

NXR-1700 NXR-1800

Basic Configuration

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OUTLINE

About This Manual

This document describes the Web Tool and the installation method to the rack of the NXR-1700/ NXR-1800 repeater.

Item	Specifications	How to Verify	
Market Code	E	Printed on the label of the product.	
Firmware Version	2.20.00	Can be viewed in the Repeater Information dialog box of KPG-D7.	
of the Repeater			
Version of KPG-D7	V 2.20	Can be viewed in the About dialog box of KPG-D7.	

Note

• When connecting to a PC via IP, we have confirmed in advance that when using a specific USB-LAN adapter, communication will fail due to the influence of the USB-LAN adapter side.

If the LED on the left side of the LAN connector of the NXR-1700/ NXR-1800 does not light up, it is assumed that the USB-LAN adapter corresponds to this.

We have also confirmed that communication can be performed normally via the HUB. If communication seems to be failing, we recommend connecting via HUB.

How to Read the In-depth Manual

The In-depth Manual has the following sections:

NXR-1700/ NXR-1800 Basic Configuration (this document)

Describes the functions of the Web Tool and the rack mount of NXR-1700/ NXR-1800.

NXR-1700/ NXR-1800 Function Reference (FUNC)

Describes the functions for Analog Conventional, DMR Conventional, and NXDN Conventional, etc. for NXR-1700/ NXR-1800.

About Notations

The following notations are used in this manual:

[]

The characters in [] indicate the name of the operating portion of each device and the name of the key of the PC.

" " (Double Quotation Mark)

The characters in " " indicate the name of the options, buttons, and menus shown on KPG-D7, or the LCD display of the repeater.

Bold Letters

The characters in bold letters indicate the name of the windows, tabs, checkboxes in KPG-D7 and functions assigned to the keys of the repeater.

[]+[]

This notation is used for describing functions activated by pressing 2 keys on the computer keyboard at the same time. For example, in order to input capital A into a PC, capital A is described as [Shift] + [a], which indicates that the [a] key must be pressed while pressing and holding the [Shift] key.

About the Notation of the Supported Models

This manual describes the supported models according to the following rules:

Model Name	Band	Туре	Frequency (RX/ TX)
NXR-1700	VHF	E	136 MHz to 174 MHz
NXR-1800) UHF	E	450 MHz to 520 MHz
		E2	400 MHz to 470 MHz

Abbreviations Used in this Document

The following abbreviations are used in this in-depth manual. Refer to the abbreviation table below.

Abbreviation	Full Spelling or Meaning	
AIS	Application Interface Specification (DMR Application Interface)	
AUX	Auxiliary	
BER	Bit Error Rate	
сс	Color Code	
Ch	Channel	
CSR	Certificate Signing Request	
CW	Continuous Wave	
deg	degree(s)	
DQT	Digital Quiet Talk	
DSCP	Differentiated Services Code Point	
FPU	Field Programming Unit	
GID	Group ID	
НРА	High Power Amplifier	
HSB	Hot Standby	
ICMP	Internet Control Message Protocol	
I/O	Input/Output	
IPRCI	IP Remote Control Interface	
NTP	Network Time Protocol	
PF	Programmable Function	
QoS	Quality of Service	
QT	Quiet Talk	
RSSI	Received Signal Strength Indication	
RX	Reception, Receiver	
SIP	Session Initiation Protocol	
SNMP	Simple Network Management Protocol	
SSL	Secure Sockets Layer	
тсхо	Temperature Compensated Crystal Oscillator	
TLS	Transport Layer Security	
тот	Time-out Timer	
ТХ	Transmission, Transmitter	
UID	Unit ID	
VLI	Voice Logging Interface	
VSWR	Voltage Standing Wave Ratio	

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About Options to Use the Functions Described in This Document

To use the functions described in this document, the following KENWOOD optional accessories need to be prepared on your own as necessary:

Model Name	Description
KWD-NX10DC	License/ DMR CONVENTIONAL
KWD-NX10NC	License/ NXDN CONVENTIONAL
KWD-NX10MS	License/ CONVENTIONAL IP NETWORK
KWD-NX10VR	License/ VOTING REPEATER
KWD-NX10SP	License/ SIP PHONE
KAS-20C/ KAS-20S	PC App/ AVL & DISPATCH SOFTWARE (CLIENT/ SERVER)
KPG-180AP	PC App/ OTAP MANAGER SOFTWARE
KPT-300LMC	PC App/ LICENSE MANAGEMENT CLIENT
KPG-D7	FPU

How to Search for Information

For your convenience of reading through this document using Adobe Acrobat or Adobe Reader, a link to a corresponding item is pasted in the Contents page, Index page, the lower part of each page and in the context. Clicking the portion where a link is pasted enables a jump to the corresponding page. Placing a pointer over the portion where a link is pasted changes the shape of the pointer to a hand (

CONTENTS

Clicking a title in the Contents page allows a jump to the corresponding page.

CONTENTS

	User Password
3	DESCRIPTIONS OF FUNCTIONS (WEB
	3.1 Remote Configuration
	3.2 Remote Control

INDEX

Clicking a function name, a title or a page number in the Index pages allows a jump to the corresponding page.

Blue Characters in the Main Text

Clicking a portion with blue characters in the main context allows a jump to the corresponding page.

The default configuration of the user name a not configured under the default configuration (Refer to User Password.) User Name: admin

Return to the Previous Page

To return to the previous page, click the "Previous Page" button on your Adobe Acrobat or Adobe Reader, or press the [<] key while pressing and holding the [Alt] key on the keyboard.

Search the Text

The text in this document can be searched using the search function of your Adobe Acrobat or Adobe Reader.

Revision History

Date	Description		
2022.10.28	1) Changed the version information in "About This Manual".		
	2) Added the description for rebooting to "Service" of Table 2-19.		
	3) Added "Reboot" to "Service" of Table 2-20.		
	4) Added "Service (Reboot)" to Table 3-2.		
	5) Changed the display of Table 3-3 "Configuration Information" from Unprogramming to Unprogrammed (a		
	specification change).		
	6) Changed the version number from 1.00 to 1.02.		
2023.07.06	1) Changed the version information in "About This Manual".		
	2) Added NXR-1800.		
	3) Added the description of the configuration of the password when logging in to the Web Tool.		
	4) Added the Language icon.		
	5) Added the descriptions of Communication Log and System Log to Log.		
	6) Added the descriptions of Own IP Setting and QoS to IP Configuration.		
	7) Added the description of Multi Loader to Security.		
	8) Changed the version number from 1.02 to 2.00		
2023.12.14	1) Changed the version information in "About This Manual".		
	2) Added the description of Last Used By and Last Used On to User Information.		
	3) Added the note related to RF Link and Voting to Communication Log.		
	4) Added the configuration items related to Voting to Call Monitor.		
	5) Changed the version number from 2.00 to 2.10		
2024.05.27	1) Changed the version information in "About This Manual".		
	2) Added the note to the description of Channel Name in Home of 2.2 Various Functions (Edit).		
	3) Deleted TX Frequency Data Error from Table 2-20 Status Monitor Display.		
	4) Added the Channel Data Blank error in Remote Monitor.		
	5) Added and corrected the notes in Remote Control.		
	6) Changed the version number from 2.10 to 2.20		

Contents by Purpose

Rack Mount	Preparing for Installation	Installing to the Rack	
	The accessories are attached to the repeater prior to the installation to the rack.	The precautions for installation to the rack are confirmed.	
	Page 104	Page 107	
Web Tool	Performing the Configurations for Using the V	Veb Tool	
	How to log in to the Web Tool is confirmed.	Page 12	
	Page 12 The configuration method of the time of the repeater is confirmed. Page 24		
	Knowing the Web Tool Screen	Knowing What the Web Tool Can Do	
	The basic screen layout of the Web Tool is confirmed.	The function list of the Web Tool is confirmed.	
	Page 14	Page 26	
	Knowing the Descriptions of the Web Tool Functions	Using the User Registration of the Web Tool	
	The descriptions of the Web Tool functions can be confirmed.	The user registration function (Administration) of the Web Tool is confirmed.	
	Page 95	Page 89	

1 OVERVIEW EXPLANATION

1.1 Overview Explanation of the Web Tool

The Web Tool is a web interface to execute the configuration (in part), monitoring, and operation of the repeater. A user can access the repeater from the web browser of a client PC. The following are the recommended web browsers and versions:

Table 1-1 Recommended Web Browsers and Versions

Web Browser	Version (or Later)
Google Chrome	89
Microsoft Edge	89

1 Connect a PC and the repeater by an IP connection.

- 2 Open a web browser, and access the Web Tool by entering the IP address of the repeater as a URL.
 - (http://192.168.0.1 (when the IP address of the repeater is 192.168.0.1))
- 3 By accessing the Web Tool, the Login screen is displayed.

Login			
	1	User Name	
	â	Password	
Login			



When the admin password is not configured such as during access for the first time, the screen prompting for the configuration of the password is displayed by entering only User Name as admin and clicking the "Login" button. Refer to **User Password** about the screen prompting for the configuration of a password. When the password is configured in User Password, the state where the Web Tool is logged in occurs. From next time onwards, logging in is done by entering the configured password in the login screen (Figure 1-1).

4 Click the "Login" button after entering the user name and password notified by an administrator.

5 By entering the correct user name and password, the Home screen of the Web Tool is displayed.

Note

- The following IP addresses are preconfigured in the repeater before factory shipment:
 - IP Address: 192.168.0.1
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.0.254
- The following are the default configurations for the user name and password of the Web Tool. Configure a
 password after logging in to the Web Tool because the password is not configured in the default configuration.
 (Refer to User Password.)
 - User Name: admin

Password: (Configured by a user when logging in to the Web Tool for the first time)

1.2 Basic Screen Layout

The basic screen layout of the Web Tool is as follows:

	KENWOOD Edit - M	aintenance 🝷 Administration 🝷		😔 🕜 🏠 🌘 ་ 🕩	
	User Information ▲ Login User Name : admin III Protocol : DMB	Edit > Information	-		- ④
2		Protocol Information			
		Protocol DMR			
	Home ~	License Information			
	Information ^	License	Description		
	SSL Certificate	KWD-NX10DC	DMR CONVENTIONAL		
3	User List 🗸 🗸	KWD-NX10NC	NXDN CONVENTIONAL		- (5)
0	Console ~	KWD-NX10MS	CONVENTIONAL IP NETWORK		
		KWD-NX10SP	SIP PHONE		
		KWD-NX10VR	VOTING REPEATER		
		Software License Agreement			
		View			
	Copyright (C) 2022 JVCKENWOOD Corporat	ion			- 6

Figure 1-2 Basic Screen Layout of Web Tool (Screen Sample)

Table 1-2 Basic Screen Layout

No.	Name	Function	
1	Header	This field is commonly displayed in every page.	
		Links to main configuration menus, etc. are displayed.	
2	User information	Login information and update information of each configuration page are displayed.	
3	Navigation	Links to detailed menus related to the displayed page are displayed.	
4	Main window	The hierarchy is displayed sequentially from the top page to the displayed page.	
5	Main text	This field displays the main text of each page.	
6	Footer	This field is commonly displayed in every page.	
		The copyrights appear.	

User Information

In User Information, the login information and the updated information of each configuration screen are displayed.



Figure 1-3 User Information Screen (Example)

Name	Description	
Login User Name	The name of a logged-in user is displayed.	
Protocol	The protocol selected by using the FPU is displayed.	
Created By	The name of the user to save the current screen configuration is displayed by using the	
	"Add" button.	
Created On	The time when the current screen configuration is saved is displayed by using the "Add"	
	button.	
Last Modified By	The name of the latest user to edit and save the current screen is displayed.	
Last Modified On	The latest time of when the current screen is edited and saved is displayed.	
Last Used By	The name of the latest user to download the log for the current screen is displayed by using	
	the "Download" button.	
Last Used On	The latest time of when the log for the current screen is downloaded is displayed by using the	
	"Download" button.	
Record Status	The update status of the current screen is displayed, and the following statuses are indicated:	
	Editing is available.	
	Edited by a logged-in user	
	Edited by a user other than a logged-in user	

Table 1-3 User Information

Login User Name

The user name of a user logged in to the Web Tool is displayed.

The repeater permits the login of a maximum of 4 users (at the same time). Additionally, while logged in, if logging in as the same user is attempted from another browser or another PC, a warning of already being logged in is made, and the logging in cannot be done. A warning is also made related to access if the acceptable maximum number of logins is exceeded, and the logging in cannot be done.

Note

- Forcible logging out occurs according to the configuration in **Operation Timeout Timer** if the Web Tool is left without operation while being logged in.
- In the case of a monitor page, a user is not logged out even if the Web Tool is left without operation while being logged in.
- On a page other than a monitor page, an ID is locked until the time configured in Operation Timeout Timer elapses if the communication with a browser is interrupted for a certain amount of time while being logged in. For this reason, the logging in cannot be done by using the same user ID.
- If forcible logging out occurs by the Web Tool, the data not updated and waiting to be saved is automatically updated.
- Forcible logging out occurs if a firmware update, IP change, writing of FPU data, switching of Hot Standby statuses, and program restart, etc. occur.

Configuration using Web Tool

Configuring Operation Timeout Timer (Maintenance > Setting > Timer > Auto Logout > Operation Timeout
 Timer)

Protocol

The Protocol configured for the logged-in repeater is displayed.

Protocol displays that the operation mode of the repeater is one of DMR Mode, NXDN Mode, and Analog Mode according to the configuration in **Product Information** of the FPU.

Last Modified By

Last Modified By displays the user name of the user who last edited the configuration data.

Last Modified On

Last Modified On displays the date and time of when the configuration data is last edited.

Note

• The display format follows the configuration in **Date Format** and **Time Format**.

Created By

Created By displays the user name of the user who first created the configuration data.

Note

• **Created By** is displayed in the edit screen of Administrators > User List only.

Created On

The date and time of when the configuration data is first created is displayed.

Note

- The display format follows the configuration in **Date Format** and **Time Format**.
- **Created On** is displayed in the edit screen of Administrators > User List only.

Last Used By

Last Used By displays the name of the user who last downloaded the log.

Last Used On

Last Used On displays the time when the log was last downloaded.

Record Status

Record Status displays the update status for each page which can be edited.

Record Status is displayed in the edit screen. For the configuration to migrate to the edit screen by "Edit", **Record Status** can be displayed by clicking the "Edit" button.



All users can edit data on the page which displays this icon.

permit Only a user who is editing can edit data on the page which displays this icon.

Header

Each function of the header is described.



Figure 1-5 Menu (Screen Sample)

Menu is the main configuration menu commonly displayed on all pages. Because each menu is linked to various pages, clicking each menu allows a migration from the current page to the target page.

Table 1-4 Menu (Header)

Name	Description
Edit	Edit is the entrance to view and edit the following functions:
	 Home: To confirm the configuration and status of the repeater
	Information: The confirmation of the unique information of the repeater and the
	functions authorized by the license
	User List: To restrict access to the repeater (digital only)
	Console: To display the list of consoles connected to the repeater
Maintenance	Maintenance is the entrance to view and edit the following functions:
	Log: The internal information of the repeater
	Monitor: To confirm the status of the repeater (remote)
	Remote Control: To remotely control the repeater
	System: The configurations and confirmation of the repeater
	Setting: The display formats of the year, month, and day, and the time
	• Field Support: The operation information of the repeater (for failure analysis)
Administration	Administration is the entrance to view and edit the following functions:
	Administrators: The list of the users who configure and operate the repeater

Clicking the menu displayed at the top of the page allows a migration to the corresponding page.

Update



Update reflects the data saved by clicking Save in anything other than the **Maintenance** menu and **Administration** menu to the repeater.

Clicking the "Update" button displayed at the upper right of each page reflects to the repeater the data saved as configuration items which require updates.

If the writing of FPU data is executed after the page for which Save has been executed or the already saved page is displayed, clicking the "Update" button fails, and the changes added to the page are not saved. If a page which can be changed by using the FPU is displayed, the data changed by the FPU can be reflected on the page.

If the writing of FPU data is executed while Update is executed, although Update is executed normally, the changes by the FPU overwrite the update afterwards. If a page which can be changed by using the FPU is displayed, the data updated by the FPU can be reflected when a new page is displayed.

Help



Help displays the help text for the function of the displayed page.

The search for an intended item from the contents of the help text is also available.

Clicking "Help" at the upper right of each page displays the help text for the function of the displayed page in a new window. A table of contents is displayed at the left of the help screen, and migration occurs to the help text of a topic by selecting the topic.

Home



Home is the function to migrate from the current page to the Home screen by clicking the "Home" button displayed at the upper right of each page.

Refer to Home for details of the Home screen.

1 OVERVIEW EXPLANATION / 1.2 Basic Screen Layout / Navigation

Language



Figure 1-9 Language

Language is the function to switch the Web Tool notation to the selected language by selecting the desired language. By clicking the "Language" switch button displayed at the upper right (the part framed in red), a pulldown list for switching languages is displayed.

The language configuration selected in **Language** is retained for each user. The language which can be selected is one language from among English, Spanish, French, German, Italian, and Dutch.

Logout



Logout is used to close the Web Tool.

Clicking the "Logout" button displayed at the upper right of each page completes the logging out. Execute from the login operation when the Web Tool is used again.

Navigation

A detailed menu for the menu item selected by the header or navigation is displayed. Clicking the menu displayed at the left of each page allows a migration to the selected page. Because each menu is linked to various pages, migration from the current page to the target page is enabled.

Main Window

The hierarchy is displayed lined up sequentially from the top page to the currently displayed page. The position for which page is currently displayed can be grasped.

Footer

The copyrights are displayed. The copyrights are displayed at the position of the lower left of the screen.

1.3 Basic Operation Keys "Cancel" button

Cancel

Figure 1-11 Cancel Button

Clicking the "Cancel" button discards the changes added to the displayed page and restores the previously saved state. Depending on the configuration item, a warning is displayed for confirmation on whether a change can be discarded.

"Save" button

Save

Figure 1-12 Save Button

The changes added to the displayed page are saved or written to the repeater.

In the Maintenance menu and Administration menu, clicking the "Save" button saves and reflects the data in the repeater. In this case, clicking the "Update" button is not required.

In the Edit menu, although the changes added to the displayed page are saved by clicking the "Save" button, clicking the "Update" button is required to reflect in the repeater.

Clicking the "Save" button without entering the required entry items causes an entry error and Save cannot be done.

If the writing of FPU data is executed after the page is displayed, clicking the "Save" button fails, and the changes added to the page are discarded. If a page which can be changed by using the FPU is displayed, the changes made by the FPU are reflected on the page.

If the writing of FPU data is executed while Save is executed, although Save is executed normally, the changes by the FPU overwrite the update afterwards. If a page which can be changed by using the FPU is displayed, the changes made by the FPU are reflected when the page is next displayed (reflection does not occur instantaneously).

"Back" button

Back

Figure 1-13 Back Button

Clicking the "Back" button discards the changes added to the displayed page and restores the previous page.

1 OVERVIEW EXPLANATION / 1.3 Basic Operation Keys / "Add" button

"Add" button



Figure 1-14 Add Button

Clicking the "Add" button adds the corresponding item.

"Delete" button



Figure 1-15 Delete Button

Clicking the "Delete" button deletes the corresponding item. A warning is displayed for confirmation on whether a deletion can be executed.

"Execute" button



Figure 1-16 Execute Button

Clicking the "Execute" button executes the function corresponding to the button.

Page Access Bar



Figure 1-17 Example of Page Access Bar

Page Access Bar allows a jump between pages in the configuration list which extends over multiple pages.

Page Access Bar is a key for an easy jump between pages in the configuration list which extends over multiple pages.

A maximum of 5 pages from the current page can be directly indicated by using the "|<<" key, "<" key, ">" key, and ">>]" key.

The displayed page number is displayed at the center. For example, if there are 10 pages in total, pages 3 to 8 are displayed at the center, page 1 is displayed to the far left, and page 10 is displayed to the far right.

Кеу	Description
" <<"	Allows a jump to the first page among the pages of the displayed configuration
	list.
"<"	Allows a jump to the previous page among the pages of the displayed
	configuration list.
">"	Allows a jump to the next page among the pages of the displayed configuration
	list.
">> "	Allows a jump to the last page among the pages of the displayed configuration
	list.
"(page number)"	Allows a jump to the selected page number among the pages of the displayed
	configuration list.

Table 1-5 Page Access Bar

2 DESCRIPTIONS OF CONFIGURATION ITEMS

2.1 Configuration Items

Configuration of Time

The time of the repeater can be configured by using **Time Setting**, which is a Web Tool function of the repeater. The time configured in the repeater is used when recording a log such as a communication log. For the **Time Adjustment** function by using the FPU to take effect, the data needs to be written with **Time Adjustment** enabled.

Configuration	Description
NTP	The NTP Client and NTP Server functions can be configured for the repeater. The clock (the
	time) of the repeater can be matched according to the configuration.
Manual	If the repeater does not behave as an NTP Client, the clock (the time) can be matched
	manually.

Table 2-1 Time Setting

If "NTP" is configured in **Time Setting**, a different repeater in the system or an external NTP server can be specified. The following indicates the repeater behavior when Time Adjustment is executed from the FPU:

Status	NTP Master	NTP Member
Time Adjustment is	The repeater follows the configuration	The repeater follows the configuration of
executed by using the	of Time Adjustment.	Time Setting (NTP Server).
FPU.		

Table 2-2 Repeater Behavior When Time Adjustment Is Executed

Configuration by the FPU

The repeater supports the reading of data and writing of data from the FPU via an IP. The following items can be configured via the FPU:

Table 2-3 Items Which Can Be Configured by Using the FPU

Item	Remark
Channel Information	-
Optional Features	-
Protocol Options	-
Function Port	-
Multiple Encode/Decode Table	-
User List	-
Conventional IP Network	-
Site Group Table	-
IP Interface	-
Console List	-
SIP Phone	-
Voice Logger	-
SNMP Settings	-
Test Frequency	-
Embedded Message	-
Embedded Message with Password	-

Note

- The delivery behavior by a Conventional IP Network is stopped if the IP address of the own site configured for the Conventional IP Network and the IP address configured in the repeater itself are different.
- The User List and Console List can also be configured from the Web Tool.
- For the User List and Console List configured by using the FPU to take effect, the configuration of Overwrite needs to be enabled when the data is written.

Configuration by Using the Web Tool

The following items can be configured via the Web Tool:

Table 2 4 fields Which out be configured by configure web root		
Item	Remark	
User List	Refer to User List.	
Console List	Refer to Console List.	
Time Setting	Refer to Time Setting.	
Own IP Setting	Refer to IP Configuration.	
QoS	Refer to IP Configuration.	
Hot Standby	Refer to Hot Standby.	
Security	Refer to Security .	
Formats	Refer to Formats.	
Timer	Refer to Timer .	
Administration	Refer to Administration.	

Table 2-4 Items Which Can Be Configured by Using the Web Tool

To use the redundancy function by the main and sub repeaters, **Hot Standby** needs to be enabled. Main Repeater or Sub Repeater is configured for Hot Standby Mode if **Hot Standby** is enabled, and the configuration of Virtual IP Address is also done in either case (refer to Hot Standby). The behavior classifications of the physical IP address and Virtual IP Address when Hot Standby is enabled are shown below:

Table 2-5 Behavior Classifications of the Physical IP Address/ Virtual IP Address

Behavior	PIP (Physical IP Address)	VIP (Virtual IP Address)
Web Tool	V	-
FPU	V	-
IP Conventional	-	v
VLI	-	~
IPRCI	-	v
NXIP	-	~
AIS	-	~
SIP Phone	-	~
SNMP	V	-
Hot Standby communication	V	-
Multi Loader	V	-

Note

•

As FPU data, the IP address configured via the Web Tool for the repeater itself is available for viewing only.

2.2 Various Functions (Edit)

Home

Home is the function to confirm the configuration and status of the repeater.

KENWOOD Edit - Mai	intenance - Administration -		ام 🕲 😔	• ج
User Information	Edit > Home > General Informa	ation		
III Protocol : DMR	General Information			
	Repeater Status	Running		
Home ^	Error Information			
General Information	Channel Number			
Information ~	Site Number			
User List ~	Channel Name	DMR Channel		
Console ~	Model Name	NXR-1700		
	Market Code	E		
	Serial Number	00000047		
	NXDN ESN	0000000000		
	Own IP Address Subnet Mask	192.168.0.1		
		255.255.255.0		
	Default Gateway	192.168.0.254		
	MAC Address	B4:52:A9:65:35:A8		
	RX Frequency	163.362500		
	TX Frequency	158.362500		
	Operation Mode	Repeat		
	Hot Standby Mode			
	Hot Standby Status			
	Next Switch Time			
	Virtual IP Address			
	Beacon Operating Status			
	NTP Synchronized Status			
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Figure 2-1 Home

Table 2-6 Home

Function	Description
Repeater Status	In Repeater Status, the operational status of the repeater is displayed.
	In Repeater Status, the display changes according to the status of the software that is
	open.
Error Information	In Error Information, the status of an error that occurred in the repeater is displayed.
	In Error Information, multiple errors can be displayed at the same time, and the errors
	are displayed in order by the lowest error number.
Channel Number	In Channel Number, the number of the selected channel is displayed.
Site Number	In Site Number, the number of the site configured for the selected channel is displayed.

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2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / Home

Function	Description
Channel Name	In Channel Name, the name configured for the selected channel is displayed.
	Note
	• The repeater displays "Channel nn" (nn: 1 to 32 in Channel Number) in Channel
	Name for the channel with blank or only a space configured in Channel Name .
Model Name	In Model Name, the model name of the repeater is displayed.
Market Code	In Market Code, the market code of the repeater is displayed.
Serial Number	In Serial Number, the serial number assigned to the repeater is displayed.
NXDN ESN	In NXDN ESN, the NXDN ESN assigned to the repeater is displayed.
Own IP Address	In Own IP Address, the physical IP address configured for the repeater is displayed.
Subnet Mask	In Subnet Mask, the subnet mask for the physical IP address configured for the repeater
	is displayed.
Default Gateway	In Default Gateway, the default gateway for the physical IP address configured for the
	repeater is displayed.
MAC Address	In MAC Address, the MAC address assigned to the repeater is displayed.
RX Frequency	In RX Frequency, the receive frequency of the selected channel is displayed.
TX Frequency	In TX Frequency, the transmit frequency of the selected channel is displayed.
Operation Mode	In Operation Mode, the Operation Mode of the selected channel is displayed.
Hot Standby Mode	In Hot Standby Mode, the assignment information of Hot Standby configured for the
	repeater is displayed.
Hot Standby Status	In Hot Standby Status, the Hot Standby status of the repeater is displayed.
Next Switch Time	In Next Switch Time, the next date and time on which the Hot Standby status switches is
	displayed.
Virtual IP Address	In Virtual IP Address, the virtual IP address enabled while Hot Standby is active is
	displayed.
Beacon Operating	In Beacon Operating Status, the status of the Host Repeater is displayed.
Status	(Not displayed if Beacon is disabled.)
NTP Synchronized	In NTP Synchronized Status, the status of the synchronization of an NTP Client with an
Status	NTP Server is displayed.
	(Not displayed if "OFF" is configured in Valid for an NTP Client.)

If a channel change of the repeater occurs, the information related to the channel is tracked and refreshed.

Information

In Information, the unique information of the repeater and the function authorized by the license can be confirmed.

KENWOOD Edit - M	aintenance 🝷 Administration 🝷		😔 🕐 🏠	-
User Information	Edit > Information			
	Protocol Information			
	Protocol			
Home ~	License Information			
Information ^	license	Description		
Information SSL Contificate				
	KWD-NX10NC	NXDN CONVENTIONAL		
Console ~	KWD-NX10MS	CONVENTIONAL IP NETWORK		
	KWD-NX10SP	SIP PHONE		
	KWD-NX10VR	VOTING REPEATER		
	Software License Agreement			
	View			
Copyright (C) 2022 JVCKENWOOD Corporat	tion			

Figure 2-2 Information

Table 2-7 Information

Function	Description
Protocol Information	In Protocol Information, the protocol assigned to the logged in repeater is displayed.
	In Protocol, the function mode selected by using the FPU is displayed.
License Information	In License Information, the function authorized by the license is displayed.
	In License, the name of the function authorized by the license is displayed.
	In Description, the description of the function authorized by the license is displayed.
Software License	In Software License Agreement, the license articles related to the repeater are displayed.
Agreement	
	"View" button
	The license agreement of the repeater, the license articles of the OSS used by the
	repeater, and the important announcements regarding the software related to the repeater
	are displayed by clicking the "View" button.

SSL Certificate

SSL Certificate is the function to display the information of a server certificate registered in the repeater.

If Self-Signed Certificate is executed, the serial number of the repeater is displayed as the Common Name.

If a server certificate is uploaded to the repeater by using CA Certificate Install and **Apply CA Certificate** is enabled, the content of the uploaded server certificate is displayed.

If Self-Signed Certificate has never been executed, the information is not displayed.

KENWOOD	Edit - Ma	Administration •	O 🕐 🏠	🗢 - 🔿
User Information		Edit > Information > SSL Certificate		
		SSL Certificate		
		Country		
Home		State or Province		
Information		Locality		
Information		Organization		
SSL Certificate		Organizational Unit		
User List		Common Name		
Console 🗸	E-mail Address			
	Issued			
	Expire			
Copyright (C) 2022 JVCKENWC	OD Corporati	ion		

Figure 2-3 SSL Certificate

The following is the information specified by the user in the request (Certificate Signing Request) issued for acquiring a server certificate from the certificate authority:

Table 2-8 SSL Certificate

Function	Description
Country	Normally, the location (country name) of the site administration organization is specified.
State or Province	Normally, the location (state name or prefecture name) of the site administration
	organization is specified.
Locality	Normally, the location (city name) of the site administration organization is specified.
Organization	Normally, the site administration organization name is specified.
Organizational Unit	Normally, the department name, etc. of the site administration organization is specified.
Common Name	Normally, the URL domain name notified to a site visitor is specified.
E-mail Address	Normally, the email address of the site administration organization is specified.
Issued	The issued date of the applied server certificate is displayed.
Expire	The expiration date of the applied server certificate is displayed.

User List

GID List

GID List displays the list of the GIDs permitted for communication via the repeater.

In GID List, the GIDs permitted for the repeater can be confirmed by a list, and each GID can be edited by using each button for "Add", "Delete", and "Edit". GID is an ID that indicates a group for making a communication, and a Group Call becomes available by using a GID.

In GID List, the following items are displayed:

KENWOOD Edit - M	aintenance 👻 Administration 👻	6 🕐 伦 🍺 · 🕩				
User Information ▲ Login User Name: admin III Protocol : DMR ▲ Last Modified By : admin ■ Last Modified On : 09/25/2019 1.41.29 am	Edit > User List > GID List					
	GID List					
	Edit Search					
Home Ý	Page 1 out of 1 pages is displayed. Total number of records is 1.					
Information ~						
User List ^	No. Valid GID GID Name	Site Group				
GID List		Selected Channel				
GID Range List						
UID List						
UID Range List	Import					
Console ~						
	File Name	Browse				
	Export					
	Export					
Copyright (C) 2022 JVCKENWOOD Corpora	tion					

Figure 2-4 GID List

Table 2-9 GID List

Function	Description
No.	No. displays the order of the GID.
Valid	Valid is the function to select the availability of a GID. To temporarily suspend the use of
	a specific GID, the use of a specific GID can be temporarily suspended without deleting
	the configuration of the GID if Valid is disabled.
	"ON"
	The repeater is permitted to use a GID. A Group Call can be made by a GID permitted
	for a Console, the transceiver, or a SIP Phone.
	"OFF"
	The repeater is prohibited from using a GID. A Group Call cannot be made by a GID
	prohibited for a Console, the transceiver, or a SIP Phone.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
GID	GID displays a configured GID.
	In GID, a GID to be used for the transceiver, a Console, and a SIP Phone can be
	registered and edited.
	The repeater is permitted to use a GID with "ON" configured in Valid only.
	A Group Call cannot be made from a subscriber unit using a GID not registered in GID
	List.
	Even if a GID is registered, if Registration from a Console is not executed for the
	repeater by the GID, voice calls and data communication from the Console cannot be
	done by using the GID.
	For GID, a redundant value cannot be configured in GID List.
GID Name	GID Name displays the name of a GID configured in GID List.
	In GID Name, the name of the configured GID can be arbitrarily configured for each GID.
	By configuring GID Name, the identification or management of a GID can be easily
	done.
Site Group	Site Group displays the Site Group assigned to a GID.
	Site Group can specify the delivery area of an Intersite Call for a GID.
	When a Group Call is made for a GID, Intersite Call transmission occurs according to the
	configuration in Site Group.
	To use a Site Group Table for the delivery area, the Site Group Table is selected from the
	Site Group Table numbers registered by using the FPU.
Page Access Bar	Page Access Bar is a key for easily moving to another page of a configuration list
	spanning multiple pages.
File Name	File Name displays the file name of a CSV file for which Import or Differential Extract is
	done.
"Edit" button	Clicking the "Edit" button switches GID List to an edit screen, and the addition and
	editing of a GID on GID List can be done.
	In an edit screen, the "Add" button, "Save" button, "Cancel" button, and "Delete" button
	can be operated.
"Add" button	A GID can be added by clicking the "Add" button.
	The "Add" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Save" button	The content of GID List that is edited can be saved by clicking the "Save" button. The
	"Save" button is displayed by clicking the "Edit" button to switch to an edit screen.
	If migrating to another menu screen without a click of the "Save" button after changes
	are made in an edit screen, a warning appears regarding the migration without saving
	the changes.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
"Cancel" button	The "Cancel" button is to discard the changes added to the displayed page and restores
	the Save state of before the changes. The "Cancel" button is displayed by clicking the
	"Edit" button to switch to an edit screen.
"Delete" button	A GID can be deleted by clicking the "Delete" button.
	The "Delete" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Search" button	GID List is searched based on the number of a GID by clicking the "Search" button. The
	GID for which the search result and a GID fully match is displayed.
"Browse" button	The "Browse" button is to select the GID List file for executing Import or Differential
	Extract.
"Differential Extract"	The "Differential Extract" button is to output as a CSV file the data contents (additions,
button	edits, deletions) to be applied after the execution of Import.
"Import" button	The "Import" button is to execute the import of information related to the GID List.
"Export" button	The "Export" button is to execute Export of the GID List information.

GID Range List

In GID Range List, GID Range permitted for the repeater can be confirmed by a list, and each GID Range can be edited by using the "Add" button, "Delete" button, and "Edit" button. In GID Range List, the following items are displayed:

KENWOOD	Edit - Ma	intenance	e - Administrati	on •					😔 🕐 🏠	-
User Information & Login User Name ; admin IIII Protocol : DMR 4 Last Modified 9: admin Last Modified On : 09/25/2019 1:41:29 wm		Edit > User List > GID Range List								
		GID	Range List							
		Edit			Search					
Home		Page	1 out of 1 pages is	displayed. Total number	of records is 1.					
Information										
User List		No.	Valid	GID Range (Min)	GID Range (Max)	GID Range Name		Site Group		
GID List			ON					Selected Channel		
GID Range List										
UID List										
UID Range List		Imp	ort							
Console										
				File Name			Browse			
		Ехро	ort							
			Export							
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Figure 2-5 GID Range List

Table 2-10 GID Range List

Function	Description				
No.	No. displays the order of the GID.				
Valid	Valid is the function to select the availability of a GID Range. To temporarily suspend the				
	use of a specific GID Range, the use of a specific GID Range can be temporarily				
	suspended without deleting the configuration of the GID Range if Valid is disabled.				
	"ON"				
	The repeater is permitted to use a GID Range.				
	A Group Call can be made by a GID within a GID Range permitted for a Console, the				
	transceiver, or a SIP Phone.				
	"OFF"				
	The repeater is prohibited from using a GID Range.				
	A Group Call cannot be made by a GID within a GID Range prohibited for a Console, the				
	transceiver, or a SIP Phone.				

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
GID Range (Min)	GID Range (Min) displays the lower limit of the configured GID Range.
	In GID Range (Min), the lower limit of a GID Range to be used for the transceiver, a
	Console, and a SIP Phone can be registered and edited.
	The repeater is permitted to use GID Range with "ON" configured in Valid only.
	A Group Call cannot be made from a subscriber unit using a GID not included in GID
	Range.
	Even if a GID is included in GID Range, if Registration from a Console is not executed
	for the repeater by the GID, voice calls and data communication from the Console
	cannot be done by using the GID.
	For GID Range, a redundant value cannot be configured in GID Range List.
GID Range (Max)	GID Range (Max) displays the upper limit of a configured GID Range.
	In GID Range (Max), the upper limit of a GID Range to be used for the transceiver, a
	Console, and a SIP Phone can be registered and edited.
	The repeater is permitted to use GID Range with "ON" configured in Valid only.
	A Group Call cannot be made from a subscriber unit using a GID not included in GID
	Range.
	Even if a GID is included in GID Range, if Registration from a Console is not executed
	for the repeater by the GID, voice calls and data communication from the Console
	cannot be done by using the GID.
	For GID Range, a redundant value cannot be configured in GID Range List.
GID Range Name	GID Range Name displays the name of a GID Range configured in GID Range List.
	In GID Range Name, the name of a GID Range can be arbitrarily configured.
	By configuring GID Range Name, the identification or management of a GID Range can
	be easily done.
Site Group	Site Group can specify the delivery area of an Intersite Call for a GID Range.
	When a Group Call is made for a GID within a GID Range, Intersite Call transmission
	occurs according to the configuration in Site Group.
	To use a Site Group Table for the delivery area, the Site Group Table is selected from the
	Site Group Table numbers registered by using the FPU.
Page Access Bar	Page Access Bar is a key for easily moving to another page of a configuration list
	spanning multiple pages.
File Name	File Name displays the file name of a CSV file for which Import or Differential Extract is
	done.
2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
"Edit" button	Clicking the "Edit" button switches GID Range List to an edit screen, and the addition
	and editing of a GID Range on GID Range List can be done.
	In an edit screen, the "Add" button, "Save" button, "Cancel" button, and "Delete" button
	can be operated.
"Cancel" button	The "Cancel" button is to discard the changes added to the displayed page and restores
	the Save state of before the changes. The "Cancel" button is displayed by clicking the
	"Edit" button to switch to an edit screen.
"Save" button	The content of GID Range List that is edited can be saved by clicking the "Save" button.
	The "Save" button is displayed by clicking the "Edit" button to switch to an edit screen.
	If migrating to another menu screen without a click of the "Save" button after changes
	are made in an edit screen, a warning appears regarding the migration without saving
	the changes.
"Delete" button	A GID Range can be deleted by clicking the "Delete" button.
	The "Delete" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Add" button	A GID Range can be added by clicking the "Add" button.
	The "Add" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Search" button	GID Range List is searched based on the number of a GID by clicking the "Search"
	button. The GID Range for which the search result and a GID fully match is displayed.
"Browse" button	The "Browse" button is to select the GID Range List file for executing Import or
	Differential Extract.
"Differential Extract"	The "Differential Extract" button is to output as a CSV file the data contents (additions,
button	edits, deletions) to be applied after the execution of Import.
"Import" button	The "Import" button is to execute the import of information related to the GID Range List.
"Export" button	The "Export" button is to execute Export of the GID Range List information.

UID List

UID List displays the list of UIDs permitted for communication via the repeater.

In UID List, the UIDs permitted for the repeater can be confirmed by a list, and each UID can be edited by using each button for "Add", "Delete", and "Edit". UID is an ID that indicates an individual for making a communication, and an Individual Call becomes available by using a UID.

In UID List, the following items are displayed:

KENWOOD	Edit 👻 Mai	intenance 👻 Administra	tion 🝷		😔 🕐 🏠 🖷 🔹 🔿
User Information ▲ Login User Name : admin i= Protocol : DMR		Edit > User List > UID	List		
Last Modified By : admin Last Modified On : 09/25/2019 1:41:29 am		UID List			
		Edit	* *	Search	
Home		Page 1 out of 1 pages	is displayed. Total numb	ber of records is 1.	
Information					
User List		No. Valid	UID	UID Name	Site Group
GID List		1 ON			Selected Channel
GID Range List					
UID List					
UID Range List		Import			
Console					
			File Name		Browse
		Export			
		Export			
		Export			
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Figure 2-6 UID List

Table 2-11 UID List

Description
No. displays the order of the UID.
Valid is the function to select the availability of a UID. To temporarily suspend the use of
a specific UID, the use of a specific UID can be temporarily suspended without deleting
the configuration of the UID if Valid is disabled.
"ON"
The repeater is permitted to use a UID.
Communication can be performed by a Console or the transceiver of the permitted UID.
"OFF"
The repeater is prohibited from using a UID.
Communication cannot be performed by a Console or the transceiver of the prohibited
UID.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
UID	UID displays a configured UID.
	In UID, a UID to be used for the transceiver, a Console, and a SIP Phone can be
	registered and edited.
	The repeater is permitted to use a UID with "ON" configured in Valid only.
	Communication from the transceiver or a Console of a UID not permitted in the UID List
	cannot be performed.
	For a UID, a redundant value cannot be configured in UID List.
UID Name	UID Name displays the name of a UID configured in UID List.
	In UID Name, the name of the configured UID can be arbitrarily configured for each UID.
	By configuring UID Name, the identification or management of a UID can be easily done.
Site Group	Site Group displays the Site Group assigned to a UID.
	Site Group can specify the delivery area of an Intersite Call for a UID.
	When an Individual Call is made for a UID, Intersite Call transmission occurs according
	to the configuration in Site Group.
	To use a Site Group Table for the delivery area, the Site Group Table is selected from the
	Site Group Table numbers registered by using the FPU.
Page Access Bar	Page Access Bar is a key for easily moving to another page of a configuration list
	spanning multiple pages.
File Name	File Name displays the file name of a CSV file for which Import or Differential Extract is
	done.
"Edit" button	Clicking the "Edit" button switches UID List to an edit screen, and the addition and
	editing of a UID on UID List can be done.
	In an edit screen, the "Add" button, "Save" button, "Cancel" button, and "Delete" button
	can be operated.
"Cancel" button	The "Cancel" button is to discard the changes added to the displayed page and restores
	the Save state of before the changes. The "Cancel" button is displayed by clicking the
	"Edit" button to switch to an edit screen.
"Save" button	The content of UID List that is edited can be saved by clicking the "Save" button. The
	"Save" button is displayed by clicking the "Edit" button to switch to an edit screen.
	If migrating to another menu screen without a click of the "Save" button after changes
	are made in an edit screen, a warning appears regarding the migration without saving
	the changes.
"Delete" button	A UID can be deleted by clicking the "Delete" button.
	The "Delete" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Add" button	A UID can be added by clicking the "Add" button.
	The "Add" button is displayed by clicking the "Edit" button to switch to an edit screen.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
"Search" button	UID List is searched based on the number of a UID by clicking the "Search" button. The
	UID for which the search result and a UID fully match is displayed.
"Browse" button	The "Browse" button is to select the UID List file for executing Import or Differential
	Extract.
"Differential Extract"	The "Differential Extract" button is to output as a CSV file the data contents (additions,
button	edits, deletions) to be applied after the execution of Import.
"Import" button	The "Import" button is to execute the import of information related to the UID List.
"Export" button	The "Export" button is to execute Export of the UID List information.

UID Range List

In UID Range List, UID Range permitted for the repeater can be confirmed by a list, and each UID Range can be edited by using the "Add" button, "Delete" button, and "Edit" button. In UID Range List, the following items are displayed:

KENWOOD Edit	t - Mai	intenance - Administratio	n -					ං 🕐 🏫	۰	• 🔿
User Information Login User Name : admin		Edit > User List > UID Rar	nge List							
Last Modified By : admin Last Modified On : 09/25/2019 1:41:29 am		UID Range List								
		Edit	:	Search						
Home		Page 1 out of 1 pages is	displayed. Total number	of records is 1.						
Information										
User List		No. Valid	UID Range (Min)	UID Range (Max)	UID Range Name		Site Group			
GID List		1 ON								
GID Range List										
UID List										
UID Range List		Import								
Console			File Name			Browse				
		Export								
		Export								
Copyright (C) 2022 JVCKENWOOD C	orporatio	on								

Figure 2-7 UID Range List

Table 2-12 UID Range List

Function	Description
No.	No. displays the order of the UID.
Valid	Valid is the function to select the availability of a UID Range. To temporarily suspend the
	use of a specific UID Range, the use of a specific UID Range can be temporarily
	suspended without deleting the configuration of the UID Range if Valid is disabled.
	"ON"
	The repeater is permitted to use a UID Range.
	A Console or the transceiver within the range of the permitted UID Range can perform
	communication.
	"OFF"
	The repeater is prohibited from using a UID Range.
	A Console or the transceiver within the range of the prohibited UID Range cannot
	perform communication.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
UID Range (Min)	UID Range (Min) displays the lower limit of a configured UID Range.
	In UID Range (Min), the lower limit of a UID Range to be used for the transceiver, a
	Console, and a SIP Phone can be registered and edited.
	The repeater is permitted to use UID Range with "ON" configured in Valid only.
	The transmission to the repeater cannot be executed from a UID not included in UID
	Range or with "OFF" configured in Valid.
	For UID Range, a redundant value cannot be configured in UID Range List.
UID Range (Max)	UID Range (Max) displays the upper limit of a configured UID Range.
	In UID Range (Max), the upper limit of a UID Range to be used for the transceiver, a
	Console, and a SIP Phone can be registered and edited.
	The repeater is permitted to use UID Range with "ON" configured in Valid only.
	The transmission to the repeater cannot be executed from a UID not included in UID
	Range or with "OFF" configured in Valid.
	For UID Range, a redundant value cannot be configured in UID Range List.
UID Range Name	UID Range Name displays the name of a UID Range configured in UID Range List.
	In UID Range Name, the name of a UID Range can be arbitrarily configured.
	By configuring UID Range Name, the identification or management of a UID Range can
	be easily done.
Site Group	Site Group can specify the delivery area of an Intersite Call for a UID Range.
	When an Individual Call is made for a UID within a UID Range, Intersite Call
	transmission occurs according to the configuration in Site Group.
	To use a Site Group Table for the delivery area, the Site Group Table is selected from the
	Site Group Table numbers registered by using the FPU.
Page Access Bar	Page Access Bar is a key for easily moving to another page of a configuration list
	spanning multiple pages.
File Name	File Name displays the file name of a CSV file for which Import or Differential Extract is
	done.
"Edit" button	The "Edit" button allows the configuration of a UID Range to be edited. Clicking the "Edit"
	button switches UID Range List to an edit screen, and the addition and editing of a UID
	Range on UID Range List can be done.
	In an edit screen, the "Add" button, "Save" button, "Cancel" button, and "Delete" button
	can be operated.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / User List

Function	Description
"Cancel" button	The "Cancel" button is to discard the changes added to the displayed page and restores
	the Save state of before the changes. The "Cancel" button is displayed by clicking the
	"Edit" button to switch to an edit screen.
"Save" button	The content of UID Range List that is edited can be saved by clicking the "Save" button.
	The "Save" button is displayed by clicking the "Edit" button to switch to an edit screen.
	If migrating to another menu screen without a click of the "Save" button after changes
	are made in an edit screen, a warning appears regarding the migration without saving
	the changes.
"Delete" button	A UID Range can be deleted by clicking the "Delete" button.
	The "Delete" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Add" button	A UID Range can be added by clicking the "Add" button.
	The "Add" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Search" button	UID Range List is searched based on the number of a UID by clicking the "Search"
	button. The UID Range for which the search result and a UID fully match is displayed.
"Browse" button	The "Browse" button is to select the UID Range List file for executing Import or
	Differential Extract.
"Differential Extract"	The "Differential Extract" button is to output as a CSV file the data contents (additions,
button	edits, deletions) to be applied after the execution of Import.
"Import" button	The "Import" button is to execute the import of information related to the UID Range List.
"Export" button	The "Export" button is to execute Export of the UID Range List information.

Console List

This displays the list of the Consoles connected to the repeater. In Console List, the list of Consoles connected to the repeater can be confirmed, and each Console can be edited by using Add/Delete/Edit. In Console List, the following items are displayed:

KENWOOD Edit	• Ma	intenanc	e 🝷 Administra	tion 🝷			😔 😨 🏠	-
User Information		Edit >	Edit > Console > Console List					
Last Modified By : admin Last Modified On : 09/25/2019 1:41:29 am		Con	sole List					
		Edit		*	Search			
Home		Page	1 out of 1 pages	is displayed. Total numb	per of records is 1.			
Information								
User List		No.	Valid	UID	UID Name	Comment	Priority	
Console	^		ON					
Console List								
		Imp	ort					
				File Name			Browse	
		Ехр	ort					
			Export					
Copyright (C) 2022 JVCKENWOOD Co	rporati	on						

Figure 2-8 Console List

Table 2-13 Console List

Function	Description
No.	The order of Console List is displayed.
Valid	Valid is the function to select the availability of a configured Console.
	To temporarily suspend the use of a specific Console, the temporary suspension of the use of
	a specific Console can be realized without deleting the configuration of the Console by
	disabling Valid .
	"ON"
	The repeater is permitted to use a Console.
	"OFF"
	The repeater is prohibited from using a Console.
UID	The repeater is permitted to use a Console for which a UID is assigned only.
	For UID, a redundant value cannot be configured.
	Even if a UID is registered, if Registration from a Console UID is not executed for the
	repeater, voice calls and data communication cannot be done by using the Console UID.
	UID displays the UID configured for a Console.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.2 Various Functions (Edit) / Console List

Function	Description
UID Name	UID Name is the name indicating a UID assigned to a Console. In UID Name, the desired
	name can be configured. UID Name is configured for the identification and management of a
	Console by using a name. UID Name configured for each Console can be confirmed in a list
	of Console List.
Comment	Comment is the function to enter a desired text string for easily confirming a registered
	Console in the Web Tool.
Priority	Priority is the function to display the transmission priority configured in a Console.
	Refer to Priority for details.
Page Access Bar	Page Access Bar is a key for easily moving to another page of a configuration list spanning
	multiple pages.
"Edit" button	Clicking the "Edit" button switches Console List to an edit screen, and the addition and editing
	of a Console on Console List can be done.
	In an edit screen, the "Add" button, "Save" button, "Cancel" button, and "Delete" button can
	be operated.
"Cancel" button	The "Cancel" button is to discard the changes added to the displayed page and restores the
	Save state of before the changes. The "Cancel" button is displayed by clicking the "Edit"
	button to switch to an edit screen.
"Save" button	The content of Console List that is edited can be saved by clicking the "Save" button. The
	"Save" button is displayed by clicking the "Edit" button to switch to an edit screen.
	If migrating to another menu screen without a click of the "Save" button after changes are
	made in an edit screen, a warning appears regarding the migration without saving the
	changes.
"Delete" button	A Console can be deleted by clicking the "Delete" button.
	The "Delete" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Add" button	A Console can be added by clicking the "Add" button.
	The "Add" button is displayed by clicking the "Edit" button to switch to an edit screen.
"Search" button	Console List is searched based on the number of a UID by clicking the "Search" button. The
	Console List for which the search result and a UID fully match is displayed.
"Browse " button	The "Browse" button is to select the Console List file for executing Import or Differential
	Extract.
"Differential Extract"	The "Differential Extract" button is to output as a CSV file the data contents (additions, edits,
button	deletions) to be applied after the execution of Import.
"Import" button	The "Import" button is to execute the import of information related to the Console List.
"Export" button	The "Export" button is to execute Export of the Console List information.

Priority

In **Priority**, the priority order of each Console for using the Conventional repeater is configured.

If the repeater is being used for transmission from another Console having a lower priority while a Console having a higher priority executes voice communication and data transmission, the Console having a higher priority is reserved as the next user of the repeater. When the transmission by a Console having a lower priority ends, the repeater disconnects the communication and switches to the transmission from the reserved Console without entering Hangtimer/ Hold Timer. If transmission from a specific Console needs to be prioritized, this function enables transmission from the Console as much as possible. The following are behaviors depending on the **Priority** configuration if another Console is transmitting when a Console makes a call request:

Priority of the Console Making a Call	Repeater Behavior
Request	
When higher than that of the transmitting	The repeater accepts the call request from the Console, and the use of
Console	the repeater is reserved.
	The repeater switches to the transmission by the reserved Console after
	the transmission by the transmitting Console ends.
When lower than that of the transmitting	The repeater rejects the call request from the Console, and the
Console, or when the same	communication by the transmitting Console continues.

Table 2-14 Repeater Behavior Depending on Priority

This function determines the Console to use the repeater by the priority order of the Consoles. The behavior when a Console makes a call request while the repeater is in use by another PTT control follows the configuration in **PTT Priority**.

If a call request is reserved from another Console having a higher priority while a Console is sending data, the repeater switches to transmission from the reserved Console, when the data communication is completed to the end. The Priority behavior of each Console behaves only when a communication where the combination of the Signaling, ID, and Call Type differs from that of the communication already occurring on the repeater.

For a communication where the combination of the Signaling, ID, and Call Type is the same as that of the communication already occurring on the repeater, the repeater rejects the call request from a Console regardless of the priority order.

2.3 Maintenance Functions (Maintenance)

Log

Communication Log

Communication Log is the record of a voice call or data communication that occurs in a system. Refer to the Function Reference for details of the function. The Web Tool screen and button names, etc. are described here:

KENWOOD	Edit - Ma	aintenance - Administration -			😔 😨 🏠	-
User Information ▲ Login User Name : admin III Protocol: DMR		Maintenance > Log > Communicati	ion Log			
- Hoteen blik		Communication Log				
			Start Date	08/01/2019		
Log			End Date	09/30/2019		
Communication Log						
System Log		a sector t				
Diagnostic Data		Download				
Monitor						
Remote Control						
System						
Setting						
Field Support						
Copyright (C) 2022 JVCKENWC	OD Corporat	ion				

Figure 2-9 Communication Log

Function	Description
Start Date	In Start Date and End Date, the year, month, and day to start acquiring Communication Log and the
	year, month, and day to finish acquiring can be entered.
	Clicking the year, month, and day in Start Date and End Date display the calendar, and the year,
End Date	month, and day to start acquiring and the year, month, and day to finish acquiring can be selected.
	By specifying Start Date and End Date, Communication Log of the period to be acquired can be
	downloaded.
"Download"	Clicking the "Download" button downloads Communication Log to a PC. By downloading a
button	Communication Log, the contents of the record of a voice call or data communication that occurs in
	a system can be confirmed.
	While Communication Log is being downloaded, the progress status is displayed. The downloading
	of Communication Log can be stopped by clicking the "Cancel" button.

Table 2-15 Start Date/ End Date (Communication Log)

The display format of the year, month, and day follows the configuration in **Date Format**.

If a year, month, and day later than **End Date** is entered in **Start Date**, the "Download" button cannot be clicked, and the download cannot be executed.

Note

• Communication Log is recorded on the repeater when a channel with one of "Repeat", "RF Link", or "Voting Repeater" configured in **Operation Mode** is selected.

System Log

System Log is the record of changes in the status of the repeater, user operations, etc.

Refer to the Function Reference for details of the function. The Web Tool screen and button names, etc. are described here:

KENWOOD	Edit 👻 Ma	aintenance - Administration -		😔 🕐 🏠	
User Information		Maintenance > Log > System Log			
I PIOLOCO : DMK		System Log			
		Start Date	08/01/2019		
Log		End Date	09/30/2019		
Communication Log					
System Log		Download			
Diagnostic Data		Download			
Monitor					
Remote Control					
System					
Setting					
Field Support					
Copyright (C) 2022 JVCKENWC	OOD Corporati	ion			

Figure 2-10 System Log

Table 2-16 Start Date/ End Date (System Log)

Function	Description
Start Date	In Start Date and End Date, the year, month, and day to start acquiring System Log and the year,
	month, and day to finish acquiring can be entered.
	Clicking the year, month, and day in Start Date and End Date display the calendar, and the year,
	month, and day to start acquiring and the year, month, and day to finish acquiring can be selected.
End Date	
	By specifying Start Date and End Date, System Log of the period to be acquired can be
	downloaded.
"Download"	Clicking the "Download" button downloads System Log to a PC. By downloading a System Log, the
button	recorded contents of changes in the status of the repeater, user operations, etc. can be confirmed.
	While System Log is being downloaded, the progress status is displayed. The downloading of
	System Log can be stopped by clicking the "Cancel" button.

The display format of the year, month, and day follows the configuration in **Date Format**.

If a year, month, and day later than **End Date** is specified in **Start Date**, the "Download" button cannot be clicked, and the download cannot be executed.

Diagnostic Data

Diagnostic Data is the record of the internal information (various logs, etc.) of the repeater. Refer to the Function Reference for details of the function. The Web Tool screen and button names, etc. are described here:

KENWOOD	Edit 👻 Ma	aintenance - Administration -		Ð	? 🏫	-
User Information		Maintenance > Log > Diagnostic Data				
- Holder Dillik		Diagnostic Data				
		Start Date	08/01/2019)		
Log		End Date	09/30/2019			
Communication Log						
System Log						
Diagnostic Data		Download				
Monitor						
Remote Control						
System						
Setting						
Field Support						
Copyright (C) 2022 JVCKENWOOD Corporation						

Figure 2-11 Diagnostic Data

Function	Description
Start Date	In Start Date and End Date, the year, month, and day to start acquiring Diagnostic Data and the
	year, month, and day to finish acquiring can be entered.
	Clicking the year, month, and day in Start Date and End Date display the calendar, and the year,
End Date	month, and day to start acquiring and the year, month, and day to finish acquiring can be selected.
	By specifying Start Date and End Date, Diagnostic Data of the period to be acquired can be
	downloaded.
"Download"	Clicking the "Download" button downloads Diagnostic Data to a PC. The contents of internal
button	information (various logs, etc.) of the repeater can be confirmed by downloading Diagnostic Data.
	While Diagnostic Data is being downloaded, the progress status is displayed. The downloading of
	Diagnostic Data can be stopped by clicking the "Cancel" button.

Table 2-17 Start Date/ End Date (Diagnostic Data)

The display format of the year, month, and day follows the configuration in **Date Format**.

If a year, month, and day later than **End Date** is specified in **Start Date**, the "Download" button cannot be clicked, and the download cannot be executed.

Monitor

Call Monitor

Call Monitor is the function to monitor the communication in a system in real time.

By **Call Monitor**, the type, caller and destination IDs, etc. of the call that is occurring in a system that includes the repeater can be confirmed.

In **Call Monitor**, Voice Call, Phone Call and Long Data Call can be monitored. Also, the Voice Call, Phone Call and Long Data Call in communication are displayed. The monitor display turns off after the communication ends.

When **Call Monitor** is performed on a channel with "Voting Repeater" configured in **Operation Mode**, the items of **Selected Voting Receiver** and **RSSI** are displayed in the Call Monitor screen.

KENWOOD Edit - Ma	aintenance 👻 Administration 👻			G 😯	♠ 🔘 - 🖙
User Information ▲ Login User Name : admin	Maintenance > Monitor > Call Monito				
== Protocol : DMR	Call Monitor				
		Slot1	Slot2		
Log ~	Start Time				
Monitor ^	Duration				
Call Monitor	Source ID				
Status Monitor	Call Type				
Remote Control ~	Destination ID				
System ~	Emergency				
Setting ~	Caller Site				
Field Support V	IP Address				
	Service				
	Selected Voting Receiver				
	RSSI			dBm	
Copyright (C) 2022 JVCKENWOOD Corporat	ion				

Figure 2-12 Call Monitor (DMR)

KENWOOD Edit - Mai	ntenance 🔹 Administration 🝷			۲ 🕤 🕙	-	
User Information	Maintenance > Monitor > Call Monitor					
= Plotocol : Nadin	Call Monitor					
	Start Time					
Log ~	Duration					
Monitor ^	Source ID					
Call Monitor	Call Type					
Status Monitor	Destination ID					
Remote Control V	Emergency					
System ~	Caller Site					
Setting ~	IP Address					
Field Support V	Service					
	Selected Voting Receiver					
	RSSI		dBm			
Copyright (C) 2022 JVCKENWOOD Corporation						

Figure 2-13 Call Monitor (NXDN, Analog)

Table 2-18 Call Monitor

Function	Description
Start Time	Displays the start time of the communication.
Duration	Displays the duration from the start of the communication up to the present.
Source ID	Displays the caller ID.
Call Type	Displays the call type.
Destination ID	Displays the destination ID.
Emergency	Displays that the communication is in Emergency mode.
Caller Site	Displays the caller site.
IP Address	Displays the IP address of the caller site.
Service	Displays the communication type.
Selected Voting Receiver	Displays the IP address of the currently accessed Voting Receiver.
RSSI	Displays the signal strength level of the communication being received by the currently
	accessed Voting Receiver.

Status Monitor

Status Monitor is the function to monitor the status of the repeater in real time. By **Status Monitor**, the receive status, transmit status, hardware status, error status, Function Port status, etc. of the repeater can be confirmed.

KENWOOD Edit -	Main	tenance 🝷 Administration 🝷				😔 🕐 🏠 🖷 - 🖙
User Information Login User Name : admin Protocol : DMR		Maintenance > Monitor > Status Monit	tor			
		Status Monitor				
		RX Status (Slot1/Slot2)				
Log		RSSI (Slot1/Slot2)		****	****	dBm
Monitor		BER (Slot1/Slot2)				%
Call Monitor		Signaling (Slot1/Slot2)				
Status Monitor		Receive Signal (Threshold)		Active		
Remote Control		TX Status				
System		VSWR				
Setting		RF Power			w	Condition:50Ω Terminal/13.2V/Normal Temperatur
Field Support						
		Fan		Stopped		
		Power Supply Voltage		13.0	v	
		RX PLL		Lock		
		TX PLL		Lock		
		Current Consumption (HPA)			A	Condition: 50 Ω Terminal/13.2V/Normal Temperatur e
		Temperature (Drive Amp)		32	°C	
		Temperature (TX Block)		31	°C	
		Temperature (TCXO)		34	°C	
		Temperature (HPA)		31	°C	
		Aux Input Monitor				
Copyright (C) 2022 JVCKENWOOD Corp	oratio					

Figure 2-14 Status Monitor (DMR)

KENWOOD Edit - Ma	intenance 🝷 Administration 🝷			😔 🕐 🎓 🍺 - 🖬
User Information ▲ Login User Name : admin I Protocol : NXDN	Maintenance > Monitor > Status Monit	or		
	Status Monitor			
	RX Status			
Log ~	RSSI	****	dBm	
Monitor ^	BER		%	
Call Monitor	Signaling			
Status Monitor	Receive Signal (Threshold)	Active		
Remote Control ~	TX Status			
System ~	VSWR			
Setting ~	RF Power		w	Condition:50
Field Support \checkmark				
	Fan	Stopped		
	Power Supply Voltage	13.0	v	
	RX PLL	Lock		
	TX PLL	Lock		
	Current Consumption (HPA)		A	Condition:50Ω Terminal/13.2V/Normal Temperatur e
	Temperature (Drive Amp)	31	°C	
	Temperature (TX Block)	30	°C	
	Temperature (TCXO)	34	°C	
	Temperature (HPA)	30	°C	
	Aux Input Monitor			
Copyright (C) 2022 JVCKENWOOD Corporati	on			

Figure 2-15 Status Monitor (NXDN, Analog)

Table 2-19 Status Monitor

Function	Description
RX Status	Displays the receive status of the repeater.
RSSI	Displays the receive strength level of the repeater.
BER	Displays the BER.
Signaling	Displays the Signaling matching status.
Receive Signal (Threshold)	Displays as to whether the threshold value of the receive sensitivity configured by using the FPU is exceeded.
TX Status	Displays the transmit status of the repeater.
VSWR	Displays the reflected wave strength during transmission.
RF Power	Displays the status of Forward Power.
Fan	Displays the status of Fan.
Power Supply Voltage	Displays the status of the power supply voltage.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Monitor

Function	Description
RX PLL	Displays the Lock status of the receive PLL.
TX PLL	Displays the Lock status of the transmit PLL.
Current Consumption (HPA)	Displays the status of the HPA current consumption.
Temperature (Drive Amp)	Displays the temperature of Drive Amp.
Temperature (TX Block)	Displays the temperature of TX Block.
Temperature (TCXO)	Displays the temperature of TCXO.
Temperature (HPA)	Displays the temperature of HPA.
AUX Input Monitor	Displays the status of the Function Port to which AUX Input Monitor is assigned.

The background color and displayed text string of each item are as follows:

Function When No		hen Normal		When Normal (Change)		r	Remark	
	Background Color	Text	Background Color	Text	Background Color	Text		
RX Status *	Default	Blank	Green	Receiving	-	-	-	
RSSI *	Default	The RSSI value	-	The RSSI value	-	-	-	
BER *	Default	Blank	-	The BER value	-	-	-	
Signaling *	Default	Blank	Green	Correct	Yellow	Incorrect	-	
Receive Signal (Threshold)	Yellow	Active	Green	Inactive	Yellow	Active	-	
TX Status	Default	Blank	Green	Transmitting	-	-	-	
VSWR	Default	Blank	Green	Normal or Error	Red	Normal or Error	VSWR Error Detection	
RF Power	Default	Blank	Green	The value for RF Power	Red	The value for RF Power	RF Power Down Detect	
Fan	Green	Spinning/ Stopped	-	-	Red	Error	Fan Lock Detection	
Power Supply Voltage	Green	The Power Supply Voltage value	-	-	Yellow /Red	The Power Supply Voltage value	Power Supply Lower Limit / Power Supply Voltage	
RX PLL	Green	Lock	-	-	Red	Unlock	RX PLL Unlock	
TX PLL	Green	Lock	-	-	Red	Unlock	TX PLL Unlock	
Current Consumption (HPA)	Default	Blank	Green	The Current Consumptio n value	Red	The Current Consumptio n value	Current Consumption (HPA) Error	
Temperature (Drive Amp)	Green	Temperature	Green	Temperature	Red	Temperature	Temperature (Drive Amp) Error	
Temperature (TX Block)	Green	Temperature	Green	Temperature	Red	Temperature	Temperature (TX Block) Error	
Temperature (TCXO)	Green	Temperature	Green	Temperature	Red	Temperature	Temperature (TCXO) Error	
Temperature (HPA)	Green	Temperature	Green	Temperature	Red	Temperature	Temperature (HPA) Error	

Table 2-20 Status Monitor Display

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Monitor

Function	ion When Normal		When Normal (Change)		When an Error		Remark	
	Background Color	Text	Background Color	Text	Background Color	Text		
AUX Input Monitor	Default	The Port number	Green	The Port number	-	-	A maximum of 9 ports	

* For RX Status, RSSI, BER, and Signaling, the status is displayed for each slot in DMR mode. In this case, the same status is displayed for both slot 1 and slot 2 when a signal of anything other than DMR is being received.

System

Remote Control

Remote Control is the function to remotely control the repeater.

This function can be used to remotely control the repeater in the case that the repeater is located in a place where the repeater cannot directly be operated, such as when the repeater is operated in the repeater system.

KENWOOD	Edit 👻 Mair	ntenance - Administration			😔 🕐 🏠	• ج	
User Information		Maintenance > Remote Control					
		Remote Control					
		Channel Select	1	Apply			
Log		Slot Select	1	Apply			
Monitor		Decode Signaling					
Remote Control	^	Decode Signaling	Enable				
System	~	Encode Signaling	Enable				
Setting		Call Hangtime	Enable				
Field Support		Channel Hangtime	Enable				
		Hold Time	Enable				
		тот	Enable				
		Take Over	OFF				
		Repeat	Enable				
		тх	Enable				
		Local TX	Enable				
		Low Power	OFF				
		Monitor	OFF				
		Squelch	ON				
		Test Tone	OFF				
		Voting Tone	OFF				
		Кпоb	Unlock				
		CWID		Execute			
		Service		Stop T	Execute		
		Active Status Switch					
		AUX Output Control					
Copyright (C) 2022 JVCKENWOO	OD Corporatio	n					

Figure 2-16 Remote Control

Function Name	Description
Channel Select	The channel of the repeater can be changed according to the configuration by the FPU.
Slot Select	The slot of the repeater to be used in DMR mode can be switched.
Decode Signaling	Decode Signaling can be toggled between enabled and disabled.
Encode Signaling	Encode Signaling can be toggled between enabled and disabled.
Call Hangtime	Call Hangtime can be toggled between enabled and disabled.
Channel Hangtime	Channel Hangtime can be toggled between enabled and disabled.
Hold Time	Hold Time can be toggled between enabled and disabled.
тот	TOT can be toggled between enabled and disabled.
Take Over	The Take Over function can be enabled by specifying "ON".
Repeat	The repeat behavior can be toggled between enabled and disabled.
ТХ	The transmit function of the repeater can be toggled between enabled and disabled.
Local TX	The PTT control (Test PTT) by using the Knob can be toggled between enabled and
	disabled.
Low Power	The transmit power for the selected channel can be changed to "Low" by specifying "ON".
Monitor	The Monitor function can be enabled by specifying "ON".
Squelch	The Squelch function can be disabled by specifying "OFF".
Test Tone	A Test Tone can be sent by specifying "ON".
Voting Tone	A Voting Pilot Tone can be sent by specifying "ON".
Knob	Operation of the Knob can be disabled by specifying "Lock".
CW ID	Transmission of a CW ID can be executed by clicking the "Execute" button. However, this
	function cannot be executed while the repeater is sending a CW ID.
Service	Behavior of the repeater can be stopped, started, restarted, and rebooted by clicking the
	"Execute" button.
Active Status Switch	For the Hot Standby function, the active and standby state of the main repeater can be
	switched. Active Status Switch can be configured when Hot Standby Status is active or
	on standby.
AUX Output Control	"ON" and "OFF" of a port assigned by the configuration by the FPU can be operated.

Table 2-21 Remote Control

In Remote Control, the following operations can be done:

Function	Range	Upon Activation
Channel Select *2	Depends on the FPU configuration	Selected CH
Slot Select *3	1 or 2	Depends on the FPU configuration
Decode Signaling	Enable or Disable	Enable
Encode Signaling	Enable or Disable	Enable
Call Hangtime	Enable or Disable	Enable
Channel Hangtime	Enable or Disable	Enable
Hold Time	Enable or Disable	Enable
тот	Enable or Disable	Enable
Take Over	OFF or ON	OFF
Repeat *1	Enable or Disable	Enable
TX *1	Enable or Disable	Enable
Local TX	Enable or Disable	Enable
Low Power	OFF or ON	OFF
Monitor	OFF or ON	OFF
Squelch	OFF or ON	ON
Test Tone	OFF or ON	OFF
Voting Tone *1	OFF or ON	OFF
Knob	Unlock or Lock	Depends on the FPU configuration
CW ID	Execute button	Not executed
Service	Execute button (Stop, Start, Restart, Reboot)	Not executed, with Stop displayed
Active Status Switch	Execute button	Not executed
AUX Output Control	OFF or ON	OFF

Table 2-22 Range and Status Upon Activation of Remote Control

^{*1} If a function that can be operated by Remote Control is assigned to AUX Input and the assigned function is enabled, control from the Web Tool and OLED display Menu cannot be executed.

² If Channel Select is assigned to AUX Input/Output 1 to AUX Input/Output 5 by using the FPU, Channel Select cannot be controlled from the Web Tool and OLED display Menu. However, if "ON" is configured in **Take Over, Channel Select can be controlled from the Web Tool and OLED display Menu.

*³ If "Ch Data Blank" is displayed as a repeater error, Slot Select cannot be controlled from the Web Tool and OLED display Menu.

Firmware Update

Firmware Update is the function to confirm the firmware that is currently used on the repeater, and to update the firmware.

If the firmware is updated by using **Firmware Update**, the repeater stops behaving, and the firmware is overwritten.

KENWOOD	Edit - Ma	intenance 🝷 Administration 🝷		😔 🕐 🏠	-
User Information		Maintenance > System > Firmware Update			
I PIOLOCI : DMK		Current Firmware			
		Version			
Log					
Monitor		New Firmware			
Remote Control		File Name	Browse	·	
System				_	
Firmware Update		Version			
Backup & Restore					
Clear					
Time Settings					
IP Configuration					
Hot Standby					
Security					
Setting					
Field Support					
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Figure 2-17 Firmware Update

In the Firmware Update screen, the following operations can be executed:

Table 2-23 Firmware Update (Current)

Function	Description
Version	The version of the firmware currently installed on the repeater is displayed.
	Version is the function to confirm the firmware currently used by the repeater.

Table 2-24 Firmware Update (New)

Function	Description
File Name	File Name is the function to display the file name of the firmware to write.
	The file name of the firmware selected by using the "Browse" button is displayed. By using
	this function, the overwriting of the firmware can be executed after File Name is confirmed.
Version	Version is the function to display the version of the firmware to write.
	The version of the firmware selected by using the "Browse" button is displayed. By using
	this function, the overwriting of the firmware can be executed after Version is confirmed.
"Browse" button	The "Browse" button is the function to select the file of the firmware to write.
	When the file of the firmware to write is selected by clicking the "Browse" button, the file
	name and version of the selected firmware are displayed.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function	Description						
"Update" button	The overwriting of the firmware on the repeater is executed.						
	The "Update" button is the function to write the firmware to the repeater.						
	Clicking the "Update" button writes the selected firmware to the repeater. If the "Update"						
	button is executed, the other users of the Web Tool that are logged in are forcibly logged						
	out. When the writing of the firmware succeeds, the repeater restarts, and the displayed						
	contents of New Firmware are updated.						
	Note						
	• If the firmware is selected by using the "Browse" button, the "Update" button changes						
	from the inactive state to the active state.						

Backup & Restore

Backup & Restore is the function to read the data configured by using the Web Tool from the repeater and save the data as a file. By saving configuration data, the configuration data can be restored when unforeseen circumstances occur, such as the hardware malfunction of the repeater and the incorrect editing of the configuration data by a user.

KENWOOD	Edit 👻 Ma	intenance 🝷 Administration 🝷		😔 🕐 🏠	-
User Information ▲ Login User Name : admin		Maintenance > System > Backup & Restore			
- Flotocol , Dirik		Backup			
		Backup			
Log		Comment			0
Monitor					
Remote Control		Restore			
System		File Name	Browse		
Firmware Update					
Backup & Restore		Comment			
Clear					
Time Settings					
IP Configuration					
Hot Standby					
Security					
Setting					
Field Support	×				
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Figure 2-18 Backup & Restore

In the Backup & Restore screen, the following operations can be executed:

Table 2-25 Backup & Restore

Function 1	Function 2	Description		
Backup	-	The other users of the Web Tool that are logged in are forcibly logged out when		
		Backup is executed.		
		The save targets of Backup are the configuration items of the Web Tool.		
		However, the following items are not targets for saving:		
		The information recorded in the repeater (various logs, etc.)		
		NTP Client/ NTP Server configuration		
		IP configuration (IP Configuration)		
		HTTP over SSL configuration		
		Access Key configuration		
		Field Support configuration (Packet Capture/ Syslog)		
Backup	"Backup" button	The configuration can be saved as a file after the configuration from the		
		repeater is read by clicking the "Backup" button. This file is the backup file used		
		during a restoration, and the configuration data cannot be confirmed from the		
		file.		

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
	Comment	Comment is the function to add a comment such as a description of the
		contents when the configuration data of the repeater is saved as a file. The
		entered comment is saved in the backup file, and can be confirmed when
		configuration data is restored by using Restore.
		The comment to be displayed when configuration data is restored by using
		Restore is entered.
Restore	-	Restore is the function to write the configuration data file to the repeater.
		Configuration data can be restored by using a previously saved backup file.
		Click the "Restore" button after the file name and comment of a backup file are
		confirmed. Clicking the "Restore" button writes the configurations in the backup
		file to the repeater.
		The other users of the Web Tool that are logged in are forcibly logged out when
		Restore is executed.
		The "Restore" button is activated by selecting a configuration data file by using
		the "Browse…" button.
		Note
		• The data configured by using the Web Tool is overwritten if Restore is
		executed (refer to Configuration by Using the Web Tool).
Restore	File Name	File Name is the function to display the file name of a backup file. The file
		name of the configuration data to be restored can be confirmed before Restore
		is executed.
		In File Name, the file name of the backup file selected by using the "Browse"
		button is displayed.
	"Browse" button	The "Browse" button is the function to select the backup file to be restored to
		the repeater.
		When the backup file to write is selected by clicking the "Browse" button, the
		file name and comment of the selected backup file are displayed.
	Comment	Comment is the function to display the comment added to a backup file. The
		comment added to the configuration data to be restored can be confirmed
		before Restore is executed.
		In Comment, the comment added to the backup file selected by using the
		"Browse…" button is displayed.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Clear

The "Clear" button is the function to delete all of the ID List Information and log information saved on the repeater.

KENWOOD	Edit 🝷 Maintenance 👻 Administration 👻	↔ ? â 🗯 · 🗭	
User Information	Maintenance > System > Clear		
:= Protocol : DMR	ID List		
		Clear	
Log			
Monitor	Log		
Remote Control		Clear	
System	<u>^</u>		
Firmware Update			
Backup & Restore			
Clear			
Time Settings			
IP Configuration			
Hot Standby			
Security			
Setting			
Field Support	v		
Copyright (C) 2022 JVCKENWOOD Corporation			

Figure 2-19 Clear

Time Settings

Time Settings is the function to configure the configurations related to the time for the repeater. By configuring the NTP server to be used, the time can be automatically matched.

KENWOOD Edit	Maintenar	nce • Administration •			😔 🕐 🏠	• ج
User Information	Mair	intenance > System > Time Settings > Gene	ral			
i≡ Protocol : DMR						
		Save				
Log	~ Tir	me Zone Settings				
Monitor		Time Zone	Плс			
Remote Control						
System		Daylight Saving Time	OFF			
Firmware Update		Start Date				
Backup & Restore						
Clear Time Settings		Start Time		: 00		
General		End Date				
Time Adjustment						
IP Configuration		End Time		:00		
Hot Standby						
Security	Y NT	TP Client				
Setting		Valid	OFF			
Field Support						
		NTP Server Address 1				
		NTP Server Address 2				
		NTP Server Address 3				
	ти	TP Server				
		Valid	OFF			
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Figure 2-20 Time Settings > General

In the screen for Time Settings > General, the following operations can be executed:

Table 2-26 Time Settings > General

Function 1	Function 2	Description
"Save" button	-	The configurations related to the time are written to the repeater.
Time Zone	Time Zone	The difference to UTC is configured.
Settings		
		Time Zone is the function to configure the time difference between UTC
		and local time.
		The available range of configuration in Time Zone is from -12 hours to
		+13 hours for the difference to UTC.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
	Daylight Saving Time	Daylight Saving Time is the function to configure whether Daylight
		Saving Time (summer time) is used.
		"OFF"
		Daylight Saving Time is not configured.
		"ON"
		Daylight Saving Time is configured.
		Configure the start date and time and the end date and time of Daylight
		Saving Time in Start Date/ Start Time/ End Date/ End Time.
Time Zone	Start Date/ Start Time	Start Date and Start Time are the functions to configure the start date
Settings		and time of Daylight Saving Time.
		If Daylight Saving Time is enabled, the start date and time of Daylight
		Saving Time can be configured. Daylight Saving Time starts on the
		specified date and time.
		"Start Date"
		The start month and day of Daylight Saving Time is configured.
		Clicking the month and day in Start Date displays the calendar, and the
		start month and day can be selected.
		"Start Time"
		The start time of Daylight Saving Time is configured.
	End Date/ End Time	End Date and End Time are the functions to configure the end date and
		time of Daylight Saving Time.
		If Daylight Saving Time is enabled, the end date and time of Daylight
		Saving Time can be configured. Daylight Saving Time ends on the
		specified date and time.
		"End Date"
		The end month and day of Daylight Saving Time is configured.
		Clicking the month and day in End Date displays the calendar, and the
		end month and day can be selected.
		"End Time"
		The end time of Daylight Saving Time is configured.
NTP Client	Valid	Whether to use an NTP server can be configured.
		By using an NTP server, the time is acquired from the NTP server and
		the time can be automatically matched.
		"OFF"
		An NTP server cannot be used.
		"ON"
		The time in the repeater is automatically updated by acquiring the time
		from an NTP server. Configure an NTP server in NTP Server Address.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
	NTP Server Address	NTP Server Address is the function to configure the address (the IP
		address or name) of an NTP server.
		If Synchronize NTP Server is enabled, the addresses (the IP addresses
		or names) of a maximum 3 NTP servers can be configured.
NTP Server	Valid	Whether to behave as an NTP server can be configured.
		"OFF"
		Does not behave as an NTP server.
		"ON"
		Behaves as an NTP server.

KENWOOD	Edit 👻 Mai	ntenance • Administration •	ام 🕲 🕂	، چ
User Information		Maintenance > System > Time Settings > Time Adjustment		
IE Protocol : DMR		Manual		
		Date 10/01/2019		
Log		Time 12:14:30 am		
Monitor				
Remote Control		Set		
System				
Firmware Update		NTP		
Backup & Restore				
Clear				
Time Settings				
General				
Time Adjustment				
IP Configuration				
Hot Standby				
Security				
Setting				
Field Support	~			
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In the screen for Time Settings > Time Adjustment, the following operations can be executed:

Function	Function 2	Description
1 Manual	Data	Date is the function to monually configure the surrent date
Manual	Dale	
		Clicking the year, month, and day in Date displays the calendar, and the current
		date can be selected. The manually configured date is configured to the repeater by
		clicking the "Set" button.
	Time	Time is the function to manually configure the current time.
		The manually configured time is configured to the repeater by clicking the "Set"
		button.
	"Set" button	The manually configured date and time is configured to the repeater.
		Clicking the "Set" button configures to the repeater the date and time configured in
		Date/ Time.
		The "Set" button is enabled if NTP Client is disabled.
NTP	"Synchronize"	The time in the repeater is automatically updated by acquiring the time from the
	button	configured NTP server.
		Clicking the "Synchronize" button acquires the time from the NTP server, and the
		time in the repeater is updated.
		The "Synchronize" button is enabled if NTP Client is enabled.

Table 2-27 Time Settings > Time Adjustment

IP Configuration

IP Configuration has the following two functions:

- · Own IP Setting
- · QoS

About Own IP Setting

In Own IP Setting, the IP address of the repeater can be confirmed and changed.

In **Own IP Setting**, changing the configuration of the IP address of the repeater switches the IP address.

Changing the IP address restarts the repeater. Also, by changing the IP address, the Web Tool login screen appears so as to reconnect to the changed IP address.

In addition, the **QoS** configuration can be done for the packets to be sent by the repeater. If DSCP is enabled in **QoS**, the repeater restarts.

KENWOOD	Edit - Maintenance - Administration - 😔 🕜 🏠 🌐 - 🖙			-	
User Information		Maintenance > System > IP Configuration > Ov	vn IP Setting		
i≡ Protocol : DMR		Current Host IP Address			
		IP Address			
Log		Subnet Mask			
Monitor		Default Gateway			
Remote Control		belaux outenay			
System		Primary DNS Server			
Firmware Update		Secondary DNS Server			
Backup & Restore		,			
Time Settings					
		New Configuration			
Own IP Setting		IP Address			
QoS		6 de autor			
Hot Standby		Subnet Mask			
Security		Default Gateway			
Setting		Primany DNS Server			
Field Support		Fillinary Divis Server			
		Secondary DNS Server			
		Save			
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Figure 2-22 IP Configuration > Own IP Setting

In the Own IP Setting screen, the following operations can be executed:

Table 2-28 Own IP Setting

Function 1	Function 2	Description
Current Host IP Address	IP Address	IP Address is the function to confirm the IP address currently
		configured for the repeater. The IP address configured for the
		repeater is displayed.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
	Subnet Mask	Subnet Mask is the function to confirm the subnet mask
		currently configured for the repeater. The subnet mask
		currently configured for the repeater is displayed.
	Default Gateway	Default Gateway is the function to confirm the default gateway
		currently configured for the repeater. The default gateway
		configured for the repeater is displayed.
	Primary DNS Server	Primary DNS Server is the function to confirm the primary DNS
		server currently configured for the repeater. The primary DNS
		server currently configured for the repeater is displayed.
	Secondary DNS	Secondary DNS Server is the function to confirm the
	Server	secondary DNS server currently configured for the repeater.
		The secondary DNS server currently configured for the
		repeater is displayed.
New Configuration	IP Address	IP Address is the function that can configure the IP address to
		be configured for the repeater. The IP address to be configured
		for the repeater is entered.
		When an IP address is configured, also configure Subnet Mask
		and Default Gateway.
	Subnet Mask	Subnet Mask is the function that can configure the subnet
		mask to be configured for the repeater. The subnet mask to be
		configured for the repeater is entered.
	Default Gateway	Default Gateway is the function that can configure the default
		gateway to be configured for the repeater.
		The default gateway to be configured for the repeater is
		entered.
		Drimon DNC Conversion that function that can configure the
	Phinary DNS Server	primary DNS server is the function that can configure the
		primary DNS server to be configured for the repeater. The
		entered
	Secondary DNS	Secondary DNS Server is the function that can configure the
		secondary DNS server to be configured for the repeater
		The Secondary DNS server to be configured for the repeater is
		entered.
	"Save" button	Clicking the "Save" button changes the IP address of the
	Jane Maton	repeater.

About QoS

QoS is the function to control the IP packet priority.

By configuring a DSCP value for the packets to be sent by the repeater, the packets including the packets to be sent by the repeater can be prioritized for a switch or router in the network.

KENWOOD Edit	t 👻 Mai	intenance 🔹 Administration 🝷		Ð	?	Â	۲	- 🕩
User Information ▲ Login User Name : admin ≔ Protocol : DMR		Maintenance > System > IP Configuration > QoS						
		DSCP						
		Valid	OFF					
Log								
Monitor		Packet Type						
Remote Control								
System		Packet Type	DSCP					
Firmware Update		Intersite Voice Packet	EF *					
Backup & Restore		Intersite Data Packet						
Clear			AF31					
Time Settings		Console Voice Packet	EF Ť					
IP Configuration		Console Data Packet						
Own IP Setting			AF31					
QoS		SIP Phone Packet	EF *					
Hot Standby		VIII Packat						
Security		VLI FACKEL	LEF Č					
Setting		ICMP Packet	AF31 *					
Field Support								
		Save						
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Figure 2-23 IP Configuration > QoS

In the QoS screen, the following operations can be executed:

Table 2-29 QoS

Function 1	Function 2	Description
DSCP	Valid	Valid is the function to configure whether to use the DSCP function.
		 "OFF" If "OFF" is configured in Valid, the DSCP function is disabled. "ON" If "ON" is configured in Valid, the DSCP function is enabled and the repeater restarts.
Packet Type	Intersite Voice Packet	Configures a DSCP value for packets of voice communication between
		sites. One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: EF

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
	Intersite Data Packet	Configures a DSCP value for packets of data communication between
		sites. One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: AF31
	Console Voice Packet	Configures a DSCP value for packets of voice communication
		addressed to a Console.
		One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: EF
	Console Data Packet	Configures a DSCP value for packets of data communication
		addressed to a Console.
		One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: AF31
	SIP Phone Packet	Configures a DSCP value for packets of voice communication
		addressed to a SIP Phone.
		One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: EF
	VLI Packet	Configures a DSCP value for packets of voice communication
		addressed to a Voice Logger.
		One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: EF
	ICMP Packet	Configures a DSCP value for ICMP packets.
		One of CS0 to CS7, AF11 to AF43, and EF is selected.
		Default configuration: AF31
	"Save" button	Clicking the "Save" button changes the QoS of the repeater.

PHB (Per Hop Behavior)		DSCP Value	DSCP Value
		(Binary Number)	(Decimal Number)
CS (Class Selector)	CS0	000 000	0
	CS1	001 000	8
	CS2	010 000	16
	CS3	011 000	24
	CS4	100 000	32
	CS5	101 000	40
	CS6	110 000	48
	CS7	111 000	56
AF (Assured Forwarding)	AF11	001 010	10
	AF12	001 100	12
	AF13	001 110	14
	AF21	010 010	18
	AF22	010 100	20
	AF23	010 110	22
	AF31	011 010	26
	AF32	011 100	28
	AF33	011 110	30
	AF41	100 010	34
	AF42	100 100	36
	AF43	100 110	38
EF (Expedited Forwarding)		101 110	46

Table 2-30 DSCP

Table 2-31 PHB

Each Item of PHB	Description
CS (Class Selector)	Regarding CS, the backward compatibility to IP Precedence is the meaning. For
	example, CS5 where the DSCP value is 40 has the same meaning as IP
	Precedence 5.
AF (Assured Forwarding)	Regarding AF, the class for assured forwarding is indicated. This item consists of 4
	levels of priority (first 3 bits: 001, 010, 011, 100), and the highest priority is 100.
EF (Expedited Forwarding)	Regarding EF, the class for emergency forwarding is indicated. EF where the
	DSCP value is 46 is normally assigned to the voice traffic to be processed with the
	highest priority.
Hot Standby

In **Hot Standby**, the configuration related to the Hot Standby function can be configured to be enabled or disabled, and the Virtual IP Address of the repeater can be confirmed and changed.

If Hot Standby is enabled, the specified Virtual IP Address is enabled.

Virtual IP Address is enabled for the services of the communications between sites, the Console, the VLI, and the SIP Phone, and cannot be used for the FPU and Web Tool (refer to Configuration by Using the Web Tool). Changing the Virtual IP Address restarts the repeater.

If Hot Standby is disabled, the values configured in IP Configuration are also enabled for the above services.

KENWOOD	Edit 👻 Mai	intenance - Administration -		6 (?	^ ()	* 🗈
User Information Login User Name : admin E Protocol : DMR		Maintenance > System > Hot Standby				
		Hot Standby				
		Valid	OFF			
Log		Mode	Main			
Monitor		Monitoring IP Address				
Remote Control						
System		Failsoft Mode				
Firmware Update						
Backup & Restore		Failsoft Mode Wait Timer [s]	5			
Clear						
Time Settings						
IP Configuration		Auto Active Status Switch				
Hot Standby		Valid	OFF			
Security				11.488		
Setting		Switch Time	1	: 00		
Field Support		Interval [day]	OFF 📜			
		Virtual IP Address				
		IP Address				
		Subnet Mask				
		Default Gateway				
		Save				
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Figure 2-24 Hot Standby

The following operations can be executed in the Hot Standby screen:

	Table 2-32 Hot Standby			
Function 1	Function 2	Description		
Hot Standby	Valid	Whether to use the Hot Standby function can be configured.		
		"OFF"		
		The Hot Standby function is disabled.		
		"ON"		
		The Hot Standby function is enabled.		
	Mode	The assignment of a Main or Sub role in the Hot Standby		
		function is configured.		
		"Main"		
		Behaves as the Main Repeater.		
		"Sub"		
		Behaves as the Sub Repeater.		
	Monitoring IP Address	An IP Address of the Sub Repeater is configured for the Main		
		Repeater, and an IP Address of the Main Repeater is		
		configured for the Sub Repeater.		
		In the Hot Standby function, the Main Repeater and Sub		
		Repeater determine the synchronization status by confirming		
		communication with each other by using the IP Address		
		configured in Monitoring IP Address.		
Failsoft Mode	Failsoft Mode Wait Timer	To use this function, the same value needs to be configured for		
		the Main Repeater and Sub Repeater.		
		If communication with the repeater for which Monitoring IP		
		Address is configured cannot be confirmed before the		
		configured period has elapsed, a repeater which is different		
		from the unresponsive repeater starts to migrate to Failsoft		
		Mode. By configuring a longer value for this timer, the repeater		
		status is not changed such as due to instantaneous		
		interruption of network devices, such as the Switch, and		
		downtime during status transitions can be avoided.		
Auto Active Status	Valid	In Valid, whether to use the Auto Active Status Switch		
Switch		function is configured.		
		"OFF"		
		The Auto Active Status Switch function is disabled.		
		"ON"		
		The Auto Active Status Switch function is enabled.		

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / System

Function 1	Function 2	Description
		Auto Active Status Switch can be configured only for the Main
		Repeater in the active state.
	Switch Time	In Switch Time, the automatic switch time of the Main
		Repeater in the active state is configured.
	Interval	In Interval, the interval (in days) based on Switch Time is
		configured for the automatic switch of the Main Repeater in the
		active state.
Virtual IP Address	IP Address	IP Address is the function that can configure the Virtual IP
		Address to be configured for the repeater.
		In IP Address, the Virtual IP Address to be configured or
		changed for the repeater is entered. If the Virtual IP Address is
		already configured, the value configured as the Virtual IP
		Address is displayed in IP Address.
		In IP Address, the value configured in IP Address of IP
		Configuration cannot be configured.
	Subnet Mask	Subnet Mask is the function to confirm the subnet mask
		currently configured for the repeater.
		In Subnet Mask, the subnet mask currently configured for the
		repeater is displayed.
	Default Gateway	Default Gateway is the function to confirm the default gateway
		currently configured for the repeater.
		In Default Gateway, the default gateway currently configured
		for the repeater is displayed.
	"Save" button	Clicking the "Save" button saves the changes of various
		configurations.

Note

• The Virtual IP Address configured in Main Repeater and Sub Repeater needs to be the same to use the Hot Standby function.

Security

In **Security**, the authentication related to security, etc. can be configured.

- HTTP over SSL
- Multi Loader

HTTP over SSL

KENWOOD	Edit 👻 Ma	intenance • Administration •	😔 🕐 🏠	-
User Information		Maintenance > System > Security > HTTP over SSL		
		Self-Signed Certificate		
		Generate		
Log				
Monitor				
Remote Control		Private Key [.pem / .key]		
System				
Firmware Update		Server Certificate [.pem / .crt] Brow		
Backup & Restore				
Clear		Intermediate Certificate [.pem / .crt]		
Time Settings				
IP Configuration				
Hot Standby				
Security	^	Apply CA Certificate		
HTTP over SSL		Valid		
Multi Loader				
Setting				
Field Support				
		нттр		
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Figure 2-25 Security > HTTP over SSL

In **HTTP over SSL**, the issuance of self-signed certificates to enable HTTPS communication and appliance of certificates issued by trusted certificate authorities are enabled. After HTTPS communication is enabled, HTTP communication can be disabled to improve security.

After applying the self-signed certificate, when the HTTPS connection occurs, the private key and server certificate issued by the external certificate authority are applied.

If the change from HTTPS communication to HTTP communication is required after HTTPS connection occurs, HTTP communication can be restored.

In the HTTP over SSL screen, the following operations can be executed:

Table 2-33 HTTP over SSL			
Function 1	Function 2	Description	
Self-Signed Certificate	"Generate" button	Clicking the "Generate" button issues and applies a self-signed certificate at the date and time configured for the repeater.	
		HTTPS communication with browsers is enabled by issuing the server certificate (self-signed certificate) on the repeater itself. However, because the certificate is not a trusted certificate, ignoring a browser warning and continuing communication are needed.	
		Even if the certificate expires after application, HTTPS communication itself can be accessed because it is authenticated by a self-signed certificate. Clicking the "Generate" button issues and applies a self-signed certificate at the date and time configured for the repeater.	
CA Certificate Install	Private Key	Private Key is the function to select the private key which is generated when CSR is issued. However, a passphrase to a private key is not supported.	
		The server certificate to be installed separately can be matched by using the private key used by the external certificate authority to issue the server certificate. Clicking the "Browse" button displays the file name of the selected private key.	
		CA Certificate Install is deactivated and is not displayed during access to HTTP.	
	Server Certificate	Server Certificate is the function that can select the server certificate issued by the external certificate authority. Clicking the "Browse" button displays the file name of the selected server certificate. The repeater can install the server certificate issued by the external certificate authority.	
	Intermediate Certificate	Intermediate Certificate is the function that can select the intermediate CA certificate issued by the external certificate authority. Clicking the "Browse" button displays the file name of the selected intermediate CA certificate.	

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Depending on the certificate authority that issues the server

certificate, in addition to the pair of the private key and the server

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Security

Function 1	Function 2	Description
		certificate, the intermediate CA certificate that indicates that the certificate authority is trusted may be required. If the intermediate CA certificate is issued together with the server certificate by the certificate authority, installation on the repeater is required.
	"Update" button	Clicking the "Update" button installs the files such as the certificates selected by the "Browse" button to the repeater.
		Selecting the Private Key and Server Certificate activates the "Update" button.
Apply CA Certificate	Valid	Apply CA Certificate is the function to enable the SSL certificate
		by the file such as the certificate updated by CA Certificate Install.
		The content of the certificate can be confirmed in SSL Certificate.
		Valid applies to the repeater an externally issued certificate that is registered in CA Certificate Install.
		The CA Certificate function is disabled
		"ON"
		The CA Certificate function is enabled.
НТТР	Valid	In HTTP, whether to disable HTTP communication is selected.
		In Valid , whether to use HTTP communication can be configured. "OFF"
		HTTP communication is disabled.
		"ON"
		HTTP communication is enabled.
		HTTP communication cannot be disabled unless at least a self-
		signed certificate is applied.
	"Save" button	Clicking the "Save" button applies the configurations in Apply CA
		Certificate and in HTTP to the repeater.

Multi Loader

Multi Loader is the application for writing the firmware to the repeater via an IP network. The **Multi Loader** runs on Windows.

By using the Multi Loader, writing the firmware to multiple repeaters can be performed collectively.

Multi Loader is registered in the MultiLoader folder when a file for KPG-D7 version 2.00 or later is decompressed. Refer to the Function Reference for details of the Multi Loader.

In Multi Loader, the functions of the New Access Key/ New Access Key (Confirm) and the "Save" button can be used.

KENWOOD	Edit 👻 Mair	ntenance 👻 Administration 👻		ⓒ 🕜 🏠	-
User Information		Maintenance > System > Security > Multi Load	er		
i≡ Protocol : DMR		Multi Loader			
		New Access Key			
Log		New Access Key (Confirm)			
Monitor					
Remote Control		Save			
System					
Firmware Update					
Backup & Restore					
Clear					
Time Settings					
IP Configuration					
Hot Standby					
Security					
HTTP over SSL					
Multi Loader					
Setting	~				
Field Support	~				
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Figure 2-26 Security > Multi Loader

Table 2-34 Multi Loader

Function Name	Description
New Access Key	New Access Key is the function that can configure a new access key for
	authentication which is used when firmware update is performed on the repeater by
	using the Multi Loader.
	Enter a new access key in New Access Key .
New Access Key (Confirm)	In New Access Key (Confirm) , whether the new access key is correct is verified by
	reentering the new access key.
	Reenter the new access key in New Access Key (Confirm) .

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Security

Function Name	Description
"Save" button	By clicking the "Save" button, the access key entered in New Access Key can be
	saved on the repeater.
	If the access key is left blank, the access key cannot be saved even if the "Save"
	button is clicked.

Note

• Access Key can be configured only with the HTTPS connection.

Setting

The functions of the following items can be used in **Setting**:

- Formats
- Timer

Formats

Formats is the function to switch the formats of the year, month, and day, time, and decimal point displayed in the Web Tool. Each display switches to the formats configured in **Formats**.

KENWOOD	Edit 👻 Mai	intenance 👻 Administration 👻	G 🕐 🖓	-
User Information		Maintenance > Setting > Formats		
III Protocol : DMK		Date		
Log		VYYY/MM/DD		
Monitor				
Remote Control		Time		
System				
Setting	^	h : mm : ss tt		
Formats		H:mm:ss		
Timer		- THT - 11011 - 33		
rield Support		Temperature		
		 € Celsius ➡ Fahrenheit 		
		Color		
		 Dark Light 		
		Save Cancel		
Copyright (C) 2022 JVCKENWOO	OD Corporatio	on		

Figure 2-27 Setting > Formats

In the Formats screen, the following functions can be operated:

Table 2-35 Formats

Function	Description
Date	Date is the function that can select the format of the year, month, and day displayed in the Web
	Tool.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Setting

Function	Description
	The year, month, and day is displayed in the configured display format from among the
	following:
	· MM/DD/YYYY
	· DD/MM/YYYY
	· YYYY/MM/DD
	Each character in the display format indicates the following:
	• YYYY: year
	MM: month
	• DD: day
Time	Time is the function that can select the format of the time displayed in the Web Tool.
	The time is displayed in the configured display format from among the following:
	h:mm:ss tt
	hh:mm:ss tt
	• H:mm:ss
	• HH:mm:ss
	Each character in the display format indicates the following:
	• H: hour (24-hour clock)
	HH: 0-padded 2-digit hour (24-hour clock)
	h: hour (12-hour clock)
	hh: 0-padded 2-digit hour (12-hour clock)
	mm: minute
	• ss: second
	• tt: am or pm
Temperature	Temperature is the function that can select the format of the temperature displayed in the Web
	Tool.
	The temperature is displayed in the configured display format from among the following:
	· Celsius
	• Fahrenheit
	Each character in the display format indicates the following:
	· Celsius: ℃
	・ Fahrenheit: 『
Color	Color is the function that can select the color tone displayed in the Web Tool.
	The color tone is selected from among the following:
	• Dark
	• Light
	The selected color tone is as follows:
	Dark: Displays the Web Tool screen in a dark tone.
	Light: Displays the Web Tool screen in a bright tone.
"Save" button	Clicking the "Save" button changes the display formats of year, month, and day, time, and
	decimal point.

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.3 Maintenance Functions (Maintenance) / Setting

Function	Description
"Cancel" button	Clicking the "Cancel" button cancels the changes of the display formats of year, month, and
	day, time, and decimal point.

Timer

Timer is the function to configure the logout time of when the Web Tool is not operated. When the Web Tool is not operated, the Web Tool is logged out after the time configured in **Timer** has elapsed.

KENWOOD	Edit - Ma	intenance - Administration -	😔 🕐 🏠	ح
User Information		Maintenance > Setting > Timer		
- Flotto , Dink	Auto Logout			
		Operation Timeout Timer [min] 10		
Log				
Monitor		Save Cancel		
Remote Control				
System				
Setting				
Formats				
Timer				
Field Support				
Copyright (C) 2022 JVCKENWC	DOD Corporati	n		

Figure 2-28 Setting > Timer

In the **Timer** screen, the following functions can be operated:

Table 2-36 Timer

Function	Description
Operation Timeout Timer	The logout time used by the Web Tool is configured.
	If no operation is performed during the specified time, the Web Tool is logged out
	automatically.
	"Off" and between 1 min to 10 min in steps of 1 min can be configured.
	Operation Timeout Timer is disabled on the monitor screen.
"Save" button	Clicking the "Save" button changes the value in Timer.
"Cancel" button	Clicking the "Cancel" button cancels the change of the value in Timer.

Field Support

Field Support is the function to acquire the various information intended for problem analysis in the event of failure. The acquired information is used by the designers. A user can acquire (Download) the information by Field Support; however, a user cannot confirm the contents.

Field Support includes Packet Capture, Core Dump, and Syslog. Various information is accumulated as a file. Field Support stores a file in a dedicated area (Field Support area).

The latest 10 files in Core Dump are retained. If the number of files exceeds 10, the old file is deleted.

Packet Capture

Packet Capture is the function to capture the packets transmitted and received by the repeater.

This function is intended for problem analysis in the event of a failure, and the acquired information is used by the designer.

A user can acquire the captured packets; however, a user cannot confirm the contents.

If **Packet Capture** is enabled, the repeater saves packet communication with the external devices and packet communication internal to the repeater in a file.

KENWOOD	Edit 👻 Ma	ntenance 🔹 Administration 🝷		😔 😨 🏠	
User Information		Maintenance > Field Support > Packet Capture			
= FIOLOCOF . DMR		Packet Capture			
		Packet Capture	OFF		
Log		Save			
Monitor					
Remote Control		Download			
System		Start Date	09/30/2019		
Setting		Start Date			
Field Support	^	Start Time	23 🏮 : (00	
Packet Capture		End Date	10/01/2010		
Syslog			10/01/2019		
lest Console		End Time	0 🗘 : 0	00	
		Download			
Copyright (C) 2022 JVCKENWOC	DD Corporatio	n			

Figure 2-29 Field Support > Packet Capture

In the **Packet Capture** screen, the following operations can be executed:

Function	Description					
Packet Capture	Packet Capture is the function to configure whether to record the content of					
	packet communication.					
	"OFF"					
	The repeater does not record packet communication.					
	"ON"					
	The repeater saves packet communication with the external devices and packet					
	communication internal to the repeater in a file. Packet capture continues even if					
	e repeater is restarted or rebooted.					
Start Date	In Start Date , the start date for acquiring the captured packets is configured.					
Start Time	In Start Time, the start time for acquiring the captured packets is configured.					
End Date	In End Date, the end date for acquiring the captured packets is configured.					
End Time	In End Time , the end time for acquiring the captured packets is configured.					
"Download" button	Clicking the "Download" button enables acquiring the captured packets during the					
	period specified by Start Date/ Start Time/ End Date/ End Time.					
	The acquired file is saved in a PC.					
	The progress status is displayed while the packets are being acquired. Acquiring					
	the packets can be canceled by clicking the "Cancel" button.					

Table 2-37 Packet Capture

Note

- The display formats of Start Date/ Start Time and End Date/ End Time are the same as the display formats of Date and Time in Table 2-35 Formats.
- If the same date and time is specified in Start Date/ Start Time and End Date/ End Time, the "Download" button cannot be executed.
- If a date and time that is later than End Date/ End Time is specified in Start Date/ Start Time, the "Download" button cannot be executed.
- If Start Date/ Start Time or End Date/ End Time is not entered, the "Download" button cannot be executed.

Core Dump

Core Dump is the function to output a core file when a process terminates abnormally.

This function is intended for problem analysis in the event of a failure, and the acquired information is used by the designer.

A user can acquire a core file; however, a user cannot confirm the contents.

Core Dump is always enabled. The configuration is not in the Web Tool, and the Web Tool cannot disable Core Dump. The generated core file can be acquired by the "Download" button of Diagnostic Data. Clicking the "Download" button acquires all the core files that exist at that time (a maximum of 10 files).

Syslog

Syslog is the function to output a log message for the debugging from the process of the repeater. This function is intended for problem analysis in the event of a failure, and the acquired information is used by the designer.

A user can acquire a log message; however, a user cannot confirm the contents.

If **Syslog** is enabled, the corresponding process of the repeater outputs a log message to a file. The output log message file can be acquired by the "Download" button of Diagnostic Data. The log message file of within the period configured in Start Date/ End Date of Diagnostic Data can be acquired.

KENWOOD E	dit 👻 Main	tenance	- Administratio	n -		• ?	ń	• @	☞
User Information		Maintena	ance > Field Supp	port > Syslog					
III PROCOCI : DMK		Syslog]						
		1	Check						
Log									
Monitor		Ne	I an Tree	Shaha	0-ti				
Remote Control		NO.	Log lype	State	Option				
System									
Setting									
Field Support									
Packet Capture									
Syslog									
Test Console									
Copyright (C) 2022 JVCKENWOOD	Corporation	n							

Figure 2-30 Field Support > Syslog

In the **Syslog** screen, the following operations can be executed:

Function	Description
"Check" button	The "Check" button is the function to confirm the current status of Syslog .
	Clicking the "Check" button displays the current status of the Syslog function for each log type.
Log Type	Log Type indicates the type of message that is output by the Syslog function.
	The repeater enables or disables log output for each Log Type.
	Clicking the "Check" button displays the type of the log message.
State	State indicates the enabled or disabled state of the log message output.
	"OFF"
	The repeater does not output the log message.
	The repeater outputs the log message for the corresponding Log Type.
	A log message continues to be output even if the repeater is restarted or repooted.
	Clicking the "Check" butten diaplays the output status of the lag message for each Log Type
	After clicking the "Check" button the "ON"/"OFE" of State can be changed
	Changing the "ON"/"OEE" of State is reflected in the repeater by clicking the "Change" button
Ontion	Ontion is an option for the log message output. It is used to adjust the amount of message
Option	option is an option for the log message output. It is used to adjust the amount of message
	ouput and to further categorize the output than Log Type when a log message is output.
	If the Syslog function is enabled, the repeater outputs a log message according to the
	configuration in Option .
	Clicking the "Check" button displays the option of the corresponding Log Type.
	Option can only be configured when State is "ON".
"Change" button	The "Change" button is the function to enable or disable the Syslog function.
	By clicking the "Change" button, the repeater changes the Syslog function to be enabled or
	disabled. Clicking the "Change" button reflects "ON"/"OFF" of State and the changes in
	Option.

Table 2-38 Syslog

Note

• Enabling the **Syslog** function may cause the repeater to behave slowly. If this is not useful, reduce the output of log messages or disable the **Syslog** function.

Test Console

Test Console is the software used by a field engineer to conduct test voice communications.

This repeater supports the test console download function in the Web Tool.

Click the "Download" button to download the test console. Refer to the Function Reference for details.

KENWOOD	Edit 🝷 Ma	intenance 🔹 Administration 👻		아 🕐 🏠	-
User Information		Maintenance > Field Support > Test Console			
:= Protocol : DMR		Test Console			
			Download		
Log					
Monitor					
Remote Control					
System					
Setting					
Field Support					
Packet Capture					
Syslog					
Test Console					
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Figure 2-31 Test Console

2.4 User Management Function (Administration)

User List

In User List, a user who configures and operates the repeater on the Web Tool is displayed on a list.

Also, a user can be added, edited, and deleted.

A user registered in User List can configure and monitor the repeater, and execute Remote Control for the repeater in the Web Tool.

In User List, a user with "admin" configured as User Name is initially registered. This user is called admin.

KENWOOD Edit - M	laintenance	- Administration -		G () 🏠	Ø	- 🕩
User Information	Admin	stration > Administrators					
	User	List					
	Add		Search				
Administrators ^	Page 1	out of 1 pages is displayed. Total number of records is 1.					
Administrators	No.	User Name					
		admin		Password Ed			
Copyright (C) 2022 JVCKENWOOD Corpor	ition						

Figure 2-32 Administrators > User List

In the User List screen, the following operations can be executed:

Table 2-39 User List	Table	2-39	User	List
----------------------	-------	------	------	------

Function	Description
No.	The number for the user is displayed.
User Name	The name of the user is displayed.
"Add" button	Admin can add a user.
"Search" button	A user using the repeater can search by entering a User Name, etc. Clicking the
	"Search" button shows the result of the text string entered as the search target.
"Page Access Bar" key	This is the key for easily moving to another page of a configuration list spanning
	multiple pages.
"Password" button	Admin can change the login password for all users. A user other than admin can
	only change the own login password.
"Edit" button	Admin can edit the user information of all users. A user other than admin can
	only change the own user information.
"Delete" button	Admin can delete the user information.
	However, admin themselves cannot be deleted.

User

User is the function to register detailed user information. Click the "Add" button in the User List screen to register detailed user information.

KENWOOD	Edit 👻 Mai	intenance 🔹 Administration 🔹	¢) 🕐	ñ		•
User Information		Administration > Administrators > User (Add)					
III Protocol : DMR		User Information					
		User Name)	
Administrators		Password					
Administrators	_	Password (Confirm)					
		First Name]	
		Last Name				ļ	
		Company Name				Ì	
		Department Name]	
		Primary Phone					
		Secondary Phone					
		Email Address					
		Street Address					
		Save Back					
Copyright (C) 2022 JVCKENWOOD	D Corporatio	n					

Figure 2-33 User (Add)

In the **User** screen, the following operations can be executed:

Table 2-40 User (Add)

Function	Description	
User Name	Configured by entering the name of a user who configures and operates the repeater.	
	However, the same user name cannot be redundantly configured.	
Password	In Password, the password of the user is entered.	
	A password is configured when a user is added. If the password is left blank, the	
	password cannot be saved.	
	The entered password is marked with asterisks (*) and masked to make it	
	unreadable.	
Password (Confirm)	In Password (Confirm), whether the new password is correct is verified by	
	reentering the new password of the user.	
	The entered password is marked with asterisks (*) and masked to make it	
	unreadable.	
First Name	Configured by entering the first name of a user who configures and operates the	
	repeater.	

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.4 User Management Function (Administration) / User List

Function	Description
Last Name	Configured by entering the last name of a user who configures and operates the
	repeater.
Company Name	Configured by entering the company name of a user who configures and operates
	the repeater.
Department Name	Configured by entering the name of the department to which a user who configures
	and operates the repeater belongs.
Primary Phone	Configured by entering the primary phone number of a user who configures and
	operates the repeater.
Secondary Phone	Configured by entering the secondary phone number of a user who configures and
	operates the repeater.
Email Address	Configured by entering the email address of a user who configures and operates the
	repeater.
Street Address	Configured by entering the street address of a user who configures and operates the
	repeater.
	The field can also be used for remarks.

KENWOOD Ed	dit - Ma	intenance 👻 Administration 👻		😔 🕐 🏠	• ک
User Information ▲ Login User Name : admin I≡ Protocol : DNR ▲ Created By : admin ■ Created On : 1001/2019 1:10.40 am ▲ Last Modified By : admin		Administration > Administrators > Toshiaki:Use	r (Edit)		
		User Information			
Last Modified On : 10/01/2019 1:10/40 am		User Name			
Administrators		First Name]
Administrators		l act Name			ے ۲
User (Edit)					
		Company Name			
		Department Name			
		Primary Phone			
		Secondary Phone			
		Email Address			
		Street Address			
		Save Cancel Back			
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Figure 2-34 User (Edit)

User is the function to register detailed user information. Click the "Edit" button in the User List screen to register detailed user information.

Table 2-41	User (Edit)
------------	-------------

Function	Description	
User Name	Configured by entering the name of a user who configures and operates the repeater.	
	However, the same user name cannot be redundantly configured.	
First Name	Configured by entering the first name of a user who configures and operates the	
	repeater.	
Last Name	Configured by entering the last name of a user who configures and operates the	
	repeater.	
Company Name	Configured by entering the company name of a user who configures and operates	
	the repeater.	
Department Name	Configured by entering the name of the department to which a user who configures	
	and operates the repeater belongs.	
Primary Phone	Configured by entering the primary phone number of a user who configures and	
	operates the repeater.	
Secondary Phone	Configured by entering the secondary phone number of a user who configures and	
	operates the repeater.	
Email Address	Configured by entering the email address of a user who configures and operates the	
	repeater.	

2 DESCRIPTIONS OF CONFIGURATION ITEMS / 2.4 User Management Function (Administration) / User List

Function	Description
Street Address	Configured by entering the street address of a user who configures and operates the
	repeater.
	The field can also be used for remarks.

User Password

User Password is the function to change the password for a user using the Web Tool. Click the "Password" button in the User List screen to change the password for a user.

Only the logged-in user can change the password.

In addition, admin can change the password for all users.

KENWOOD Edit ~ M	laintenance - Administration -		🏫 😨 🕂	-
User Information	Administration > Administrators > admin:User	Password		
I Protocol : DMR ▲ Last Modified By : admin Last Modified On : 09/28/2019 9:42:30 pm	User Password			
	Current Password			
Administrators ^	New Password			
Administrators	New Password (Confirm)			
User Password				
	Save Back			
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Figure 2-35 User Password

In the User Password screen, the following operations can be executed:

Table 2-42 User Password

Function	Description	
Current Password	In Current Password, the current password of the user is entered.	
	The entered password is marked with asterisks (*) and masked to make it	
	unreadable.	
New Password	In New Password, the new password of the user is entered.	
	If the password is left blank, the password cannot be saved.	
	The entered password is marked with asterisks (*) and masked to make it	
	unreadable.	
New Password (Confirm)	In New Password (Confirm), whether the new password is correct is verified	
	by reentering the new password of the user.	
	The entered password is marked with asterisks (*) and masked to make it	
	unreadable.	
"Save" button	Clicking the "Save" button changes the password to the entered password.	
"Back" button	Clicking the "Back" button migrates to the User List screen.	

3 DESCRIPTIONS OF FUNCTIONS (WEB TOOL)

3.1 Remote Configuration

The repeater supports the Remote Configuration function via the Web. In Remote Configuration, the repeater is configured remotely. The supported ranges are as follows:

Function	Remark	
IP Configuration	An IP address can be changed on the logged-in repeater.	
User List	A GID, UID, GID Range, and UID Range which are allowed to be used can be	
	configured.	
Console List	A console ID which is allowed to be used can be configured.	
Hot Standby	The configuration related to the Hot Standby function and the configuration for	
	Virtual IP Address can be done.	
Security	The configuration related to HTTPS communication can be done, and HTTP	
	communication can be disabled.	
Time Setting	Configuration by NTP or manual operation can be done.	

Table 3-1 Remote Configuration

3.2 Remote Control

The repeater supports the Remote Control function via the Web. In Remote Control, the repeater is configured remotely. The supported ranges are as follows:

Function	Remark	
Channel Select	Enter the desired channel number and click the confirm button.	
Slot Select	Enter the desired slot number and click the confirm button.	
CW ID	Clicking the button sends the CW ID.	
	Refer to CW ID in the Function Reference for details of the function.	
Decode Signaling Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Decode Signaling Disable in the Function Reference for details of the function.	
Encode Signaling Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Encode Signaling Disable in the Function Reference for details of the function.	
Call Hangtime Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Call Hangtime in the Function Reference for details of the function.	
Channel Hangtime Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Channel Hangtime (Mixed Channel) and Channel Hangtime (DMR Channel) in	
	the Function Reference for details of the function.	
Hold Time Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Repeater Hold Time in the Function Reference for details of the function.	
Local TX Enable/Disable	The toggle behavior occurs by clicking the button.	
	Refer to Local TX Disable in the Function Reference for details of the function.	

3 DESCRIPTIONS OF FUNCTIONS (WEB TOOL) / 3.2 Remote Control

Function	Remark
Low Power On/Off	The toggle behavior occurs by clicking the button.
	Refer to Transmit Power in the Function Reference for details of the function.
Monitor On/Off	The toggle behavior occurs by clicking the button.
	Refer to Monitor in the Function Reference for details of the function.
AUX Output Control	The toggle behavior occurs by clicking the button.
	Refer to AUX Output in the Function Reference for details of the function.
Repeat Enable/Disable	The toggle behavior occurs by clicking the button.
	Refer to Repeat Disable in the Function Reference for details of the function.
Squelch On/Off	The toggle behavior occurs by clicking the button.
	Refer to Squelch in the Function Reference for details of the function.
Take Over On/Off	The toggle behavior occurs by clicking the button.
	Refer to Take Over in the Function Reference for details of the function.
Test Tone On/Off	The toggle behavior occurs by clicking the button.
	Refer to Test Tone in the Function Reference for details of the function.
TOT Enable/Disable	The toggle behavior occurs by clicking the button.
	Refer to Time-out Timer in the Function Reference for details of the function.
TX Enable/Disable	The toggle behavior occurs by clicking the button.
	Refer to TX Disable in the Function Reference for details of the function.
Voting Tone On/Off	The toggle behavior occurs by clicking the button.
	Refer to Voting Pilot Tone in the Function Reference for details of the function.
Knob Lock/Unlock	The toggle behavior occurs by clicking the button.
	Enabling Knob Lock displays "Knob Lock" on the OLED display. If the Menu display
	screen is displayed at this time, the Normal display screen appears.
Service (Stop)	Clicking the button stops the software of the repeater.
Service (Start)	Clicking the button starts the behavior of the repeater software.
Service (Restart)	After the repeater software stops, clicking the button starts the behavior.
Service (Reboot)	Pressing the button makes the repeater reset the hardware level, and then the repeater
	restarts and starts the behavior.
Active Status Switch	The active state of Hot Standby can be switched.

Note

•

If Channel Select is assigned to AUX Input/Output 1 to AUX Input/Output 5 by using the FPU, Channel Select cannot be controlled from the Web Tool and OLED display Menu. However, if "ON" is configured in **Take Over**, Channel Select can be controlled from the Web Tool and OLED display Menu.

Refer to the Function Reference for details of **Channel Select** for assigning to AUX Input/Output 1 to AUX Input/Output 5 by using the FPU.

3.3 Remote Monitor

The repeater supports the Remote Monitor function via the Web. In Remote Monitor, the repeater status is confirmed remotely. The supported ranges are as follows:

Туре	Error	Function	Remark
	Display		
General Information	-	Channel Name	The Channel Name configured for the repeater
	-	Model Name	The model name
	-	Market Code	The market code
	-	Serial Number	The serial number
	-	NXDN ESN	NXDN ESN
	-	Own IP Address IP Address, Subnet Mask, Default Gateway	
	-	MAC Address	The MAC address
	-	License Information	The license information
	-	Firmware Version	The firmware version
	-	Frequency	The frequency configured for the repeater is always
			displayed.
	-	Operation Mode	Operation Mode
	-	Hot standby Mode	The Main Repeater/ Sub Repeater
	-	Virtual IP Address	The IP address for the service when Hot Standby is
			enabled
Communication	-	Call State	Monitoring a call in real time
Information			
System Information	-	Hot standby Status	HSB Active/ HSB Standby/ HSB Failsoft
	-	Next Switch Time	The scheduled switch time of the active state
	-	Repeater Status	Run/ Standby/ Processing
	Targeted	Hot Standby Connection	Interruption of communication between the Main
			Repeater and Sub Repeater
	Targeted	Beacon Sync	Interruption of communication between the master
			repeater and member repeater
	-	Beacon Operating	The Host Repeater status
		Status	
	-	NTP Synchronized	The status of the synchronization of an NTP Client
		Status	with an NTP Server
RF Information	-	RX Status *	The receive status
	-	RSSI *	The RSSI value
	-	BER *	The BER display
	-	Receive Signal	The RSSI voltage threshold
		(Threshold)	

		_	
Table	3-3	Remote	Monitor

3 DESCRIPTIONS OF FUNCTIONS (WEB TOOL) / 3.3 Remote Monitor

Туре	Error	Function	Remark
	Display		
	-	Signaling *	Matching/Not matching
	-	TX Status	The transmit status
	Targeted	VSWR Error Detection	The error detection for the reflected wave strength
			during transmission
	Targeted	RF Power Down Detect	Decrease in transmit power output
			The threshold is adjusted in PC Tuning Mode.
Configuration	Targeted	Unprogrammed	When none of the channels have been configured
Information	Targeted	Channel Data Blank	When the selected channel has not been
			configured
	Targeted	TX Frequency Data	PTT detection on the channel for which a transmit
		Blank	frequency is not configured
	Targeted	ESN Blank	When the ESN is not written
	Targeted	Feature Error	When a software option function not permitted for
			the repeater is permitted in the FPU configuration
HW Information	Targeted	Fan Error Detection	When an error of the fan is detected
	Targeted	Power Supply Voltage	When an error has occurred with the power supply
		Error	voltage
			The threshold is configured in FPU.
	Targeted	RX PLL Unlock	When an unlocked RX PLL is detected
	Targeted	TX PLL Unlock	When an unlocked TX PLL is detected
	Targeted	Current Consumption	When an error in the HPA current consumption is
		(HPA) Error	detected
	Targeted	Temperature (Drive	When an error in the Drive Amp temperature is
		Amp) Error	detected
	Targeted	Temperature (TX Block)	When an error in the TX Block temperature is
		Error	detected
	Targeted	Temperature (TCXO)	When an error in the TCXO ambient temperature is
		Error	detected
	Targeted	Temperature (HPA)	When an error in the HPA temperature is detected
		Error	
Function Port	-	AUX Input Monitor	-
Information			

* For RX Status, RSSI, BER, and Signaling, the status is displayed for each Slot in DMR Mode. In this case, the same status is displayed for both Slot 1 and Slot 2 when a signal of anything other than DMR is being received.

3.4 Upload/ Download

The repeater supports the file upload and file download functions via the Web. The supported ranges are as follows:

Function	Remark
Firmware Update	Clicking the "Update" button after selecting the firmware executes Firmware
	Update.
Communication Log Download	Clicking the "Download" button after specifying the acquisition period and
	target executes the download of the log.
System Log Download	Clicking the "Download" button after specifying the acquisition period and
	target executes the download of the log.
Diagnostic Data Download	Clicking the "Download" button after specifying the acquisition period and
	target executes the download of the log.
ID Import/Export	For the data exported in the CSV format, the data can be edited, deleted,
	added, and imported in the local environment.
Test Console Download	Clicking the "Download" button executes the download of the test console
	package stored in the repeater. The test console itself and its associated
	libraries, etc. require manual installation.
Packet Capture	Whether to enable or disable the packet capture tool (tcpdump) is selected. In
	addition, a file can be downloaded in the dat format by specifying the date and
	time.
Syslog	Whether to enable or disable debug output is selected. The output debug
	information is included in Diagnostic Data.

Table 3-4 Upload/ Download

3.5 Clear

The repeater supports the data deletion function via the Web. The supported ranges are as follows:

Table 3-5 Clear

Function	Remark	
Log Clear	Clicking the "Clear" button clears Communication Log and System Log information	
	stored in the repeater.	
ID Clear	Clicking the "Clear" button clears all ID List information stored in the repeater.	

Note

Refer to the Function Reference for deletion of the data configured in FPU.

3.6 Login User Management

The repeater supports the Login User Management function via the Web and can assign a password to each logged-in user.

Function	Remark
Login User List	Login User List is the function to register multiple user accounts.
Login User	Login User is the function to register the user account to log in.
Login Password	Login Password is the function to register the password of the user account to log in.

Table 3-6 Login User Management

3.7 License

The unique information of the repeater and the function authorized by the license can be confirmed, and the license authentication can be performed. Because the license file used for license authentication is supplied and managed by JVCKENWOOD Corporation, the charge for the software and unauthorized use of the license file can be prevented.

The licenses handled by the repeater are as shown in the table below and are generated by License Management Client (KPT-300LMC).

Table 3-7 License

License	Description
KWD-NX10DC	DMR CONVENTIONAL
KWD-NX10NC	NXDN CONVENTIONAL
KWD-NX10MS	CONVENTIONAL IP NETWORK
KWD-NX10VR	VOTING REPEATER
KWD-NX10SP	SIP PHONE

License Information

In the Web Tool screen, the following operations related to **License Information** can be performed.

Table 3-8 License Information

ltem	Description
License	License is the function to display the name of the function authorized by the license.
Description	Description is the function to display the description of the function authorized by the license.

Note

 To execute license authentication, KPT-300LMC (Ver. 1.30 or later) is used. Refer to KPT-300LMC Basic Operations for details.

3.8 Import & Export

Import & Export is the function to import and export the each ID information (UID, GID, UID Range, GID Range) in User List and the ID information (Console ID) in Console List on the Web Tool. The each ID information (UID, GID, UID Range, GID Range) in User List and the ID information (Console ID) in Console List can be registered by editing and importing the CSV file which is output by export. In addition, the import file is separate for each ID of UID, GID, UID Range, GID Range, and Console, and the same applies for export output.

Configuration	Description		
File Name	File Name is the file name of a CSV file to execute Import or Differential Extract. The CSV file name selected		
	by using the "Browse" button is displayed. After confirming the file name that appears, Import or Differential		
	Extract can be executed.		
	File Name has the following five types:		
	UID List: The CSV file name for editing UID in User List		
	GID List: The CSV file name for editing GID in User List		
	UID Range List: The CSV file name for editing UID Range in User List		
	GID Range List: The CSV file name for editing GID Range in User List		
	Console List: The CSV file name for editing Console ID in Console List		
"Browse"	The "Browse" button is the function to select a CSV file to execute Import or Differential Extract. The CSV		
button	files which can be selected by the "Browse" button are the following five types:		
	UID List: The CSV file that is output by exporting UID List		
	GID List: The CSV file that is output by exporting GID List		
	UID Range List: The CSV file that is output by exporting UID Range List		
	GID Range List: The CSV file that is output by exporting GID Range List		
	Console List: The CSV file that is output by exporting Console List		
"Differential	The "Differential Extract" button is the function to read a CSV file to be imported and to output as a CSV file		
Extract" button	the data contents to be reflected after the execution of import.		
	Before the execution of import, the data contents (addition, edit, deletion) to be reflected can be confirmed.		
	Clicking the respective "Differential Extract" button downloads as a CSV file the data contents to be reflected after the execution of import. Only data that has been added, changed, or deleted is recorded in the CSV file		
	to be output. The default file name is "DifferentialExtract_(the file name of the imported file).csv".		
	If the content of data cannot be imported, the content of the error is downloaded as a text file. The text file		
	displays the line number where the error occurred and its content. The default file name is "ImportError_(the		
	file name of the imported file).txt".		
	Note		
	• The CSV file of a different list cannot be imported. For example, the CSV file that is exported from UID		
	List cannot be read by the "Differential Extract" button (GID List).		

Table 3-9 Import & Export

3 DESCRIPTIONS OF FUNCTIONS (WEB TOOL) / 3.8 Import & Export

Configuration	Description
	The CSV file in the function mode that is not the same as the operated function mode cannot be
	imported even if the list matches. For example, the CSV file that is output during operation in NXDN
	Mode cannot be read during operation in DMR Mode.
	• The CSV file cannot be imported if a Site Group not configured in the FPU is configured in the CSV file
	of UID List, GID List, UID Range List, or GID Range List.
"Import" button	"Import" is the function to read the CSV file that was output by export and to reflect the configuration contents
	(UID List, GID List, UID Range List, GID Range List, Console List) to the Web Tool.
	Clicking the "Import" button reflects the configuration contents of the CSV file to the Web Tool.
	If the content of data cannot be imported, the content of the error is downloaded as a text file. The text file
	displays the line number where the error occurred and its content. The default file name is "ImportError_(the
	file name of the imported file).txt".
	Note
	• The CSV file of a different list cannot be imported. For example, the CSV file that is exported from UID
	List cannot be read to "Import (GID List)".
	The CSV file in the function mode that is not the same as the operated function mode cannot be
	imported even if the list matches. For example, the CSV file that is output during operation in NXDN
	Mode cannot be read during operation in DMR Mode.
	• The CSV file cannot be imported if a Site Group not configured in the FPU is configured in the CSV file
	of UID List, GID List, UID Range List, or GID Range List.
	• Updating is not performed automatically when the import is completed. Updating needs to be performed
	as any other Web Tool configuration is changed.
"Export" button	Clicking the "Export" button exports the ID information for UID, GID, UID Range, GID Range, and Console.
	The "Export" button is the function to output as a CSV file the ID information data for UID, GID, UID Range,
	GID Range, and Console configured by using the Web Tool.
	The ID information for UID, GID, UID Range, GID Range, and Console can be added, edited, and deleted by
	editing the CSV file which is output by export.
	Clicking each "Export" button outputs as a CSV file the data for UID List, GID List, UID Range List, GID
	Range List, and Console List configured by using the Web Tool. The default file name is
	"NXR1700_id_export_yyyy-mm-dd.csv".
	The configurations which are output for each export are as follows:
	UID List: User List > UID List > UID, UID Name, Site Group, Valid
	GID List: User List > GID List > GID, GID Name, Site Group, Valid
	• UID Range List: User List > UID Range List > UID Range (Min), UID Range (Max), UID Range Name,
	Site Group, Valid
	• GID Range List: User List > GID Range List > GID Range (Min), GID Range (Max), GID Range Name,
	Site Group, Valid
	Console List: Console > Console List > UID, UID Name, Valid, Comment, Priority

Note

- Export outputs UID List, GID List, UID Range List, GID Range List, and Console List in the operated function mode as a CSV file. Export can be performed for each UID List, GID List, UID Range List, GID Range List, or Console List, and a separate CSV file is output. Also, a CSV file is assigned an identifier of the mode in operation.
- Import can be performed for each UID List, GID List, UID Range List, GID Range List, or Console List, and the CSV file which is output by export is read and the configuration contents are reflected in the Web Tool.
- Import can only read the CSV file exported in the same mode as the function mode in operation and with the same language configuration as the currently selected language.
- The ID information for UID, GID, UID Range, GID Range, and Console can be registered at once by editing and importing the CSV file which is output by export.

The differential information (the total number of additions, deletions, and changes) that can be extracted at one time by Differential Extract and the number of changes that can be made at one time by import (the total number of additions, deletions, and changes) are as follows:

· Includes the configuration items, etc. of each CSV file.

Function	Target	Item	The Number of Items
Import & Export	UID List	UID	1000 items
		UID Name	
		Site Group	
		Valid	
	UID Range List	UID Range (Min)	64 items
		UID Range (Max)	
		UID Range Name	
		Site Group	
		Valid	
	GID List	GID	1000 items
		GID Name	64 items
		Site Group	
		Valid	
	GID Range List	GID Range (Min)	
		GID Range (Max)	
		GID Range Name	
		Site Group	
		Valid	
	Console List	UID	10 items
		UID Name	
		Valid	
		Comment	
		Priority	

 Table 3-10 Import & Export (Differential Extract)

4 RACK MOUNT

4.1 Installation Preparation

For attaching a single repeater



Figure 4-1 Overview for the Attachment of the Supplied Accessories to the Repeater (Single Repeater)

Procedure related to attachment (in the case of a single repeater)

1 Confirm that the supplied accessories required for the attachment to the repeater are accounted for.

The quantities in Table 4-1 indicate the quantities required for the attachment.

Table 4-1 Parts Required for the Attachment of the Repeater

No.	Part Name	Quantity	Remark
1	Bracket	1	Short type
2	Bracket	1	Long type
3	Handle	1 set	2 pcs
4	-	4	Included screw for No. 3
5	Flat Head Machine Screw	4	For Bracket

2 Ready the tool.

The tool required for the attachment of the supplied accessories (an M4 screwdriver) is readied.

3 Attach the Handle to the Bracket.

Use the screws included with the Handle for attachment.

4 Attach the Bracket assembly assembled in step 3 to the repeater.

4 RACK MOUNT / 4.1 Installation Preparation / For attaching a single repeater

Note

In the case of a single repeater, attachment to both the right side and left side is available. Although attachment is
to the right side in the current illustration, the attachment can be to the left side of the body by turning "Bracket
(Long type, Short type)" by 180 degrees in the opposite direction.

For attaching 2 repeaters



Figure 4-2 Overview for the Attachment of the Supplied Accessories to the Repeater (2 Repeaters)

Procedure related to attachment (in the case of 2 repeaters)

1 Confirm that the supplied accessories required for the attachment to the repeater are accounted for.

The quantities in Table 4-2 indicate the quantities required for the attachment.

No.	Part Name	Quantity	Remark
1	Bracket	2	Short type
3	Handle	1 set	2 pcs
4	-	4	Included screw for No. 3
5	Flat Head Machine Screw	4	For Bracket
6	Reinforcing Hardware	1	For connect set
7	Bind Head Machine Screw	8	For Reinforcing Hardware

Table 4-2 Parts Required for the Attachment of the Repeater

2 Ready the tool.

The tool required for the attachment of the supplied accessories (an M4 screwdriver) is readied.

3 Attach the Handle to the Bracket.

Use the screws included with the Handle for attachment.

4 Attach Reinforcing Hardware to the repeater.

When this part is attached to the repeater (the one on the right from the front), the part is fixed by screws from the sideways direction of the repeater.

5 Attach the other repeater to the assembly assembled in step 4.

The assembly is fixed by screws from the upward and downward directions of the repeater (the one on the left from the front).

6 Attach the Bracket assembly assembled in step 3 to the repeater.

4.2 Installation Method

Attach the assembly of attachments attached to the repeater according to the description in the rack manual (Figure 4-1 or Figure 4-2) to the rack.

Note

- When attaching to the rack, follow the description in the manual of the rack for attachment.
- Use M4 x 8 for the screws to fix the side of the repeater to the rail of the rack. Do not use screws which exceed 8 mm in length. If screws which exceed 8 mm in length are used, the screws touch the internal board of the repeater, and the repeater can fail.
- When attaching 2 repeaters, the usage after the attachment of the rails to the repeaters (both sides of the assembly) is recommended. Refer to Figure 4-2 for the rail of the rack and the positions of the screw holes for the attachment of the repeaters.
- To fasten a ground wire to the rear of the repeater after the repeater is attached to the rack, use the M4 screw hole of the diagram below. Use M4 x 8 for a screw to fix the ground wire.



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