	rties.	
General Bar1 Ba	ar2 B	ar3 Bar4
Labels		
Top Label	:	
Bottom Label	:	
Scale		
Start Value	:	-100
End Value	:	100
Format	:	0
Show Mathema	tical	Sign ly
Primary	:	Source Disabled Setup
Secondary	:	Source Disabled Setup
Colors Positive B Negative B Triangle C	ar Col ar Col olor(S	.or (Primary) .or (Primary) Secondary) Set to Default
		OK Apply Close

[Labels]:

A vertical bar has two labels, one at each end. One of them is typically used as description while the other indicates units.

[Scale]:

[Start Value]: The start value corresponds to the bottom of the bar.

[End Value]: The end value corresponds to the top of the bar.

[Format]: Define the format of the figures for the bar object. See section 2.3.17.

[Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Mirror Horizontally]: In the default setting, the adjacent bars are two symmetrical instances of the bar object, that is, bar 1,2 and 3,4 form two pairs. The operator may change this by, for example, "horizontally mirror" bar object 1 and 3.

[Sources]:

[Primary]: Input to the main indicator for the bar object.

[Secondary]: Input to the secondary indicator for the bar object. The secondary indicator is shown as a small triangle. The secondary indicator is typically used for displaying the "commanded value" while the bar shows the actual value. The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

[Colors]:

The parameters in this window control the appearance of the bar object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

2.3.14 Azimuth Promotion sheet

The setting of the [General] tab is similar to that shown in section 2.3.3.

Azimuth Promotion tab

Component Prop	erties
General Azimut	h Promotion
Direction	
North Angle	: 0
Sources	
Primary	: Source Disabled Setup
	OK Apply Close

[Direction]:

[North Angle]: Enter north angle relative to the screen.

[Sources]:

[Primary]: Set the data source of bearing data. Moving direction is displayed. The [Setup] button opens a dialog box where the source data may be defined. See section 2.3.

Set a direction signal from the serial data sentence, for example, HDG, HDT, MWV, VHW, VTG, etc.

2.3.15 Two Dimension Plotter sheet

The setting of the General tab is similar to that shown in section 2.3.3.

Component Propertie	25	Component Properties	
General Two Dimens	ions Plotter	General Two Dimensions Plotter	_
Resolution			~
Time Span	: 60s 🔻	Max Value(Y) : 100	
Sample Interval	: 15 -	Show Iick Label	
Labels		Scale resolution : MEDIUM -	
Primary(X) :			
Label	:	Axis point	
Imi+		X Value : 0	
	·	Y Value : O	
Secondary(Y) :		Axis Type	
Label	:	Axis Type : Under left 🔻	
Unit	:	Plotter Image	
Scales		Symbol (Primary) : (none) 🔻	
Max Value(X)	: 100	Symbol (Secondary) : (none)	
	. 100	Sources	
Max Value(I)	: 100	Primary(X1) : Source Disabled Setup	
Show Tick Labe	1	Primary(Y1) : Source Disabled Setup	Ξ
Scale resolution	: MEDIUM -		
Axis point		Secondary(X2) : Source Disabled Setup	
X Value	: 0	Secondary (Y2) : Source Disabled Setup	
Y Value	: 0	Colors	
Axis Type		rrimary Indicator Color	
Axis Type	: Under left 💌	Secondary Indicator Color Set to Default	
Platter Tmage	T		_
	OK Apply Close	OK Apply Close	

Two Dimensions Plotter tab

[Resolution]:

[Time Span]: Enter time span for plotter screen. [Sample Interval]: Enter sample interval for plotter screen.

[Labels]:

[Primary]: The label and unit of X-axis. [Secondary]: The label and unit of Y-axis.

[Scales]:

[Max Value (X)]: Set maximum value for X-axis. [Max Value (Y)]: Set maximum value for Y-axis. [Show Tick Label]: Check to show tick label. [Scale Resolution]: Select scale resolution, among coarse, medium and fine.

[Axis Point]:

[X Value]: Enter starting point of X-axis. [Y Value]: Enter starting point of Y-axis.

[Axis Type]:

[Axis Type]: Select axis type between Under-left and Central. The Central shows center of the coordinates to center of the screen.

[Plotter Image]:

[Symbol]: Select symbol for the ship among ship, circle, triangle, and cross.

[Sources]:

[Primary]: Set the primary data source for X1 and Y1 axes. [Secondary]: Set the secondary data source for X1 and Y1 axes.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.4.

[Colors]:

The parameters in this window control the appearance of the bar object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

2.3.16 Color definition

To define the color for an item, click the color box on each sheet to open the [Color Select] dialog box.

🛃 Color Select	
Swatches HSV HSL RGB CMYK	
	Recent:
Preview	
	 Sample lext Sample Text Sample Text
	OK Cancel Reset

Click an appropriate color on the color palette to select it. Click appropriate tab ([HSV], [HSL], [RBG], [CMYK]) to see your color selection and further adjust the color. The example below is the [Swatches] tab.

	🔬 Color Select
	Swatches <u>HSV HSL</u> R <u>G</u> B C <u>M</u> TK
l	
	Recent:
	Freview
	Sample lext Sample lext
	Sample Text Sample Text
	OK Cancel Reset

2.3.17 Formatter syntax

Figures displayed by the graphical objects may be formatted, that is, the number of digits after the decimal point and leading zeroes may be defined.

The formatter syntax is identical to the syntax defined for formatting output from an NMEA decoder.

Example: 7.5 and 10 can be shown three different ways depending on the formatter used.

Formatter	Display "7.5"	Display "10"
Tornatter	Result	
0	7	10
0.0	7.5	10.0
000	007	010

2.3.18 [Radar/AIS] sheet

Use \blacktriangleleft or \blacktriangleright to select the image to show on the [Radar/AIS] sheet. Three sheet sizes are available for the [Radar/AIS] sheet (600×470, 900×690, 1200×920).

To show the AIS screen, click [AIS] button at the upper right corner.

The [Information] button provides textual information about the image shown.



2.3.19 Inclinometer Sheet

Settings for the [General] tab are similar to that shown in section 2.3.3.

Component Properties	X	Component Properties
General Inclinometer		General Inclinometer
Labels		Roll Period
Port	: PORT	Funct i
Heel Angle	: Heel Angle	rormat . U
Starboard	STED	Scale resolution : MEDIUM -
		Show Mathematical Sign
Roll Period	: Roll Period	Sources
Scale	E	Port : Source Disabled Setup
Port :		
Max Angle	: 45	Reel Angle : Source Disabled Setup
Warning Threshold	: 20	Starboard : Source Disabled Setup
Format	: 0	Roll Period : Source Disabled Setup
Heel Angle '		Data Status
Reel Angle .		Data Status . Source Disablea Setup
Format	: 0	Colors
Starboard :		Font Color
Max Angle	: 45	Port Pointer Color
Warning Threshold	: 20	Heel Angle Pointer Color
Format	: 0	Starboard Pointer Color
Roll Period .		Negative Scale Color
Roll Ferrou .		Positive Scale Color
rormat		Warning Threshold Port Color
Scale resolution	: MEDIUM 👻	Warning Ihreshold Starboard Color
Show Mathematica	l Sign 👻	Set to Default
	OK Apply Close	OK Apply Close

Inclinometer tab

[Labels]:

[Port]: Enter text that is displayed at the upper left of the inclinometer for the port inclination angle.

[Heel Angle]: Enter text that is displayed at the top of the inclinometer for the heel angle.

[Starboard]: Enter text that is displayed at the upper right of the inclinometer for the starboard inclination angle.

[Roll Period]:Enter text that is displayed at the lower right of the inclinometer for value the roll period.

[Scales]:

Set the inclination angle for port and starboard, the heel angle and the roll period for the inclinometer.

[Max Angle]: Set maximum value displayed. Do not use decimal values. [Warning Threshold]: Set angle displayed as warning. Do not use decimal values. [Format]: Define the format of the figures for the bar object. See section 2.3.17. [Scale Resolution]: Select the scale of resolution from [COURSE], [MEDIUM] or [FINE].

[Show Mathematical Sign]: Check this box to show the negative mathematical sign. The mathematical sign appears with the related numerical indication.

[Sources]:

[Port]: Set the data source of port inclination angle.

[Heel Angle]: Set the data source of heel angle.

[Starboard]: Set the data source of starboard inclination angle.

[Roll Period]: Set the data source of roll period.

[Data Status]: Set the data source of data status at the lower left of the inclinometer.

The [Setup] button opens a dialog box where the source data may be defined. See section 2.4.

[Colors]:

The parameters in this window control the appearance of the object. The [Set to Default] button resets all the colors to the default definition. See section 2.3.16.

2.4 Setting of Data Source

Select the source to use to show the respective data on each sheet. Before setting the source data, make a memo about connection channel and input signal.

Click the [Conning] tab. Right-click any sheet other than the [Radar/AIS] sheet then select [Properties]. Click the [Setup] button in the [Component Properties] dialog box to show the [Data Source Select] dialog box. Click the applicable tab among [Analog], [Digital], [Serial], [Sensor (LAN)] and [Configuration].

Note: The [Configuration] tab appears only when the [Numeric Data Display Sheet] is selected(See step 5 on section 2.3.1).

Analog tab

Data Source Select	X
Analog Digital Serial Sensor(LAN) Source Target none •	
Factor	
Use ractor	
OK	Close

[Source], [Target]:

Set the channel of the input sensor that you want to use to show analog data. The setting range is from AN001 to AN120.

[Factor]:

To apply a factor (multiplier) to the original data, check the [Use Factor] check box and enter a factor. For example, enter 0.514 for speed data to convert knots to m/s.

Digital tab

Data Source Select	x
Analog Digital Serial Sensor (LAN)	
Source	
Iarget none 💌	
☐ ✓ Use alternative values	
Active value :	
Inactive value :	
Factor	
Use Factor	
ОК	Close

[Source], [Target]:

Set the channel of the input sensor that you want to use to show digital data. The setting range is from DC001 to DC640.

[Alternative Value]:

To use an alternative value, check the [Use alternative values]. If not checked, the text entered at installation appears in the [Active value] box and [Inactive value] box.

Example

For alert signal of [Normal Close] [Active value] to [Normal] [Inactive value] to [General alert] or [Fire alert]

For steering gear run indicator signal of [Normal Open] [Active value] to [Run] [Inactive value] to [Stop] [Factor]: To use a factor, check the [Use Factor] check box and enter a signal factor.

<u>Serial tab</u>

The serial signal means IEC61162 or NMEA0183 format signal.

Data Source Sel	ect	x
Analog Digital	Serial Sensor (LAN)	
Source		
Iarget none	•	
Decoder		
Select Decode	ar :	
Sub Library F	'ile :	
Input Type	:	
Sentence Form	at :	
Description		
	Library	
🗌 🔲 Use Timeou	t	
Timeout (1-60)) : 1 Second	
Use Check	S12m	
Factor		
🔲 Use Factor	r	
	OK	Close

[Source], [Target]:

Set the channel of the input sensor that you want to use to show serial data. The setting range is from SI01 to SI72 (SI17 and higher are no use).

[Decoder]:

Set data type.

[Library]:

Show the [Decoder Library] dialog box (see section 5.2). Also, you can add the data sentence to decoder library. See "To add a data sentence:" on page 35.

[Use Timeout]:

To use timeout functions, check the [Use Timeout] box and enter a time from 1 to 60 seconds. For multiple like data sources set the same use timeout for each.

[Use Check Sum]:

Check this box to use the check sum that is included in serial data.

[Factor]:

To use a factor, check the [Use Factor] check box and enter a signal factor.

Sensor (LAN) tab

Data Source Select	×
Analog Digital Seria	al Sensor (LAN)
Source	
Target none 🔻	
Decoder	
Select Decoder	:
Sub Library File	:
Input Type	:
Sentence Format	:
	Library
Use Timeout	
limeout (1-60) :	1 Second
- 🔲 Use Check Sum —	
Factor	
Use Factor	
	OK Close

[Source], [Target]:

Set the channel of the input sensor that you want to use to show Sensor (LAN) data. The setting range is from LN01 to LN64.

[Decoder]:

Set data type.

[Library]:

Show the [Decoder Library] dialog box (see section 5.2). Also, you can add the data sentence to decoder library. See "To add a data sentence:" on page 35.

[Use Timeout]:

Check the [Use Timeout] box and enter time from 1 to 60 seconds. For multiple like data sources set the same use timeout for each.

[Use Check Sum]:

Check this box to use the check sum that is included in serial data.

[Factor]:

To use a factor, check the [Use Factor] check box and enter a signal factor.

Configuration tab

You can set the information of installed the MIC to be shown on the conning display.

Data Source	Select						×
Analog Dig	gital	Serial	Sensor (LA	N) Cor	figurati	on	
Category	:	Audio	~				
Channel	:	MIC1/M	IC2 ~				
Parameter	:	MIC 1/3	3/5/7 Posit	ion	``	/	
Value	:						
						OK	Close

[Category]: Configuration is not required (fixed to [Audio]).

[Channel]/[Parameter]: This menu is to show the position of the MIC to the display. Configuration can be selected from followings:[Channel] • [MIC1/MIC2] • [MIC3/MIC4] • [MIC5/MIC6] • [MIC7/MIC8] [Parameter] • [MIC 1/3/5/7 Position] • [MIC 2/4/6/8 Position]

When you want to show the channel and position of MIC2, set as follows:

- [Channel]: [MIC1/MIC2]
- [Parameter]: [MIC 2/4/6/8 Position]

[Value]: The position of selected the MIC on [Channel] and [Parameter] is shown automatically.

To add a data sentence:

1. Click the [Library] button to show the [Decoder Library] dialog box.

Decoder Library	
File	
Sort By Decoder Group Sentence Formatter Decoder Hame Decoder Group Sentence Formatter Decoder Hame AIS AMS For AMS For Ander Meading Moder Mult Speed Tilegraph Tile and Date Wind speed and direction	Decoder Information: Decoder Group: Input Type: Sentence Form Decoder Output: Decoder Description: Sub-Library File:
	Edit Close

- Click the desired data (NMEA sentence) in the decoder library (left-hand window of the [Decoder Library] dialog box). This library supports all the sentences specified in IEC 61996. If a sentence that is not supported by this library is input to the VR-7000/7000S, you can create and edit a new decoder for the sentence. See section 5.3 for how to create a new decoder.
- 3. Click the [OK] button, and the data sentence appears in the [Decoder] dialog box.

2.5 Saving the Configuration

You can save the configuration to a DRU or Long Term Device.

Note 1: When the error message "[CONN] Could not upload ***.tar" appears when saving the configuration, check the connection of the DRU and Long Term Device, and then save the configuration.

Note 2: When the DRU (Fixed, Float), Long Term Device and CF do not have the configuration data and you click the [Refresh] button, the error message "[CONN] Could not Refresh" or "[CONN] could not Download" is shown. In this case, reboot the Live Player V5.

Note 3: If the [Configuration Mode] is set to [ON], click the [Configuration] menu to open and set the [Configuration Mode] to [OFF]. Then, the message "Save Viewer Config?" is shown and click [Yes] to save the configuration.

To save the configuration created to the replay PC

Note: Be sure to save the created display form on PC for backup. Depending on the player setting, it may be overwritten when connecting to the VDR.

1. Click [Configuration mode] > set it [OFF]> [Configuration]> [Viewer Config Management] to show the [Viewer Config Management] dialog box.

Viewer Config Management		×
Import from Export to Refresh		
↓		Fixed DRU Saved Config Viewer Config Status : *
PC	Fixed DRU	Float DRU Saved Config
Maintenance Viewer Config Viewer Config Status : OK	Float DRU	Viewer Config Status : * Viewer Config Code : *
Viewer Config Code : 9f1383091fc30c7a6c7b583a720bb13d		Long Term Device Seved Config Viewer Config Status : *
Source Select Status Source Type : -	Long Term Dev	ice Viewer Config Code : *
Connect Type : -		CompactFlash Saved Config Viewer Config Status : * Viewer Config Code : *
	CF	viewer contrig coue . *
		Close

- 2. Click the [Export to] button.
- 3. Enter a file name, select a file save location and click [Save] button.
- 4. Click the [OK] and [Close] buttons.

Note: Turn Configuration OFF and save the setting data. Restart the Live Player V5 to reflect the setting data.

To save the configuration to the DRU, long term device

Note: Connect the Live Player V5 to the VDR on live mode before doing the following procedure (see chapter 4).

- 1. With the Configuration Mode set for OFF, click [Configuration] > [Viewer Config Management] to show the [Viewer Config Management] dialog box.
- 2. Click the [Upload] button to open the [Upload] dialog box.
- 3. Click the [Select] button and enter name for the file in the [File name] box.
- 4. Select where to save the file then click the [Open] button.
- 5. Click the [OK] button twice.
- Click the [OK] and [Close] buttons.
 Note: See section 3.1 "Reading the Data Recorded in the Long Term Device" when you load the configuration data from the Long Term Device to the PC.

2.6 When Live Player V5 Display Error Occurs

Live Player V5 may occasionally display errors on some of the display tabs. For example, a part of display is not displayed, the image is distorted, etc.

If a display error occurs, exit the Live Player V5 application, then restart the PC. If not rectified, do the following procedures.

- Clear the Java[®] cache. See section 2.6.1.
- Reload the configuration. See section 2.6.2.
- Change the OS font size setting to "100%". See section 2.6.2.

2.6.1 How to clear the Java[®] cache

- 1. Right-click the star button on the desktop.
- 2. Select [Search] from the menu.
- 3. Enter "control" in the search box, then select [Control Panel]from the search results.

🂰 Java

Netwo Netwo

Temp Files y advar

- Select [Java (32 bit)]. The [Java Control Panel] window appears.
- Confirm that the [General] tab is selected, then click the [Settings] button for [Temporary Internet Files].
 The [Temporary Files Settings] window ap-

pears.

- 6. Click the [Delete Files] button.
- Check the checkbox for [Trace and Log Files] and [Cached Applications and Applets], then click the [OK] button.
- 8. Close the window.

ontrol Pane	4 – – ×
Update Jav	va Security Advanced
sion informa	tion about Java Control Panel.
	About
Settings	
settings are in your web	used when making Internet connections. By default, Java will use the network browser. Only advanced users should modify these settings.
	Network Settings
ry Internet i	Files
use in Java d users shou	applications are stored in a special folder for quick execution later. Only Id delete files or modify these settings.
	Settings View
he browser i	is enabled.
Security tab	
Temporan	v Eiler Settinge
Temporary	, inconstantings
Keep	temporary files on my computer.
Location	n
Cal	
20	lect the location where temporary files are kept:
2:1	ect the location where temporary files are kept: Users\VDR\AppData\LocalLow\Sun\Java\Deployment\cache
2:1	ect the location where temporary files are kept: Users\VDR\AppData\LocalLow\Sun\Java\Deployment\cache Cijange
Disk Sp	ect the location where temporary files are kept: Users/UDR/AppData/Locat.ow/Sun/Java/Deployment/cache
Disk Sp Sel	ext the location where temporary files are kept: USers/UCR/JopData/Local.ow/Sun/Java/Deployment/cache USers/UCR/JopData/Local.ow/Sun/Java/Deployment/cache ace ext the compression level for JAR files: None
Disk Sp. Sel	ext the location where temporary files are kept: Users/VDR/AppData/Local.ow/Sun/Java/Deployment/cache Compe ace ext the compression level for JAR files: None the amount of disk space for storing temporary files:
Disk Sp. Set	ect the location where temporary files are kept: Users/IVDR/AppOtat/Locat.ow (Sun/Java/Deployment/cache) Users/IVDR/AppOtat/Locat.ow (Sun/Java/Deployment/cache) ace ace ace the anount of disk space for storing temporary files: 4 the anount of disk space for storing temporary files: 4 the anount of disk space for storing temporary files: 4 Storing Storing temporary files
Disk Sp. Sel	ect the location where temporary files are kept: Users/WCAppData/LocalLow/Gun/Lava/Deployment/Lache Clange ace ect the compression level for JAR files: None the amount of disk space for storing temporary files: User Storing temporary files: Queter Files Restore Defaults: Restore Defaults:
Disk Sp. Sel	ect the location where temporary files are kept: Users/UCR/UppData/LocalLow/SUNUava/Deployment/Locate ace ect the compression level for JAR files: None t the amount of disk space for storing temporary files: Delete Files Restore Defaults CK Cancel
Disk Sp. Sel	tet the location where temporary files are kept: Users/UOR/AppOtat/LocatLow/Gun/Lava/Deployment/cache @Junge ace ace the compression level for JAR files: None the amount of disk space for storing temporary files: Delete Files Restore Defaults OK Cancel Delete Files and Applications
Disk Sp. Sel	tet the location where temporary files are kept: Users/UCR/UppData/LocalLow/SUNUAva/Deployment/Locate ace exit the compression level for JAR files: None t the amount of disk space for storing temporary files: Delete Files Bestore Defaults CK Cancel Delete Files and Applications
Disk Sp Sel Sel	ect the location where temporary files are kept: Users/VPAppDats/LocalLow/SUN/Lava/Deployment/Lache Clange ace ect the compression level for JAR files: None the anount of disk space for storing temporary files: Delete Files Bestore Defaults OK Cancel Delete Files and Applications
Disk Spo Set Set	ect the location where temporary files are kept: Users/WAppDats/LocalLow/Gun/Gava/Deployment/Loche Conge
Disk Spo Set Set	ect the location where temporary files are kept: Users/WCR/AppData/LocalLow/Bun/Lava/Deployment/Lache Clange ace ace the compression level for JAR files: None the amount of disk space for storing temporary files: 22768 MB Delete Files Bestore Defaults CK. Cancel Delete Files and Applications
Disk Spa Sel Sel	
nd Pekson	ect the location where temporary files are kept: Users/VOR/AppOtat_LocalLow (Sun Vava Veptoyment/Loche Compe) ace ect the compression level for JAR files: None Users of the amount of disk space for storing temporary files: Delete Files Bestore Defaults OK Cancel Delete Files and Applications C Trace and Log Files
	ect the location where temporary files are kept: Users/VR/AppDats/Local.ow/Sun/Lava/Deployment/Lache Competi- ace ect the compression level for JAR files: None Users/VR/AppDats/Local.ow/Sun/Lava/Deployment/Lache Delete files Bestore Defaults OK Cancel Delete Files and Applications Cancel Delete the following files? Trace and Log Files Cached Applications and Applets
Disk Sp Sel Sel	et the location where temporary files are kept: Users/VOR/AppOtat/LocalLow/Gun/Lava/Deployment/Lache Conge
Disk Sp. Set	ect the location where temporary files are kept: Users/VOR/AppOtat/LocalLow/Gun/Lava/Deployment/Lache Competi- ace ect the compression level for JAR files: None Users/VOR/AppOtations 12276 188 Delete Files Bestore Defaults OK Cancel Delete Files and Applications Delete the following files? Trace and Log Files Cached Applications and Applets Installed Applications and Applets
nd e	ect the location where temporary files are kept: Users/VOR/AppOtati_LocalLow/Sun/Lava/Deployment/Lache Competi- ace ect the compression level for JAR files: None Users of the amount of disk space for storing temporary files: Delete Files Bestore Defaults OK Cancel Delete Files and Applications X V Trace and Log Files Cached Applications and Applets Installed Applications and Applets
nd	ect the location where temporary files are kept: Users/VOR/AppOtati_Locat.ow/Sun/Lava/Deployment/Lache Conge

2.6.2 How to reload the configuration

- 1. Run the Live Player V5 application. The [Source Select] window appears.
- 2. Click the [Cancel] button of the [Source Select] window.
- 3. Open the [Configuration] menu, then set [Configuration Mode] to [ON].
- Without changing other settings, open the [Configuration] menu, then set [Configuration Mode] to [OFF]. The confirmation message as shown in the figure to the right appears.
- 5. Click the [Yes] button to close the window.

2.6.3 How to change the OS font size setting

- 1. Right-click the star button on the desktop.
- 2. Select [Settings] from the menu.
- 3. Select [System].

← Settings		1.00	×
ம் Home	Display		
Find a setting	Brightness and color		
System	Change brightness for the built-in display		
🖵 Display	Night light		
에 Sound	Night light settings		
Notifications & actions			
 Focus assist 	Windows HD Color		
O Power & sleep	Get a brighter, more vibrant picture in HDR and WCG videos, games, and apps on the display selected above.		
Battery	Windows HD Color settings		
📼 Storage	Scale and layout		
Tablet mode	Change the size of text, apps, and other items		
Hi Multitasking	Advanced scaling settings		

- 4. Set [Change the size of text, apps, and other items] to "100%".
- 5. Close the setting window.



3. EXTRACTING, REPLAYING DATA

The replay function is specially designed for data analysis after an incident, with the recording stopped. (Do not access the DRU while it is recording.) Playback is possible while recording, by connecting to the Long Term Device via LAN.

Note: Recording is terminated only in the following instances:

- During essential maintenance purposes while the vessel is in port.
- The vessel is dry-docked.

To stop recording, turn off the BATTERY BACK-UP and AC SUPPLY MAINS switch in the VDR in that order. DO NOT turn off the system by the main breaker while the BATTERY switch is on. If this is done, the system operates on the batteries. The system stops after running on batteries for two hours.

There are two ways to replay the data recorded:

- 1) Access the data stored in the long term device without playing back recorded data.
- 2) Reading the data extracted from the DRU or the Long Term Device.

Note 1: Do not remove the Long Term Device(s) from the VDR unless authorized to do so. Extract data to a PC or when necessary.

Note 2: If you hear audio intermittently at playback, see "Intermittent audio at playback" in section 6.4.

Note 3: If error occurs at the start of playback, click the [Start] button again.

Note 4: When you minimize the Live Player V5 window while replaying the recorded data, the audio data may not be synched with the display screen. In this case, stop the replay, then click the [Start] button again.

Note 5: If the message "Audio setup failed" appears during playback, click the [OK] button. Try to replay data again.

3.1 Reading the Data Recorded in the Long Term Device

This section explains how to access and play back the data recorded in the Long Term Device without retrieving the data from the HDD of the replay PC.

Normally, it takes more than one hour to retrieve the recorded data from the Long Term Device to the replay PC. Using this Live Player V5 software, however, the data recorded in the Long Term Device can be read to replay it without copying the data into the HDD of the replay PC. This feature is useful during the installation of the VDR to check if all the data input to the VDR is properly recorded in the Long Term Device.

3.1.1 How to connect the replay PC to the Long Term Device

Data can be read from the DATA port J502 in the DCU during recording. If an incident occurs, you can read the data as follows.

1. Open the door on the cover of the DCU. Connect the LAN cable between the LAN port on the replay PC and the DATA port J502 in the DCU.



- 2. Start the Live Player V5.
- Open the [Tool] menu and select [Source Select] to show the [Source Select] dialog box. Select [Long Term Device (LAN)] or [Long Term Device (Save Area)] from the drop-down list.

Note: [Long Term Device (Save Area)] is only available with the VR-7000S.

 Check that the IP address is 172.31.16.200 (or 10.0.0.100). See section 1.2 for the IP address of the destination host. If you selected [Long Term Device (Save Area)] at step 3, click the [Analyze Area] button then select the save area for data extraction from [Save Area 1] to [Save Area 4].

[Long Term Device (LAN)] is selected

[Long Term Device (Save Area)] is selected

Source Sele	ect 🛛	- I and and	×	Source Selec	t	and and	X
Long Iern	Device (LAID	Automatically download as Automatically download as	nd load Viewer Configuration. nd load Sentence Information.	Long Term D	evice (Save Area)	Automatically download and lo Automatically download and lo	ad Viewer Configuration. ad Sentence Information.
Connect to	• IP : 172 31 16	5 200		Connect to	IP: 172 31 16	200	
			Analyze Track				Analyze Area
Track .	Start	· End	Recording Term	Save Area Save Area 1 Save Area 2 Save Area 3	Start 01/10/2015 13:40:45 //	End 07/06/2016 09:52:00 //	Track Count 2 0 0
				Save Area 4		-/-/	0
							Analyze Track
				Track	Start	End	Recording Term
Do not	display this when the ap	pplication begins.	Connect Cancel	Do not di	isplay this when the appl	ication begins.	Connect Cancel

Click the [Analyze Track] button to show track information.
 Note: If one of the following messages appears, after clicking the [Analyze Track] button, see the following table to rectify the error. If not rectified, contact your deal-

Δ	r	
C	L	•

Message	Remedy
[ANALYZE] Could not analyze: Long Term Device data. Reading failed.	The Live Player V5 program version is not com- patible with the VDR program version. Check the VDR program version ([VDR Version]) on the [System Monitor] window from the RAP, then use an appropriate Live Player V5 version.
[CONN] [ANALYZE] Could not an- alyze: Save area	The Live Player V5 program version is older than the VDR program version. Use the latest version of Live Player V5.
[ANALYZE] Could not analyze: Save-Area data. Reading failed.	The the VDR program version is older than Live Player V5 program version. Use the Live Player V5 version 1.10.

6. Click the [Connect] button.

After connecting to the Long Term Device, the [Source Select] dialog box disappears.

7. Click the Start button.





You can change the playback advance speed and select the track number. To pause the playback, click the Pause button.

Note: The X8.0 playback speed may stop playback depending on PC specifications and load conditions. If playback stops, reduce the playback speed.



8. To stop playback, click the Stop button.

Note: You can show the [Control] dialog box by putting the cursor in the [CONTROL] area and dragging the cursor while holding down the left button. This dialog box has a slider bar for selecting playback start time. You can also specify the playback start time by entering desired numeric value and clicking the [Set] button.



3.2 How to Extract Data from a Long Term Device or Save Area, Replay the Data on a PC

Note: VR-7000 cannot use the save area.

The data recorded in a Long Term Device or save area can be extracted to the HDD of the replay PC and replayed with the Live Player V5 software. The wiring necessary to retrieve the data is the same as shown in section 3.1.1.

Notes on extraction

- The temporary analysis files requires a minimum of 30 GB free space on the C drive of the PC.
- Data recording of more than 13 hours cannot be extracted and analyzed at once.
- If "Get size failed" appears at the start of extraction, click the [OK] button.
- The message that announces completion of extraction may not appear. If the progress bar shows 100%, extraction is complete.
- If an error message appears during extraction and extraction stops or extraction stops due to insufficient disk space, restart the Live Player and try the extraction again.
- The Live Player may stop when extraction cancels. If this occurs, quit the Live Player from the Task Manager then restart the Live Player.
- Do not extract data to a medium whose remaining space is too low to hold the data. The OS may not start up if the medium is used as the system drive and it is full. (Estimate 1GB for one hour of data.)
- Do not connect a storage device to more than one Live Player in extraction or play back. Extraction or play back may stop. Also, when using the Data Consistency Analyzer, you cannot connect to the Long Term Device via the Live Player.
- Recording continues when extracting data from a Long Term Device (LAN). Newer data may not be extracted since older data is overwritten. If this occurs, set the start time for extraction backward some hours.
- When you fail the extraction, the message "[FILE] Do you delete extracted file?" appears. To continue extracting, click [No] then select the folder where you extracted the data and click [Resume] to continue extraction.

3.2.1 How to extract the data from a Long Term Device

1. Select [Source Select] from the [Tool] menu to show the [Source Select] dialog box.



- 2. Click the drop-down list and select [Long Term Device (LAN)].
- 3. Confirm that the IP address ([Connect to IP]) is following.
 - 172.31.16.200
 - 10.0.0.100
- 4. Click the [Analyze Track] button.

Note: If the following error message appears after clicking the [Analyze Track] button, see the table below to rectify the error. If not rectified, contact your dealer.

Message	Remedy
[ANALYZE] Could not analyze:	Check the VDR program version ([VDR Ver-
Long Term Device data. Reading	sion]) on the [System Monitor] window from
failed.	the RAP, then use an appropriate Live Play-
	er V5 version.

5. Click the [Connect] button.

3. EXTRACTING, REPLAYING DATA

6. Click [Extract] in the [Tool] menu.

Extraction						×
- 🔘 Track S	election					
	Irack	Start	End	Period	Selected	Extract Period
	track 1	25/03/2018 12:01:15	26/03/2018 14:40:49	26:39:30	25/03/2018 12:01:15 - 26/03/2018 14:40:45	26:39:30
	track 2	26/03/2018 14:43:15	29/03/2018 15:51:49	73:08:30	26/03/2018 14:43:15 - 29/03/2018 15:51:45	73:08:30
	track 3	29/03/2018 15:54:15	29/03/2018 15:55:00	00:00:45	29/03/2018 15:54:15 - 29/03/2018 15:55:00	00:00:45
	track 4	29/03/2018 15:57:45	29/03/2018 16:44:00	00:46:15	29/03/2018 15:57:45 - 29/03/2018 16:44:00	00:46:15
	track 5	29/03/2018 16:49:15	03/04/2018 15:06:00	118:16:45	29/03/2018 16:49:15 - 03/04/2018 15:06:00	118:16:45
	track 6	03/04/2018 15:08:30	03/04/2018 15:34:00	00:25:30	03/04/2018 15:08:30 - 03/04/2018 15:34:00	00:25:30
	track 7	03/04/2018 15:38:30	03/04/2018 15:40:49	00:02:15	03/04/2018 15:38:30 - 03/04/2018 15:40:45	00:02:15
	track 8	03/04/2018 15:44:00	06/04/2018 11:30:45	67:46:45	03/04/2018 15:44:00 - 06/04/2018 11:30:45	67:46:45
	track 9	06/04/2018 11:33:15	06/04/2018 11:41:45	00:08:30	06/04/2018 11:33:15 - 06/04/2018 11:41:45	00:08:30
	track 10	06/04/2018 11:45:30	24/04/2018 13:34:45	433:49:15	06/04/2018 11:45:30 - 24/04/2018 13:34:45	433:49:15
- @ Direct S	Gelection	DD N ate and Time $24\frac{4}{v}$ /	М <u>ТҮҮҮ</u> НН 14 <mark>↓</mark> / 2018 ↓ 13	MM	55 45 + 45 + 2 Extract Period (1-120 minute) ±	Select Period
- 🔲 Data Sel	lection (All o	ther data is automatical	ly selected for extra	ction.)		
Audio	VH	F1/VHF2	MI	C1/MIC2	MIC3/MIC4	
			(Bz	idge STBD/Brid	ge PORI) (Bridge CENTER/C	HARI Space)
	MI	C5/MIC6	MI	C7/MIC8		
	(Gł	IDSS RACK /No. 2 RADAR	.) ())	ING STBD/WI	NG PORT)	
Image	Ra	dar1	Ra	dar2	ECDIS	
	Ge	neral1	Ge	neral2	Additional	
Folder						
C:\Users\	nstalluser				Select	
Resume]					Start Close

- 7. Specify the extraction data by each one of the following methods.
 - · Select the track.
 - Select date and period.

How to select the track:

- 1) Activate the [Track Selection] radio button, then check the track you want to extract.
- 2) Click the [Select Period] button to show the [Select Period] window.

Select Period		X
Track Information		
No	: 1	
Start	: 29/11/2013 10:05:15	
End	: 29/11/2013 13:57:45	
Period	: 03:52:30	
Extract Period		
Start	Start of Irack	
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	SS 15 🗼
End	End of Irack	
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	SS 45 _↓
Extract Period	: 03:52:30	
	OK	ancel

- 3) Set the start time and the end time in the [Extract Period] field. When you want to extract all track, check [Start of Track] and [End of Track].
- 4) Click the [OK] button.

How to select date and period:

- 1) Activate the [Direct Selection] radio button.
- 2) Select the target date and period to extract.

				Select Period
Direct S	election Target Date and Time	DD MM	YYYY HH MM SS / 2018 ↓ 13 ↓ : 04 ↓ <td: 45<="" td=""></td:>	(m) Extract Period (1-120 minute) ± 30 (m)
🗌 Data Sel	ection (All other data is	automatically sel	ected for extraction.)	
Audio	VHF1/VHF2		MIC1/MIC2	MIC3/MIC4
			(Bridge STBD/Bridge P)	ORT) (Bridge CENTER/CHARI Space)

- 8. Click [Select] button to open the [Open] dialog box
- 9. Select where to save the data and click the [Open] button.
- Click the [Start] button in the [Extraction] dialog box. The [Extract Process] dialogbox appears and the bar graph, which indicates retrieving status, appears. When the extraction is completed, the message "Extracting data to ... completed" appears.

Note: If the [Extraction Process] window appears without clicking the [Start]button, close the window to start extracting data.

11. Click the [OK] button and then click the [Close] button.

3.2.2 How to extract the data from Save area

1. Select [Source Select] from the [Tool] menu to show the [Source Select] dialogbox.

Long Term De	wice(Save Area) ▼	✓ Automatically download and ✓ Automatically download and	load viewer configuration. load Sentence Information.
Vessel :			
Connect to 1	LP: 10 0 0	0 100	
	· · · · ·		Analyze Area
Save Area	Start	End	Analyze Area Irack Count
Save Area Save Area 1	Start	End	Analyze Area Irack Count O
Save Area Save Area 1 Save Area 2	Start //	End //	Analyze Area Irack Count 0
Save Area Save Area 1 Save Area 2 Save Area 3	Start -/-/	End //	Analyze Area Irack Count 0 0 0

- 2. Click the drop-down list and select [Long Term Device (Save Area)].
- 3. Click the [Analyze Area] button and select data save area from [Save Area 1] to [Save Area 4].
- 4. Click the [Analyze Track] button.

Note: If the following error message appears after clicking the [Analyze Track] button, see the table below to rectify the error. If not rectified, contact your dealer.

Message	Remedy
[CONN] [ANALYZE] Could not analyze: Save area	The Live Player V5 program version is older than the DCU program version. Use the latest version of Live Player V5.
[ANALYZE] Could not analyze: Save-Area data. Reading failed.	The the VDR program version is older than Live Player V5 program version. Use the Live Player V5 version 1.10.

5. Click the [Connect] button.

3. EXTRACTING, REPLAYING DATA

6. Click [Extract] in the [Tool] menu.

Extraction						×	
- 🔘 Irack Se	election						
	Irack	Start	End	Period	Selected	Extract Period	
	track 1	25/03/2018 12:01:15	26/03/2018 14:40:45	26:39:30	25/03/2018 12:01:15 - 26/03/2018 14:40:45	26:39:30	
	track 2	26/03/2018 14:43:15	29/03/2018 15:51:45	73:08:30	26/03/2018 14:43:15 - 29/03/2018 15:51:45	73:08:30	
	track 3	29/03/2018 15:54:15	29/03/2018 15:55:00	00:00:45	29/03/2018 15:54:15 - 29/03/2018 15:55:00	00:00:45	
	track 4	29/03/2018 15:57:45	29/03/2018 16:44:00	00:46:15	29/03/2018 15:57:45 - 29/03/2018 16:44:00	00:46:15	
	track 5	29/03/2018 16:49:15	03/04/2018 15:06:00	118:16:45	29/03/2018 16:49:15 - 03/04/2018 15:06:00	118:16:45	
	track 6	03/04/2018 15:08:30	03/04/2018 15:34:00	00:25:30	03/04/2018 15:08:30 - 03/04/2018 15:34:00	00:25:30	
[T]	track 7	03/04/2018 15:38:30	03/04/2018 15:40:45	00:02:15	03/04/2018 15:38:30 - 03/04/2018 15:40:45	00:02:15	
	track 8	03/04/2018 15:44:00	06/04/2018 11:30:45	67:46:45	03/04/2018 15:44:00 - 06/04/2018 11:30:45	67:46:45	
	track 9	06/04/2018 11:33:15	06/04/2018 11:41:45	00:08:30	06/04/2018 11:33:15 - 06/04/2018 11:41:45	00:08:30	
	track 10	06/04/2018 11:45:30	24/04/2018 13:34:45	433:49:15	06/04/2018 11:45:30 - 24/04/2018 13:34:45	433:49:15	
- @ Direct S	O Direct Selection DD MM IIII HH MM SS						
- 📃 Data Sel	lection (All ot	her data is automatical:	Ly selected for extra	tion.)			
Audio	VHF	1/VHF2	MIC	1/MIC2	MIC3/MIC4		
			(Br	dge SIBD/Brid	ge PORI) (Bridge CENTER/C	HART Space)	
	MIC	5/MIC6	MIC	7/MIC8			
	(GM)	DSS RACK /No. 2 RADAR	.) (#1	IG SIBD/WI	NG PORT)		
Image	Rad	lar1	Rad	ar2	ECDIS		
	Gen	veral1	Gen	eral2	Additional		
Folder							
C:\Users\i	installuser				Select		
Resume]					Start Close	

- 7. Specify the extraction data by each one of the following methods.
 - · Select the track.
 - · Select date and period.

How to select the track:

- 1) Activate the [Track Selection] radio button, then check the track you want to extract.
- 2) Click the [Select Period] button to show the [Select Period] window.

Select Period		×
Irack Information		
No	: 1	
Start	: 29/11/2013 10:05:15	
End	: 29/11/2013 13:57:45	
Period	: 03:52:30	
Extract Period		
Start	Start of Irack	
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	SS 15 🛓
End	() End of Irack	
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	SS 45 📩
Extract Period	: 03:52:30	
	ОК С	ancel

- 3) Set the start time and the end time in the [Extract Period] field.When you want to extract all track, check [Start of Track] and [End of Track].
- 4) Click the [OK] button.

How to select date and period:

- 1) Activate the [Direct Selection] radio button.
- 2) Select the target date and period to extract.

				Select Period .
Direct S	election Iarget Date and Iime	DD MM 24 - / 04 - /	YYYY HH MM SS 2018 13 04 45	Extract Period (1-120 minute) $\pm 30 \frac{\text{m}}{\text{m}}$
Data Sel	ection (All other data is a	automatically selec	cted for extraction.)	
Audio	VHF1/VHF2		MIC1/MIC2	MIC3/MIC4
			(Bridge SIBD/Bridge PORT) (Bridge CENTER/CHARI Space)

- 8. Click [Select] button to open the [Open] dialog box
- 9. Select where to save the data and click the [Open] button.
- Click the Start] button in the [Extraction] dialog box. The [Extract Process] dialogbox appears and the bar graph, which indicates retrieving status, appears. When the extraction is completed, the message "Extracting data to ... completed" appears.

Note: If the [Extraction Process] window appears without clicking the [Start]button, close the window to start extracting data.

11. Click the [OK] button and then click the [Close] button.

3.2.3 How to replay the data copied into the PC

Note: When you adjust the seek bar to control position of playback, the audio data may not be replayed correctly. In this case, adjust the seek bar to move the position of playback forward or backward.

- 1. Select [Source Select] from the [Tool] menu to show the [Source Select] dialog box.
- 2. Click the drop-down list and select [Extract].
- 3. Click the [Select] button to show the [Open] dialog box.
- 4. Select the file you want to replay and click the [Open] button.
- 5. Click the [Analyze Track] button in the [Source Select] dialog box then click the [Connect] button.

Note: If "This extract data was converted from "Live(Remote)" data. It is different from the actual recorded data for that reason." appears, the selected data quality may be lower than the actual data, because the selected data is converted from "Live(Remote)" data. Extract the actual data. If you need actual recorded data, extract the data again seeing section 3.2.1.

6. Click the [Start] button to show the data on the screen.

3.3 How to replay Data and Extract the Data on an User Disk

It is possible to access and play back the data recorded in an User Disk without retrieving the data from the HDD of the replay PC. Also, the data recorded in the User Disk can be extracted to the HDD of the replay PC.

Note: Data in an User Disk can be played back and extracted only with Windows[®]7, Windows[®]8.1 or Windows[®]10. The above-mentioned operations can not be done with Windows[®]XP and Windows Vista[®].

3.3.1 How to replay the data in the User Disk

Note: When you adjust the seek bar to control position of playback, the audio data may not be replayed correctly. In this case, adjust the seek bar to move the position of playback forward or backward.

- 1. Insert an User Disk (USB flush memory) into the USB port on the replay PC.
- 2. Start the Live Player V5.
- 3. Open the [Tool] menu and select [Source Select] to show the [Source Select] dialog box.
- 4. Select [User Disk (USB)] from the drop-down list.
- 5. Click the [Select] button to show the [Open] dialog box.
- 6. Select the file you want to replay and click the [Open] button.
- 7. Click the [Analyze Track] button in the [Source Select] dialog box then click the [Connect] button.
- 8. Click the [Start] button to show the data on the screen.

3.3.2 How to extract the data from a User Disk

- 1. Select [Source Select] from the [Tool] menu to show the [Source Select] dialog box.
- 2. Click the drop-down list and select [User Disk (USB)].
- 3. Click the [Analyze Track] button.
- 4. Click the [Connect] button.
- 5. Click [Extract] in the [Tool] menu.
- 6. Specify the extraction data by each one of the following methods.
 - · Select the track.
 - · Select date and period.

How to select the track:

- 1) Activate the [Track Selection] radio button, then check the track you want to extract.
- 2) Click the [Select Period] button to show the [Select Period] window.



- 3) Set the start time and the end time in the [Extract Period] field.When you want to extract all track, check [Start of Track] and [End of Track].
- 4) Click the [OK] button.

How to select date and period:

- 1) Activate the [Direct Selection] radio button.
- 2) Select the target date and period to extract.

O Direct S	election					Select Period.
	Target Date and Time	DD MM 24 - / 04 -	TITIT HH MM / 2018 13 : 04	SS : 45 💭 Extract	t Period (1-120 minute)	± 30 💌
📃 Data Sel	ection (All other data is	automatically sel	ected for extraction.)			
Audi o	VHF1/VHF2		MIC1/MIC2		MIC3/MIC4	
			(Bridge SIBD/B	ridge PORT)	(Bridge CENTH	R/CHARI Space)

- 7. Click the [Select] button to show the [Open] dialog box.
- 8. Select where to save the data and click the [Open] button.

3. EXTRACTING, REPLAYING DATA

9. Click the [Start] button in the [Extraction] dialog box. The [Extract Process] dialog box appears and the bar graph, which indicates retrieving status, appears. When the extraction is completed, the message "Extracting data to ... completed" appears.

Note: If the [Extraction Process] window appears without clicking the [Start] button, close the window to start extracting data.

10. Click the [OK] button and then click the [Close] button.

In addition to its replay functions, this software has a "Live Play" capability when the Live Player PC is connected to the VDR with a LAN cable. The Live Player V5 allows monitoring all the data input to the VDR in real time at a remote location. This is useful for checking the current status of all devices connected to the VDR.

4.1 Wiring

Any PC in the network with the Live Player software can access the VDR. Also, two PCs can communicate with the VDR since the VDR can distribute the Live Play data. However, the operation via a router cannot be guaranteed. When you connect one PC (Live Player V5), select Unicast mode and select Multicast mode when you connect multiple PCs. You cannot select Multicast mode and Unicast mode at the same time. When the message "Live connect failed [over than number of max connection]" is shown, disconnect all live connections and connect them again.

To connect more than two PCs, consult your dealer.



Note 1: After powering the DCU, the RAP shows "Starting" and the DCU shows "No DCU connection" for approx. four minutes. Do not connect the Live Player V5 during this period, to prevent fatal error.

Note 2: The DCU's Fail Safe function may execute Process Restart, which could disconnect the Live Player V5 from the DCU. If this occurs, reconnect the Live Player V5.

Note 3: Do not connect any devices other than the VR-7000/7000S and the PC(s) w/ Live Player V5 to this network, to prevent malfunction of the VR-7000/7000S by unwanted packet transmission.

4. LIVE PLAY

4.2 How to Display Data

Following procedure is to start Live Play.

Note: When the driver install program is activated during "Live Play", the audio volume may get louder regardless of the setting on PC. In this case, reboot the Live Player V5.

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select [Source Select].



- 3. Click the drop-down list and select [Live].
- Select [Unicast] when you connct one PC. Select [Multicast] when you connect multiple PCs from [Mode Select].
 Note: When the audio or video is not played during connection on [Multicast], check [Network Interface Select] on [Source Select] dialog box to select the inter-

face for VDR connection and click the [Connect] button.

 Check [Automatically download and load Viewer Configuration] to download viewer configuration from the connection source (DCU or DRU). Check [Automatically download and load Sentence Information] to download the sentence information (PDF file) from the VDR.

Note: When you download the display form and sentence information, the current configuration is overwritten.

6. Click the [Connect] button.

Note: If one of the following messages appears, after clicking the [Connect] button, see the following table to rectify the error. If not rectified, contact your dealer.

Message	Remedy
Live connect failed [over the num- ber of max connection]	The maximum number of the PC connected to the DCU is exceeded. Disconnect other PC from the DCU.
	The Live Player V5 program version is older than the DCU program version. Use the Live Player V5 latest version.

Message	Remedy
[CONN] Connection error. Live (IP address is shown)	The wrong IP address is entered. Confirm the IP address of the DCU, then enter the correct IP address.
	The the DCU program version is older than Live Player V5 program version. Use the Live Player V5 version 1.10.
To VDR connection has been re- jected. Because Live (Remote) is connecting.	VDR is connecting in Live (Remote) mode. Connect again after the alert 412901(Live- play Not Available) disappears.

7. Click the Start button to play back data in real time.

ONTROL		
		//::
[-+ 0		0

Start button

To pause the live play, click the Pause button.



8. To stop playing back the data, click the Stop button.

Note: When the message "To VDR connection has been disconnected. Because came Live(Remote) connected." is shown, Live play stops and Live Player V5 is disconnected form the VDR. Connect again after the alert 412901 (Liveplay Not Available) disappears.

4. LIVE PLAY

This page is intentionally left blank.

5. DATA DECODER

The decoder library is used to organize the decoders. A decoder is a small script that describes how information is decoded and retrieved from a specific NMEA sentence. This means any sentence can be decoded and displayed in a user-specified form with this software if the sentence fully meets the NMEA standard (proprietary sentence is also accepted).

The decoder descriptions use VDR specialty script language. The descriptions are checked, and if error is found, the message "Syntax error" appears. When this occurs, data cannot be loaded or saved.

5.1 Opening the Decoder Library

- 1. Click [Configuration] menu > set [Configuration Mode] to [ON].
- 2. Click [Configuration] menu and [Decoder Library] to show the [Decoder Library] dialog box.
- Click the applicable "+" button in the left window to show the data sentences for that group. Click an item to show its information in the [Decoder Information] window. This library supports all the sentences specified in IEC 61996. See section 5.2.
- 4. To edit a sentence, click the [Edit] button.
- 5. A confirmation message appears. Click the [OK] button in the message to show the [NMEA Decoder Editor]. See section 5.3.

Sentences not supported by this library can be input to the VR-7000/7000S to create a decoder for the sentence. In addition, you can program the decoder so that a specified data can be picked up and displayed on the [Replay] and [Live Play] window.

5.2 Decoder Library

The [Sort By] feature sorts the library by [Decoder Group], [Sentence Formatter], or [Decoder Name].

lle	
File Sort By Decoder Group Sentence Formatter Decoder Hame AIS Ficho sounder Engine Hading Hull Rudder Rudder Layoffset (DTM)	Decoder Information: Decoder Group: Input Type: Sentence Form Decoder Output: Decoder Description:
Latitude (GGA) Latitude (GLL) Latitude (GILS) Latitude (GNC) Longitude (GAA) Longitude (GAA) Longitude (GIL) Longitude (GIL) Mode (GIL) PositionIntegrity (USR) PositionPlausibility (USR) Longitude (GIS) Longitude (GIC) Longitude (GIC) Longitude (GIC) Longitude (GIL) Longitude (G	Sub-Library File:
	Edit Close
	Decoder library
Red "X": write-protec	ted
L Decoder group	

[Decoder Group]: A decoder belongs to a group, and all decoders in the same group are stored in the same folder. Groups have been defined corresponding to the data items to be recorded. The user may establish new groups.

[Sentence formatter]: A decoder is only able to retrieve information from one specific NMEA sentence. A typical decoder is only able to retrieve information from one field in an NMEA sentence. Most NMEA sentences contain many fields, hence a number of decoders may be needed for retrieving all the information from one sentence.

ile			
Cort By	Decode	er Information:	
Decoder Grown	Decod	ler Group:	
O become of oup O bencence formacces. O become	name	Shins nosition	\
ACM	*		
ACIT	Inpu	it Type:	Sentence Form
ALA	-		
🚺 ALC	IME	A	DIM
🐌 ALF	D	In Ontrati	
ALR	Decod	ter output.	
DOR	=	Text	
DPT	D	I. D	
DIM	Decod	ter Description.	
(Martin tude (DIM)			
(W Datum (DIM)			
TatumSubCode (DIM)			
TonOffset (DTM)			
ReferenceDatum (DTM)			
- BIL			
FIR			
🕼 gen			
GGA			
🕌 GLL			
HBT			
HDG	Sub-L	ibrary File:	

Sentence formatter

[Decoder name]: A decoder must be assigned a name, and the name must be unique within the decoder group.

File	
File Sort By Decoder Group Sentence Formatter Decoder Hame A C D E F F C Last Change (ALF) C Last	Decoder Information: Decoder Group: Ships position\ Input Type: Sentence Form IMEA DIM Decoder Output: Text Decoder Description:
Longi tude (GLL) Longi tude (GLS) Longi tude (GLS) Longi tude (MC) Dead V: M/rite purchastand	Sub-Library File:

[Write-protected decoders]: A number of standard decoders (protected decoders) have been defined. These decoders are write-protected and cannot be changed or deleted by the user. These are indicated with a red "X" mark as shown above. However, the operator may use one of these decoders as a template for a new decoder.

[Sub-library]: The Player, at startup, "compiles" the library from a number of library files each containing a number of decoders. The standard decoders are stored in one file and another file is used to store the user-defined decoders. The user is not able to add or delete the sub-library files.

[Decoder output]: The output from a decoder may behave like analog data, digital data or a text string. This information may be indicated for a decoder. However, this information is only informative and will not be used by the Player.

[Input type]: The input type of the standard decoders defined are all NMEA. A unique input type can be defined for a decoder.

Drop down menus

[File] -> [Import]: Import decoders from an external file. The imported decoders will be added to the user defined sub-library file.

[File] -> [Export]: Four choices to export decoders:

[All Decoders]: Export all decoders

[Selected Decoder/Folder]: Output decoders contained in a folder.

[All Decoders (incl. Library decoders)]: Export all decoders incl. library decoders.

[Selected Decoders (incl. Library decoders)]: Export all decoders contained in a folder, incl. library decoders.

Note: When the decoder detects an error, data cannot be imported or exported and the message "syntax error" appears.

Decoder library

• The decoder library is shown to the left. The "radio buttons" at the top define how the library is organized.

5. DATA DECODER

- A context-sensitive menu, which has the functions listed below, is available by right clicking on a folder or a decoder.
 [New Folder]: Add a new folder in the library.
 [New Decoder]: Add a new decoder in the library.
 [Copy]: Copy the selected decoder.
 [Edit]: Open the decoder edit screen.
 [Rename]: Change the name of selected decoder or folder.
 [Delete]: Delete the selected decoder or folder.
- A new "root folder" can be created by right clicking on the empty space beneath the "library tree".

Decoder description

The remaining decoder properties, for the selected decoder, are shown in decoder description located to the right of the decoder library window.

5.3 Decoder Editor

You can edit a decoder that has been defined, in the [Decoder Editor] screen. The [Decoder Editor] may be opened from the decoder library (see next page). Select a decoder from the [Decoder Library] dialog box and click the [Edit] button.

Note: Do not create a blank decoder. Viewer settings cannot be downloaded if they were uploaded with a blank decoder.

Decoder Editor			×
Decoder Information Decoder Name	Decoder Editor Input Type	Sentence Formatter	
Latitude (GGA)	IIMEA -	GGA	
Decoder Output			
Text 👻	Decoder Input Symbol		
Decoder Description	<pre>if (strcmp(#7, "6")==0) { print(" Est"); return;</pre>		*
	}		
	if (strcmp(#7, "7")==0){		
	return;		
	}		
	1f (strcmp(#/, "8")==0) { print("Sim"):		
	return;		
	}		=
	print(Unknown);		-
	•		Þ.
	Decoder Test		
	Test Sentence		
			-
	Test Button Result	Irend Value	
		Save As OK C	Cancel

General buttons

[OK]: Save changes after the editor window is closed. The previous version of the decoder is overwritten.

[Cancel]: Close the editor window; any changes made will be ignored and lost. **[Save As]**: Close the editor window. Changes made may be saved if the [Save As] button in the decoder library is activated. This will give the operator an opportunity to save the changes using a new name/folder while maintaining the previous version of the decoder.
To make a new decoder, do as follows:

- 1. Click [Configuration] menu > [Configuration Mode] > ON.
- 2. Click [Configuration] menu and [Decoder Library] to show the [Decoder Library] dialog box.
- 3. Select the [Decoder Group] radio button in the [Sort By] window.

Decoder Library	
File	
File Sort By Decoder Group Sentence Formatter Decoder Hame AIS AIS Labo sounder Engine CFS Heading Hull Kudder Engine sounder File speed Hull Speed Telegraph Telegraph Wind speed and direction	Decoder Information: Decoder Group: Input Type: Sentence Form Decoder Output: Decoder Description: Sub-Library File:
	Edit Close

- 4. Right click on the empty space beneath the library tree in the [Decoder Library] to show the [New Folder] button.
- 5. Right click the [New Folder] button and click [Rename] to enter a name for the folder (For example: Contact Signal).
- 6. Right click the new folder (for example, Contact Signal was named at step 5) and click [New Decoder] in the menu displayed.
- 7. Right click [New Decoder] and click [Rename] to enter a name for the new decoder (for example: No.1 Door).

Sort By Decoder Group Sentence Formatter Decoder Name	
ATS AMS Choice Second Constraints Constraints Amount Constraints Cons Constraints Constraints Constraints Constraints Const	——New folder ——New decoder name

5. DATA DECODER

8. Double click the new icon (in the example in step 7 it is No. 1 Door) to show the Decoder Editor dialog box.

Decoder Editor	×
Decoder Information Decoder Name Doppler Decoder Output Undefined Decoder Description	Decoder Editor Input Type Sentence Formatter Decoder Input Symbol
	Decoder Iest Test Sentence Test Button Result Irend Value
	Save As OK Cancel

9. Select and enter items as follows.

Input Type Sentence Formatter Decoder Output IMEA Undefined Decoder Input Symbol Decoder Description 1 Search for "PRATDOI" ← Begin 1 Search for "PRATDOI" ← Begin 3 print "CLOSED" 4 stop 5 endif 5 endif 9 end if Enter descriptive 8 stop 9 end if Enter script for defining decoder. Use VDR dedicated-script language*. Enter test sentence in NMEA format.** Decoder Iest Test Sentence SPWTDD1, OPEN.A Test Button	Decoder Information Decoder Name	Decoder Editor
Decoder Output Undefined Decoder Description Doppler signal Finter descriptive name for decoder. Decoder Iest Test Sentence SPWTDD1, Decoder Iest Test Sentence SPWTDD1, Decoder Iest Test Sentence SPWTDD1, Decoder Iest Test Sentence SPWTDD1, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence SPWTD01, Decoder Iest Test Sentence	Doppler	Input Type Sentence Formatter
Undefined Decoder Input Symbol Deppler signal 	Decoder Output	
Decoder Description Poppler signal Enter descriptive name for decoder. I Search for "PWATDOI" ← Begin I Search for defining I Search for defining I Search for mature I Search fo	Undefined	 Decoder Input Symbol
Doppler signal Image: Deprint "Closed" A stop Enter descriptive name for decoder. Image: Deprint "OPEN" P end if Enter script for defining decoder. Use VDR dedicated-script language*. Enter test sentence in NMEA format.** Decoder Test Test Button Result Trend Value	Decoder Description	1 Search for "FWATD01" - Begin
Enter descriptive name for decoder.	Doppler signal	2 11 # 3- CLOS 3 print "CLOSED" 4 stop 5 endif 6 if #3="OPEN" 7 print "OPEN"
name for decoder. Decoder Iest Iest Button Result Irend Value	Enter descriptive	9 end if Finter script for defining
Decoder Test Test Button Result Trend Value	name for decoder.	decoder Use VDR
Enter test sentence in NMEA format.** Decoder Iest Test Sentence SPWTD01,.OPEN,A Test Button Result		dedicated-script language*
Enter test sentence in NMEA format.**		dedicated-script language .
NMEA format.** Decoder Iest Iest Sentence SPWTDD1,.OPEN,A Test Button Result Irend Value		Enter test sentence in
Decoder Iest Iest Sentence SPWTDD1.,OPEN.A Test Button Result Irend Value		NMEA format.**
Test Button Result Irend Value		Decoder Test Test Sentence \$PWTD01,OPEN,A
		Iest Button Result Irend Value

*: Contact Furuno service center for details.

**: Do not enter checksum.

10. Click the [Test Button] button. The decoder may be tested against an NMEA sentence. The test results are displayed in the [Result] box and the [Trend Value] box. The decoded data is checked, and if error is found the message "syntax error" appears. The decoder cannot import or export data when error is found.

)ecoder Information Decoder Name	Decoder Editor	Sentence Formatter
Doppler	IMEA	
Decoder Output	(<u>ا</u>
Undefined 🔹	Decoder Input Symbol	
Decoder Description	1 Search for "PWATD01"	
Doppler signal	<pre>3 print "CODED" 4 stop 5 endif 6 if #3="OPEN" 7 print "OPEN" 9 end if Decoder Iest Iest Sentence Iest Button Result</pre>	ird data in the test sentence EN" and then "OPEN" is yed as result.

- 11. Enter [Decoder] name and click the [Save As] button to save the decoder and erase the [Decoder Library] dialog box.
- 12. Click the [Close] button.

5. DATA DECODER

This page is intentionally left blank.

6. OTHER SETTINGS

6.1 Alert Popup

The [Alert Popup] dialog box provides the following operations:

- displays alert information (time and status of alerts)
- acknowledges alerts, stops buzzer
- · configures objects for alerts

To show the [Alert Popup] dialog box, set the Configuration Mode to OFF, click [Tool] and [Alert Display] on the menu to activate the [Alert Popup] dialog box.

Note: Select [Live], [Fixed DRU], [Float DRU], [Long Term Device (Direct)], [Long Term Device (LAN)], [Long Term Device (Save Area)], [User Disk (USB)] or [Extract] from the [Source Select] dialog box in advance.

Alert Popup		×
		Buzzer Stop ACK
Alert		
Time ∇	Alert	Status
Pending Alert		
	Alert	Status
11me v	hiert	Status
		Close

[Buzzer Stop] button: Mute the audio until a new alert is generated. **[ACK] button:** Acknowledge alerts (one by one) shown.

Configuration of objects for alerts

The [Alert Definition List] stores up to 50 objects for alerts. When the storage capacity is exceeded, an error message appears. If this occurs, do not click the Close button to close the window. Configuration cannot be completed correctly.

1. In the [Configuration Mode ON] state, click [Alert Definition] in the [Configuration] menu to show the [Alert Definition List].



2. Click the [Add] button to show the [Alert Definition] dialog box.

Alert Definition	X
Alert Name	
Occurrence Condition	
	Set Clear
Buzzer	
	Select
Recovery Condition	
	Set Clear
	OK Close

- 3. Enter a name for the alert in [Alert Name] box. A maximum of 32 characters may be used. Do not exceed 32 characters, because all alerts cannot be displayed if an alert name is too long.
- 4. Click the [Set...] button to right of the [Occurrence Condition] box.

 Open the [Analog], [Digital], [Serial] or [Sensor (LAN)] tab and enter the condition that triggers the alert for each format.
 [Analog] tab

Alert Condition Definition

Set a signal input channel among AN001 to AN120. Set a formula for the alert conditions.



Example: If a signal of input ch. AN001 is greater than 12 and less than 24, then 12 < AN001 < 24

[Digital] tab



Set a signal input channel among DC001 to DC640 and select 1 or 0. **Example**: If a signal level is normal low (0) and the signal goes to high level (1) for alert state, select 1.

[Serial] tab

Alert Condition Definition
Analog Digital Serial Sensor (LAN)
Channel SI01 -
Library
Number () Channel -
Letter 🔘 Equal
OK Close

Set a signal input channel among SI01 to SI72. (SI17 and higher are no use.) Select a signal sentence in the Library. Select a setting method between [Number] and [Letter]. For [Number], set a formula for the alert condition.

Value	Symbol	Input ch.	Symbol	Value
Α	blank	SI001	blank	В
	< <= (≦) != (≠)		< <= (≦)	

Example: If a signal of input ch. SI001 is greater than 12 and less than 24, then 12 < SI001 < 24

[Sensor (LAN)] tab

Alert Co	ndition Definition
Analog	Digital Serial Sensor(LAN)
Channel	
Libr	ary
Number	O Channel
Letter	◎ Equal
	OK Close

Set a signal input channel among LN01 to LN64. Select a signal sentence in the Library. Select a setting method between [Number] and [Letter]. For [Number], set a formula for the alert condition.

Value	Symbol	Input ch.	Symbol	Value
Α	blank	LN001	blank	В
	<pre>> </pre> <pre>> </pre> <pre>> </pre> <pre>> </pre> <pre>> </pre> <pre>> </pre>		< <= (≦)	

Example: If a signal of input ch. LN001 is greater than 12 and less than 24, then 12 < LN001 < 24

6. Click the [OK] button several times to close the [Alert Definition List].

6.2 Settings for Alert

6.2.1 Buzzer setting

Set how to handle the buzzer that sounds for alerts.

- 1. Select [Buzzer Setting] from the [Tool] menu.
- 2. Select a radio button.
 - [Once]: The buzzer sounds once.
 - **[Loop]**: The buzzer sounds continuously. To stop the buzzer, click the [Buzzer Stop] button in the [Alert Popup] screen.
 - [Disable]: Mutes the buzzer.
- 3. Click the [OK] button.

6.2.2 Alert popup screen

Activate or don't activate the [Alert Popup] screen when an alert occurs.

- 1. Select [Alert Popup] from the [Tool] menu.
- 2. Select [ON] or [OFF] as appropriate.
 - **[ON]**: Activate the [Alert Popup] screen when an alert occurs.
 - **[OFF]**: Don't activate the [Alert Popup] screen when an alert occurs.

Alert Popup			×
		Buzzer Stop	ACK
Alert			
Time √	Alert	Status	
11/07/2008 16:00:18	analog03	Recover	
Time √	Alert	Status	

[Buzzer Stop] button: Click to stop the buzzer. **[ACK]** button: Acknowledge alerts shown.

Buzzer setti	
Once	
Loop	
🔘 Disable	
OK Cancel	

6.3 Extraction of Recorded Data

The analyze function can extract a necessary data from recorded data and save it to the HDD in the PC.

Notes on extraction

- Free space of more than 30 GB is required in the C drive of the PC to create a temporary file for the analysis.
- The data recording more than 13 hours cannot be extracted and analyzed at once.
- When you click the [Extract Furuno Format] or [Extract IEC Format] button consecutively, two [Extract Process] windows are shown and you cannot close the Live Player V5. In this case, activate the task manager of Windows[®] to shut down the task.
- Do not set the source to other than [Extract], [Long Term Device (LAN] or [Long Term Device (Save Area)] for recording.
- If "Get size failed" appears at the start of extraction, click the [OK] button to start.
- The forecasted value of the displayed data size is the overall data size. It is not the size of the extracted data.
- If extraction does not start properly, restart the Live Player and try again.

How to extract recorded data

- 1. Set the Configuration Mode to OFF, then select [Source Select] from the [Tool] menu.
- 2. Select a data source (except Live) from the drop-down list and connect the line.
- 3. Click the [Analyze Track] and [Connect] buttons.
- 4. Click [Analyze] in the [Tool] menu to show the [Extractor Analysis] dialog box.

Extractor	Analysis	-	4								×
Irack Sel	ection										
	Irack	Start		End		Period	Selected			Extract	Pe
	track 1	15/01/201	5 03:41:00	15/01/2015 03	3:45:00	00:04:00	15/01/2015 03:41:00	- 15/01/2015 (3:45:00	00:04:00	
	track 2	15/01/201	5 16:49:30	16/01/2015 02	2:00:15	09:10:45	15/01/2015 16:49:30	- 16/01/2015 0	2:00:15	09:10:45	
	track 3	16/01/201	5 02:05:00	16/01/2015 02	2:14:30	00:09:30	16/01/2015 02:05:00	- 16/01/2015 0	2:14:30	00:09:30	
	track 4	17/01/201	5 18:25:30	18/01/2015 01	:18:00	06:52:30	17/01/2015 18:25:30	- 18/01/2015 (1:18:00	06:52:30	
									S	elect Per	·iod
Data Sele	etion						File Format				
Audio		VHF 1	VHF2				Audi o	16bit 1	6000Hz PCM	1	
		MIC1	MIC2	MIC3	mi Mi	C4					
		MIC5	MIC6	MIC7	mi Mi	C8					
Radar		Radar1	Radar2	ECDIS	🕅 🕅	lditional	Radar	O BMP	O PHO	9	O JPEG
Additi	onal Info	🕅 R1	E R2	🕅 R3	🕅 R4		Additional Info	O CSV			
		🕅 E1	E2	📰 E3							
Serial	í.	Select Cha	innel				Serial	© CSV			
Sensor	(LAII)	Select Cha	nnel				Sensor (LAN)	O CSV			
Analog	5	Select Cha	nnel	Raw	O Engine	eer	Analog	CSV			
Digita	1	Select Cha	nnel	Raw	O Engine	eer	Digital	O CSV			
AMS		AMS1	AMS2				AMS	© CSV			
Histor	у	All C	Alert Only	O 0ff			History	© CSV			
Senten	nce	Select Dat	a				Sentence	© CSV			
Additiona	l Informatio	n									1
VIC A	nd Serial Ch	annel No.									
Folder/Fi	lename										
C:\Users	VDR						Select				
							Extract IEC Format	Extract	Furuno Fo	ormat	Close

5. Check the track to extract in the [Track Selection].

6. Click the [Select Period] button and set the start time and the end time.

Select Period	
Track Information	
No	: 1
Start	: 29/11/2013 10:05:15
End	: 29/11/2013 13:57:45
Period	: 03:52:30
Extract Period	
Start	Start of Irack
	$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
End	Ind of Irack
	$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
Extract Period	: 03:52:30
	OK Cancel

- 7. Click the [OK] button to confirm the times and return to the [Extractor Analysis] dialog box.
- Put a checkmark on data type and channel on the [Data Selection] window. For [Serial], [Sensor (LAN)], [Analog], [Digital], click corresponding button and select required channel. [History] defines what data to extract. [All] extracts all data, [Alert Only] extracts only alert data and [Off] extracts no data.
- 9. Define an output format for each data in the [File Format] window.
- 10. Click the [Select] button and specify saving location in the [Folder/File Name] field.
- 11. Click the [Extract Furuno Format] button.
- 12. After completing the extraction ([Progress of All] becomes 100%), click the [Close] button.

6.4 Audio Setting

The audio can be set from the menu bar. Click the [Tool] menu in the menu bar and then click [Volume] to show the [Audio Volume] dialog box. (If a password was defined at installation, enter the password.) Set each item as shown in the figure below.

Audio Volum	ie		×	
Audio Setti	ing		Volume	
[VHF1]		[VHF2]	-	 Click each loudspeaker icon to turn on or off.
[MIC1]		[MIC2]		
[MIC3]		[MIC4]		Adjust volume of audio.
[MIC5]		[MIC6]		
[MIC7]		[MIC8]	Mute	
			Close	Check to mute audio.

Intermittent audio at playback

Depending on the PC, you may hear audio intermittently. In this case, set the audio.ini file as follows.

- 1. Close the Live Player V5.
- Open the audio.ini file in C:\Program Files*\VDRViewer\Viewer\config folder by the Notepad. *"Program Files (x86)" for 64 bit Windows[®]8.1.
- 3. Change LocSoftWare = 0 to LocSoftWare = 1.
- 4. Change RestoreDirectSound = 0 to RestoreDirectSound = 1.
- 5. Save and overwrite the audio.ini file.
- 6. Start the Live Player V5.

No audio at playback

If there is no audio from a Windows $XP^{\mathbb{R}}$ PC during playback, do as follows to get audio.

- 1. Click the [Start] button, [Control Panel], [Sound and Audio Devices].
- 2. Click the [Audio] tab, then click the [Advanced] button.
- 3. Click the [Performance] tab.
- 4. Move the [Hardware acceleration] slider all the way left.
- 5. Click the [OK] button twice.

6.5 How to Set Password for Audio Reproduction

Do the following procedures to set password for audio reproduction. The default has no password.

1. Select [Password] from the [Tool] menu to show the [Password Setting] dialog box.

Password Sett	ing	×
01d	Password :	
New	Password :	
Confirm New	Password :	
		0K Cancel

- 2. Enter old password in the [Old Password] box. (In the default setting, no password is set.)
- 3. Enter new password in the [New Password] box.
- 4. Enter the new password in the [Confirm New Password] box.
- 5. Click the [OK] button.

How to set audio reproduction

You can set the audio reproduction on or off.

- 1. Select [Audio] from the [Tool] menu.
- Select [ON] or [OFF] as appropriate.
 If you select [ON], the password screen appears.
- 3. Enter password and click the [OK] button.

6.6 How to Open the Sentence Information

When the sentence information (PDF file) is saved in the VDR, the sentence information is automatically downloaded during "Live Play" or replaying the data via LAN connection ([Long Term Device (LAN)]) in the case of checking [Automatically download and load Sentence Information]. The following message appears after downloading the sentence information.



Select [Sentence Information] from the [Tool] menu, to open the downloaded sentence information. After selecting [Sentence Information], the PDF file viewer automatically starts and opens the sentence information.

Note 1: An application for viewing the PDF file should be installed your PC to open the sentence information.

Note 2: If the sentence information is not downloaded, [Sentence Information] on the [Tool] menu is grayed out and cannot be selected.

6.7 How to combine extracted data

The [Combine extracted data] function lets you combine two data files, extracted from the same VDR, into one file. You can also use this function with files which have different extraction settings. This function is available without connecting the VR-7000/S.

Note 1: The data to be combined must be extracted from the same VDR. However, if the VDR configuration is changed between the two extractions*, this function is not available.

*: Adjusted by the service person from the VDR Maintenance Viewer.

Note 2: Do not use data that is converted at section 11.4.3. Correct data cannot be generated.

Note 3: When the audio data is part of the combined data, there may be a slight delay in audio playback.

Note 4: When the [Combine extracted data] window is not shown, run "vc.exe" in the accessory CD to install Visual $C++^{\mathbb{R}}$.

Note 5: Do not set the same folder when you select [Source 1 Select], [Source 2 Select] and [Output Folder Select].

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select [Combine extracted data].

Combine extracted data	
Source 1 Select	Select
Source 2 Select	Select
Output Folder Select	Select
Progress of all	0%
Combine	Cancel

- 3. Click the [Select] button on [Source 1 Select] to set the data to be combined.
- 4. Click the [Select] button on [Source 2 Select] to set the data to be combined.
- 5. Click the [Select] button on [Output Folder Select] to set the folder to save combined data.
- 6. Click the [Combine] button.

7. LIVE PLAYER V5 BACKUP

The Live Player V5 can use the internal hard disk in a PC for backup, however it is strongly recommended that an external removable hard disk be used for this purpose.



Desktop PC

To start backing up data, select [Backup] in the [Tool] menu to show the [Backup] dialog box.

Backup	X
Modify	Record Stop
Status	: Not Recording
Size	: -MB : -days
-	
IP Address	: 172 31 16 200
Backup Folder	:
End of Disc Action	: Stop Recording
	Close

Note 1: Do not start the backup program when playing back live. This will overload the processor and the backup or live-play will not work.

Note 2: Duration of Backup

The VDR typically generates 24GB of data each day (in case of radar 3ch). Make a folder for storing data. Do not save the data to the root of the drive, because data in the root will be erased when the backup begins.

Note 3: Use a removable disk formatted to NTFS. Do not use a removable disk formatted to FAT32.

Note 4: If you force-quit the Live Player V5 during the backup process, restart the Live Player V5 and perform the backup process again.

Note 5: Deactivate the anti-virus software (Norton, Kaspersky or Virus Buster) before the backup. The backup may stop if a anti-virus program is active.

7.1 Starting the Backup Process

A disc must be selected for back up before the backup process can start.

- 1. Open the [Tool] menu then select [Backup] to show the [Backup dialog] box.
- 2. Click the [Modify] button in the [Backup] dialog box to show the [Backup Config] dialog box.

Backup Config		×
IP Address	:	
Backup Folder	:	Select
Backup Region	:	MB 👻
End of Disc Act	tion	
Stop Recordi	ing	
🔵 Ignore Warni	ing and Continue	
		OK Cancel

3. Click the [Select] button and specify a folder to be saved. A new folder is created and named by date and time in the specified folder.

Note 1: All data in the specified folder for backup are erased. Be sure to specify a new folder for backup.

Note 2: Do not save data to root of drive. Make a new folder and save data there.

- Set a volume for backup data in the [Backup Region] box (more than 500 MB).
 Note: This setting should not exceed the amount of free space at the saving location.
- 5. Set the IP address of the VR-7000/7000S in the [IP Address] box. See section 1.2 for the IP address of the PC.
- 6. Check [Stop Recording] in the [End of Disc Action] window to stop when the volume of the disc reaches the volume specified in the [Backup Region] box. Check [Ignore Warning onand Continue] to continue even if the volume of the disc reaches the volume specified in the [Backup Region] box - the oldest data will be overwritten.
- 7. Click the [OK] button to close the [Backup Config] dialog box.
- 8. Click the [Record] button in the [Backup] dialog box to start backing up data. The bar graph in the [Backup] dialog box shows progress.
- To stop backing up data, click the [Stop] button in the [Backup] dialog box.
 Note 1: After you stop or finish backing up data, disconnect the external HDD or reboot the PC. For Windows[®]8.1, the shutdown function does not stop the backup function.

Note 2: After closing then re-opening the [Backup] dialog box, if the [Stop] button does not respond, or the graph is not shown, close and re-open the dialog box again.

7.2 Settings After Restart of Program

Setting data is backed up to the disc upon exit from the program. Backup will be done in subsequent exits provided the disc used for the previous backup is still available.

Note 1: The Live Player continues to store data automatically after recovery of lines, close of Backup dialog box or restart of the VDR.

Note 2: When you restart the PC during backup, the backup will not restart automatically. For how to restart backup manually, see the procedure in section 7.1.

7.3 Replaying the Extracted Data

- 1. Start the Live Player V5 software.
- 2. Click the [Tool] menu and [Source Select] to show the [Source Select] dialog box.

Source Sele	ect			X
Extract	▼ Au	tomatically download v	viewer Configration.	
	Connect to Source	:	Select	Analyze Track
Irack	Start	End	Recordi	ng Term
Do not	display this when the app	lication begins.	Connec	ct Cancel

- 3. Select [Extract] from the drop-down list.
- 4. Click the [Select] button and select a folder you want to replay.
- 5. To see track information in the extracted data, click the [Analyze Track] button. The track information appears in the lower part of the dialog box.
- 6. Click the [Connect] button in the dialog box.
- 7. Click the Start button to replay the extracted data. The replaying will start.
- 8. To stop replaying, click the Stop button.

7. LIVE PLAYER V5 BACKUP

This page is intentionally left blank.

8. SERIAL OUTPUT FOR OTHER APPLICATIONS

The Live Player V5 can output serial data to other applications.

Configuration of serial output

1. In the Configuration Mode [OFF], click the [Tool] menu and [Serial Output] to show the [Serial Output] dialog box.



2. Click the [Add] button to show the [Serial Output Config] dialog box.

Input : Inactive		Active	
SI01			
SI02			
SI03	E		
SI04	- 137		
SI05			
SI06			
SI07			
SI08			
e0IS			
SI10			
SI11			
SI12			
SI13			
SI14			
SI15			
SI16	*	10	
Output : [COM1 🕶]	Detail Setting		

3. Select a serial output port of the VR-7000/7000S from the [Inactive] window and move it to the [Active] window.

8. SERIAL OUTPUT FOR OTHER APPLICATIONS

 Select an output port (serial port on the PC that operates the Live Player) from the [Output] drop-down list.
 Note: Up to four partial output parts can be calculated in numerical order. More than

Note: Up to four serial output ports can be selected in numerical order. More than five output ports cannot be selected.

5. Click the [Detail Setting] button to show the [Serial Output Detail Config] dialog box.

Vse Default Se	tti	ng	
Bits per second	:	9600	
Data bits	:	8	Ŷ
Parity	:	None	Y
Stop bits	:	1	v
Flow control	11	None	-

- 6. To use the default settings, check the [Use Default Setting] box. If you do not use the default, set each item in the dialog box.
- 7. Click the [OK] button. The [Serial Output Detail Config] dialog box disappears.
- 8. Click the [OK] button.
- 9. Enter check mark in the row of [Active] and set items for data output.

The operator may select a number of data sources and one output port.

To modify the serial output, select the item you want to modify and click the [Modify] button.

Merging of data

The program is designed to handle NMEA sentences, i.e., two sentences will not be interleaved but sent one at a time. The program may fail to relay ASCII or binary data depending on the properties of the data.

9. AIS DISPLAY

NOTICE: The AIS display shows the <u>past</u> recorded information of other vessels. Do not use the information for navigation.

9.1 Display Layout

Click the [AIS Viewer] tab to show the AIS display. Click [Source Select] in the [Tool] menu. Set media, then click the [Start] button to show AIS data.

Note 1: The presentation mode is fixed to North-up (true bearing). See below for description of display items.

Note 2: The AIS display shows relative positions of AIS targets referenced to own ship position found in the VDO sentence.



(1) AIS graphic window

Displays AIS transponder equipped vessels with symbols.

- The concentric circles are range rings. You can change range by clicking the [Zoom In] or [Zoom Out] button. You can display this window in full screen by double clicking the AIS window.
- The radial line extending from screen center is own ship's heading.
- AIS targets are marked with a triangle. Symbol appearance changes with target status. The display can show a maximum of 500 targets (nearest targets from own ship) simultaneously.

(2) Own ship information

Latitude, Longitude, SOG (speed over ground), COG (course over ground) of own vessel is shown. You can display detailed information by clicking the [Details] button. See section 9.4.

(3) Target data box

A target is selected by left-clicking it on the graphic area. Click it again to deselect. The data of three targets may be shown simultaneously. See section 9.5. To clear data, click the [Close] button. Other ships' data includes Name, Call sign, SOG, COG, TCPA and CPA. To display detailed data, click the [Detail] button.

(4) Cursor data

Bearing and range from own ship to cursor position.

(5) [Settings] button

Click the [Settings] button to display the following dialog box and set necessary items.

AIS Display Properties	5		×
Settings			
CPA threshold:	0.0	11M	(0 - 10.0)
TCPA threshold:	0.0	min	(0 - 60.0)
ROT threshold:	0.0	°/min	(0 - 720.0)
Selected Channel:	(None) 🔻		
Scale of Distance:	© 011	OFI	
		0K	Cancel

[CPA threshold]: Set further distance for which to classify a target as a dangerous target.

[TCPA threshold]: Set maximum time for closest point of approach for which to classify a target as a dangerous target.

[ROT threshold]: Display condition of ROT direction. Set highest ROT value for which to display ROT line on target.

[Selected Channel]: Set serial port of the VR-7000/7000S that AIS data inputs. **[Scale of Distance]**: Turn range ring distance indication on or off.

(6) [All Sentence] button

Click the [All Sentence] button to show all AIS sentences.

(7) Target list

Lists all targets, in range order from own ship.

[Label]: The label A, B or C is attached to targets selected to show their data in the Target Data Box.
[MMSI]: MMSI number of target
[Name]: Ship's name of target
[Call sign]: Call sign of target

[Range]: Distance from own ship to target[Bearing]: Bearing from own ship to target[Target]: Status of target (dangerous or lost) is also indicated.

To display detailed data about a target, select it from the list and click the [Detail] button.

9.2 Target Symbols

AIS target	Symbol	Description of symbol
Sleeping target	\checkmark	An isosceles, acute-angled triangle with its centroid repre- senting the target's reference position. The most acute apex of the triangle is aligned with the heading of the tar- get, or with its COG, if heading information is not available.
Activated target	\checkmark	Same as above but line is thicker.
Dangerous target	\checkmark	A target becomes a dangerous target when its CPA and TCPA are smaller than a set value. The symbol is displayed in red.
		If the TCPA becomes negative, the dangerous target be- comes a normal target.
Heading line	1	A thin green line is put at the apex of the target to indicate the vessel's heading.
Heading line, ROT		Direction of turn indication (if available) to display actually initiated course.
Speed vector		The speed vector is displayed as a dashed line starting at the centroid of the triangle.
A to N	$\stackrel{\bullet}{\Leftrightarrow}$	Aid to navigation
Selected target		A selected target is marked with a broken square.
Lost target	Lost A to N Lost AlS target	A target changes into a lost target when its data is not re- ceived for three minutes. Further, the lost target disap- pears when no data is received for an additional three minutes.

9.3 Display Range

Display range may be chosen by clicking the [Zoom In] or [Zoom Out] button. The table below shows the available ranges.

Range (NM)	0.125	0.25	0.5	0.75	1	1.5	2	3	4	6	8	12	16	24	48	96
Range ring interval (NM)	0.025	0.05	0.1	0.125	0.2	0.25	0.4	0.5	1	1	2	2	4	4	8	16
Number of Range rings	5	5	5	6	5	6		6	4	6	4	6	4	6	6	6

9.4 Own Ship Details Window (detailed information)

Click the [Detail] button in the own ship information area to show the own ship details data. The window shows the data for Message ID 1. "---" is shown where there is no data.

Message10 Field No. Data • Message10 : Repeat indicator default • Message10 : Nessage10 : Repeat indicator • Message10 : Nessage10 : Nessage10 : • Message10 : Doition accuracy Le • Message10 : Latitude 103* 53.7231' E • Message10 : Reserved for regional applications 0 • Message10 : Reserved for regional applications 0 • Message10 : Nessage10 : Nessage10 : Nessage10 : • Message10 : Nessage10 : Nessage10 : Nessage10 : • Message10 : Nessage10 : Nessage10 : 0		Ownership Details	;
• MessageID 1 MessageID 2 • MessageID 2 Respet indicator default • MessageID 4 User ID 000000001 • MessageID 5 Havigational status 15: not defined • MessageID 6 Rate of turn	MessageID	Field No.	Data
MessagelD 2 Repeat indicator default MessagelD 4 User ID 000000001 MessagelD 5 Havigational status 15: not defined MessagelD 6 Rate of turn	MessageID 1	Message TD	1
August Huncator Detail MessagelD 4 User ID MessagelD 5 Havigational status MessagelD 6 Rate of turn MessagelD 7 SOG MessagelD 9 Soition accuracy Low Low MessagelD 11 Latitude OG 250.30° MessagelD 11 Latitude OG 250.30° MessagelD 15 Ine stamp MessagelD 16 Reserved for regional applications MessagelD 17 Reserved for regional applications MessagelD 20 Soft time-out MessagelD 21 Soft time-out MessagelD 22 Soft time-out MessagelD 23 Soft time-out MessagelD 24 Soft time-out MessagelD 25 MessagelD 26 MessagelD 26 MessagelD 27	MessagelD 2	Report indicator	dafault
MessageID 5 Havigational status 15: not defined MessageID 7 SoG 0.00 kmet MessageID 9 Position accuracy Low MessageID 10 Longitude 103* 53.7231' E MessageID 11 Latitude 01* 20.4495' N OG6 250.30° 11 MessageID 13 Irue heading	MessageID 3	Nepeat Indicator	
MessagelD 6 NevsagelD 7 Rate of turn	MassagerD 4	User ID	
MessagelD 7 Rate of turn	MessageID 6	Navigational status	15: not defined
MessageID 8 506 0.00 kmot MessageID 9 Position accuracy Low MessageID 10 Longitude 103* 53.7231' E MessageID 11 Latitude 01* 20.4495' N MessageID 12 COG 250.30* MessageID 13 True heading	MessageID 7	Rate of turn	
MessageID 9 Position accuracy Low MessageID 10 Longitude 103° 53.7231′ E MessageID 11 Latitude 01° 20.4495′ N COG 250.30° Incention MessageID 13 True heading Incention MessageID 16 Reserved for regional applications 0 MessageID 17 RAIM-flag RAIM in use Sync state UIC direct shot time=out 0 MessageID 20 sub message MessageID 23 Sync state MessageID 24A 0 MessageID 25 Sub messageID 26 MessageID 26 Sub messageID 27	MessageID 8	SOG	0.00 knot
• MessageID 10 Longitude 103° 53.7231' E • MessageID 11 Latitude 01° 20.4495' N • MessageID 13 COG 250.30° • MessageID 14 True heading	🖤 🏶 MessageID 9	Position accuracy	Low
• MessageID 11 Latitude 01° 20.4495' H • MessageID 12 COG 250.30° • MessageID 13 Irue heading	••• MessageID 10	Longi tude	103° 53.7231′ E
• MessageID 12 COG 250.30° • MessageID 13 Irue heading	MessageID 11	Latitude	01° 20. 4495′ II
• MessageID 13 Irue heading	MessageID 12	COG	250. 30°
Imessage10 14 Time stamp 59 Imessage10 16 Reserved for regional applications 0 Imessage10 17 RAIM-flag RAIM in use Imessage10 18 sync state UIC direct Imessage10 20 slot time-out 0 Imessage10 21 sub message 0 Imessage10 22 slot time-out 0 Imessage10 23 message10 24 0 Imessage10 24 Imessage10 25 0 Imessage10 26 Imessage10 27 Imessage10 26 Imessage10 27 Imessage10 27 Imessage10 26	MessageID 13	Irue heading	
MessageID 16 Reserved for regional applications 0 MessageID 17 RAIM-flag RAIM in use MessageID 18 sync state UIC direct MessageID 20 slot time-out 0 MessageID 21 sub message 0 MessageID 23 wessageID 24B 0 MessageID 26 MessageID 27 0 MessageID 27 Close	MessageID 14	Time stamp	59
MessageID 17 RAIM-flag RAIM in use MessageID 18 sync state UTC direct MessageID 20 slot time-out 0 MessageID 21 sub message 0 MessageID 23 wessageID 248 0 MessageID 26 MessageID 27 0 MessageID 27 Close	MessageID 16	Reserved for regional applications	0
• MessageID 18 sync state UIC direct • MessageID 20 slot time-out 0 • MessageID 21 sub message 0 • MessageID 23 • MessageID 24A • MessageID 24A • MessageID 25 • MessageID 25 • MessageID 27 • MessageID 27 • MessageID 27 • MessageID 27	••• MessageID 17	RAIM-flag	RAIM in use
• MessageID 19 slot time-out 0 • MessageID 20 sub message 0 • MessageID 21 ub message 0 • MessageID 23 • MessageID 24A • • MessageID 25 • • • MessageID 26 • • • MessageID 27 • • • MessageID 26 • • • MessageID 27 • • • MessageID 27 • •	🖤 🏶 MessageID 18	sync state	VIC direct
<pre>MessageID 20 whessageID 21 whessageID 22 whessageID 24A whessageID 25 whessageID 25 whessageID 27 close</pre>	MessageID 19	slot time-out	0
<pre>MessageID 21 WessageID 22 WessageID 23 WessageID 24A WessageID 25 WessageID 26 WessageID 27 Close</pre>	MessageID 20	sub message	0
■ MessageID 22 ■ MessageID 23 ■ MessageID 24A ■ MessageID 24B ■ MessageID 25 ■ MessageID 26 ■ MessageID 27 Close	MessageLD 21		<u> </u>
<pre> HessageID 24A MessageID 24A MessageID 25 MessageID 26 MessageID 27 MessageID 27 Close </pre>	MessageID 22		
<pre>MessageID 24B MessageID 25 MessageID 26 MessageID 27 Close</pre>	MessageID 23		
<pre>MessageID 25 MessageID 26 MessageID 27 Close</pre>	MessageID 24B		
MessageID 26 MessageID 27 Close	MessageID 25		
MessageID 27	MessageID 26		
Close	MessageID 27		
Close			
Close			
Close			
			Close

Message ID 1 window

There are 27 message IDs as shown in the figure above. To show the details for another message ID number, click the desired message ID number.

9.5 AIS Target Details Window

Press the [Detail] button in the target data box to show the AIS target details data. The window shows the data for Message ID 1.

	AIS Target Details MMSI - 37	6175000 (C)
📕 MessageID	Field No.	Data
MessageID 1		Pata
🖤 🏶 MessageID 2	Message ID	1
• MessageID 3	Repeat indicator	default
MessageID 4	User ID	376175000
MessageID 5	Navigational status	2: not under command
MessageID 6	Rate of turn	
MessageLD 7	SOG	0.00 kmot
MessagelD 0	Position accuracy	Low
 MessageID 10 	Longi tude	103° 58.0050' E
MessageID 11	Latitude	01° 23.1410′ N
🖤 🏶 MessageID 12	COG	340. 60°
MessageID 13	Irue heading	
MessageID 14	Time stamp	4
 MessageID 15 MessageID 16 	Reserved for regional applications	15
MessageID 17	RAIM-flag	RAIM not in use
MessageID 18	svnc state	VIC direct
MessageID 19	slot time-out	2
MessageID 20	sub message	199
MessageID 21		
MassageID 22		
MessageID 24A		
MessageID 24B		
MessageID 25		
🖤 🏶 MessageID 26		
MessageID 27		
		Close

Message ID 1 window

There are 27 message IDs as shown in the figure above. To show the details for another message ID number, click the desired message ID number.

9.6 Message Logs

9.6.1 RX message log

Press the [RX LOG] button in the target list area to show the RX message log (VDM sentence).

MMSI(source)	Time/Date	ID	Message	
3 3 3 3 3	02:2:44 15/06/2014 02:2:49 15/06/2014 02:2:56 15/06/2014 02:03:03	6 8 12 18	TEXT_MESSAGE0000000000000000000000000000000000	
lessage: EXT_MESSAGE00000 100000000000000000 100000000000	00000000000000000000000000000000000000	00000000 00000000000000000000000000000	0	

[RX log] window

[MMSI (source)]: MMSI number of a message sending station.

[Time/Date]: Time and date which the VDR recorded the message. **[ID]**: Message ID (ID6 or ID12: addressed message, ID8 or ID14 broadcast message) **[Message]**: The first 32 characters of an RX message are displayed.

To show the full message (in the [Message] window), select the message from the list.

To close the RX message log, click the [Close] button.

9.6.2 TX message log

Press the [TX LOG] button in the target list area to show the TX message log (VDO sentence).

MMSI (destination)	Time/Dat	te ID	Message
0	02:02:22 15/	/06/2014 6	TEXT MESSAGE00000000000000000000
Broadcast	02:22:27 15/	/06/2014 8	TEXT_MESSAGE0000000000000000000000000000000000
0	02:02:31 15/	/06/2014 12	SAFETY_RELATED_TEXT000000000000
0	02:02:33 15/	/06/2014 12	SAFETY_RELATED_TEXT000000000000
Broadcast	02:02:36 15/	/06/2014 14	SAFETY_RELATED_TEXT0000000000000
Message:			
SAFETY_RELATED_TE 000000000000000000 00000000000000000	XT000000000000000000000000000000000000	000000000000 00000000000 000000000000	

TX log window

[MMSI (Destination)]: MMSI number of a message receiving station. [Broadcast] means broadcast message.

[Time/Date]: Time and date which the VDR recorded the message.

[ID]: Message ID (ID6 or ID12: addressed message, ID8 or ID14: broadcast message) **[Message]**: The first 32 characters of a TX message are displayed.

To show the full message (in the [Message] window), select the message from the list.

To close the TX message log, click the [Close] button.

9. AIS DISPLAY

This page is intentionally left blank.

10. VDR CONFIGURATION

10.1 How to Confirm the VDR Configuration

After connecting the PC to the VDR in the Live Player V5, you can check the VDR configuration. The display shows the VDR setting data of the latest connected sources.

- 1. Select [Source Select] from the [Tool] menu.
- 2. Select [Live] from the [Source Select] dialog box.
- 3. Click the [Connect] button.
- 4. Click [Configuration] > [VDR Config].
- 5. Click each tab to confirm the VDR settings.

	1			
rial Analo	g Image Record S	etting Audio	Digital Hardware	8 Lifetine Network System Software GPS Vessel Sensor (LAN) SA AMS VLC Image Interface Audio Board Delivery
formation				Setting
H No.	Type No.	Status	Check	Set Capture Select Equipment Reflect Equipment Check P-sentence
SI01	GPS	Fail	00	
SI02	AIS	Fail	OK	
SI03	SPEEDLOG	Fail	OK	Active
SI04	GYROCOMPASS	Fail	OK	
SI05		Fail	OK	brand .
SI06		Fail	OK	
SI07		Fail	OK	lype No. (Equipment Name)
SI08		Fail	OK	
SI09		Fail	OK	UK ~
SI10		Fail	OK	
SI11		Fail	OK	Data Hane GPS
SI12		Fail	OK	
SI13		Fail	OK	Data Type IIMEA -
SI14		Fail	OK	
SI15		Fail	OK	Band rate 4800bps -
SI16		Fail	OK	
SI17		Hone	OK	Data Bits 8 -
SI18		None	OK	
SI19		None	OK	Parity Bit Hone -
SI20		None	OK	
SI21		None	OK	Stop Bit 1 -
SI22		Hone	OK	
SI23		Hone	OK	Source Checksum
SI24		None	OK	
SI25		None	OK	Time out 10sec v
SI26		None	OK	
SI27		None	OX	Equipment Category Serial
SI28		Hone	OK	
SI29		Hone	OK	Board Name VR-3010
SI30		None	OK	
SI31		None	OK	Note ZDA GHS/GGA DTM
SI32		None	OK	
SI33		None	OK	
SI34		Hone	OK	
SI35		Hone	OK	
SI36		Hone	OK	
SI37		None	OK	
SI38		None	OK	

10.2 Configuration File in the PC

You can confirm the configuration file that you have stored in the PC as follows.

- 1. Disconnect the Live Player V5 from the VDR.
- 2. Click [File] menu on the Menu bar.
- 3. Select [Open VDR Config] to show the [VDR Config File Selection] dialog box.
- 4. Select the configuration file and click the [Open] button.

10. VDR CONFIGURATION

This page is intentionally left blank.

11. REMOTE PLAYBACK SETTING (LAND-SHIP COMMUNICATION)

You can replay or extract the data from the PC on the shore by connecting the PC to the on-board VDR through the satellite link. This chapter explains the preparation and limitations about the remote playback function, and how to use.

11.1 Preparations

The following preparations are required to connect the PC on the shore to the onboard VDR:

- The land-ship connection through the satellite link (ex. VSAT) must be established by the VPN connection. Check the communication between the PC on the shore and on-board VDR, sending the Ping request to the specified IP address.
- Configure the firewall to allow access to all network ports used for the land-ship communication. This setting must be applied to all network devices. For the network ports used by the VDR and Live Player V5, ask your dealer.
- It is required to configure the VDR to activate the remote playback function. Contact your dealer to activate the remote playback function.
- When you want to connect the PC to the multiple VDR, it is required to assign the unique IP address to each VDR.

11.2 Limitations and Notifications

Keep in mind the following limitations and notifications to use the remote playback function.

- Both of the VDR and Live Player V5 program versions must be "01.30" or later.
- The following functions are available by using the remote playback function:
 - Remote live play ([Live (Remote)])
 - Data extraction by LAN connection ([Long Term Device (LAN)])
 - The remote replay function is not available when the on-board PC (Live Player V5) is connecting to the VDR by Long Term Device (LAN) or Long Term Device (Save Area) connection or RAP is extracting the data.
 - The following communication environment is recommended to use the remote playback function:
 - Average baud rate: 80 kbps or higher
 - Packet loss rate: Less than 5%
 - Average communication delay: Less than 1200 msec
 - See chapter 4 on OME-44850-*, check recommended network configuration and required settings before using the remote playback function.

11.3 Communication speed measuring

By using Live Player V5 and following procedures, you can measure the communication speed.

Note: You cannot measure communication speed during the data replay.

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select [Source Select].
- 3. Select [Live (Remote)] from the drop-down list.



4. Click the [Measuring for network quality] button to open the following dialog box.



- 5. Enter the IP address of the VDR to be connected, click the [Start] button. The packet drop rate, communication delay and speed are calculated. The packet drop rate and communication delay are calculated by sending a ping. The communication speed is measured by uploading and down loading a 1 MB data.
- 6. Wait for a while, check the results shown to the screen. The required time to measure depends on communication environment.

Note: The following communication environment is recommended to use the remote playback function:

- · Average baud rate: 80 kbps or higher
- Packet loss rate: Less than 5%
- · Average communication delay: Less than 1200 msec

Following table shows the guide between communication speed and replayable channels:

Communication speed	Channels can be replayed
80 kbps	Analog, Digital, Serial: 5ch, Sensor(LAN): 6ch, AMS: 1ch
180 kbps	Playback 80 kbps contents plus one screen image at 50% resolution on one channel. Note: 100 kbps is used for replaying the image at 50% resolution per channel.
280 kbps	Playback 80 kbps contents plus audio on one channel. Note: 200 kbps is used for replaying audio per channel.
480 kbps	Playback 80 kbps contents plus one screen image at 100% resolution on one channel. Note: 400 kbps is used for replaying the image at 100% resolution per channel.

The guide between communication speed and channels can be replayed

11.4 Live (Remote) Replay

By using Live (Remote) Replay function you can do the live play on remote connections.

Note 1: The replayed data is different from actual data by the reduction and decimation.

Note 2: Depending on the line condition, the number of the replayable data is limited.

Note 3: During the remote replay, normal live replay function cannot be used.

11.4.1 Connection on Live (Remote) Replay

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select [Source Select].
- 3. Select [Live (Remote)] from the drop-down list.



4. Enter the IP address of the VDR to be connected.

Note 1: Check [Automatically download and load Viewer Configuration] to download viewer configuration from the connection source (DCU or DRU). The configuration is overwritten.

Note 2: Check [Automatically download and load Sentence Information] to download the sentence information (PDF file) from the VDR. If the sentence information is not saved, it cannot be downloaded.

5. Click the [Connect] button.

Note 1: When the Live Player V5 connects to the VDR for the first time, the time to download and check the VDR setting is required. From the second time, the downloaded data will be used unless the configuration of VDR is not changed. **Note 2:** When you download the data again, select [Backup Configuration File Clear] from the [Configuration] menu to delete all backup settings and click the [OK] button.

Note 3: While the VDR is on Live (Remote) replay, alert 412901(Liveplay Not Available) is shown and another Live Player V5 cannot use Replay function.

Note 4: After clicking the [Connect] button, it takes a time to close [Source Select] dialog box depending on the communication speed. Do not operate the live player until the dialog box closes.

6. Click Start button. Analog, Digital, Serial: 1-5ch and Sensor (LAN): 1-6ch, AMS: 1ch are played under initial settings.

Note: Live (Remote) replay starts after the stocking the data to buffer. Wait for a while until the Live (Remote) replay starts.

Click Stop button or Pause button to stop the live (remote) replay.
 Note: After finishing the Live (Remote) replay, make sure to disconnect to VDR with clicking the [OK] button on popup window on [Source Select] from [Tool] menu.

11.4.2 Live (Remote) Replay settings

The settings of Live (Remote) Replay is done at the [Play Setting] window. Depending on the communication condition, you can adjust the information to replay. Do the following procedure to open the window.

Note 1: During the replay, you cannot adjust the settings.

Note 2: Depending on the communication condition, some information to be available cannot be replayed.

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select [Source Select]

3. Select [Live (Remote)] from the drop-down list.

Source Select		X
Live (Remote)	 Automatically download and load Viewer Configuration. Automatically download and load Sentence Information. 	
	Connect to IP : 172 31 16 200	
	Measure for network g	uali ty
🔲 Do not display this wh	hen the application begins. Connect	Cancel

4. Click the [Connect] button.



5. Click the [Play Setting] button on control area.

lay Setting	-			
Name				
Sensor Channel Setting				
Sensor Channel Select				
SI01, SI02, SI03, SI04, SI05 LN01, LN02, LN03, LN04, LN05, LN AMS1	106			
Select Analog/Digital				
🔽 Analog		🔽 Digital		
<pre>MIC3/MIC4 (Bridge CENTER/CK MIC5/MIC6 (GMDSS RACK SPACE MIC5/MIC8 (WING SIBD SIDE/W Select and Setting Image Channel Radar1 (1600x1200) ECDIS (1920x1080)</pre>	ARI Space) /No.2 RADAR ING PORT SI 50% - 50% -	SPACE) DE) Radar2(16 General1)	00x1200) (1600x1200)	50% ·
🔲 General2 (1600x1200)	50% 👻	🕅 Additions	10	50%
Suffering Period (5-20 Sec) 5		[Add Delete	Set
Name	S	etting		
Addtional Setting			Apply	Cancel

6. Set each menu item, referring to the following table.

Menu	Function
[Name]	Enter the setting name.
[Sensor Channel Select]	Shows the [Sensor Channel Select] dialog box, set the channel to replay (see "[Sensor Channel Select] dialog box" on the page 11-7). The list of available channel is shown bottom of [Sensor Channel Select] button.
[Analog]	Click to replay analog data.

Menu	Function
[Digital]	Click to replay digital data.
[VHF1/VHF2]	Click to replay VHF1/VHF2 data.
[MIC1/MIC2]	Click to replay MIC1/MIC2 data.
[MIC3/MIC4]	Click to replay MIC3/MIC4 data.
[MIC5/MIC6]	Click to replay MIC5/MIC6 data.
[MIC7/MIC8]	Click to replay MIC7/MIC8 data.
[Radar1]	Click to replay radar1 figure. You can select the size of figure from100%, 50%, and 25%
[Radar2]	Click to replay radar2 figure. You can select the size of figure from100%, 50%, and 25%
[ECDIS]	Click to replay ECDIS figure. You can select the size of figure from100%, 50%, and 25%
[General1]	Click to replay General1 figure. You can select the size of figure from100%, 50%, and 25%
[General2]	Click to replay General2 figure. You can select the size of figure from100%, 50%, and 25%
[Additional]	Click to replay additional figure. You can select the size of figure from100%, 50%, and 25%
[Buffering Period]	Set buffering period. After buffering the data, the re- play starts (Setting rate: 5 to 20 seconds).
[Import]	Import play setting file. Click the [Import] button to show the file select dialog box to select the file.
[Export]	Export all play setting file to PC. Click the [Export] but- ton to show the dialog box to save the file.
[Add]	Add the current playback settings to the list at the bot- tom of the [Play Setting] window.
[Delete]	Delete the selected playback settings from the list at the bottom of the [Play Setting] window.
[Set]	Show the selected playback settings from the list at the bottom of the [Play Setting] window.
[Additional Setting]	Shows the [Additional Setting] dialog box. For details of the [Additional Setting] dialog box, "[Additional Set- ting] dialog box" on the page 11-7.
[Apply]	Click to use current playback settings for replay.
[Cancel]	Click to cancel settings.
[Sensor Channel Select] dialog box

This menu is used for setting configuration of the channels to replay. Once you check [omit less than 1 sec], same sentence entered within a second is not replayed. Use this function to reduce the data from gyro and so on.

Note: The equipment name of each serial channel in VDR configuration is shown to the menu.



Menu	Function
[SI01] to [SI08]	Check to replay each serial channels.
[SI09-16]	
[LN01] to [LN08]	Check to replay each sensor (LAN) channels.
[LN09-64]	
[AMS1]	Check to replay AMS channels.
[AMS2]	
[Apply]	Check to apply settings.
[Cancel]	Check to cancel settings.

[Additional Setting] dialog box

This menu is used for specifying the destination IP address while using the Live (Remote) function.

Note 1: When data is not replayed correctly while using the Live (Remote) function, use this menu.

Note 2: The destination IP address must be the IP address of the running PC.

Note 3: The DCU software version must be

"01.40" or later to use the [Additional Setting] dialog box. If the DCU software version is not "01.40" or later, do not use this function.

Menu	Function
[Send to local IP address]	Check to specify the destination IP address while using Live (Remote) function.
[Auto]/[Manual]	 Available when the [Send to local IP address] checkbox is checked. [Auto]: The IP address of the PC used for the Live (Remote) function is automatically entered. [Manual]: When the IP address entered by the [Auto] setting is not correct, use the manual setting. Enter the IP address of the PC used for the Live (Remote) function.

Addtional Setting	×
- 📃 Send to local IP address]
Auto 10.0.0.250 Auto	
O Manual	
Apply	Cancel

11.4.3 Live (Remote) data conversion

By converting the data replayed with Live (Remote) function, you can replay the data as same as the extracted data on Live Player V5. The data within last one hour can be converted.

Note 1: The converted data is different from actual data.

Note 2: When you connect another VDR or change Play Setting before the conversion, the function is not available.

Note 3: Do not use the converted data for combine or re-extracting.

1. Open the [Tool] menu and select the [Source Select] to show the [Source Select] dialog box.Select [Live (Remote) Data Export] from the drop-down list.

Live(Remote) Data Export	×
Folder	
C:\	Select
	Convert Close

- 2. Click the [Select...] button to decide the folder.
- 3. Click the [Convert] button.
- 4. After finishing the conversion, click the [Close] button.

For how to play converted data, see section 3.2.3 "How to replay the data copied into the PC".

11.5 Data extraction on remote connection

You can extract the recording data from VR-7000/7000S on remote connection.

Note: You can extract the data only from Long Term Device. You cannot extract the data from the DRU.

11.5.1 How to extract the data on remote connection

- 1. Start the Live Player V5 software.
- 2. Open the [Tool] menu and select the [Live (Remote)] on [Source Select].

Source Select		×
Live(Remote)	 Automatically download and load Viewer Configuration Automatically download and load Sentence Information 	ւ ռ
	Connect to IP : 172 31 16 200	
	Measure for network	quality
Do not display this	when the application begins.	Cancel

3. Select [Long Term Device (LAN)] from the list box on the [Source Select] dialog box when you extract the data from long term device. In case of the VR-7000S, [Long Term Device (Save Area)] can be also selected.

Long Term Dev Vessel : no ^r	rice(LAH)	atically download and load W atically download and load S	'iewer Configuration. Sentence Information.	Vessel : no	vice(Save Area)	tomatically download and low	ad Viewer Configuration. ad Sentence Information.
onnect to I	P: 172 31 16 200		Analyze Irack	Connect to 1	IP : 172 31 16	200	Analyze Are
rack	Start	Ind	Kecording lern	Save Area 1 Save Area 1 Save Area 2 Save Area 3 Save Area 4	58art 01/10/2015 13:40:45 /-/	End 07/06/2016 09:52:00 //	Preck Count 2 0 0 0 0
				Track	Start	End	Recording Ierm

[Long Term Device (LAN)] is selected [Long Term Device (Save Area)] is selected

- 4. Enter the IP address of the VDR to be connected.
- 5. Remove the check from [Automatically download and load Viewer Configuration].
- 6. Remove the check from [Automatically download and load Sentence Information].
- 7. When [Long Term Device (Save Area)] is selected at step 3, click the [Analyze Area] button. When [Long Term Device (LAN)] is selected, go to the next step.

- 8. Click the [Analyze Track] button.
- Click the [Connect] button.
 Note: Confirm that [VR-7000] ([VR-7000S]) is shown at the [Product Name] field after clicking the [Connect] button, then go to the next step.
- 10. Select [Extract] from [Tool] menu.

xtraction		Contract Name of Contract	and an	[m	·	
O II den d	Track	Start	Fnd	Period	Salactad	Fytract Pe
	treak 1	05/02/2018 13:20:45	10/03/2018 10:31:45	357-11-00	05/00/2018 13:20:45 = 12/03/2018 10:31:45	957-11-00
	track 1	12/03/2018 10:45:30	12/03/2018 10:31:45	00:18:45	12/02/2018 13:20:45 - 12/03/2018 11:04:15	00:18:45
	track 2	12/03/2018 11:06:15	12/03/2018 11:17:30	00:11:15	12/03/2018 11:06:15 = 12/03/2018 11:17:30	00:11:15
	track 4	12/03/2018 11:20:15	12/03/2018 11:35:45	00:15:30	12/03/2018 11:20:15 - 12/03/2018 11:35:45	00:15:30
	track 5	12/03/2018 11:38:45	12/03/2018 11:43:00	00:04:15	12/03/2018 11:38:45 - 12/03/2018 11:43:00	00:04:15
	track 6	12/03/2018 11:45:00	12/03/2018 13:06:30	01:21:30	12/03/2018 11:45:00 - 12/03/2018 13:06:30	01:21:30
	track 7	12/03/2018 13:09:30	12/03/2018 13:13:45	00:04:15	12/03/2018 13:09:30 - 12/03/2018 13:13:45	00:04:15
[[[1]]	track 8	12/03/2018 13:16:45	12/03/2018 13:22:00	00:05:15	12/03/2018 13:16:45 - 12/03/2018 13:22:00	00:05:15
	track 9	12/03/2018 13:25:00	12/03/2018 13:28:00	00:03:00	12/03/2018 13:25:00 - 12/03/2018 13:28:00	00:03:00
	track 10	12/03/2018 13:31:00	12/03/2018 13:33:30	00:02:30	12/03/2018 13:31:00 - 12/03/2018 13:33:30	00:02:30
	track 11	12/03/2018 13:35:30	12/03/2018 13:41:45	00:06:15	12/03/2018 13:35:30 - 12/03/2018 13:41:45	00:06:15
	track 12	12/03/2018 13:44:45	12/03/2018 13:47:45	00:03:00	12/03/2018 13:44:45 - 12/03/2018 13:47:45	00:03:00
	track 13	12/03/2018 13:50:45	12/03/2018 14:20:45	00:30:00	12/03/2018 13:50:45 - 12/03/2018 14:20:45	00:30:00
	track 14	12/03/2018 14:22:45	13/03/2018 10:46:00	20:23:15	12/03/2018 14:22:45 - 13/03/2018 10:46:00	20:23:15
	track 15	13/03/2018 10:48:15	13/03/2018 17:10:15	06:22:00	13/03/2018 10:48:15 = 13/03/2018 17:10:15	06:22:00
	Iarget I	DD Date and Time 27 /	M YYYY HH 03 ★ / 2018 ★ 15 ★	₩M : 00 🗭 :	SS 15 Extract Period (1-120 minute) ±	30
🗌 Data Se	election (All o	other data is automatical	ly selected for extract	ion.) ———		
Audi o		VHF1/VHF2	MIC1/M	IC2	MIC3/MIC4	
			(Bridge	STBD/Bridge	PORI) (Bridge CENTER	R/)
		MIC5/MIC6	MIC7/M	IC8		
		(/)	(/)			
Image		Radar1	Radar2		ECDIS	
		General 1	Genera	12	Additional	
folder						
C:\Users\	installuser				Select	
Resume	7				ſ	Start Close

- 11. Specify the extraction data by each one of the following methods.
 - · Select the track.
 - Select date and period.

How to select the track:

- 1) Activate the [Track Selection] radio button, then check the track you want to extract.
- 2) Click the [Select Period] button to show the [Select Period] window.

Select Period	×
Irack Information	
No	: 1
Start	: 29/11/2013 10:05:15
End	: 29/11/2013 13:57:45
Period	: 03:52:30
Extract Period	
Start	Start of Irack
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
End	(e) End of Irack
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
Extract Period	: 03:52:30
	OK Cancel

- 3) Set the start time and the end time in the [Extract Period] field. When you want to extract all track, check [Start of Track] and [End of Track].
- 4) Click the [OK] button.

How to select date and period:

- 1) Activate the [Direct Selection] radio button.
- 2) Select the target date and period to extract.

											Select Period.
Direct S	election										
		DD	MM	YYYY	нн	MM	SS				
	Iarget Date and Iime	24 🗘 /	04 🗘 /	2018 💂	13 🚔 :	04 🚔 :	45 💂	Extract Perio	d (1-120 m	inute) 1	: 30 🚔
Data Sel	ection (All other data is	automatic	ally sele	cted for e	extraction	ı.) ———					
Audio	VHF1/VHF2			E	MIC1/MI	C2			MIC3	/MIC4	
					(Bridge	STED/Brid	PORT)		(Brid	CENTE	R/CHART Space)

- Click the check boxes on [Data Selection] to select the required data. If you check [Data Selection], you can extract the data except Audio and Image.
 Note: When the [Data Selection] is not available, contact your dealer.
- 13. Click the [Select] button to set the folder to save the extracted data.
- 14. Click the [Start] button and check estimated time.

Question
Do you continue extract? Extract size 14 MB.
Ves No

15. Click the [Yes] button to start the extraction.

Note 1: When you stop the extraction on the way, click the [Stop] button on [Extraction Process] window. Depend on the communication speed, it takes a time to cancel processing. If you want to kill the function, click the [Stop] button again. **Note 2:** When you fail the extraction, the message "[FILE] Do you delete extracted file?" is shown to ask delete the extracted data. If you restart the extraction, click the [No] button to avoid deleting the data and click the [Resume] button.

11.5.2 How to resume the extraction

When you fail to extract the data, you can leave the data and restart the extraction from the middle.

Note: When you restart the extraction, it is required to connect with the VDR same as when aborting the extraction. If the VDR configuration data* is changed before restarting extraction, this function is unavailable.

*: Adjusted by the service person from the VDR Maintenance Viewer.

1. Start the Live Player V5 software.

11. REMOTE PLAYBACK SETTING (LAND-SHIP COMMUNICATION)

2. Open the [Tool] menu and select [Source Select] to show the [Source Select] dialog box.



 Select [Long Term Device (LAN)] from the list box on the [Source Select] dialog box when you extract the data from the long term device. In the case of VR-7000S, [Long Term Device (Save Area)] can be also selected.

[Long Term Device (LAN)] is sele	ected [Lo	ong T	erm Device	e (Save Are	a)] is selected
Source Select	Souration. formation. Ve Analyze Track	ng Tern Devi essel : not	connected : 172 31 16 200	tically download and load Wi tically download and load Se	ever Configuration. ntence Information. Analyze Area
Track Start - End Recordin	g Tern Sav Sav Save Save	ve Area e Area 1 e Area 2 e Area 3 e Area 4	Start 01/10/2015 13:40:45 	End 07/06/2016 09:52:00 -/-/	Track Count 2 0 0 0 0 0 0 0 0 0 0 0
	In	ack	Start	End	Recording Term
Do not display this when the application begins.	t Cancel	Do not disp	lay this when the application	on begins.	Connect Cancel

- 4. Enter the IP address of the VDR to be connected.
- 5. Remove the check from [Automatically download and load Viewer Configuration].
- 6. Remove the check from [Automatically download and load Sentence Information].
- 7. When [Long Term Device (Save Area)] is selected at step 3, click the [Analyze Area] button. When [Long Term Device (LAN)] is selected, go to the next step.
- 8. Click the [Analyze Track] button.
- 9. Click the [Connect] button.

10. Select [Extract] from [Tool] menu.

	JELECCIC.					
	Irack	Start	End	Period	Selected	Extract Pe
	track 1	25/02/2018 13:20:45	12/03/2018 10:31:45	357:11:00	25/02/2018 13:20:45 - 12/03/2018 10:31:45	357:11:00
	track 2	12/03/2018 10:45:30	12/03/2018 11:04:15	00:18:45	12/03/2018 10:45:30 - 12/03/2018 11:04:15	00:18:45
	track 3	12/03/2018 11:06:15	12/03/2018 11:17:30	00:11:15	12/03/2018 11:06:15 - 12/03/2018 11:17:30	00:11:15
	track 4	12/03/2018 11:20:15	12/03/2018 11:35:45	00:15:30	12/03/2018 11:20:15 - 12/03/2018 11:35:45	00:15:30
	track 5	12/03/2018 11:38:45	12/03/2018 11:43:00	00:04:15	12/03/2018 11:38:45 - 12/03/2018 11:43:00	00:04:15
	track 6	12/03/2018 11:45:00	12/03/2018 13:06:30	01:21:30	12/03/2018 11:45:00 - 12/03/2018 13:06:30	01:21:30
	track 7	12/03/2018 13:09:30	12/03/2018 13:13:45	00:04:15	12/03/2018 13:09:30 - 12/03/2018 13:13:45	00:04:15
1	track 8	12/03/2018 13:16:45	12/03/2018 13:22:00	00:05:15	12/03/2018 13:16:45 - 12/03/2018 13:22:00	00:05:15
	track 9	12/03/2018 13:25:00	12/03/2018 13:28:00	00:03:00	12/03/2018 13:25:00 - 12/03/2018 13:28:00	00:03:00
	track 10	12/03/2018 13:31:00	12/03/2018 13:33:30	00:02:30	12/03/2018 13:31:00 - 12/03/2018 13:33:30	00:02:30
	track 11	12/03/2018 13:35:30	12/03/2018 13:41:45	00:06:15	12/03/2018 13:35:30 - 12/03/2018 13:41:45	00:06:15
	track 12	12/03/2018 13:44:45	12/03/2018 13:47:45	00:03:00	12/03/2018 13:44:45 - 12/03/2018 13:47:45	00:03:00
	track 13	12/03/2018 13:50:45	12/03/2018 14:20:45	00:30:00	12/03/2018 13:50:45 - 12/03/2018 14:20:45	00:30:00
	track 14	12/03/2018 14:22:45	13/03/2018 10:46:00	20:23:15	12/03/2018 14:22:45 - 13/03/2018 10:46:00	20:23:15
	track 15	13/03/2018 10:48:15	13/03/2018 17:10:15	06:22:00	13/03/2018 10:48:15 - 13/03/2018 17:10:15	06:22:00
	Target I	DD N Nate and Time 27 / 0	M IIII HH	MM 1 : 00 - :	SS 15 Extract Period (1-120 minute) ± 3	30 🦳
Data Ca	Target I	DD	IM YYYY HH 03↓ / 2018↓ 15↓	₩M]: 00章 :	SS 15 Extract Period (1-120 minute) ± 3	30 💭
Data Se	Target I	DD I Date and Time $\frac{1}{27 \sqrt{2}}$ / (ther data is automatical)	M IIII HH D3 v / 2018 v 15 v ly selected for extract:	MM : 00 ÷ : ion.)	SS 15 Extract Period (1-120 minute) ± 3 MICC2/MIC4	30 ×
Data Se 1dio	Target 1 election (All c	DD I Date and Time 27 v (other data is automatical VHF1/VHF2	M TITY HH D3 v / 2018 v 15 v ly selected for extract: MIC1/MI (Bridge	MM : 00 : : ion.)	SS 15 * Extract Period (1-120 minute) ± 3 MIC3/MIC4 POPT) (Bridge CHUER	30 *
Data Se adio	Target] election (All c	DD I Date and Time 27 2 / (other data is automatical VHF1/VHF2	M TIYI HH 13 * / 2018 * 15 * ly selected for extract MIC1/MI (Bridge	MM : 00 : : ion.) IC2 SIED/Bridge C8	SS IS - Extract Period (1-120 minute) ± 3 MIC3/MIC4 PORI) (Bridge CENTER	30 *
Data Se adio	Target 1 election (All c	DD J Date and Time 27 (-)/27	M YIII HH)3] * / 2018 * 15 * ly selected for extract MIC1/MI (Bridge (/)	MM : 00 - : ion.) CC2 SIBD/Bridge CC8	SS IS - Extract Period (1-120 minute) ± MIC3/MIC4 PORI) (Bridge CENTER	30 (m) /)
Data Se idio	Target 1	DD Image: DD Image	MM TTIT HH)33 - / 2018 - 15 - ly selected for extract: MICL/MU (Bridge (/) (/) Radar2	MM : 00 * : ion.) CC2 SIBD/Bridge CC8	SS IS	30 (m) /)
Data Se idio nage	Target 1	DD J Date and Time PT ther data is automatical VMF1/VMF2 MIC5/MIC6 (/) Radar1 General1	M TITI Hit 03 m / 2018 m 15 m 1y selected for extract: MIC1/MU Bridge 1y ridge MIC7/MU Gradge (/) Radge? (/) 2 Grange3 Grange3	MM : 00 : : ion.) 102 STBD/Bridge 108 2	SS IS - Extract Period (1-120 minute) ± PORI) (Bridge CENTER BCDIS Additional	30 <u>*</u>
Data Se adio nage der	Target 1	DD JD Date and Time PT other data is automatical VHF1/VHF2 MIC5/MIC6 (/) (/) Radar1 General1	M TITI Hit 03 m / 2018 m 15 m 1y selected for extract MIC1/MU Bridge MIC1/MU (Bridge MIC7/MU (J) Radar2 General	MM : 00 : : ien.) CC2 STED/Bridge CC8 .2	SS IS	30 <u>*</u>

- 11. Click the [Select] button to set the folder to save the extracted data.
- 12. Click the [Resume] button to check estimated time.

Question	x
Do you continue extract? Extract size 14 MB. Disk space 46288 MB.	
<u>Y</u> es <u>N</u> o	

13. Click the [Yes] button to start the extraction.

11. REMOTE PLAYBACK SETTING (LAND-SHIP COMMUNICATION)

This page is intentionally left blank.

APPENDIX 1 MENU TREE

<u>Menu bar</u>



APPENDIX 2 MATERIALS FOR PLAYBACK

IMO Circular MSC.214(81) recommends that all VDR systems installed on or after 1 June 2008 carry software to playback data on a PC, the manual for data extraction, and the cable necessary to connect the PC to the Data Collecting Unit (DCU). Attach the supplied card holder to the front door of the DCU to store the items listed in the table below.

Items to store in the card holder

Name	Туре	Code No.	Remarks
CD-ROM (For Live Player)	VR-7030 SW&MANUAL CD	000-191-754	With Assessmine
Data Extraction Procedure	E42-01402	000-179-354	FP24_01110
LAN Cable Assembly	MOD-Z072-020+	001-167-880-10	

See the data extraction procedure for how to play back data.

How to attach the card holder

Use the supplied accessories to attach the card holder to the DCU.

Remove the paper from the double-sided tape on the card holder. Attach the card holder to the location in the DCU shown below.



INDEX

A

AIS	
display layout	9-1
own ship details	
RX message log	
target details	
target display range	
target symbols	
TX message log	
Alert popup	
configuration	6-1
on/off	
Analog tab	2-30
Audio settings	6-8
Azimuth promotion tab	2-24

В

Backup	7-1
replaying	7-3
starting	
buzzer setting	6-5

С

Color definition	2-26
Compass sheet	
Compass tab	2-12
General tab	2-11
Configuration	
confirming	10-1
creating	2-5
saving to DRU	2-36
saving to replay PC	2-35

D

-	
Decoder editor	5-4
Decoder library	
description	5-2
editor	5-4
opening	5-1
Dial meter tab	2-13
Digital tab	2-31
Display configuration	2-1
Displaying data	4-2
Doppler tab	2-14
Dual Dial meter tab	2-13
E	
Extracting recorded data	6-6
F	
Formatter syntax	2-27
G	
Graph tab	2-15

Η

Horizontal bar tab
<i>I</i> Inclinometer tab2-28 Installation connection to DCU
installable PC
Windows 7
<i>L</i> Long Term Device reading data recorded in 3-1 reading data retrieved in 3-4
Ν
Numeric data display sheet 2-20
<i>P</i> Pitch and roll tab 2-21
R Radar/AIS sheet2-27 Remote Playback Setting
Communication speed measuring 11-2
Data extraction
Limitations and Notifications
Preparations 11-1
Rudder tab
S
Sensor (LAN) tab 2-33
Sentence information
Serial output
Serial tab
<i>I</i> Two dimensions plotter tab 2-25
U
Uninstalling 1-6 User Disk
extract
V
Vertical bar tab 2-23
W
Wind direction tab 2-19