



OPERATING GUIDE

DISPATCHER SOFTWARE

RC-FS20

INTRODUCTION

1 COMMON SETTINGS

2 SITE SETTINGS

INTRODUCTION

Thank you for choosing this Icom product.

The RC-FS20 DISPATCHER SOFTWARE was designed and built with Icom's IP network technology.

We hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your RC-FS20.

About this manual

This OPERATING GUIDE describes the details on the setting items of the dispatcher software.

Refer to the INSTALLATION GUIDE for the basic operation on setting up the system.

- The screen captures in this manual are examples of using Windows 11.

- In this manual, the RC-FS20 is described as "Dispatcher software."

① This document is described based on:

- The RC-FS20 version 1.08.

- The IP1100CV firmware version 1.10.

- The VE-PG4 firmware version 1.71.

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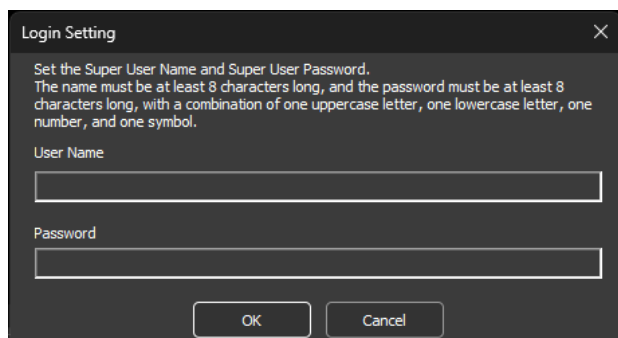
Accessing the Setting screen

When you open the Dispatcher software for the first time, you must set a Super User Name and Super User Password.

After entering them, the Common Settings screen is displayed.

1 Click “⚙️,” “File,” and then “New.”

- The Login Setting screen is displayed.

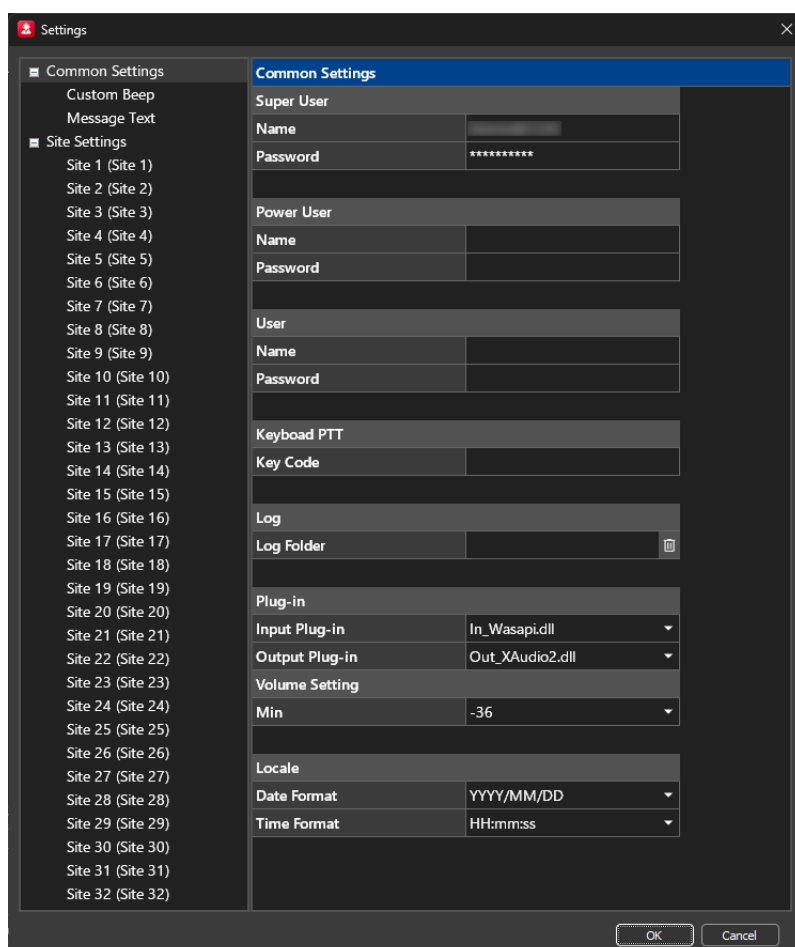


A dialog box titled "Login Setting" with a close button (X) in the top right corner. The text inside reads: "Set the Super User Name and Super User Password. The name must be at least 8 characters long, and the password must be at least 8 characters long, with a combination of one uppercase letter, one lowercase letter, one number, and one symbol." Below this text are two input fields: "User Name" and "Password". At the bottom are two buttons: "OK" and "Cancel".

- ① If you want to edit an existing setting file, click “Open” to select the file.

2 Enter a Super User Name and Password, and then click <OK>.

- The Common Settings screen is displayed.



A screenshot of the "Settings" application window. The left sidebar shows a tree view with "Common Settings" expanded, listing various site settings from "Site 1 (Site 1)" to "Site 32 (Site 32)". The main panel displays the "Common Settings" configuration. It includes sections for "Super User" (Name and Password fields), "Power User" (Name and Password fields), "User" (Name and Password fields), "Keyboard PTT" (Key Code field), "Log" (Log Folder field with a trash icon), "Plug-in" (Input Plug-in and Output Plug-in dropdowns), "Volume Setting" (Min volume dropdown), and "Locale" (Date Format and Time Format dropdowns). At the bottom are "OK" and "Cancel" buttons.

COMMON SETTINGS

Section 1

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Common Settings

⚙️ > Option > Setting > Common Settings

Common Settings

The Common Settings screen contains the initial settings to use the Dispatcher software on a PC.

Common Settings

Super User

1 Name

2 Password

Power User

3 Name

4 Password

User

Name

Password

The editable settings differ according to user authority levels. See the table below for details.

Super User

- 1 **Name** The Super User Name is displayed.
- 2 **Password** The Super User Password is masked with asterisks (*).

Power User

User

- 3 **Name** Set a username for the Power User or User.
- 4 **Password** Set a password for the Power User or User.

User authority level	Editable setting item	User name and password format
Super User	All the settings	8 to 32 characters (case sensitive) ① The Super User password must include uppercase and lowercase letters, numbers, and symbols.
Power User	All the settings except for the network and IP settings	Up to 32 characters (case sensitive)
User	ID List settings only	

Usable characters: A to Z, a to z, 0 to 9, !"#\$%&/'()*-+.,?_<>@`=~^|{}[];:

CAUTION: If you have forgotten the password, you cannot access the dispatcher setting screen. In this case, you have to reinstall the software.

1 COMMON SETTINGS

Common Settings

⚙️ > Option > Setting > Common Settings

■ Common Settings

Common Settings	
Keyboard PTT	
5 Key Code	
Log	
6 Log Folder	
Plug-in	
7 Input Plug-in	In_Wasapi.dll
8 Output Plug-in	Out_XAudio2.dll
Volume Setting	
9 Min	-36
Locale	
10 Date Format	YYYY/MM/DD
11 Time Format	HH:mm:ss

Keyboard PTT

5 Key Code

Press a key on your keyboard that you want to use as the PTT key.

Log

6 Log Folder

Click the field to select a desired location where you want to save logs.
① Click [🗑️] to delete the log folder.

Plug-in

7 Input Plug-in

Select an audio input device (.dll file) for the system, such as a microphone. (Default: In_Wasapi.dll)
① The default setting is commonly used.

8 Output Plug-in

Select an audio output device (.dll file) for the system, such as a speaker or headset. (Default: Out_XAudio2.dll)
① The default setting is commonly used.

Volume Setting

9 Min

Set the minimum audio volume of the system. (Default: -36)
Range: 0 ~ -36

Locale

10 Date Format.....

Select a data format. (Default: YYYY/MM/DD)
Options: YYYY-MM-DD, YYYY/MM/DD, YYYY-M-D, YYYY/M/D,
YY-MM-DD, YY/MM/DD, YY-M-D, YY/M/D,
MM-DD-YYYY, MM/DD/YYYY, M-D-YYYY, M/D/YYYY,
MM-DD-YY, MM/DD/YY, M-D-YY, M/D/YY,
DD-MM-YYYY, DD/MM/YYYY, D-M-YYYY, D/M/YYYY,
DD-MM-YY, DD/MM/YY, D-M-YY, D/M/YY,
MM-DD, MM/DD, M-D, M/D,
DD-MM, DD/MM, D-M, D/M

11 Time Format

Select a time format. (Default: HH:mm:ss)
Options: HH:mm:ss, hh:mm:ss tt, H:m:s, h:m:s tt

Common Settings

 > Option > Setting > Common Settings > Custom Beep

■ Custom Beep

Up to 10 audio tones (.wav files) can be set as custom beeps.
These custom beeps are listed in the Tone settings.

Custom Beep		
No.	File	
Custom 1		
Custom 2		
Custom 3		
Custom 4		
Custom 5		
Custom 6		
Custom 7		
Custom 8		
Custom 9		
Custom 10		

File

Click a File field to select a WAV file.

After selecting a file, its file path is displayed in the File field.

① Make sure to save the WAV file on your PC before selecting it.

① Click  to delete the WAV file.

Common Settings

⚙️ > Option > Setting > Common Settings > Message Text

■ Message Text

Up to 100 messages can be saved as presets.
The saved messages can be selected in the ID List window.

Message Text	
No.	Text
1	Gather immediately.
2	A message was sent.
3	Check the message.
4	Is it no problem?
5	Reply me.
6	Give me a replay immediately.
7	Please disperse there.
8	Back to the office ASAP.
9	The parcel arrived.
10	The work finished.

Text Enter a message of up to 50 characters.

Usable characters: Numbers, alphabetic letters (case sensitive), and the following symbols.

!\"#\$%&/'()*+.,?_<>@`=~^|{}[];:

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Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (General)

A total of 32 sites can be set on the dispatcher software.

Site Settings	
1 Site Name	Site
2 Mode	OFF

- 1 **Site Name** Enter the name of the Site of up to 16 characters (Case sensitive).
- 2 **Mode** Select the mode of the Site. (Default: OFF)
 The detailed setting items will be displayed according to the selected mode. Refer to the setting item list (pp. 2-3 ~ 2-6) for editable setting items in each mode.
- Options: (As of July 2026)
- OFF: Makes the Site as not used.
 - Conventional: Select to connect to an NXDN Conventional site.
 - Trunking: Select to connect to an NXDN Trunking site.
 - RoIP Gateway (IDAS): Select to connect to the USA, EUR, or AUS version of the VE-PG4.
 - RoIP Gateway (DCR): Select to connect to the JPN version of the VE-PG4.
 - dPMR Mode2: Select to connect to a dPMR Mode2 site.
 - WLAN: Select to connect to a Wireless LAN (WLAN) site.
- ① The selectable modes vary, depending on your license agreement.
- ① "Conventional," "Trunking," "RoIP Gateway (IDAS)," "RoIP Gateway (DCR)," and "dPMR Mode2" are selectable for only the Sites 1 ~ 8.
 Only "OFF" or "WLAN" is selectable for the Sites 9 ~ 32.
- ① To communicate with the Conventional or Trunking mode site, a CT-24 DIGITAL VOICE CONVERTER is required for each site.

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (General)

Setting item list

Setting item	Conventional	Trunking	RoIP Gateway (IDAS)	RoIP Gateway (DCR)	dPMR Mode2	WLAN
Site Name	✓	✓	✓	✓	✓	✓
Mode	✓	✓	✓	✓	✓	✓
Beep/Ringer						
Ringer On Receive			✓	✓		
Ringer On Receive (Individual Call)	✓	✓			✓	✓
Ringer On Receive (Group Call)	✓	✓			✓	✓
Ringer On Receive (All Call)	✓	✓			✓	✓
Ringer On Receive (Telephone Call)						✓
Over Ringer	✓	✓			✓	
TX R.T.T Beep	✓	✓			✓	
Error Beep		✓				
Clear Down Beep					✓	
TOT Notice Beep	✓	✓	✓	✓	✓	✓
TOT Beep	✓	✓	✓	✓	✓	✓
Target Availability Check Success Beep						✓
Target Availability Check Failure Beep						✓
SDM Ringer	✓	✓			✓	✓
Call Alert Ringer	✓	✓				
RAN						
TX RAN	✓					
CC						
RX CC					✓	
TX CC					✓	
Voice Codec						
Voice Codec			✓	✓		
TOT						
TOT Timer (Sec)	✓	✓	✓	✓	✓	✓
Penalty Time (Sec)	✓	✓			✓	✓
TOT Reset Timer (Sec)	✓	✓			✓	
TOT on Telephone Call						✓
TalkBack						
TalkBack Timer (Sec)	✓	✓	✓	✓	✓	✓
RX Type	✓	✓			✓	
All Call						
RX All Call		✓				
Broadcast Call						
RX					✓	
Communication Method						
Communication Method						✓
Call Type Priority						
Call Type Priority						✓
Target Availability Check						
Target Availability Check						✓

2 SITE SETTINGS

Site Settings

 > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (General)

Setting item list

Setting item	Conventional	Trunking	RoIP Gateway (IDAS)	RoIP Gateway (DCR)	dPMR Mode2	WLAN
SDM						
RX	✓	✓			✓	
Request Ack	✓	✓			✓	
Transmit						
Number of Data Resend						✓
Data Resend Wait Time (mSec)						✓
Emergency						
Send Ack (Group)	✓	✓				
Send Ack (All Call)	✓	✓				
Radio Check						
RX	✓	✓				
Stun						
Stun	✓	✓			✓	✓
Stun Mode	✓	✓				✓
Status Number					✓	
Revive						
Revive	✓	✓			✓	✓
Status Number					✓	
Kill						
Kill	✓	✓			✓	✓
Status Number					✓	
Remote Monitor						
Remote Monitor					✓	✓
TX Timer (Sec)	✓	✓			✓	✓
Remote Monitor Mode	✓	✓				✓
Status Number					✓	
Call Alert						
Call Alert RX	✓	✓				
Call Alert Request Ack	✓	✓				
Encryption						
Key ID	✓	✓	✓	✓		
Decryption multiple keys	✓					
Scrambler						
Key ID					✓	
Trunking Setting						
Site Code		✓				
Area Bit		✓				
Message Trunking		✓				
ATB Ring Back		✓				

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (General)

Setting item list

Setting item	Conventional	Trunking	RoIP Gateway (IDAS)	RoIP Gateway (DCR)	dPMR Mode2	WLAN
Common Setting						
Ack TX Delay [x100 (mSec)]	✓	✓			✓	
Ack RX Wait [x100 (mSec)]	✓	✓			✓	
Attempt No	✓	✓			✓	
Silence Timer [x80 (mSec)]	✓	✓			✓	
Delayed Header	✓	✓				
Wake-Up Header					✓	
Unit Setting						
Tenant ID						✓
Prefix ID		✓	✓			
Unit ID	✓	✓	✓	✓	✓	✓
Group Prefix ID		✓				
Group ID Start					✓	
Group ID	✓	✓				
Password						✓
Priority Group						
ON		✓				
Prefix ID		✓				
Group ID		✓				
RX Broadcast Group						
ON		✓				
Prefix ID		✓				
Group ID		✓				
Network Setting						
Transmission Mode			✓	✓		
Network Adapter			✓	✓		
Destination Address	✓		✓	✓	✓	
Site Master Address		✓				
Server Address						✓
TCP Port (Connection)	✓				✓	
UDP Port (Data)	✓				✓	
Destination Port		✓	✓	✓		
Source Port		✓	✓	✓		
Multicast TTL			✓	✓		
Source Port Number						✓
Server Port Number						✓
Registration Interval (Sec)						✓
Health Check Interval (Sec)		✓				
Receive Buffer Size (mSec)	✓	✓			✓	✓
Keycode	✓	✓			✓	
Packet Encryption	✓				✓	
Common Key	✓				✓	

Site Settings

 > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (General)

Setting item list

Setting item	Conventional	Trunking	RoIP Gateway (IDAS)	RoIP Gateway (DCR)	dPMR Mode2	WLAN
IP Command Setting						
Destination Address	✓				✓	
TCP Port	✓				✓	
Name	✓				✓	
Status Check Interval (Min)	✓	✓			✓	
Base MR-CH Setting						
Base MR-CH Number 1-10	✓					

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

In the Conventional mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	Conventional
Beep/Ringer	
① Ringer On Receive (Individual Call)	None
Ringer On Receive (Group Call)	None
Ringer On Receive (All Call)	None
② Over Ringer	None
③ TX R.T.T Beep	None
④ TOT Notice Beep	None
⑤ TOT Beep	None
⑥ SDM Ringer	None
⑦ Call Alert Ringer	None

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- ① **Ringer On Receive** Rings when an Individual, Group, or All call is received. (Default: None)
(Individual Call, Group Call, All Call)
- ② **Over Ringer** Rings when a call reception finishes. (Default: None)
- ③ **TX R.T.T Beep** Rings when the transceiver is ready to transmit a voice signal to avoid cutting off the beginning part of the signal. (Default: None)
- ④ **TOT Notice Beep** Rings 10 seconds before the Time-out Timer (TOT) expires. (Default: None)
- ⑤ **TOT Beep** Rings when a transmission exceeds the set time period and is forcibly stopped by the TOT. (Default: None)
- ⑥ **SDM Ringer** Rings when a Message is received. (Default: None)
- ⑦ **Call Alert Ringer** Rings when a Call Alert call is received. (Default: None)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
RAN	
8 TX RAN	0
TOT	
9 TOT Timer (Sec)	180
10 Penalty Time (Sec)	30
11 TOT Reset Timer (Sec)	0
Talk Back	
12 TalkBack Timer (Sec)	0
13 RX Type	Normal

RAN

8 TX RAN

Set a Radio Access Number (RAN) to transmit from the RC-FS20. RAN codes are used to separate the transceiver from the same or adjacent channel station, according to the assigned code. "0" (a decimal number) is a special code that matches any RAN.
Range: 0 ~ 63 (Default: 0)

TOT

9 TOT (Sec)

Set the Time-out Timer (TOT).
If a continuous transmission exceeds the set time period, it will be forcibly stopped. (Default: 180)
Range: 0 ~ 255 (seconds)

10 Penalty Time (Sec)

Set the TOT Penalty time.
After the TOT expires, the Penalty Time starts and inhibits the user from transmitting for the set time period. (Default: 30)
Range: 0 ~ 255 (seconds)

11 TOT Reset Timer (Sec)

Set the TOT Reset Timer time.
When releasing [PTT] before the TOT expires, the TOT Reset Timer starts. The TOT Timer will reset itself if the user does not push [PTT] again for the set time period. (Default: 0)
Range: 0 ~ 15 (seconds)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
RAN	
8 TX RAN	0
TOT	
9 TOT Timer (Sec)	180
10 Penalty Time (Sec)	30
11 TOT Reset Timer (Sec)	0
Talk Back	
12 TalkBack Timer (Sec)	0
13 RX Type	Normal

Talk Back

12 TalkBack Timer (Sec)

The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period.
To disable the TalkBack function, set this item to "0." (Default: 0)
Range: 0 (disabled) ~ 255 (seconds)

13 RX Type

Select an option for the TalkBack function if the received call is a digital signal. (Default: Normal)

Options:

- Normal: The TalkBack function will be activated when a voice, Status, Message, or Call Alert call is received.
- Voice Only: The TalkBack function will be activated only when a voice call is received.

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
SDM	
14 RX	OFF
15 Request Ack	OFF
Emergency	
16 Send Ack (Group)	OFF
17 Send Ack (All Call)	OFF
Radio Check	
18 RX	OFF

SDM

14 RX Select whether to receive Messages on Individual, Group, and All calls.
"OFF" does not receive Messages. (Default: OFF)

15 Request Ack Select whether to request a status acknowledgment from the target
station. The Request Ack is not available for Group calls. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
SDM	
14 RX	OFF
15 Request Ack	OFF
Emergency	
16 Send Ack (Group)	OFF
17 Send Ack (All Call)	OFF
Radio Check	
18 RX	OFF

Emergency

16 Send Ack (Group)

Select whether to send an acknowledgment when an Emergency call is received for a Group call.
(Default: OFF)

17 Send Ack (All Call).....

Select whether to send an acknowledgment when an Emergency call is received for an All call.
(Default: OFF)

Radio Check

18 RX

Select whether to receive Radio Check calls.
A Radio Check call can determine whether a target station is within communication range and on channel, without requiring any action by the target station user.
(Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Stun	OFF
Stun Mode	TX Inhibit
Revive	ON
Kill	OFF

Stun

19 Stun

Select whether to transmit Stun commands. A Stun command remotely disables the transceiver. Transmitting a Revive command to a stunned transceiver is necessary to operate the stunned transceiver again.
(Default: OFF)

20 Stun Mode

Select the capabilities of the stunned transceiver. (Default: TX Inhibit)
Options:
• TX Inhibit: Inhibits the stunned transceiver from transmitting.
• TX&RX Inhibit: Inhibits the stunned transceiver from transmitting and receiving.

Revive

21 Revive

Select whether to transmit Revive commands.
Transmitting a Revive command restores a stunned transceiver to normal operation.
(Default: ON)

Kill

22 Kill

Select whether to transmit Kill commands.
A Kill command remotely disables the transceiver. The killed transceiver must be reprogrammed to operate the transceiver again. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Remote Monitor	
23 TX Timer (Sec)	1
24 Remote Monitor Mode	Normal
Call Alert	
25 Call Alert RX	OFF
26 Call Alert Request Ack	OFF

Remote Monitor

23 TX Timer (Sec)

Set the time period so that the target transceiver transmits its microphone audio after receiving a Remote Monitor call. (Default: 1)
Range: 1 ~ 255 (seconds)

24 Remote Monitor Mode

Select the status of the target transceiver's indicator while transmitting its microphone audio after receiving a Remote Monitor call. (Default: Normal)

Options:

- Normal: The receiving transceiver's Status indicator lights while transmitting.
- Silent: The receiving transceiver's Status indicator does not light while transmitting.

Call Alert

25 Call Alert RX

Select whether to receive Call Alert calls. (Default: OFF)

26 Call Alert Request Ack

Select whether to send an acknowledgment request to the target station when receiving a Call Alert call. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Encryption	
27 Key ID	OFF
28 Decryption multiple keys	OFF
Common Setting	
29 Ack TX Delay [x100 (mSec)]	0
30 Ack RX Wait [x100 (mSec)]	26
31 Attempt No	5
32 Silence Timer [x80 (mSec)]	15
33 Delayed Header	0

Encryption

27 Key ID

Select an Encryption Key ID from the list. Select "OFF" to disable the Encryption function.

① Before you select a key ID, you must set the Encryption Key List for the Site on the "Encryption" screen. (p.2-20)

The Voice Encryption function makes the communication between the caller and the called stations private by using an Encryption Key and Key ID. The same Encryption Key and Key ID must be set in all stations to communicate. (Default: OFF)

28 Decryption multiple keys...

Select whether to decrypt multiple encryption keys on one channel.

(Default: OFF)

Options:

- OFF: Decrypts only one encryption key that is set in the Encryption Key List No.
- ON: Decrypts multiple encryption keys that are set in High Level Encryption (AES) or Low Level Encryption (DES), according to the Encryption Mode setting.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Encryption	
27 Key ID	OFF
28 Decryption multiple keys	OFF
Common Setting	
29 Ack TX Delay [x100 (mSec)]	0
30 Ack RX Wait [x100 (mSec)]	26
31 Attempt No	5
32 Silence Timer [x80 (mSec)]	15
33 Delayed Header	0
Unit Setting	
34 Unit ID	1
35 Group ID	1

Common Setting

29 Ack TX Delay [x100 (mSec)]

Set the time in seconds to delay sending an Acknowledgment signal after receiving a Status, Message, Call Alert, Radio Check, Stun, Kill, Revive, or Remote Monitor call. (Default: 0)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

30 Ack RX Wait [x100 (mSec)]

Set the Ack RX Wait timer period.
The RC-FS20 waits for the set time period after transmitting a call that requires an acknowledgment.
If no acknowledgment is received within the period, the RC-FS20 will retry the call according to the Attempt No setting. (Default: 26)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

31 Attempt No

Set the maximum number of times the RC-FS20 transmits a call.
If no acknowledgment is received during the Ack RX Wait timer period, the RC-FS20 attempts to make the call for up to the set number of times. (Default: 5)
Range: 1 ~ 15

32 Silence Timer [x80 (mSec)]

Set the amount of time lapse of an IDAS frame before a failure is declared. (Default: 15)
Range: 5 ~ 255 (x80 milliseconds in 80 millisecond steps)

33 Delayed Header

Set the number of dummy frames.
When starting a transmission, the RC-FS20 adds some dummy frames to the head of the data in case the target station is in the power save mode, or is scanning. (Default: 0)
Range: 0 ~ 15

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Encryption	
27 Key ID	OFF
28 Decryption multiple keys	OFF
Common Setting	
29 Ack TX Delay [x100 (mSec)]	0
30 Ack RX Wait [x100 (mSec)]	26
31 Attempt No	5
32 Silence Timer [x80 (mSec)]	15
33 Delayed Header	0
Unit Setting	
34 Unit ID	1
35 Group ID	1

Unit Setting

- 34 Unit ID Enter the Unit ID of the RC-FS20 in the Site. (Default: 1)
Range: 1 ~ 65519
- 35 Group ID Enter the Group ID of the RC-FS20 in the Site. (Default: 1)
Range: 1 ~ 65519

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

Site Settings	
Site Name	Site
Mode	Conventional
Network Setting	
36 Destination Address	
37 TCP Port (Connection)	41200
38 UDP Port (Data)	41220
39 Receive Buffer Size (mSec)	240
40 Keycode	ucfr5000
41 Packet Encryption	OFF
42 Common Key	00000000

Network Setting

36 Destination Address

Enter the IP address or the domain name of the repeater in the Site.
If no address or an invalid address is entered, the RC-FS20 cannot access the repeater.
Usable characters: A to Z, a to z, 0 to 9, -, and.

37 TCP Port (Connection)

Set the TCP port number of the repeater to access.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (41200), Site No. 2 (41201), Site No. 3 (41202), Site No. 4 (41203),, Site No. 8 (41207)
Range: 1024 ~ 65535

38 UDP Port (Data)

Set the UDP port number of the repeater to access.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (41220), Site No. 2 (41221), Site No. 3 (41222), Site No. 4 (41223),, Site No. 8 (41227)
Range: 1024 ~ 65535

39 Receive Buffer Size (mSec)

Set the buffer size to prevent the audio from breaking up. (Default: 240)
Range: 80 ~ 1200 (milliseconds in the 80 millisecond steps)

40 Keycode

Set a key code of up to 16 characters to connect to the repeater's network/controller board. (Default: ucfr5000)
Usable characters: A to Z, a to z, 0 to 9,
!\"#\$%&/'()*+.,?_<>@`=~^|{}[];:

41 Packet Encryption

Select whether to enable the RC-FS20 to encrypt packets.
(Default: OFF)

42 Common Key

Set an 8 digit common key to encrypt the packets. (Default: 00000000)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Conventional mode)

IP Command Setting

43 Destination Address

Enter the IP address or the domain name of the repeater for an IP Command connection.
Usable characters: A to Z, a to z, 0 to 9, -, and.

44 TCP Port

Set the repeater's IP Command connection port number.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
Range: 1024 ~ 65535

45 Name

Enter a repeater name of up to 12 characters for the Status Check.

46 Status Check Interval (Min)

Set the time period for the repeater's Status Check interval.
The RC-FS20 receives Repeater Status information (Power supply voltage, PLL Lock voltage, Temperature, and Fan status) in this interval.
Range: 0 ~ 60 (minutes in the 10 minute steps) (Default: 10)

BASE MR-CH Setting

47 BASE MR-CH Number 1 ~ 10

Set the Memory channel of the repeater specified in the IP Command Setting.
Range: 1 ~ 1000

① The activated Memory channel is displayed in green on the Repeater Status screen. You can change the Memory channel by double-clicking the cell.

Repeater Status									
Refresh									
☐	Address	Name	Voltage (...)	PLL Lock...	PLL Lock...	Tempera...	FAN Stat...	MR-CH	MR-CH
☐			12.54	-	0.90	37.40	OK	1	2

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Status Call

■ Status Call (in the Conventional mode)

Configure the settings for the Status call operation.

The Status Call list can save up to 100 status messages.

Status Call		
No.	Text ①	Tone ②
1		None ▼
2		None ▼
3		None ▼
98		None ▼
99		None ▼
100		None ▼

① **Text**

Enter a message of up to 12 characters to display when a Status call is received.

② **Tone**

Select the tone type that sounds when a Status call is received.

(Default: None)

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Encryption

■ Encryption (in the Conventional mode)

Configure the Encryption settings.

Up to 63 Encryption Keys can be stored.

Encryption (Site 1)		
No.	Type ①	Encryption Key ②
00	Invalid	
01	Invalid	
02	Invalid	
...		
61	Invalid	
62	Invalid	
63	Invalid	

① **Type** Displays the Encryption type that is automatically set to “Invalid,” “Scrambler,” “DES,” or “AES,” depending on the length of the Encryption Key. (Default: Invalid)

② **Encryption Key** Set an Encryption Key of up to 64 characters.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the Conventional mode)

Configure the ID List settings.

The ID List can save up to 1000 IDs.

No.	Call Type	Alias Name	ID	Tone
-	All			Default
1	All			Default
2	All			Default
...	...	...	...	...
998	All			Default
999	All			Default
1000	All			Default

1 Import/Export

Select "Import" or "Export" to import or export a CSV format file for the ID List.

Options:

- Import: Imports a maximum of 1000 NXDN Individual and Group IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported. Select a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 NXDN Individual and Group IDs. Select a folder to export the file into and enter a file name, and then click <Save>.

2 Call Type

Select the call type from All, Individual, or Group.

① "All" is selectable for only the number "-."

Only "Individual" or "Group" is selectable for the numbers 1 ~ 1000.

3 Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List Settings.

4 ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Conventional operation.

Range: 1 ~ 65519

5 Tone

Settable only when the Call Type is set to "Individual" or "Group."

Select the tone type that sounds when a Status, Message, or Call Alert call is received. (Default: Default)

Options:

- Default: The ringtone that is set in Ringer On Receive sounds. (⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-7)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

In the Trunking mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	Trunking
Beep/Ringer	
① Ringer On Receive (Individual Call)	None
Ringer On Receive (Group Call)	None
Ringer On Receive (All Call)	None
② Over Ringer	None
③ TX R.T.T Beep	None
④ Error Beep	None
⑤ TOT Notice Beep	None
⑥ TOT Beep	None
⑦ SDM Ringer	None
⑧ Call Alert Ringer	None

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- | | |
|---|---|
| ① Ringer On Receive (Individual Call, Group Call, All Call) | Rings when an Individual, Group, or All call is received. (Default: None) |
| ② Over Ringer | Rings when a call reception finishes. (Default: None) |
| ③ TX R.T.T Beep | Rings when the transceiver is ready to transmit a voice signal to avoid cutting off the beginning part of the signal. (Default: None) |
| ④ Error Beep | Rings when an error occurs, such as a transmission failure. (Default: None) |
| ⑤ TOT Notice Beep | Rings 10 seconds before the Time-out Timer (TOT) expires. (Default: None) |
| ⑥ TOT Beep | Rings when a transmission exceeds the set time period by the TOT, forcibly stops the transmission and a beep sounds. (Default: None) |
| ⑦ SDM Ringer | Rings when a Message is received. (Default: None) |
| ⑧ Call Alert Ringer | Rings when a Call Alert call is received. (Default: None) |

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
TOT	
9 TOT Timer (Sec)	180
10 Penalty Time (Sec)	30
11 TOT Reset Timer (Sec)	0
Talk Back	
12 TalkBack Timer (Sec)	0
13 RX Type	Normal

TOT

9 TOT Timer (Sec)

Set the Time-out Timer (TOT).
If a continuous transmission exceeds the set time period, the transmission will be forcibly stopped. (Default: 180)
Range: 0 ~ 255 (seconds)

10 Penalty Time (Sec)

Set the TOT Penalty time.
After the TOT expires, the Penalty Time starts and inhibits the user from transmitting for the set time period. (Default: 30)
Range: 0 ~ 255 (seconds)

11 TOT Reset Timer (Sec)

Set the TOT Reset Timer time.
When releasing [PTT] before the TOT expires, the TOT Reset Timer starts. The TOT Timer will reset itself if the user does not push [PTT] again for the set time period. (Default: 0)
Range: 0 ~ 15 (seconds)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
TOT	
9 TOT Timer (Sec)	180
10 Penalty Time (Sec)	30
11 TOT Reset Timer (Sec)	0
Talk Back	
12 TalkBack Timer (Sec)	0
13 RX Type	Normal

Talk Back

12 TalkBack Timer (Sec)

The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period.
To disable the TalkBack function, set this item to "0." (Default: 0)
Range: 0 (disabled) ~ 255 (seconds)

13 RX Type

Select an option for the TalkBack function if the received call is a digital signal. (Default: Normal)

Options:

- Normal: The TalkBack function will be activated when a voice, Status, Message, or Call Alert call is received.
- Voice Only: The TalkBack function will be activated only when a voice call is received.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
All Call	
14 RX All Call	OFF
SDM	
15 RX	OFF
16 Request Ack	OFF
Emergency	
17 Send Ack (Group)	OFF
18 Send Ack (All Call)	OFF

All Call

14 RX All Call

Select whether to receive All calls on the RC-FS20. "OFF" does not receive All calls. (Default: OFF)

SDM

15 RX

Select whether to receive Messages on Individual, Group, and All calls. "OFF" does not receive Messages. (Default: OFF)

16 Request Ack

Select whether to request a status acknowledgment from the target station. The Request Ack is not available for Group calls. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Emergency	OFF
17 Send Ack (Group)	OFF
18 Send Ack (All Call)	OFF
Radio Check	
19 RX	OFF
Stun	
20 Stun	OFF
21 Stun Mode	TX Inhibit
Revive	
22 Revive	ON
Kill	
23 Kill	OFF

Emergency

17 Send Ack (Group) Select whether to send an acknowledgment when an Emergency call is received for a Group call. (Default: OFF)

18 Send Ack (All Call)..... Select whether to send an acknowledgment when an Emergency call is received for an All call. (Default: OFF)

Radio Check

19 RX Select whether to receive Radio Check calls.
A Radio Check call can determine whether a target station is within communication range and on channel, without requiring any operation by the target station user. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Emergency	OFF
17 Send Ack (Group)	OFF
18 Send Ack (All Call)	OFF
Radio Check	
19 RX	OFF
Stun	
20 Stun	OFF
21 Stun Mode	TX Inhibit
Revive	
22 Revive	ON
Kill	
23 Kill	OFF

Stun

20 Stun

Select whether to transmit Stun commands. A Stun command remotely disables the transceiver. Transmitting a Revive command to a stunned transceiver is necessary to operate the stunned transceiver again.
(Default: OFF)

21 Stun Mode

Select the capabilities of the stunned transceiver. (Default: TX Inhibit)
Options:
• TX Inhibit: Inhibits the stunned transceiver from transmitting.
• TX&RX Inhibit: Inhibits the stunned transceiver from transmitting and receiving.

Revive

22 Revive

Select whether to transmit Revive commands.
Transmitting a Revive command restores a stunned transceiver to normal operation.
(Default: ON)

Kill

23 Kill

Select whether to transmit Kill commands.
A Kill command remotely disables the transceiver. The killed transceiver must be reprogrammed to operate the transceiver again. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Remote Monitor	
24 TX Timer (Sec)	1
25 Remote Monitor Mode	Normal
Call Alert	
26 Call Alert RX	OFF
27 Call Alert Request Ack	OFF
Encryption	
28 Key ID	OFF

Remote Monitor

24 TX Timer (Sec)

Set the time period so that the target transceiver transmits its microphone audio after receiving a Remote Monitor call. (Default: 1)
Range: 1 ~ 255 (seconds)

25 Remote Monitor Mode

Select the status of the target transceiver's indicator while transmitting its microphone audio after receiving a Remote Monitor call. (Default: Normal)

Options:

- Normal: The receiving transceiver's Status indicator lights while transmitting.
- Silent: The receiving transceiver's Status indicator does not light while transmitting.

Call Alert

26 Call Alert RX

Select whether to receive Call Alert calls. (Default: OFF)

27 Call Alert Request Ack

Select whether to send an acknowledgment request to the target station when receiving a Call Alert call. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Remote Monitor	
24 TX Timer (Sec)	1
25 Remote Monitor Mode	Normal
Call Alert	
26 Call Alert RX	OFF
27 Call Alert Request Ack	OFF
Encryption	
28 Key ID	OFF

Encryption

28 Key ID

Select an Encryption Key ID from the list. Select "OFF" to disable the Encryption function.

① Before you select a key ID, you must set the Encryption Key List for the Site on the "Encryption" screen. (p.2-38)

The Voice Encryption function makes the communication between the caller and the called stations private by using an Encryption Key and Key ID. The same Encryption Key and Key ID must be set in all stations to communicate.
(Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Trunking Setting	
29 Site Code	1
30 Area Bit	OFF
31 Message Trunking	OFF
32 ATB Ring Back	OFF

Trunking Settings

- 29 **Site Code** Select a site code to identify the Site. (Default: 1)
Range: 1 ~ 250
- 30 **Area Bit**..... Select whether to use Area Bit to prevent interference from adjacent systems.
When an adjacent trunking repeater operates on the same frequency, select "ON" to prevent interference. (Default: OFF)
- 31 **Message Trunking** Select whether to keep a trunk connection between the RC-FS20 and a repeater when a transmission finishes.
Select "ON" to keep the connection. (Default: OFF)
- 32 **ATB Ring Back** Select whether to use the All Trunk Busy (ATB) Ring Back function.
No answer is given from a repeater when all repeaters in the Site are busy. However, when this function is set to "ON", clicking <PTT> starts a search and continues until a free repeater becomes available. Then the RC-FS20 transmits immediately after a free repeater is found. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Common Setting	
33 Ack TX Delay [x100 (mSec)]	0
34 Ack RX Wait [x100 (mSec)]	26
35 Attempt No	5
36 Silence Timer [x80 (mSec)]	15
37 Delayed Header	0
Unit Setting	
38 Prefix ID	1
39 Unit ID	1
40 Group Prefix ID	1
41 Group ID	1

Common Setting

33 Ack TX Delay [x100 (mSec)]

Set the time in seconds to delay sending an Acknowledgment signal after receiving a Status, Message, Call Alert, Radio Check, Stun, Kill, Revive or Remote Monitor call. (Default: 0)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

34 Ack RX Wait [x100 (mSec)]

Set the Ack RX Wait timer period.
The RC-FS20 waits for the set time period after transmitting a call that requires an acknowledgment.
If no acknowledgment is received within the period, the RC-FS20 will retry the call according to the Attempt No setting. (Default: 26)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

35 Attempt No

Set the maximum number of times the RC-FS20 transmits a call.
If no acknowledgment is received during the Ack RX Wait timer period, the RC-FS20 attempts to make the call for up to the set number of times. (Default: 5)
Range: 1 ~ 15

36 Silence Timer [x80 (mSec)]

Set the amount of time lapse of an IDAS frame before a failure is declared. (Default: 15)
Range: 5 ~ 255 (x80 milliseconds in 80 millisecond steps)

37 Delayed Header

Set the number of dummy frames. (Default: 0)
When starting a transmission, the RC-FS20 adds dummy frames at the beginning of the data in case the target station is in the Power-Saving mode or scanning.
Range: 0 ~ 15

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Common Setting	
33 Ack TX Delay [x100 (mSec)]	0
34 Ack RX Wait [x100 (mSec)]	26
35 Attempt No	5
36 Silence Timer [x80 (mSec)]	15
37 Delayed Header	0
Unit Setting	
38 Prefix ID	1
39 Unit ID	1
40 Group Prefix ID	1
41 Group ID	1

Unit Setting

- | | | |
|--------------------------|--|--------------|
| 38 Prefix ID | Enter the Prefix ID for the RC-FS20's Unit ID in the Site.
Range: 1 ~ 30 | (Default: 1) |
| 39 Unit ID | Enter the Unit ID of the RC-FS20 in the Site.
Range: 1 ~ 2000 | (Default: 1) |
| 40 Group Prefix ID | Enter the Prefix ID for the RC-FS20's Group ID in the Site.
Range: 1 ~ 30 | (Default: 1) |
| 41 Group ID | Enter the Group ID of the RC-FS20 in the Site.
Range: 1 ~ 2000 | (Default: 1) |

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Group ID	1
Priority Group	
42 ON	OFF
43 Prefix ID	1
44 Group ID	1
RX Broadcast Group	
45 ON	OFF
46 Prefix ID	1
47 Group ID	1

Priority Group

- 42 **ON** Select whether to use the Priority Group function.
This function enables the RC-FS20 to receive a call that includes the specified ID. (Default: OFF)
- 43 **Prefix ID** Select the Prefix ID. (Default: 1)
Range: 1 ~ 30
- 44 **Group ID** Enter the Group ID. (Default: 1)
Range: 1 ~ 2000

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Priority Group	
42 ON	OFF
43 Prefix ID	1
44 Group ID	1
RX Broadcast Group	
45 ON	OFF
46 Prefix ID	1
47 Group ID	1

RX Broadcast Group

45 ON

Select whether to use the RX Broadcast Group function.
This function enables the RC-FS20 to receive calls from the specified Groups, even if it does not belong to them. However, the RC-FS20 cannot transmit to the group. (Default: OFF)

46 Prefix ID

Enter the Prefix ID. (Default: 1)
Range: 1 ~ 30

47 Group ID

Enter the Group ID. (Default: 1)
Range: 1 ~ 2000

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Network Setting	
48 Site Master Address	
49 Destination Port	41220
50 Source Port	41220
51 Health Check Interval (Sec)	30
52 Receive Buffer Size (mSec)	240
53 Keycode	ucfr5000
IP Command Setting	
54 Status Check Interval (Min)	10

Network Setting

48 Site Master Address

Enter the IP address or the domain name of the system master or the Site master repeater that the RC-FS20 accesses.

If no address or an invalid address is set, the RC-FS20 cannot access the repeater.

Usable characters: A to Z, a to z, 0 to 9, -, and.

49 Destination Port

Set the port number of the Site master repeater that the RC-FS20 accesses.

① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.

① The default number differs, depending on the Site No., as shown below.

Default: Site No. 1 (41220), Site No. 2 (41221), Site No. 3 (41222),
Site No. 4 (41223),, Site No. 8 (41227)

Range: 10000 ~ 65535

50 Source Port

Set the port number of the RC-FS20 that accesses the Site master repeater.

① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.

① The default number differs, depending on the Site No., as shown below.

Default: Site No. 1 (41220), Site No. 2 (41221), Site No. 3 (41222),
Site No. 4 (41223),, Site No. 8 (41227)

Range: 10000 ~ 65535

51 Health Check Interval (Sec)

Set the online watch interval for the RC-FS20 and a site master repeater.

The RC-FS20 sends a Health Check packet at startup, and then at this time interval. (Default: 30)

Range: 10 ~ 60 (seconds in the 10 second steps)

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the Trunking mode)

Site Settings	
Site Name	Site
Mode	Trunking
Network Setting	
48 Site Master Address	
49 Destination Port	41220
50 Source Port	41220
51 Health Check Interval (Sec)	30
52 Receive Buffer Size (mSec)	240
53 Keycode	ucfr5000
IP Command Setting	
54 Status Check Interval (Min)	10

Network Setting

52 Receive Buffer Size (mSec)

Set the buffer size to prevent the audio from breaking up. (Default: 240)
Range: 80 ~ 1200 (milliseconds in the 80 millisecond steps)

53 Keycode

Set a key code of up to 16 characters to connect to the repeater's network/controller board. (Default: ucfr5000)

IP Command Setting

54 Status Check Interval (Min)

Select the interval time to check the connection status. (Default: 10)
Range: 0 ~ 60 (minutes in the 10 minute steps)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Status Call

■ Status Call (in the Trunking mode)

Configure the settings for the Status call operation.

The Status Call list can save up to 34 status messages.

Status Call		
No.	Text ①	Tone ②
1		None ▼
2		None ▼
3		None ▼
98		None ▼
99		None ▼
100		None ▼

① **Text**

Enter a message of up to 12 characters to display when a Status call is received.

② **Tone**

Select the tone type that sounds when a Status call is received.

(Default: None)

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Encryption

■ Encryption (in the Trunking mode)

Configure the Encryption settings.

Encryption (Site 1)		
No.	Type ①	Encryption Key ②
00	Invalid	

- ① **Type** Displays the Encryption type that is automatically set to “Invalid” or “Scrambler,” depending on the length of the Encryption Key.
(Default: Invalid)
- ② **Encryption Key** Enter an Encryption Key of up to 5 characters.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Repeater List

■ Repeater List (in the Trunking mode)

Configure the Repeater List settings for the Status Check function.
The Repeater List can save up to 30 repeaters.

Repeater List	
01	
① Address	
② Port	
③ Name	
...	
30	
Address	
Port	
Name	

- ① **Address** Enter the IP address or the domain name of the repeater from which the RC-FS20 receives information for the Status Check function.
- ② **Port** Set the repeater's port number for the Status Check.
Range: 1024 ~ 65535
- ③ **Name** Enter a repeater name of up to 12 characters for the Status Check.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the Trunking mode)

Configure the ID List settings.
The ID List can save up to 1000 IDs.

No.	Call Type	Alias Name	Prefix ID	ID	Tone
-	All				
1	All				
2	All				
...	...	...	...	...	...
998	All				
999	All				
1000	All				

1 Import/Export

Select "Import" or "Export" to import or export a CSV format file for the ID List.

Options:

- Import: Imports a maximum of 1000 NXDN Individual and Group IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported. Select a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 NXDN Individual and Group IDs. Select a folder to export the file into and enter a file name, and then click <Save>.

2 Call Type

Select the call type from All, Individual, or Group.

① "All" is selectable only for the number "-."

Only "Individual" or "Group" is selectable for the numbers 1 ~ 1000.

3 Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List Settings.

4 Prefix ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter a Prefix ID for the Trunking operation.

Range: 1 ~ 30

5 ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Trunking operation.

Range: 1 ~ 2000

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the Trunking mode)

ID List Settings (Site)					
Import/Export		Select...			
No.	Call Type	Alias Name	Prefix ID	ID	Tone
-					
1					
2					
998					
999					
1000					

6 Tone

Settable only when the Call Type is set to "Individual" or "Group."

Select the tone type that sounds when a Status, Message, or Call Alert call is received. (Default: Default)

Options:

- Default: The ringtone that is set in Ringer On Receive sounds. (⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-22)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (IDAS) mode)

In the RoIP Gateway (IDAS) mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	RoIP Gateway (IDAS) ▼
Beep/Ringer	
① Ringer On Receive	None ▼
② TOT Notice Beep	None ▼
③ TOT Beep	None ▼
Voice Codec	
④ Voice Codec	G.711u ▼
TOT	
⑤ TOT Timer (Sec)	180 ▼
Talk Back	
⑥ TalkBack Timer (Sec)	5 ▼

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- ① **Ringer On Receive** Rings when a call is received. (Default: None)
- ② **TOT Notice Beep** Rings 10 seconds before the Time-out Timer (TOT) expires. (Default: None)
- ③ **TOT Beep** Rings when a transmission exceeds the set time period and is forcibly stopped by the TOT. (Default: None)

Voice Codec

- ④ **Voice Codec** Select the voicec codec from "G.711u" or "AMBE+2." (Default: G.711u)
- ① When the Voice Codec is set to "G.711u," you cannot register IDs on the ID List Settings screen. (2-46)
- ① An optional CT-24 DIGITAL VOICE CONVERTER is required to use AMBE+2.

TOT

- ⑤ **TOT Timer (Sec)** Set the Time-out Timer (TOT). If a continuous transmission exceeds the set time period, it will be forcibly stopped. (Default: 180)
- Range: 0 ~ 255

Talk Back

- ⑥ **TalkBack Timer (Sec)** The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period.
- To disable the TalkBack function, set this item to "0." (Default: 5)
- Range: 0 (disabled) ~ 10

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (IDAS) mode)

Site Settings	
Site Name	Site
Mode	RoIP Gateway (IDAS)
Encryption	
7 Key ID	OFF
Unit Setting	
8 Prefix ID	
9 Unit ID	1
Network Setting	
10 Transmission Mode	Unicast
11 Network Adapter	
12 Destination Address	
13 Destination Port	24400
14 Source Port	24400
15 Multicast TTL	

Encryption

7 Key ID

Select an Encryption Key ID from the list. Select "OFF" to disable the Encryption function.

① Before you select a key ID, you must set the Encryption Key List for the Site on the "Encryption" screen. (p.2-45)

The Voice Encryption function makes the communication between the caller and the called stations private by using an Encryption Key and Key ID. The same Encryption Key and Key ID must be set in all stations to communicate. (Default: OFF)

Unit Setting

8 Prefix ID

Enter the Prefix ID for the RC-FS20's Unit ID in the Site.
Range: 1 ~ 30

① If the Unit ID is greater than "65535," this item cannot be set.

9 Unit ID

Enter the Unit ID of the RC-FS20 in the Site. (Default: 1)
Range: 1 ~ 65535 (When the Prefix ID is set)
1 ~ 9999999 (When the Prefix ID is not set)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (IDAS) mode)

Site Settings	
Site Name	Site
Mode	RoIP Gateway (IDAS)
Encryption	
7 Key ID	OFF
Unit Setting	
8 Prefix ID	
9 Unit ID	1
Network Setting	
10 Transmission Mode	Unicast
11 Network Adapter	
12 Destination Address	
13 Destination Port	24400
14 Source Port	24400
15 Multicast TTL	

Network Setting

- 10 Transmission Mode** Select a transmission mode from “Unicast” or “Multicast.”
(Default: Unicast)
- Options:
- Unicast: Transmits calls to a single, specific destination IP address.
 - Multicast: Transmits calls to a multicast group (multicast IP address).
- 11 Network Adapter** Select a network adapter for multicast transmission.
- 12 Destination Address** Enter the destination device’s IP address or domain name.
Usable characters: A to Z, a to z, 0 to 9, -, and.
- 13 Destination Port** Enter the destination device’s service port number.
- ① Be sure to set a different port number for each destination device. The port number setting of the RC-FS20 and the destination device should match.
- ① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (24400), Site No. 2 (24402), Site No. 3 (24404), Site No. 4 (24406),, Site No. 8 (24414)
Range: 1024 ~ 65535
- 14 Source Port** Set the port number of the RC-FS20 that accesses the destination device.
- ① Be sure to set a different port number for each destination device. The port number setting of the RC-FS20 and the destination device should match.
- ① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (24400), Site No. 2 (24402), Site No. 3 (24404), Site No. 4 (24406),, Site No. 8 (24414)
Range: 1024 ~ 65535
- 15 Multicast TTL** Settable only when the Transmission Mode is set to “Multicast.”
Set the Multicast Time-To-Live (TTL) value. (Default: 1)
Range: 1 ~ 255

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Encryption

■ Encryption (in the RoIP Gateway (IDAS) mode)

Configure the Encryption settings.

Encryption (Site 1)		
No.	Type ①	Encryption Key ②
00	Invalid	

- ① **Type** Displays the Encryption type that is automatically set to “Invalid” or “Scrambler,” depending on the length of the Encryption Key.
(Default: Invalid)
- ② **Encryption Key** Enter an Encryption Key of up to 5 characters.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the RoIP Gateway (IDAS) mode)

Configure the ID List settings.

The ID List can save up to 1000 IDs.

ID List Settings (Site)					
Import/Export ①		Select...			
No.	Call Type ②	Alias Name ③	Prefix ID ④	ID ⑤	Tone ⑥
-					
1					
2					
998					
999					
1000					

① Import/Export

Select "Import" or "Export" to import or export a CSV format file for the ID List.

Options:

- Import: Imports a maximum of 1000 NXDN Individual and Group IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported. Select a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 NXDN Individual and Group IDs. Select a folder to export the file into and enter a file name, and then click <Save>.

② Call Type

Select the call type from All, Individual, or Group.

① "All" is selectable for only the number "-."

Only "Individual" or "Group" is selectable for the numbers 1 ~ 1000.

③ Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List Settings.

④ Prefix ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Conventional operation.

Range: 1 ~ 30

⑤ ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Conventional operation.

Range: 1 ~ 65535 (When the Prefix ID is set)

1 ~ 9999999 (When the Prefix ID is not set)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ ID List Settings (in the RoIP Gateway (IDAS) mode)

ID List Settings (Site)					
Import/Export ①		Select...			
No.	Call Type ②	Alias Name ③	Prefix ID ④	ID ⑤	Tone ⑥
-					
1					
2					
998					
999					
1000					

⑥ Tone

Settable only when the Call Type is set to "Individual" or "Group."

Select the tone type that sounds when a Status, Message, or Call Alert call is received. (Default: Default)

Options:

- Default: The ringtone that is set in Ringer On Receive sounds. (⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-42)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (DCR) mode)

In the RoIP Gateway (DCR) mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	RoIP Gateway (DCR) ▼
Beep/Ringer	
① Ringer On Receive	None ▼
② TOT Notice Beep	None ▼
③ TOT Beep	None ▼
Voice Codec	
④ Voice Codec	G.711u ▼
TOT	
⑤ TOT Timer (Sec)	180 ▼
Talk Back	
⑥ TalkBack Timer (Sec)	5 ▼

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- ① **Ringer On Receive** Rings when a call is received. (Default: None)
- ② **TOT Notice Beep** Rings 10 seconds before the Time-out Timer (TOT) expires. (Default: None)
- ③ **TOT Beep** Rings when a transmission exceeds the set time period and is forcibly stopped by the TOT. (Default: None)

Voice Codec

- ④ **Voice Codec** Select the voicec codec from "G.711u" or "AMBE+2." (Default: G.711u)
- ① When the Voice Codec is set to "G.711u," you cannot register IDs on the ID List Settings screen. (2-52)
- ① An optional CT-24 DIGITAL VOICE CONVERTER is required to use AMBE+2.

TOT

- ⑤ **TOT Timer (Sec)** Set the Time-out Timer (TOT). If a continuous transmission exceeds the set time period, it will be forcibly stopped. (Default: 180)
Range: 0 ~ 255

Talk Back

- ⑥ **TalkBack Timer (Sec)** The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period.
To disable the TalkBack function, set this item to "0." (Default: 5)
Range: 0 (disabled) ~ 10

2 SITE SETTINGS

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (DCR) mode)

Site Settings	
Site Name	Site
Mode	RoIP Gateway (DCR)
Encryption	
7 Key ID	OFF
Unit Setting	
8 Unit ID	1
Network Setting	
9 Transmission Mode	Unicast
10 Network Adapter	
11 Destination Address	
12 Destination Port	24400
13 Source Port	24400
14 Multicast TTL	

Encryption

7 Key ID

Select an Encryption Key ID from the list. Select "OFF" to disable the Encryption function.

① Before you select a key ID, you must set the Encryption Key List for the Site on the "Encryption" screen. (p.2-51)

The Voice Encryption function makes the communication between the caller and the called stations private by using an Encryption Key and Key ID. The same Encryption Key and Key ID must be set in all stations to communicate. (Default: OFF)

Unit Setting

8 Unit ID

Enter the Unit ID of the RC-FS20 in the Site. (Default: 1)
Range: 1 ~ 60000

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the RoIP Gateway (DCR) mode)

Site Settings	
Site Name	Site
Mode	RoIP Gateway (DCR)
Encryption	
7 Key ID	OFF
Unit Setting	
8 Unit ID	1
Network Setting	
9 Transmission Mode	Unicast
10 Network Adapter	
11 Destination Address	
12 Destination Port	24400
13 Source Port	24400
14 Multicast TTL	

Network Setting

- 9 Transmission Mode** Select a transmission mode from “Unicast” or “Multicast.”
(Default: Unicast)
- Options:
- Unicast: Transmits calls to a single, specific destination IP address.
 - Multicast: Transmits calls to a multicast group (multicast IP address).
- 10 Network Adapter** Select a network adapter for multicast transmission.
- 11 Destination Address** Enter the destination device's IP address or domain name.
- 12 Destination Port** Enter the destination device's service port number.
- ① Be sure to set a different port number for each destination device. The port number setting of the RC-FS20 and the destination device should match.
- ① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (24400), Site No. 2 (24402), Site No. 3 (24404), Site No. 4 (24406),, Site No. 8 (24414)
Range: 1024 ~ 65535
- 13 Source Port** Set the port number of the RC-FS20 that accesses the destination device.
- ① Be sure to set a different port number for each destination device. The port number setting of the RC-FS20 and the destination device should match.
- ① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (24400), Site No. 2 (24402), Site No. 3 (24404), Site No. 4 (24406),, Site No. 8 (24414)
Range: 1024 ~ 65535
- 14 Multicast TTL** Settable only when the Transmission Mode is set to “Multicast.”
Set the Multicast Time-To-Live (TTL) value. (Default: 1)
Range: 1 ~ 255

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Encryption

■ Encryption (in the RoIP Gateway (DCR) mode)

Configure the Encryption settings.

Encryption (Site 1)		
No.	Type ①	Encryption Key ②
00	Invalid	

- ① **Type** Displays the Encryption type that is automatically set to “Invalid” or “Scrambler,” depending on the length of the Encryption Key.
(Default: Invalid)
- ② **Encryption Key** Enter an Encryption Key of up to 5 characters.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the RoIP Gateway (DCR) mode)

Configure the ID List settings.
The ID List can save up to 100 IDs.

ID List Settings (Site 5)				
Import/Export		Select...		
No.	Call Type	Alias Name	ID	Tone
-				
1				
2				
998				
999				
1000				

① Import/Export

Select "Import" or "Export" to import or export a CSV format file for the ID List.

Options:

- Import: Imports a maximum of 1000 NXDN Individual and Group IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported. Selects a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 NXDN Individual and Group IDs. Select a folder to export the file into and enter a file name, and then click <Save>.

② Call Type

Select the call type from All, Individual, or Group.

① "All" is selectable for only the number "-."

Only "Individual" or "Group" is selectable for the numbers 1 ~ 1000.

③ Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List Settings.

④ ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Conventional operation.

Range: 1 ~ 9999

⑤ Tone

Settable only when the Call Type is set to "Individual" or "Group."

Select the tone type that sounds when a Status, Message, or Call Alert call is received. (Default: Default)

Options:

- Default: The ringtone that is set in Ringer On Receive sounds. (⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-48)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

In the dPMR Mode2 mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Beep/Ringer	
1 Ringer On Receive (Individual Call)	None
2 Ringer On Receive (Group Call)	None
3 Ringer On Receive (All Call)	None
4 Over Ringer	None
5 TX R.T.T Beep	None
6 Clear Down Beep	None
7 TOT Notice Beep	None
8 TOT Beep	None
9 SDM Ringer	None

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- | | |
|---|---|
| 1 Ringer On Receive (Individual Call, Group Call, All Call) | Rings when an Individual, Group, or All call is received. (Default: None) |
| 2 Over Ringer | Rings when a call reception finishes. (Default: None) |
| 3 TX R.T.T Beep | Rings when the transceiver is ready to transmit a voice signal to avoid cutting off the beginning part of the signal. (Default: None) |
| 4 Clear Down Beep | Rings when a Clear down signal is received. (Default: None) |
| 5 TOT Notice Beep | Rings 10 seconds before the Time-out Timer (TOT) expires. (Default: None) |
| 6 TOT Beep | Rings when a transmission exceeds the set time period and is forcibly stopped by the TOT. (Default: None) |
| 7 SDM Ringer | Rings when a Message is received. (Default: None) |

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
CC	
8 RX CC	32
9 TX CC	32
TOT	
10 TOT Timer (Sec)	180
11 Penalty Time (Sec)	30
12 TOT Reset Timer (Sec)	0

CC

8 RX CC Set the CC for receiving calls. (Default: 32)
Range: 0 ~ 63

9 TX CC Set the CC for transmitting calls. (Default: 32)
Range: 0 ~ 63

TOT

10 TOT Timer (Sec) Set the Time-out Timer (TOT).
If a continuous transmission exceeds the set time period, it will be forcibly stopped. (Default: 180)
Range: 0 ~ 255 (seconds)

11 Penalty Time (Sec) Set the TOT Penalty time.
After the TOT expires, the Penalty Time starts and inhibits the user from transmitting for the set time period. (Default: 30)
Range: 0 ~ 255 (seconds)

12 TOT Reset Timer (Sec) Set the TOT Reset Timer time.
When releasing [PTT] before the TOT expires, the TOT Reset Timer starts. The TOT Timer will reset itself if the user does not push [PTT] again for the set time period. (Default: 0)
Range: 0 ~ 15 (seconds)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Talk Back	
13 TalkBack Timer (Sec)	5
14 RX Type	Normal
Broadcast Call	
15 RX	ON
SDM	
16 RX	OFF
17 Request Ack	OFF

Talk Back

13 TalkBack Timer (Sec)

The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period. (Default: 5)
Range: 5 ~ 30 (seconds)

14 RX Type

Select an option for the TalkBack function if the received call is a digital signal. (Default: Normal)

Options:

- Normal: The TalkBack function will be activated when a voice, Status, Message, or Call Alert call is received.
- Voice Only: The TalkBack function will be activated only when a voice call is received.

Broadcast Call

15 RX

Select whether to receive Broadcast calls on the RC-FS20. When this item is set to "OFF," the RC-FS20 will receive Broadcast calls as normal calls. (Default: ON)

SDM

16 RX

Select whether to receive Messages on Individual, Group, and All calls. "OFF" does not receive Messages. (Default: OFF)

17 Request Ack

Select whether to request a status acknowledgment from the target station. The Request Ack is not available for Group calls. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Stun	OFF
18 Stun	OFF
19 Status Number	0
Revive	ON
20 Revive	ON
21 Status Number	0
Kill	OFF
22 Kill	OFF
23 Status Number	0
Remote Monitor	OFF
24 Remote Monitor	OFF
25 Status Number	0
26 TX Timer (Sec)	60

Stun

18 **Stun** Select whether to transmit Stun commands. A Stun command remotely disables the transceiver. Transmitting a Revive command to a stunned transceiver is necessary to operate the stunned transceiver again.
(Default: OFF)

19 **Status Number** Select a Status Number to send when transmitting a Stun command.
(Default: 0)

Revive

20 **Revive** Select whether to transmit Revive commands. Transmitting a Revive command restores a stunned transceiver to normal operation.
(Default: ON)

21 **Status Number** Select a Status Number to send when transmitting a Revive command.
(Default: 0)

Kill

22 **Kill** Select whether to transmit Kill commands. A Kill command remotely disables the transceiver. The killed transceiver must be reprogrammed to operate the transceiver again.
(Default: OFF)

23 **Status Number** Select a Status Number to send when transmitting a Kill command.
(Default: 0)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Stun	OFF
18 Stun	OFF
19 Status Number	0
Revive	ON
20 Revive	ON
21 Status Number	0
Kill	OFF
22 Kill	OFF
23 Status Number	0
Remote Monitor	OFF
24 Remote Monitor	OFF
25 Status Number	0
26 TX Timer (Sec)	60

Remote Monitor

- 24 **Remote Monitor** Select whether to transmit Remote Monitor calls. Remote Monitor calls cause the target transceiver to transmit the audio from its microphone. (Default: OFF)
- 25 **Status Number** Select a Status Number to send when transmitting a Remote Monitor call. (Default: 0)
- 26 **TX Timer (Sec)** Set the time period so that the target transceiver transmits its microphone audio after receiving a Remote Monitor call. (Default: 60)
Range: 5 ~ 180 (seconds)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Scrambler	
27 Key ID	OFF
Common Setting	
28 Ack TX Delay [x100 (mSec)]	0
29 Ack RX Wait [x100 (mSec)]	26
30 Attempt No	5
31 Silence Timer [x80 (mSec)]	15
32 Wake-Up Header	8

Scrambler

27 Key ID

Select a Scrambler Key ID from the list. Select "OFF" to disable the Scrambler function. (Default: OFF)

① Before you select a key ID, you must set the Scrambler Key List for the Site on the "Scrambler" screen. (p.2-63)

Common Setting

28 Ack TX Delay [x100 (mSec)]

Set the time in seconds to delay sending an Acknowledgment signal after receiving a Status, Message, Call Alert, Radio Check, Stun, Kill, Revive, or Remote Monitor call. (Default: 0)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

29 Ack RX Wait [x100 (mSec)]

Set the Ack RX Wait timer period.
The RC-FS20 waits for the set time period after transmitting a call that requires an acknowledgment.
If no acknowledgment is received within the period, the RC-FS20 will retry the call according to the Attempt No setting. (Default: 26)
Range: 0 ~ 600 (0 ~ 60 seconds in 100 millisecond steps)

30 Attempt No

Set the maximum number of times the RC-FS20 transmits a call.
If no acknowledgment is received during the Ack RX Wait timer period, the RC-FS20 attempts to make the call for up to the set number of times. (Default: 5)
Range: 1 ~ 15)

31 Silence Timer [x80 (mSec)]

Set the amount of time lapse of an IDAS frame before a failure is declared. (Default: 15)
Range: 5 ~ 255 (×80 milliseconds in 80 millisecond steps)

32 Wake-Up Header

Set the number of dummy frames. (Default: 8)
Range: 0 ~ 15

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Unit Setting	
33 Unit ID	0000001
34 Group ID Start	0100000
Network Setting	
35 Destination Address	
36 TCP Port (Connection)	41200
37 UDP Port (Data)	41220
38 Receive Buffer Size (mSec)	240
39 Keycode	ucfr5000
40 Packet Encryption	OFF
41 Common Key	00000000

Unit Setting

- 33 Unit ID Enter the Unit ID of the RC-FS20 in the Site. (Default: 0000001)
 Range: 0000001 ~ 9999998
 ⓘ If this item is set to a value greater than the Group ID Start, the maximum value will be 1 less than the Group ID Start.
- 34 Group ID Start..... Enter the initial ID for the group IDs in the Site.
 The RC-FS20 uses IDs starting from the Group ID start as group IDs.
 Range: 0000002 ~ 9999999 (Default: 0100000)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
Unit Setting	
33 Unit ID	0000001
34 Group ID Start	0100000
Network Setting	
35 Destination Address	
36 TCP Port (Connection)	41200
37 UDP Port (Data)	41220
38 Receive Buffer Size (mSec)	240
39 Keycode	ucfr5000
40 Packet Encryption	OFF
41 Common Key	00000000

Network Setting

35 Destination Address

Enter the IP address or the domain name of the repeater in the Site. If no address or an invalid address is entered, the RC-FS20 cannot access the repeater.
Usable characters: A to Z, a to z, 0 to 9, -, and.

36 TCP Port (Connection)

Set the TCP port number of the repeater to access.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (41200), Site No. 2 (41201), Site No. 3 (41202), Site No. 4 (41203),, Site No. 8 (41207)
Range: 1024 ~ 65535

37 UDP Port (Data)

Set the UDP port number of the repeater to access.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (41220), Site No. 2 (41221), Site No. 3 (41222), Site No. 4 (41223),, Site No. 8 (41227)
Range: 1024 ~ 65535

38 Receive Buffer Size (mSec)

Set the buffer size to prevent the audio from breaking up. (Default: 240)
Range: 80 ~ 1200 (milliseconds in the 80 millisecond steps)

39 Keycode

Set a key code of up to 16 characters to connect to the repeater's network/controller board. (Default: ucfr5000)

40 Packet Encryption

Select whether to enable the RC-FS20 to encrypt packets. (Default: OFF)

41 Common Key

Set an 8 digit common key to encrypt the packets. (Default: 00000000)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8

■ Site Settings (in the dPMR Mode2 mode)

Site Settings	
Site Name	Site
Mode	dPMR Mode2
IP Command Setting	
42 Destination Address	
43 TCP Port	
44 Name	
45 Status Check Interval (Min)	10

IP Command Setting

42 Destination Address

Enter the IP address or the domain name of the repeater for an IP Command connection.
Usable characters: A to Z, a to z, 0 to 9, -, and.

43 TCP Port

Set the repeater's IP Command connection port number.
① Be sure to set a different port number for each repeater. The port number setting of the RC-FS20 and the repeater should match.
Range: 1024 ~ 65535

44 Name

Enter a repeater name of up to 12 characters for the Status Check.

45 Status Check Interval (Min)

Set the time period for the repeater's Status Check interval.
The RC-FS20 receives Repeater Status information (Power supply voltage, PLL Lock voltage, Temperature, and Fan status) in this interval.
Range: 0 ~ 60 (minutes in the 10 minute steps) (Default: 10)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Status Call

■ Status Call (in the dPMR Mode2 mode)

Configure the settings for the Status call operation.

The Status Call list can save up to 31 status messages.

Status Call		
No.	Text ①	Tone ②
0	Revive	None
1		None
2		None
29		None
30		None
31		None

① **Text**

Enter a message of up to 12 characters to display when a Status call is received.

② **Tone**

Select the tone type that sounds when a Status call is received.

(Default: None)

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > Scrambler

■ Scrambler (in the dPMR Mode2 mode)

Configure the Scrambler settings.

Scrambler (Site)		
No.	Type ①	Scrambler Key ②
00	Invalid	

- ① **Type** Displays the Scrambler type that is automatically set to “Invalid” or “Scrambler,” depending on the length of the Scrambler Key.
(Default: Invalid)
- ② **Scramble Key** Set a Scrambler Key of up to 5 characters.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 8 > ID List

■ ID List Settings (in the dPMR Mode2 mode)

Configure the ID List settings.

The ID List can save up to 1000 IDs.

No.	Call Type	Alias Name	ID	Tone
-				
1				
2				
8				
999				
1000				

1 Import/Export

Select "Import" or "Export" to import or export a CSV format file for the ID List.

Options:

- Import: Imports a maximum of 1000 NXDN Individual and Group IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported. Selects a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 NXDN Individual and Group IDs. Select a folder to export the file into and enter a file name, and then click <Save>.

2 Call Type

Select the call type from All, Individual, or Group.

① "All" is selectable for only the number "-."

Only "Individual" or "Group" is selectable for the numbers 1 ~ 1000.

3 Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List Settings.

4 ID

Settable only when the Call Type is set to "Individual" or "Group."

Enter an ID for the Conventional operation.

Range: 0000001 ~ 9999999

① All digits except for the first 3 digits can be replaced with asterisks (*) as wildcards. As an exception, you can enter an ID consisting of a single digit followed by 6 asterisks.

① You cannot enter an ID consisting of a single digit followed by 6 zeros.

5 Tone

Settable only when the Call Type is set to "Individual" or "Group."

Select the tone type that sounds when a Status, Message, or Call Alert call is received. (Default: Default)

Options:

- Default: The ringtone that is set in Ringer On Receive sounds. (⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-7)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)

In the WLAN mode site, the following setting items are displayed.

Site Settings	
Site Name	Site
Mode	WLAN
Beep/Ringer	
1 Ringer On Receive (Individual Call)	None
2 Ringer On Receive (Group Call)	None
3 Ringer On Receive (All Call)	None
4 Ringer On Receive (Telephone Call)	None
5 TOT Notice Beep	None
6 TOT Beep	None
7 Target Availability Check Success Beep	None
8 Target Availability Check Failure Beep	None
9 SDM Ringer	None

Beep/Ringer

Set the receiving ringtone for each Notification.

Options:

- None: No ringtone sounds.
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

- | | |
|---|---|
| <p>1 Ringer On Receive
 (Individual Call, Group Call, All Call, Telephone Call)</p> | <p>Rings when an Individual, Group, All, or Telephone call is received.
 (Default: None)</p> |
| <p>2 TOT Notice Beep</p> | <p>Rings 10 seconds before the Time-out Timer (TOT) expires.
 (Default: None)</p> |
| <p>3 TOT Beep</p> | <p>Rings when a transmission exceeds the set time period and is forcibly stopped by the TOT.
 (Default: None)</p> |
| <p>4 Target Availability Check
 Success Beep</p> | <p>Rings when the connection to the target transceiver succeeds.
 (Default: None)</p> |
| <p>5 Target Availability Check
 Failure Beep</p> | <p>Rings when the connection to the target transceiver fails.
 (Default: None)</p> |
| <p>6 SDM Ringer</p> | <p>Rings when a Message is received.
 (Default: None)</p> |

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)

Site Settings	
Site Name	Site
Mode	WLAN
TOT	
7 TOT Timer (Sec)	180
8 Penalty Time (Sec)	30
9 TOT on Telephone Call	ON
Talk Back	
10 TalkBack Timer (Sec)	5
Communication Method	
11 Communication Method	Full-Duplex

TOT

7 **TOT Timer (Sec)** Set the Time-out Timer (TOT). If a continuous transmission exceeds the set time period, it will be forcibly stopped. (Default: 180)
Range: OFF, 11 ~ 600

8 **Penalty Time (Sec)** Set the TOT Penalty time.
After the TOT expires, the Penalty Time starts and inhibits the user from transmitting for the set time period. (Default: 30)
Range: 1 ~ 30

9 **TOT on Telephone Call**..... Set the TOT function for the telephone call. Toggles between Enable and Inhibit. (Default: ON)

Talk Back

10 **TalkBack Timer (Sec)** The TalkBack function enables the RC-FS20 to automatically set the same call type as the received call when [PTT] is pushed before or during the TalkBack timer period.
To disable the TalkBack function, set this item to "0." (Default: 5)
Range: 0 (disabled) ~ 30

Communication Method

11 **Communication Method** ... Set the communication method between the Simplex and Full-Duplex modes. (Default: Full-Duplex)
Options:
• Simplex: Toggles the transmission (Talker) and reception (Listener) for communication.
• Full-Duplex: Simultaneously transmits and receives, like a telephone.

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)

Site Settings	
Site Name	Site
Mode	WLAN
Call Type Priority	
12 Call Type Priority	Telephone - All - Individual - Group
Target Availability Check	
13 Target Availability Check	ON
Transmit	
14 Number of Data Resend	1
15 Data Resend Wait Time (mSec)	1000

Call Type Priority

12 Call Type Priority

Select the priority levels of the Call types. After a call finishes and the transceiver returns to the standby mode, if it receives another call during the TalkBack timer, it accepts the call according to this priority setting. (Default: Telephone - All - Individual - Group)

① The setting values are shown below:

Call Type Priority	
Call Type Priority	Telephone - All - Individual - Group
Target Availability Check	Telephone - All - Individual - Group
Target Availability Check	Telephone - All - Group - Individual
Transmit	Telephone - Individual - All - Group
Number of Data Resend	Telephone - Individual - Group - All
Data Resend Wait Time (mSec)	Telephone - Group - All - Individual
Stun	Telephone - Group - Individual - All

Target Availability Check

13 Target Availability Check ...

Select whether to check the success of the connection to the target transceiver after a call. (Default: ON)

① If the Target Availability Check Success Beep or Target Availability Check Failure Beep is set to anything other than "None," the Success Tone or Failure Tone sounds to indicate the connection status.

(⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer) (p.2-65)

Transmit

14 Number of Data Resend ...

Select the number of times to resend the data between 1 and 10. (Default: 1)

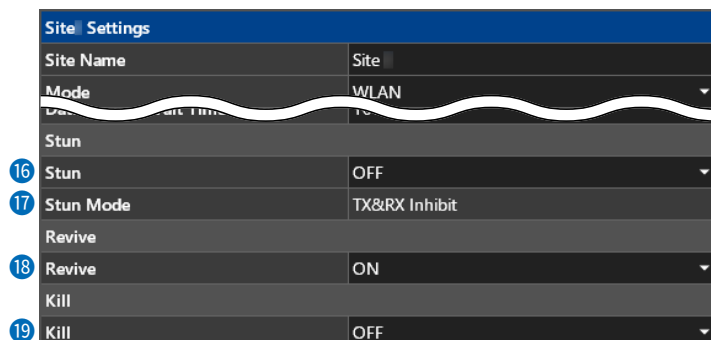
15 Data Resend Wait Time (mSec)

Select the wait time to resend the data. (Default: 1000)
Range: 500 ~ 2000 (milliseconds in 100 millisecond steps)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)



Stun

16 Stun

Select whether to transmit Stun commands. A Stun command remotely disables the transceiver. Transmitting a Revive command to a stunned transceiver is necessary to operate the stunned transceiver again.
(Default: OFF)

17 Stun Mode

Select the capabilities of the stunned transceiver. (Default: TX Inhibit)
Options:
• TX Inhibit: Inhibits the stunned transceiver from transmitting.
• TX&RX Inhibit: Inhibits the stunned transceiver from transmitting and receiving.

Revive

18 Revive

Select whether to transmit Revive commands.
Transmitting a Revive command restores a stunned transceiver to normal operation.
(Default: ON)

Kill

19 Kill

Select whether to transmit Kill commands.
A Kill command remotely disables the transceiver. The killed transceiver must be reprogrammed to operate the transceiver again. (Default: OFF)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)

Site Settings	
Site Name	Site
Mode	WLAN
Remote Monitor	
20 Remote Monitor	OFF
21 TX Timer (Sec)	20
22 Remote Monitor Mode	Normal
Unit Setting	
23 Tenant ID	1
24 Unit ID	1
25 Password	iptrx

Remote Monitor

20 Remote Monitor

Select whether to transmit Remote Monitor calls. Remote Monitor calls cause the target transceiver to transmit the audio from its microphone.
(Default: OFF)

21 TX Timer (Sec)

Set the time period so that the target transceiver transmits its microphone audio after receiving a Remote Monitor call. (Default: 20)
Range: 1 ~ 255

22 Remote Monitor Mode

Select the status of the target transceiver's indicator while transmitting its microphone audio after receiving a Remote Monitor call.
(Default: Normal)

Options:

- Normal: The receiving transceiver's Status indicator lights while transmitting.
- Silent: The receiving transceiver's Status indicator does not light while transmitting.

Unit Setting

23 Tenant ID

Select a tenant ID between 1 and 10 to virtually separate the operating equipment.
(Default: 1)
Range: 1 ~ 10

24 Unit ID

Enter a unit ID between 1 and 60000. (Default: 1)
Range: 1 ~ 60000

25 Password

Enter a password of up to 12 characters. (Default: iptrx)
Usable characters: A to Z, a to z, 0 to 9,
! " # \$ % & ' * () - + . , ? _ < > @ ` ~ ^ { } [] ; :

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32

■ Site Settings (in the WLAN mode)

Site Settings	
Site Name	Site
Mode	WLAN
Network Setting	
26 Server Address	
27 Source Port Number	30000
28 Server Port Number	30000
29 Registration Interval (Sec)	60
30 Receive Buffer Size (mSec)	40

Network Setting

26 Server Address

Enter the IP address or the domain name of the Controller that the RC-FS20 accesses.
If no address or an invalid address is set, the RC-FS20 cannot access the Controller.
Usable characters: A to Z, a to z, 0 to 9, -, and.

27 Source Port Number

Enter either the server port number set on the Controller or a desired port number.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (30000), Site No. 2 (30002), Site No. 3 (30004), Site No. 4 (30006),, Site No. 32 (30062)
Range: 1 ~ 65535

28 Server Port Number

Enter a port number (UDP port) that the Controller will use to communicate with the WLAN transceivers.
① The default number differs, depending on the Site No., as shown below.
Default: Site No. 1 (30000), Site No. 2 (30002), Site No. 3 (30004), Site No. 4 (30006),, Site No. 32 (30062)
Range: 1 ~ 65535

29 Registration Interval (Sec)

Enter the transmit interval for the registration information that the WLAN transceivers will use. (Default: 60)
Range: 30 ~ 300

30 Receive Buffer Size (mSec)

Set the buffer size to prevent the audio from breaking up. (Default: 40)
Range: 20 ~ 300 (milliseconds in 20 millisecond steps)

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32 > ID List

■ ID List Settings (in the WLAN mode)

Configure the ID List settings.

ID List Settings (Site)					
Import/Export ①		Select...			
No.	Call Type ②	Alias Name ③	Group Priority ④	ID ⑤	Tone ⑥
—	▼				
1	▼				
999	▼				
1000	▼				

① Import/Export

Import or export the Individual, Group, and Telephone IDs.

Options:

- Import: Imports a maximum of 1000 WLAN Individual, Group, and Telephone IDs. The imported IDs are added to the ID List. While importing, if the IDs exceed 1000, the remaining IDs are not imported.
Select a setting file (format: .csv), and then click <Open>.
- Export: Exports a maximum of 1000 WLAN Individual, Group, and Telephone IDs. The exported IDs are saved in a CSV file. Before exporting, enter the Individual, Group, and Telephone IDs in the ID List.
Select a folder to export the file into and enter a file name, and then click <Save>.

② Call Type

Select the call type from “All,” “Individual,” “Group,” or “Telephone.”

① “All” is selectable for only the number “—.”

Only “Individual,” “Group,” or “Telephone” is selectable for the numbers 1 ~ 1000.

③ Alias Name

Settable only when the Call Type is selected.

Enter an alias name of up to 16 characters.

① You can display the text instead of the ID number when an All call or the matched ID (Individual, Group, or Telephone) signal is received. If there is an empty, the transceiver displays the ID depending on the ID List settings.

④ Group Priority

Settable only when the Call Type is set to “Group.”

Select “Normal” or “High” to set the priority in the Group call.

⑤ ID

Settable only when the Call Type is set to anything other than “All.”

Enter an ID for the WLAN operation.

The ID list can save up to 1000 IDs.

① When the Call Type is set to “Telephone,” an ID of up to 31 characters can be set.

Range: 0 ~ 99999

Site Settings

⚙️ > Option > Setting > Site Settings > Site 1 ~ 32 > ID List

■ ID List Settings (in the WLAN mode)

Configure the ID List settings.

ID List Settings (Site)					
Import/Export ①		Select...			
No.	Call Type ②	Alias Name ③	Group Priority ④	ID ⑤	Tone ⑥
1	▼				
2	▼				
999	▼				
1000	▼				

⑥ Tone

Settable only when the Call Type is set to anything other than "All."
Select the tone type that sounds when a matched ID is received.

(Default: Default)

Options:

- Default: The ringtone that is set in the Ringer On Receive sounds.
(⚙️ > Option > Setting > Site Settings > Site No. > Beep/Ringer > Ringer On Receive) (p.2-65)
- Tone 1 ~ 3: The selected ringtone sounds.
- Custom 1 ~ 10: A custom ringtone sounds. You can set the custom tones on the "Custom Beep" screen. (p.1-4)

