JRC Launcher V2 Operation Manual

29 Mar. 2011, Revision 1.9

Japan Radio Co., Ltd.

Contents

1. INTRODUCTION

1.1. What is JRC Launcher V2?

JRC Launcher V2 is Windows application to communicate by using various operations of BGAN terminal JUE-250/500. As a rule, the function that corresponds to FB500 OIU-WEB is installed. However this Launcher cannot set route information and JRC LAN. Moreover, when FB250 is connected, a special function only for FB500 cannot be used.

The table for the function based on JRC Launcher V2 is shown below.

1.2. Function Table

Comparison between JRC Launcher V2(V2), OIU-WEB and LaunchPad is shown below.

Table 1 Function comparison Table (1/2)

No	Function	V2	WEB	LP	Description
1	Whole display	O	O	△	A thing always displayed.
2	Display during PS communication	O	O	O	It displays while PS communication.
3	Display during CS communication	O	O	×	It displays while CS communication.
4	SMS newly arrived notification	O	O	O	This notifies SMS newly arrived. (*1)
5	Receiving level display	O	O	O	Current receiving status (Signal Quality) is displayed.
6	System version display	O	O	O	The system version SYSXX.YY is displayed.
7	Log-in	O	O	×	The user who registered with WEB is authenticated.
8	MES CONT	O	O	△	This clears the state display, Heading (Only at GYRO) of each device, and the satellite search and the TX alarm.
9	PHONE BOOK	O	△	O	Reading, writing and deleting are possible. WEB can be operated up to 100, and it is possible to operate with all SIM excluding this.
10	CALL LOG	O	O	×	Display, deletion, and FILE output of the call log are possible.
11	SELF TEST	O	O	×	The connection state of ADE and HS is displayed.
12	ALARM PACK	O	O	×	Alarm history, existing state, Version of each device, and serial No are displayed.
13	STANDARD CONNECTION(*2)	O	O	△	STANDARD connection is carried out. Also V2 and WEB can make Standard IP connection for other terminal. Moreover, the connection state at the other terminal can be displayed, and it can be disconnected.
14	STREAMING CONNECTION(*2)	O	O	△	STREAMING connection is carried out. Also V2 and WEB can make Streaming IP connection for other terminal. Moreover, the connection state at the other terminal can be displayed, and it can be disconnected.
15	SMS	O	O	O	Making SMS, transmitting, saving, receiving are possible.
16	SETUP	O	O	×	This sets the entire device.
17	PORT CONTROL	O	O	×	This sets Handset and TEL1/TEL2.
18	PORT	△	O	×	This sets ISDN, Handset, and Ethernet.
19	MSN setting	O	O	×	This sets MSN.
20	Handset setting	O	O	×	This sets Handset dimmer etc.
21	Main unit IP setting	O	O	×	This sets main unit IP.(*3)
22	RAS setting	×	O	×	This sets validity/invalidity of RAS and IP.
23	Routing setting	×	O	×	This sets routing.

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Table 2 Function comparison Table (2/2)

No	Function		V2	WEB	LP	Description
24	USER		O	O	×	This executes the user's registration and deletion. Also this can define a usable communication setting (APN Profile) and permission setting to controlling other terminals connection to each user. It uses also for the No.7 Log-in.
25	AUTO DISCONNECT		O	O	×	This sets the time automatically cut.
26	SIM MENU		O	O	O	This changes the state display of SIM, PIN and PIN input.
27	NETWORK		O	O	×	This sets PS communication setting: APN Profile and Packet filter.
28		APN Profile	O	O	×	This registers APN/Username/Password/Global IP setting
29		Packet filter	O	O	×	This executes the packet filter's registration and deletion.
30		Packet Detection Activate	O	O	×	This sets automatic PS connecting function that uses outgoing packet detection.
31		Always Activate	O	O	×	This sets automatic PS connecting function that keeps the connection active.
30	OPTION		O	O	×	This sets buzzer, button, TEL3-6, external GPS, and VDR.
31	EXPORT		O	O	×	This saves a set value in the external file. (*4)(*5)
32	IMPORT		O	O	×	This returns the main unit a set value in which EXPORT is done. (*3)(*4)

(*1) This is displayed only when new arriving on while the application is starting. (*2) Some of the function will be restricted by the user authorization. (*3) When main unit IP is changed, it is disconnected once. (*4) There is six kinds of data that EXPORT can do about SETUP/PORT CONTROL/PORT/USER /AUTO DISCONNECT/OPTION/NETWORK. (*5) It is not compatible in data to which EXPORT is done with JRC Launcher V2 and data to which EXPORT is done with OIU-WEB. Please do IMPORT with each tool that did EXPORT.

O shows "available". △ shows "partial available". × shows "not available".

1.3. Related Document

Please refer to the operation manual of JUE-250 or JUE-500 used for details of the explanation of the term and the function of the main unit.

1.4. Operation Environment

JRC Launcher V2 operates by the following OS: an English version and a Japanese version of Windows XP / Windows Vista and Windows 7 32-bit.

- Windows XP (SP3) 32-bit English
- Windows XP (SP3) 32-bit Japanese
- Windows VISTA (SP2) 32-bit English
- Windows VISTA (SP2) 32-bit Japanese
- Windows 7 32-bit English
- Windows 7 32-bit Japanese

Also JRC Launcher V2 needs XGA (1024x768) resolution display or more higher because the application window size can not be resized.

And JUE-250/500 must be upgraded to use the latest JRC Launcher V2.

Table 3 JRC Launcher V2 version requirement about JUE-250/500 version

	JUE-250	JUE-500
JRC Launcher V2.0.3.2	SYS01.22or SYS01.23	SYS11.33 or SYS11.34
JRC Launcher V2.0.4.3	SYS01.26	–
JRC Launcher V2.0.4.6	–	SYS11.38
JRC Launcher V2.0.4.8	SYS01.27 or later	SYS11.39 or later

SYS version can be checked from the Handset menu by following operation.
   <1> Status - <5> Unit Info - <2> Mainte No.- SYS

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1.5. TCP Port Number

JRC Launcher V2 uses TCP port 1829 and 1840 of the Main unit.

1.6. Configuration File

JRC Launcher V2 is composed of the following files.

Table 4 Configuration File

File Name	Description
JRCLauncherV2.exe	Main unit of JRCLauncherV2
*.conf	Various settings are saved in the file. If this is not, it operates by the default value, and when setting, it is generated automatically.

2. SETTING UP

This chapter explains how to set up JRC Launcher V2.

2.1. Upgrade

Upgrade the BGAN terminal if the SYS version does not meet the Operation Environment needs.

2.2. Install

A suitable directory is made, and JRCLauncherV2.exe is put.

2.3. Start-up

JRCLauncherV2.exe is executed.

2.4. Initial Setting

It is not necessary in usual use.

Especially, please set it on each screen when it is necessary.

2.5. Uninstall

Each directory made when installing is deleted.

Because the registry is not used, uninstallation is completed by this.

3. USING JRC Launcher V2

JRCLauncherV2.exe is executed.

3.1. Log-in

After JRC Launcher V2 is started, the following log-in screens are displayed first.

When the User name and the Password are input, and it succeeds in the authentication, the function corresponding to the user authentication level can be used. Put a check to save the Password.

The default user name and password is "ADMIN" and "0001". In USER Screen (refer to 6.13. USER Screen), the user name and the password can be changed and be added by the setting of "USER" and "CODE" of that menu. In the initial state, it tries to connect with IP address **192.168.128.100** of the main unit. If IP address of the main unit has been changed, it is necessary to specify the IP address.
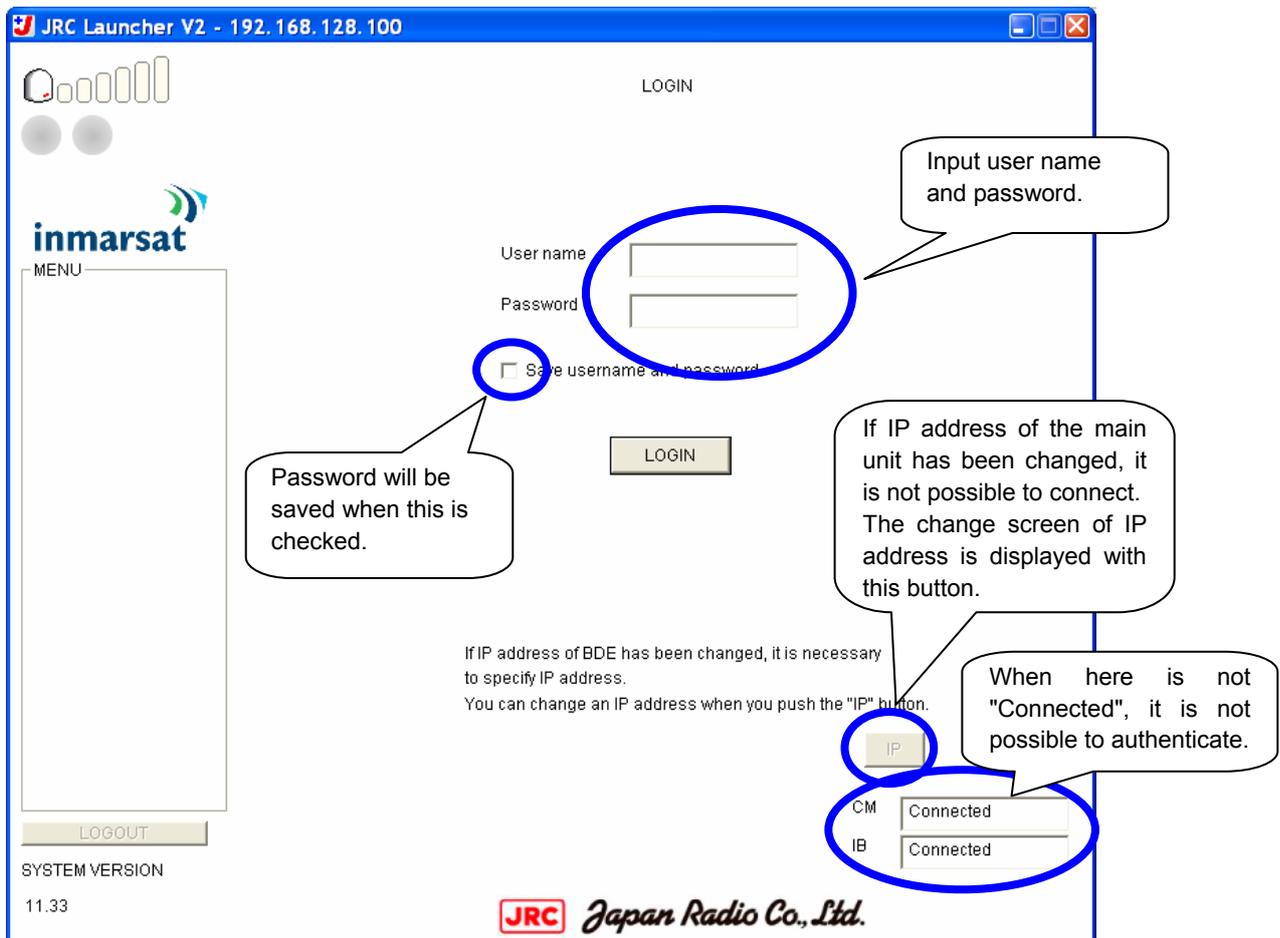

Fig. 1 Log-in Screen

When authentication fails, POPUP windows will be displayed, confirm User name and Password. (Refer to 11. FAQ)

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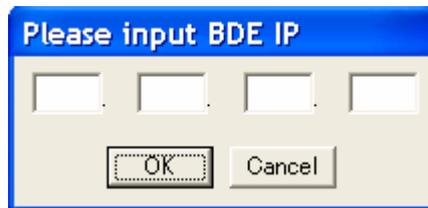
Fig. 2 IP Specified Screen

When IP address of main unit has been changed, it is necessary to specify the IP for JRC Launcher. When the IP button is pushed, the dialog of Fig.2 is displayed. Then, after it changes, IP of the main unit is specified.

If the both: IB and CM connected display of lower right is not "**Connected**", log-in cannot be done. Please confirm the following items when not becoming "**Connected**" even if it waits by about 10 seconds.
- Is the power supply of main unit turning on?
- Is main unit connected with LAN cable?
- Is not IP of main unit changed?

The MES CONT screen opens as follows when succeeding in the authentication.
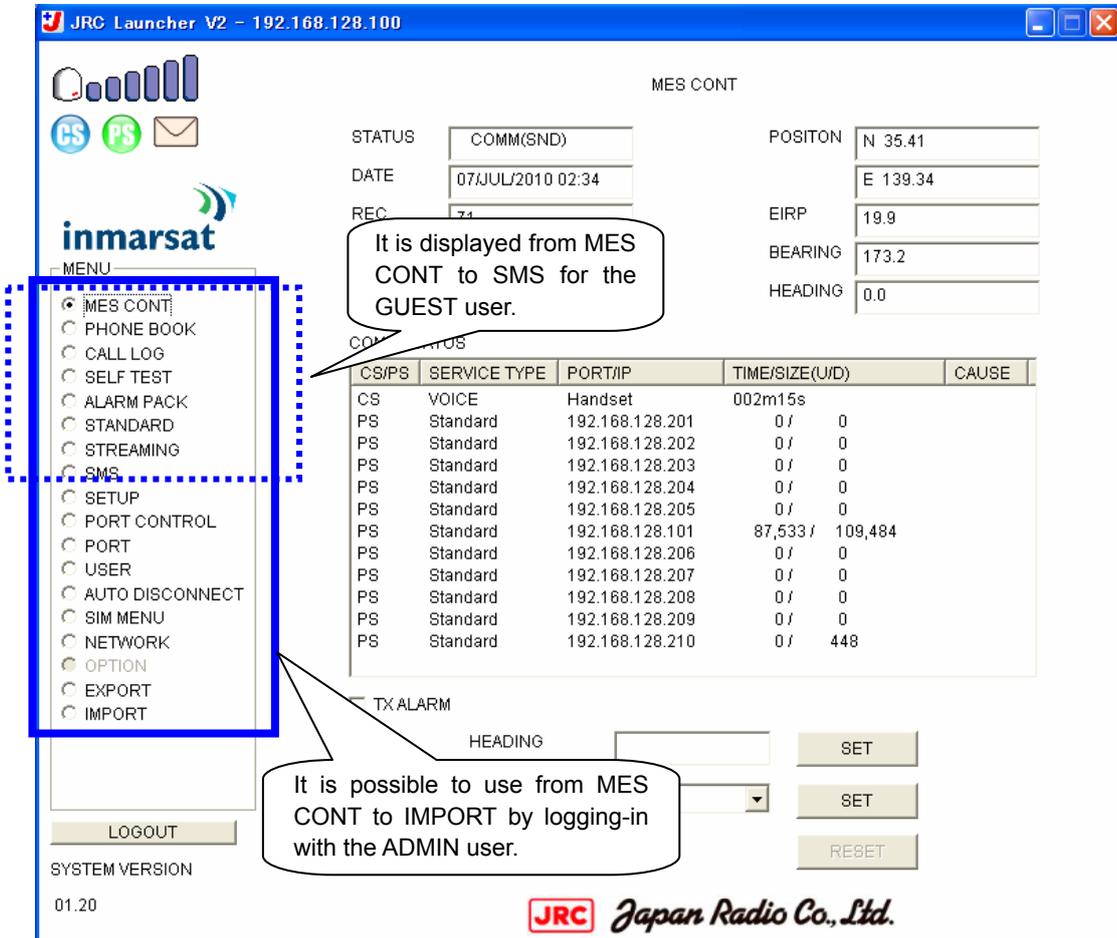

Fig. 3 Log-in Success

3.2. <u>Log-out</u>

It logs out when the **LOGOUT** button under the MENU screen is pushed, and it returns to the log-in screen.

At that time, if the connection by own terminal IP address has remained, the dialog that confirms whether to disconnect or to continue is displayed.

4. OBSERVING DEVICE CONDITION

The display of the device condition always includes the display and each screen display.

The typical device condition that can be referred with JRC Launcher V2 is shown below, and it explains each screen where they are displayed.

Table 5 Outline in Device Condition that can be referred with JRC Launcher V2

No	Condition	Description	Displayed Screen
1	System version	The version of the system is always displayed.	Display always ALARM PACK
2	Each serial No	IMEI, JRC No	ALARM PACK
3	Receiving level	Signal Quality is always displayed by the bar display. The REC level is displayed with MES CONT and ALARM PACK.	Display always MES CONT ALARM PACK
4	CS communication condition	This always displays having communication or not with an icon. The content of the type and time, etc. is displayed with MES CONT.	Display always MES CONT
5	PS communication condition	This always displays having communication or not with an icon. The type and the terminal IP are displayed with MES CONT. The display to CID/APN used is displayed with STANDARD CONNECTION and STREAMING CONNECTION.	Display always MES CONT STANDARD STREAMING
6	Newly arrived SMS	A newly arrived having is always displayed with the icon.	Display always
7	TX alarm	The generation of the TX alarm is displayed with MES CONT. The generation alarm is displayed with ALARM PACK. (OFF PWR, HIGH PWR, BURST are TX alarm)	MES CONT ALARM PACK
8	Device status	The device status (Correspond to the lower display of Handset) is displayed with MES CONT.	MES CONT
9	Present date and time	Present date and time are displayed with MES CONT and ALARM PACK. ※Accuracy (update interval) is Windows clock < MES CONT < ALARM PACK.	MES CONT ALARM PACK
10	Present position	Present position is displayed with MES CONT and ALARM PACK.	MES CONT ALARM PACK
11	Satellite used	The satellite being used now (or, searching) is displayed with MES CONT and ALARM PACK.	MES CONT ALARM PACK
12	SIM PIN	The state of PIN and the remaining input times are displayed to SIM MENU.	SIM MENU
13	Others	Additionally, each condition is above-mentioned displayed in the display.	Refer to above

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5. COMMUNICATING

In JRC Launcher V2, the Standard connection and the Streaming connection can be done.

ADMIN user can restrict Standard/Streaming IP connection operation against each user.

(Refer to 6.13 USER screen)

5.1. Standard IP connection

5.1.1. How to browse a internet web page by Standard IP connection

First of all, to execute the Standard connection, "**STANDARD**" is selected from a left menu.

The STANDARD CONNECTION screen is displayed.
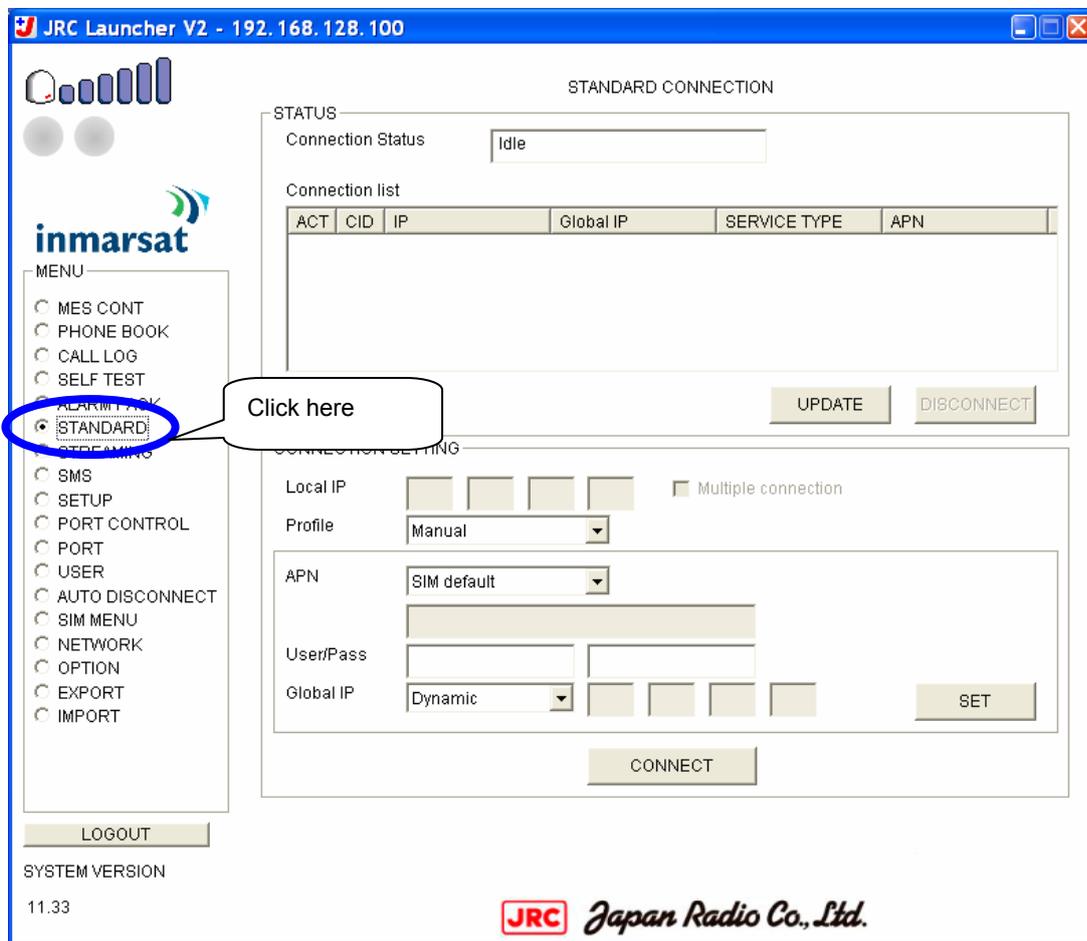
Fig. 4 STANDARD Screen

Second, confirm Multiple-connection checkbook is unchecked.

Third, defined APN settings.

Select "SIM default", "Network assigned", "User defined" from APN menu. "User defined" allows manual APN name input to textbox. "SIM default" automatically uses the default settings in SIM card.

Fourth, defined Username and Password.

Input Username and Password if it was informed and input was required from SIM card service provider. (This is not the same Username and Password to log in JRC Launcher V2.)

Fifth, defined Global IP address setting.

Select "Dynamic" or "Static" from Global IP menu. "Static" allows defining Global IP address to assign when Standard IP connection was established. Select "Static", if Global IP was informed and input was required from SIM card service provider.

Sixth, connect Standard IP connection

Push Connect button. JUE-250/500 will try to establish Standard IP connection by using the defined settings.

Standard IP connection succeed, can be confirmed from Connection status shown at the upper position. Connection status will change to: Idle – Connecting – Connected. And "CONNECT" button will turn to "DISCONNECT" button.

Seventh, browse internet web page

Eighth, disconnect Standard IP connection

Push this "DISCONNECT" button at the bottom.

Standard IP disconnection succeed, can be confirmed from Connection status shown at the upper position. Connection status will change to: Disconnecting –Idle. And "DISCONNECT" button will go back to "CONNECT" button.

5.2. Connecting by Streaming IP connection

5.2.1. Introduction

First of all, to execute the Streaming connection, " **STREAMING** " is selected from a left menu.

The STREAMING CONNECTION screen is displayed.

A difference with STANDARD CONNECTION is only having RATE item or not of the SETTING column. The connection method and the disconnection method are similar to "5.1 Connecting by Standard" and refer to that, please.

5.2.2. Difference with Standard Connection

RATE sets desired communication rate (Desired) and minimum communication rate (Minimum) that can be allowed.

It is only JUE-500 to be able to select 256K though both ranges are 8K-256K.

Moreover, it should be Minimum≦Desired. (Automatically correct it.)
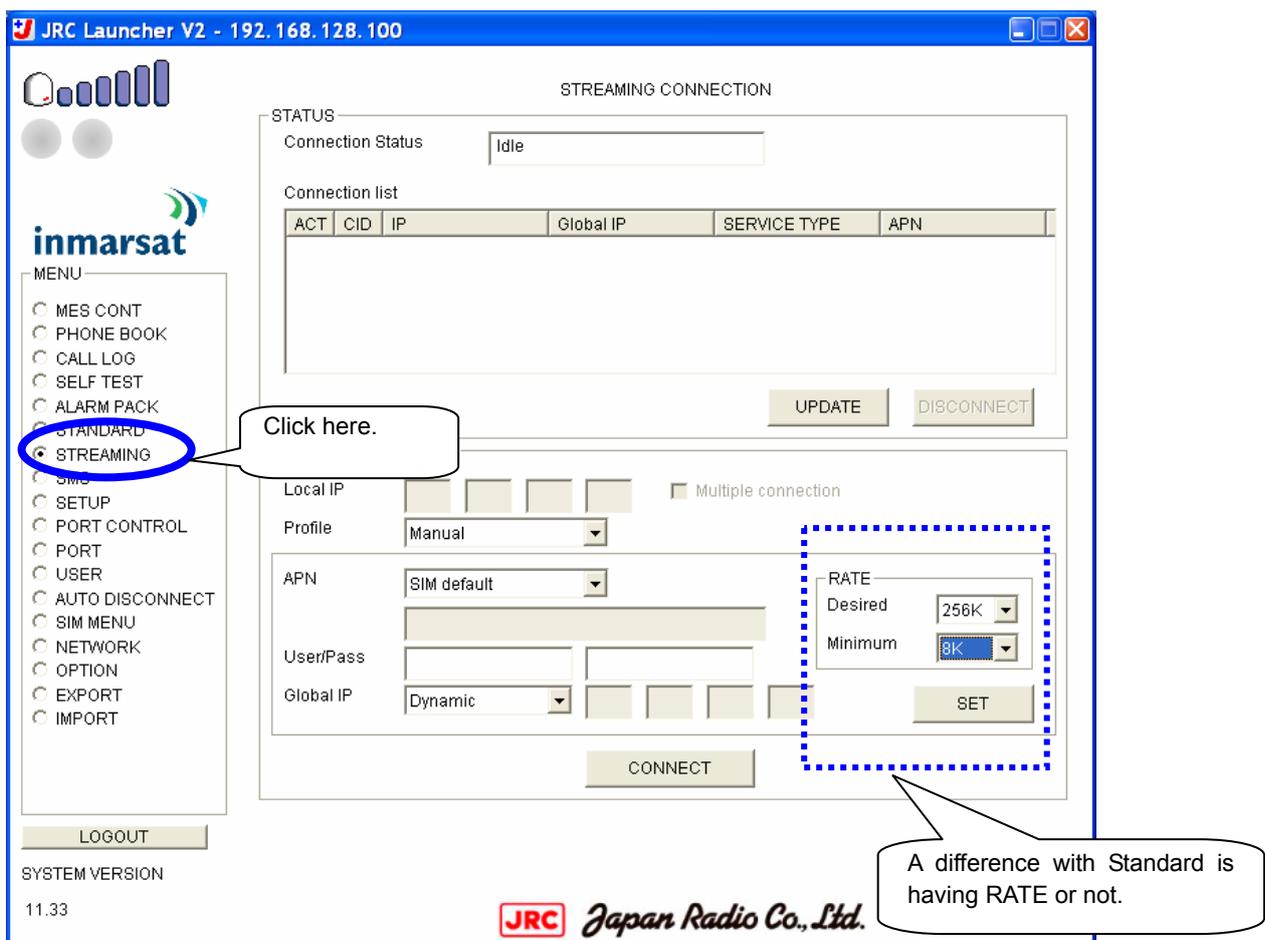
Fig. 5 STREAMING Screen

6. DETAILS OF EACH SCREEN

A detailed explanation of each screen of JRC Launcher V2 is described as follows.

6.1. Commonness

The left side and the lower side on the screen are common in all screens.
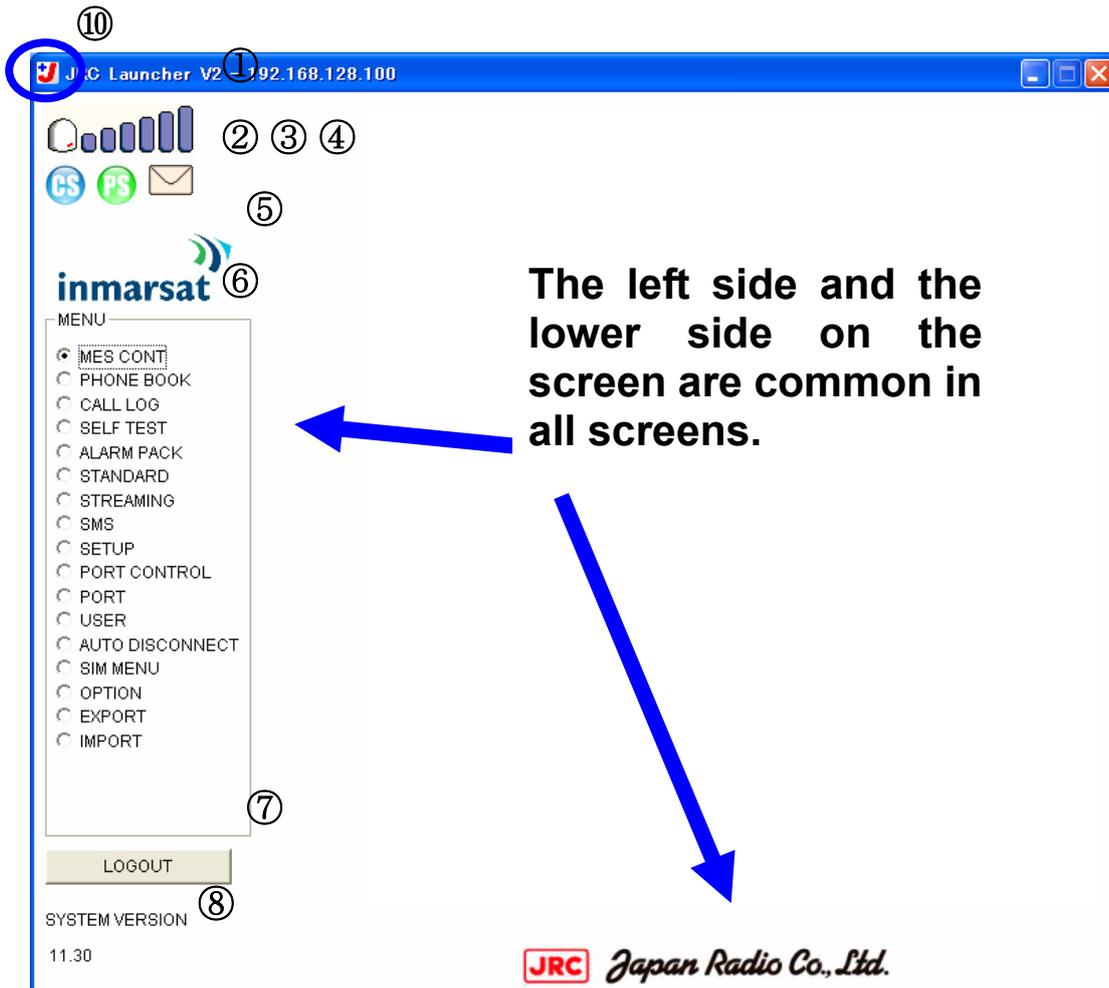
Fig. 6 Common Screen

Table 6 Common Screen Items

No	Item	Description
1	REC Bar	Six bars on the upper left show the reception level. The maximum is 6. It is possible to communicate with stability from 3.
2	CS Icon	This is an icon shown while CS communication.
3	PS Icon	This is an icon shown while PS communication.
4	SMS Newly Arrived Icon	This is an icon that shows newly arrived SMS.
5	Inmarsat Logo	This is a logo mark.
6	MENU	This is a screen selection menu. The display item changes by the authority of the user who logged in.
7	LOGOUT Button	This is a log-out button.
8	SYSTEM VERSION	This displays the system version of the main unit.
9	JRC Logo	This is a logo mark.
10	Icon	This shows JRC Launcher V2 software version by clinking this icon and selecting "about JRCL".

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6.2. MES CONT Screen

The MES CONT screen displays the state of the device often referred to.

Moreover, the setting of heading value (GYRO only operates), the satellite selection and the TX alarm clear can be done.
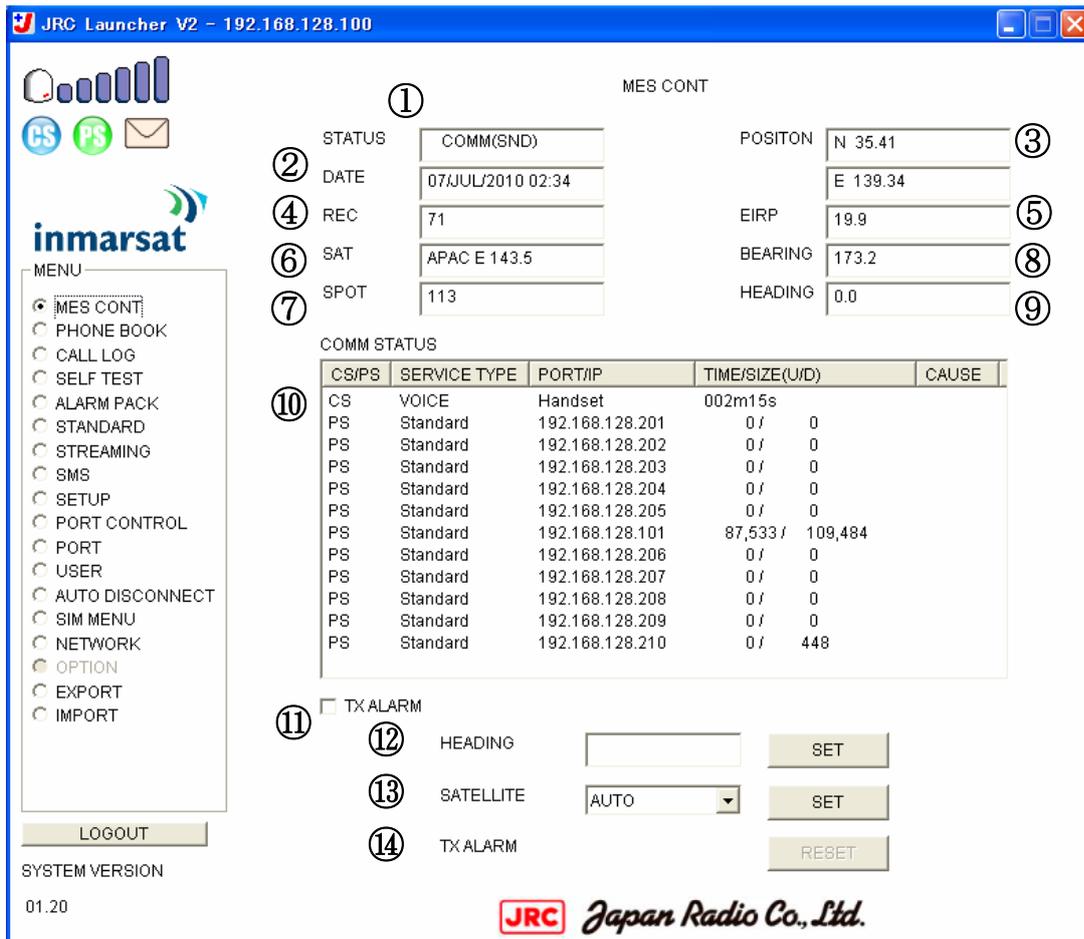
Fig. 7 MES CONT Screen

Table 7 MES CONT Screen Items

No	Item	Description
1	STATUS	This displays the device status. It is equal to the lower display of the handset.
2	DATE	This displays the time of the device. The alarm packing and the call log are saved at this time.
3	POSITION	This displays the position information of the ship.
4	REC	This displays the receiving level.
5	EIRP	This displays the transmitting power level.
6	SAT	This displays the satellite being used now (Or search).
7	SPOT	This displays spot beam No being received now.
8	BEARING	This displays the bearing value.
9	HEADING	This displays the heading value. (GYRO only operates.)
10	COMM STATUS	This displays information on the communication at present.
11	TX ALARM	When the TX alarm is generated, the check mark is displayed.
12	HEADING Setting	The heading value is set. The range that can be set is 0-359. (GYRO only operates.)
13	Satellite Selection	The satellite that can be selected from the pull-down menu at present is selected. The satellite that seems to be the best the device when AUTO is selected it is automatically selected.
14	TX Alarm Clear	When the TX alarm is generated, it is cleared.

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6.3. PHONE BOOK Screen

The PHONE BOOK screen displays the phone book saved on SIM card.

The phone book is newly made, edited, and can be deleted.

Moreover, the list of the phone book can be saved in the file.
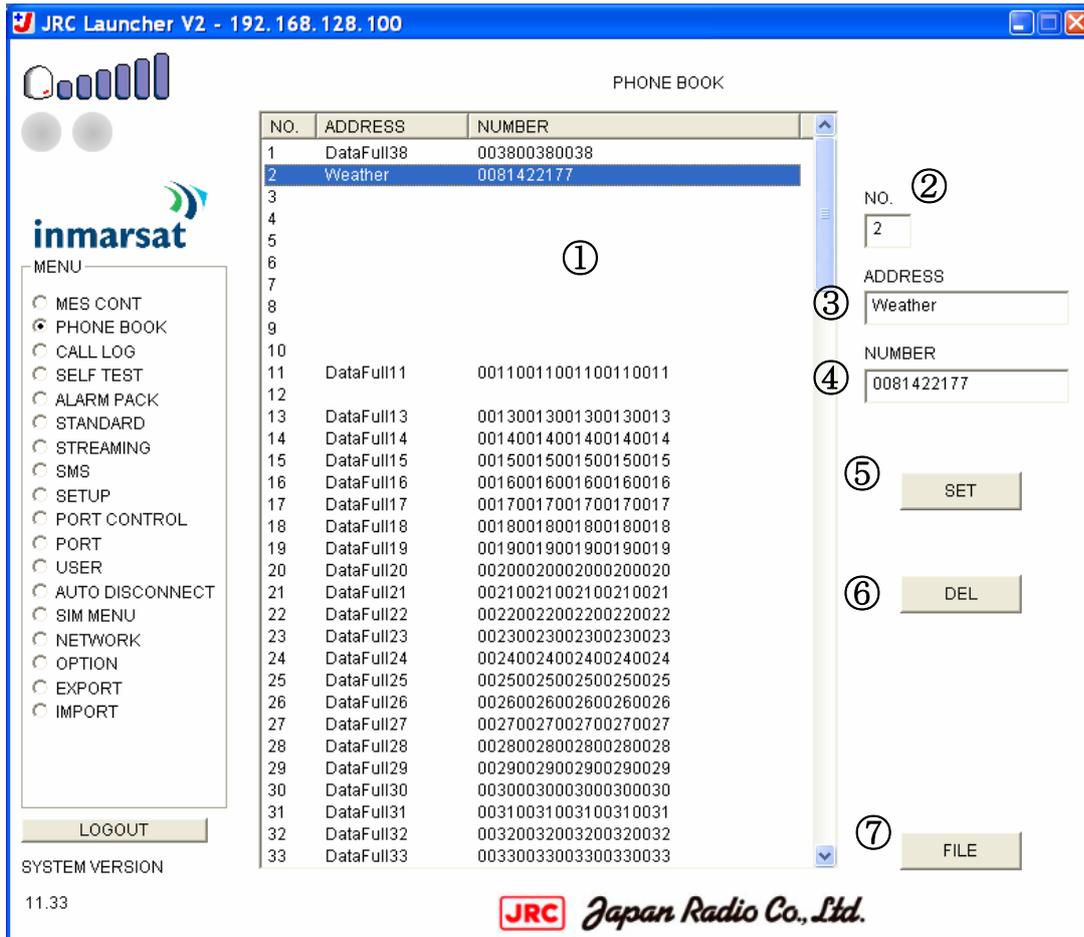
Fig. 8 PHONE BOOK Screen

Table 8 PHONE BOOK Screen Items

No	Item	Description
1	Phone Book List	The list of the phone book saved on SIM card is displayed. In JRC Launcher V2, 254 or less can display/edit in SIM card. However, the number that can be referred from Handset and OIU-WEB is from the top to 100 cases Please save the phone book used with Handset and OIU-WEB from the top to 100 cases.
2	NO.	This displays NO. selected by the phone book list. (It is not possible to edit.)
3	ADDRESS	This displays ADDRESS of NO. selected by the phone book list. It is possible to edit. ADDRESS can be input up to ten characters or less.
4	NUMBER	This displays NUMBER of NO. selected by the phone book list. It is possible to edit. NUMBER can be input up to 20 digits or less.
5	SET Button	The edit result is saved on SIM card.
6	DEL Button	The phone book of selected NO. is deleted.
7	FILE Button	The phone book list is saved in the file.

6.4. <u>CALL LOG Screen</u>

The CALL LOG screen displays the call log preserved in the main unit.

Push the DISP button after selecting SERVICE TYPE and COMM (RECV/SEND/BOTH). The specified call log can be displayed. The content of the display can be saved in the file.

All the call logs (all SERVICE TYPE and all directions) can be deleted by doing ALL CLEAR.

It is possible to sort it by the item by clicking the item name of the list. Ascending order and the descending order are replaced in turn whenever clicking it.
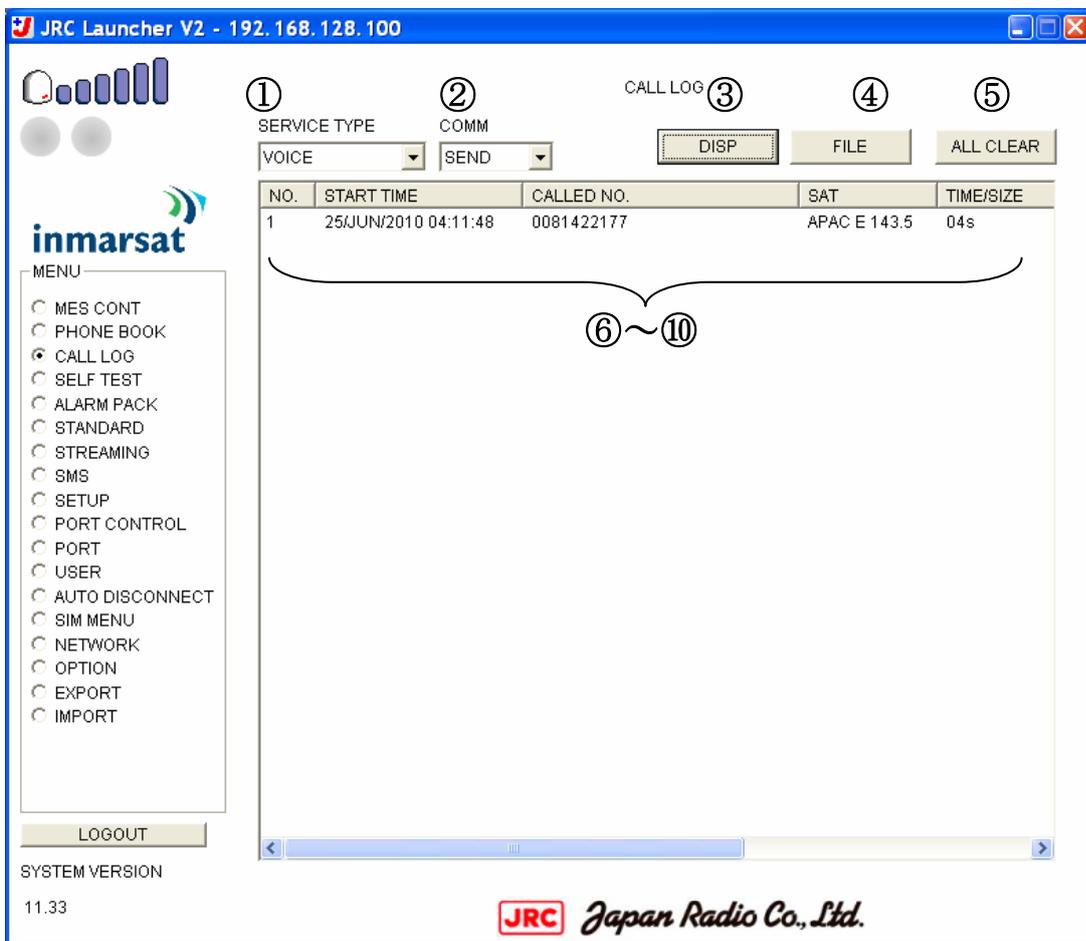

Fig. 9 CALL LOG Screen
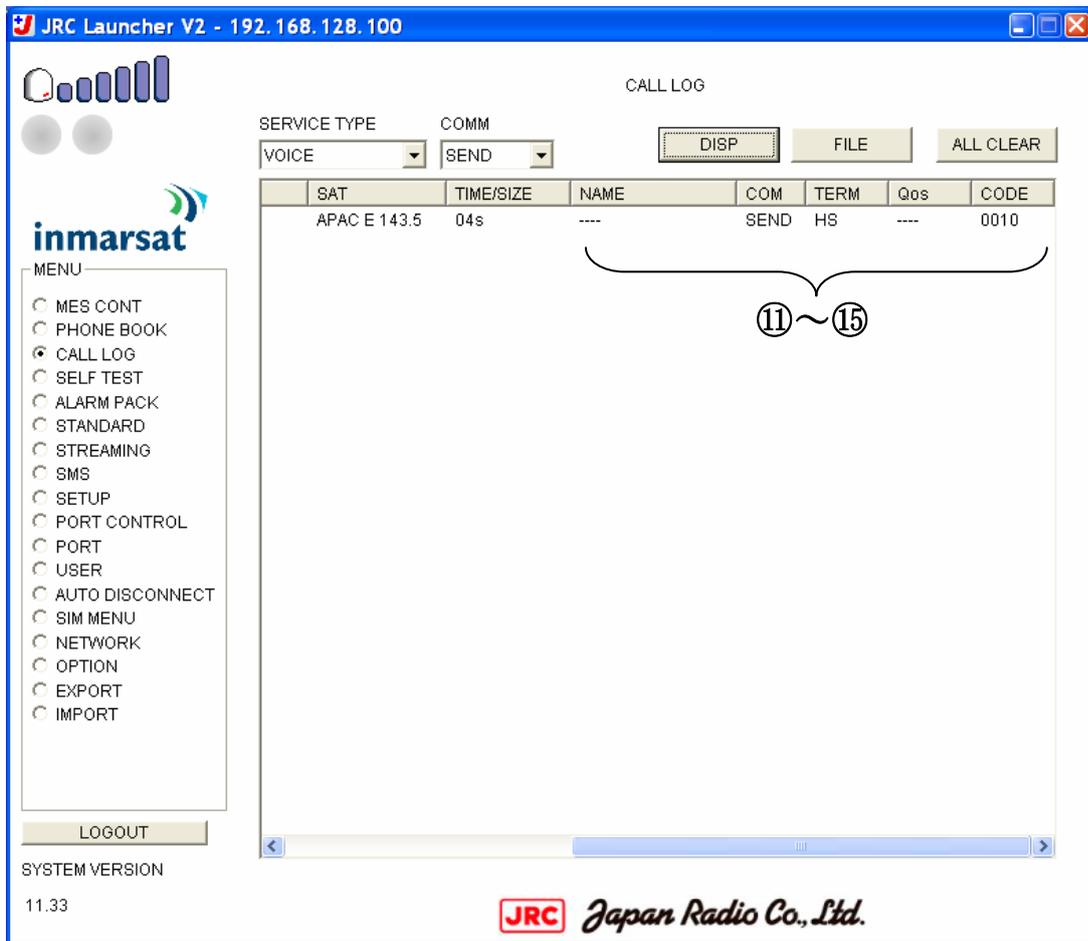
Fig. 10 CALL LOG Screen

Table 9 CALL LOG Screen Items

No	Item	Description
1	SERVICE TYPE	This selects the service type. VOICE/FAX/STANDARD/STREAMING/SMS/UDI/RDI ※UDI and RDI are only for FB500.
2	COMM	This selects the direction of the communication. RECV/SEND/BOTH
3	DISP Button	The call log specified with SERVICE TYPE and COMM is displayed.
4	FILE Button	The displayed call log is saved in the file.
5	ALL CLEAR Button	All the call logs are deleted. ※Everything is deleted including the displayed call log.
6	NO.	This is a serial number of the call log. The number becomes small in a newer call log.
7	START TIME	This is time for the communication to have begun.
8	CALLED NO.	This is a number of the communication partner. There may not be it at the time of the receiving.
9	SAT	This is a satellite used to communicate.
10	TIME/SIZE	This is communication time. It is a number of communication bytes(sum of upload and download) in case of the STANDARD connection.
11	NAME	This is a communicated user name. In STANDARD/STREAMING, this is IP address of PC that communicated.
12	COM	This is a direction of the communication. It is RECV (receive) or SEND (send).
13	TERM	This is a terminal that communicated or port.
14	Qos	This displays the communication rate only for STREAMING.
15	CODE	This is a cause code(HEX).

6.5. SELF TEST Screen

The SELF TEST screen displays the connection state of ADE and Handset.

When it is connecting it, **"success"** is displayed.

When it is not connecting it, **"failure detected"** is displayed.
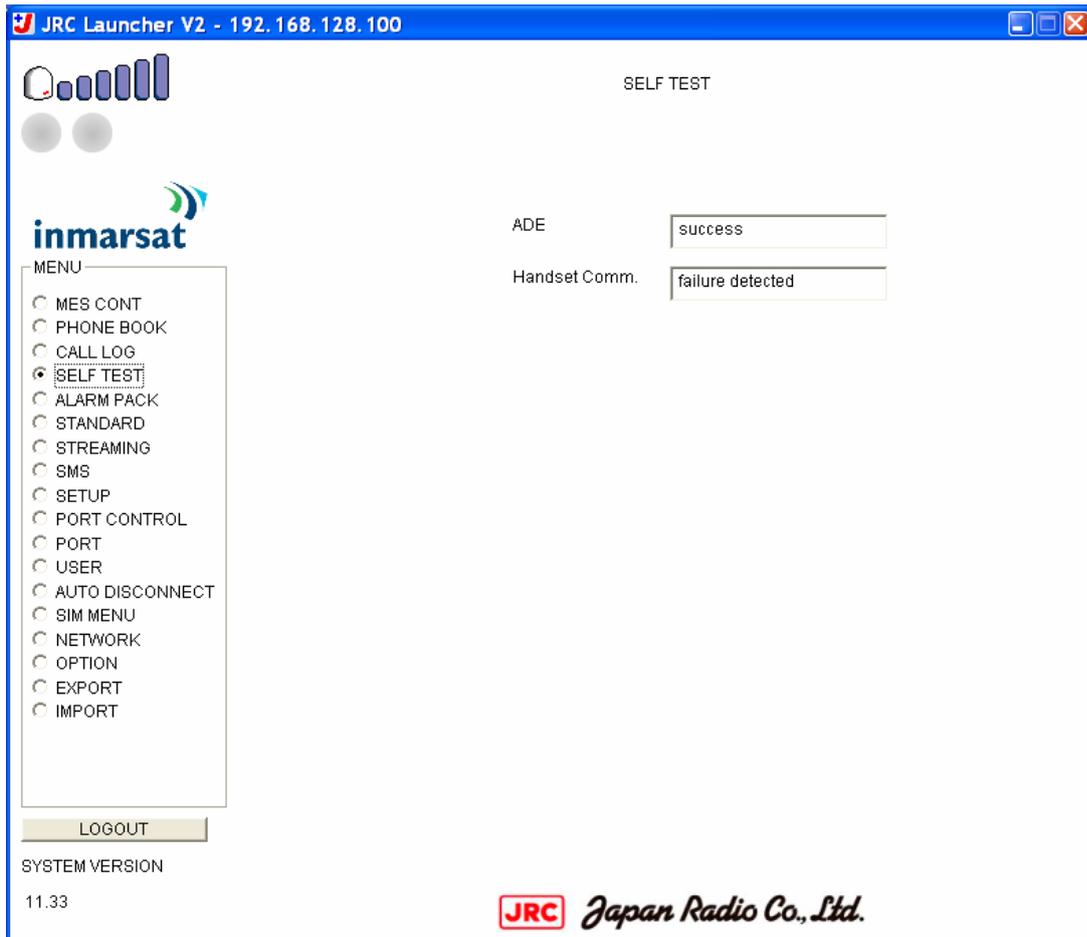
Fig. 11 SELF TEST Screen

6.6. ALARM PACK Screen

The ALARM PACK screen displays an alarm list, various versions, and Serial No.

When a past history is referred, the history is selected from the pull-down menu.

The content of the display can be saved in the file.
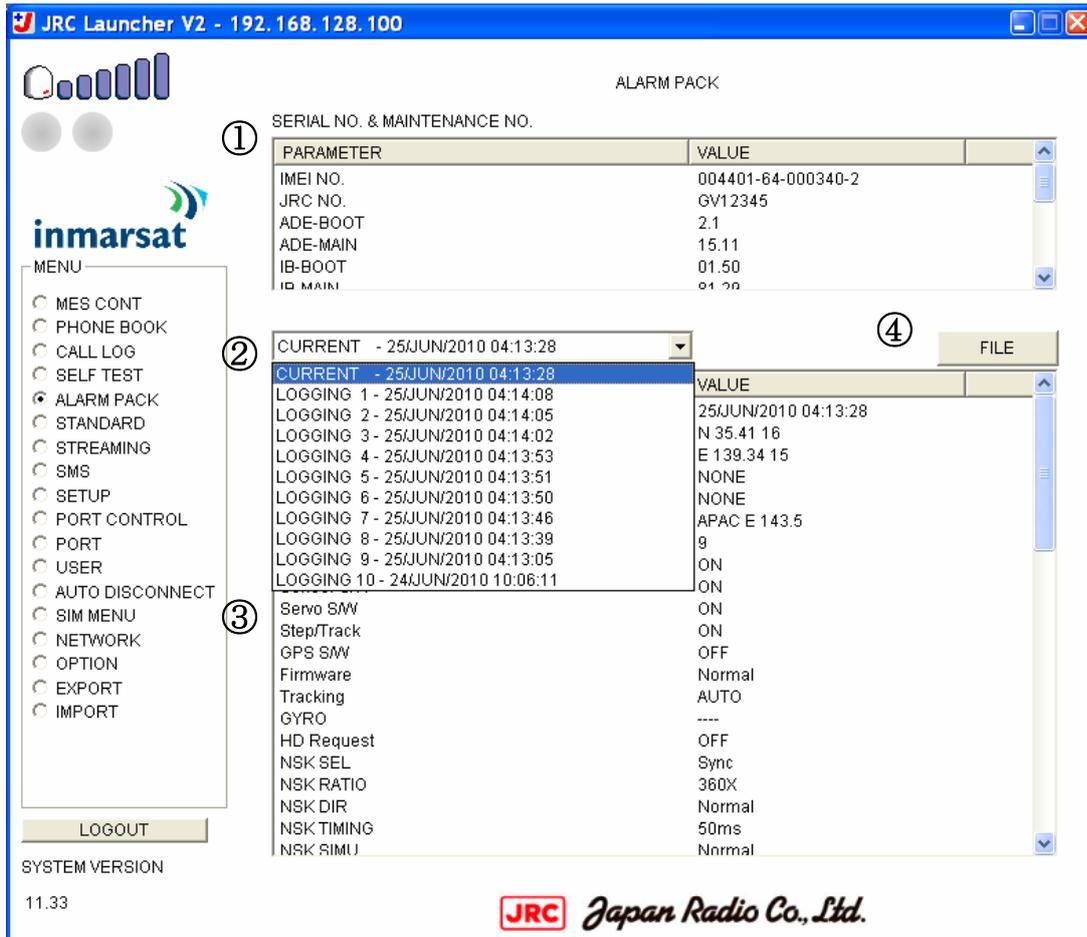
Fig. 12 ALARM PACK Screen

Table 10 ALARM PACK Screen Items

No	Item	Description
1	SERIAL NO. & MAINTENANCE NO.	This displays IMEI, JRC NO., and maintenance NO. of each software.
2	Pull-down Menu	This displays CURRENT, the saved history, and the date by the list. This is selected, and the following list display is switched.
3	Content of Alarm Pack	This displays the content of the alarm pack selected by the pull-down menu. The value one by one changes when CURRENT is selected. The content of each item is equal to Handset and OIU-WEB.
4	FILE Button	This saves the content of pack of all the alarms in the file.

6.7. STANDARD Screen

In this screen, the STANDARD connection can be made for own/other terminal.
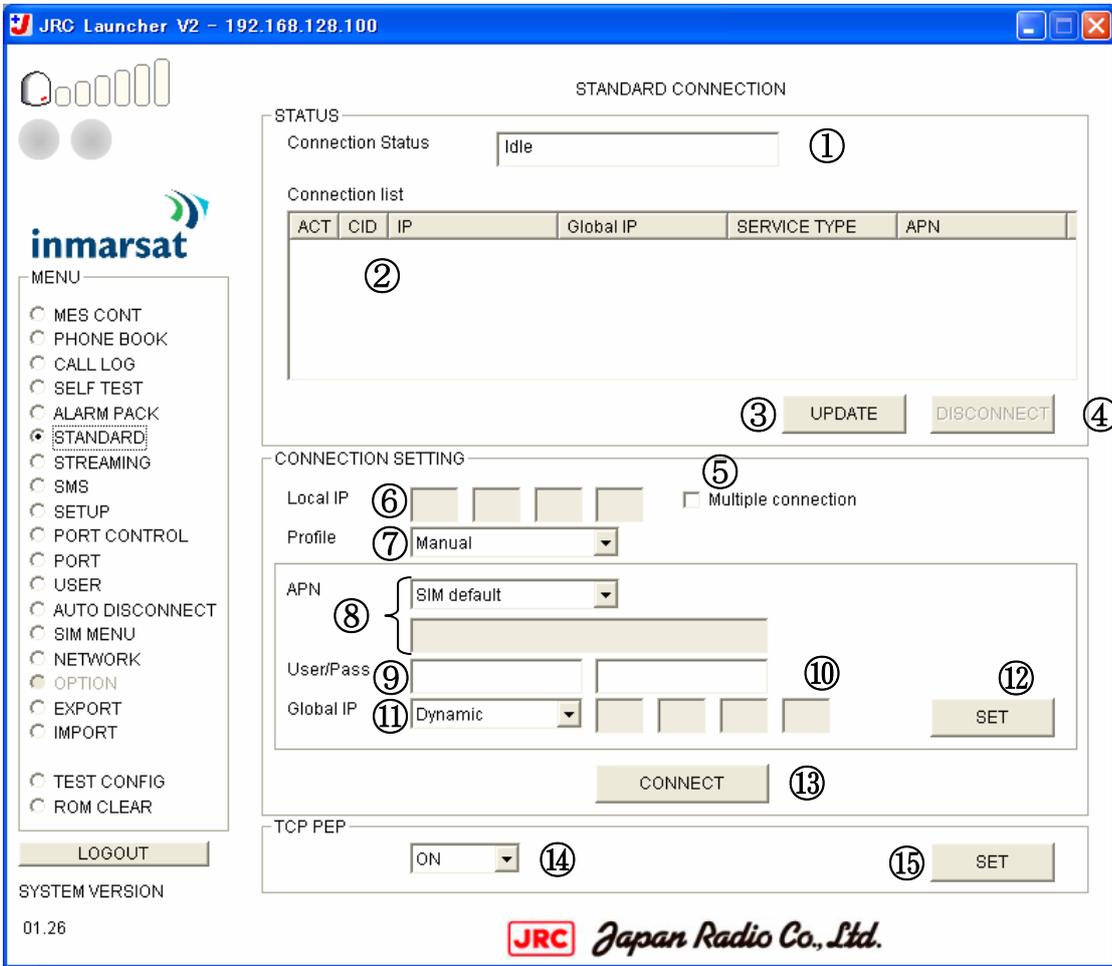
Fig. 13 STANDARD Screen

6.7.1. Connect and disconnect own terminal

NOTE: User can not make connection if Profile setting in USER screen is "OFF".

User can connect and disconnect own terminals by following procedure:

1. Confirm the Multiple-connection check-box (No.5) is unchecked.

2. Select one of the profiles (No.7). If Manual is selected, input APN parameters (No.8-11).
    Note that the Profile cannot be selected if user is restricted in USER screen.

3. Push the CONNECT button (No.13). When connection successes, connection information will be added to the Connection List (No.2) and CONNECT button (No.13) will turn to DISCONNECT button (No.13).

4. When disconnecting the connection, push the DISCONNECT button (No.13).

6.7.2. Connect and disconnect other terminals (Multiple-connection)

NOTE: To make Multiple-connection, user must be checked MULTI setting in USER screen.

User can connect and disconnect other terminals by following procedure:

1. Check the Multiple-connection check-box (No.5).

2. Input a Local IP address (No.6) of the terminal

3. Select one of the profiles (No.7). If Manual is selected, input APN parameters (No.8-11).
    Note that the Profile cannot be selected if user is restricted in USER screen.

4. Push the CONNECT button (No.13). When connection successes, connection information will be added to the Connection List (No.2).

5. When disconnecting the connection, select the connection information from Connection list and push the DISCONNECT button (No.4).

Table 11 STANDARD Screen Items (1/2)

No	Item	Description
1	Connection status	Connection state of the own terminal. States are Idle (not connection), Connecting, Connected, and Disconnecting. Also Disconnecting (Selected PC) will be displayed by pushing No.4 button.
2	Connection list	Displays the own terminal and other terminal during PS connection. ● ACT: This indicates whether the context is connected or not. ＊ will be displayed when the context is connected. ● CID: This is an ID for PS connection. The ID will be 1–11. ● IP: This is an IP address of the terminal. Own terminal will be displayed as "This PC". ● Global IP: This is an assigned global IP address. ● SERVICE TYPE: This displays the PS connected type: Standard or Streaming. APN: This displays the Access Point Name (APN) in use.
3	UPDATE Button	Connection list can be renewed with this button.
4	DISCONNECT Button	The connection selected in Connection list can be disconnected by this button. This operation is available for a user with Multi settings enabled in USER screen.
5	Multiple-connection Check-box	Check the box to connect other terminal. Need to check MULTI in USER screen.
6	Local IP	Input the Local IP address of other terminal to connect when Multiple connection box is checked.
7	Profile	Select Profile 1-5/Manual for PS connection. When "Profile 1-5" is selected, APN Profile defined at NETWORK screen is used. When "Manual" is selected, APN/Username/Password/Global IP can be modified manually. "Manual" can be selected by user who has set its Profile as "Manual" in User screen.

Table 12 STANDARD Screen Items (2/2)

No	Item	Description
8	APN	Select SIM Default/Network assigned/User defined. When User defined is selected, need to input APN. It is provided from SIM card provider.
9	Username	Input the user name. It is provided from SIM card provider.
10	Password	Input the password. It is provided from SIM card provider.
11	Global IP	Select Dynamic (dynamic allocation) or Static (static allocation). When Static is selected, need to input IP address. It is provided from SIM card provider.
12	SET Button	Registers the APN/Username/Password/Global IP.
13	CONNECT Button （on bottom of screen）	Connects and disconnects Standard IP Connection. When Multiple connection check-box is unckecked, the button will display CONNECT or DISCONNECT according to own terminal connection status. When Multiple connection check-box is checked, the button will only display CONNECT regardless of own terminal connection status. To disconnect own terminal connection, select the connection from Connection list and click DISCONNECT button (No4).
14	PEP ON/OFF Button	Selects ON/OFF for TCP PEP function. *Use PEP SET button (No.15) to apply the setting.
15	PEP SET Button	Applies and saves TCP PEP setting (No.14).

6.8. STREAMING Screen

In this screen, the STEAMING connection can be made for own/other terminal.

STREAMING screen has a communication rate setting: Desired rate and Minimum rate..
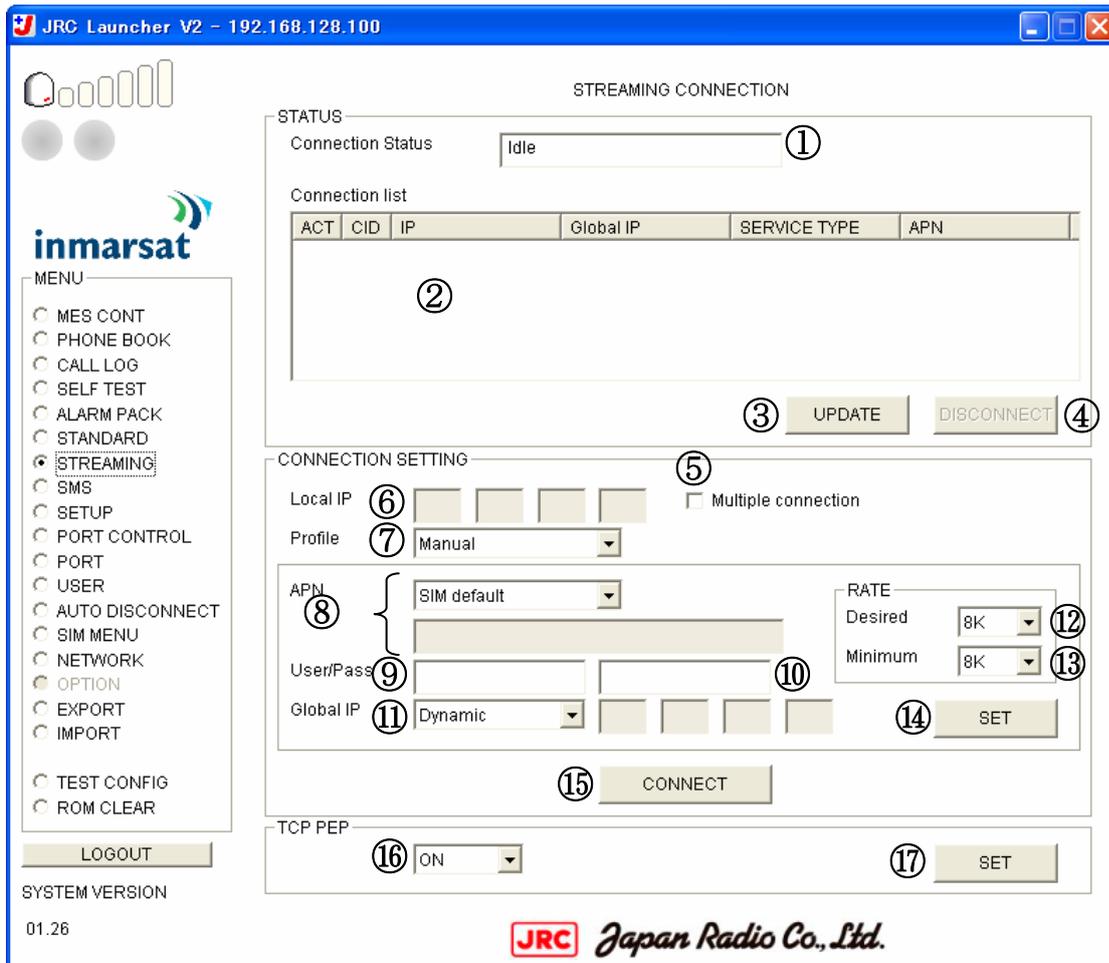
Fig. 14 STREAMING Screen

Table 13 STREAMING Screen items (1/2)

No	Item	Description
1	Connection status	Connection state of the own terminal. States are Idle (not connection), Connecting, Connected, and Disconnecting. Also Disconnecting (Selected PC) will be displayed by pushing No.4 button.
2	Connection list	Displays the own terminal and other terminal during PS connection. ● ACT: This indicates whether the context is connected or not. ∗ will be displayed when the context is connected. ● CID: This is an ID for PS connection. The ID will be 1–11. ● IP: This is an IP address of the terminal. Own terminal will be displayed as "This PC". ● Global IP: This is an assigned global IP address. ● SERVICE TYPE: This displays the PS connected type: Standard or Streaming. APN: This displays the Access Point Name (APN) in use.
3	UPDATE Button	Connection list can be renewed with this button.
4	DISCONNECT Button	The connection selected in Connection list can be disconnected by this button. This is only for a user with Multi settings enabled in USER screen.
5	Multiple-connection Check-box	Check the box to connect other terminal. Need to check MULTI in USER screen.
6	Local IP	Input the Local IP address of other terminal to connect. This is only for a user with Multi settings enabled in USER screen.
7	Profile	Select Profile 1-5/Manual for PS connection. When "Profile 1-5" is selected, APN Profile defined at NETWORK screen is used. When "Manual" is selected, APN/Username/Password/Global IP can be modified manually. This is only for a user with Manual Profile settings in USER screen.

Table 14 STREAMING Screen items (2/2)

No	Item	Description
8	APN	Select SIM Default/Network assigned/User defined. When User defined is selected, need to input APN. It is provided from SIM card provider.
9	Username	Input the user name. It is provided from SIM card provider.
10	Password	Input the password. It is provided from SIM card provider.
11	Global IP	Select Dynamic (dynamic allocation) or Static (static allocation). When Static is selected, need to input IP address. It is provided from SIM card provider.
12	Desired	Select communication speed rate: 8K − 256K byte/sec wants to be granteed (desired rate). 256K can be selected only with FB500.
13	Minimum	Select communication speed rate: 8K − 256K byte/sec needs to be granteed (minimum rate). The minimum rate must be some or slower than the desired rate. 256K can be selected only with FB500.
14	SET Button	Registers the APN/Username/Password/Global IP.
15	CONNECT Button （on bottom of screen）	Connects and disconnects Streaming IP Connection. When Multiple connection check box is off, the button will display CONNECT(not connected) or DISCONNECT(connected) according to own terminal connection status. When Multiple connection check box is on, the button will only display CONNECT regardless of own terminal connection status. To disconnect own terminal connection, select the connection from Connection list and click DISCONNECT button(No4).
16	PEP ON/OFF Button	Selects ON/OFF for TCP PEP function. *Use PEP SET button (No.17) to apply the setting.
17	PEP SET Button	Applies and saves TCP PEP setting (No.16).

6.9. SMS Screen

The SMS sending, receiving, and editing are possible on the SMS screen. Moreover, it is possible to set for the sending and the receiving of SMS.

The SMS screen can be switched to the following five by the pull-down menu.
- New Message (new message making)
- Inbox (receiving message)
- Sent (message that has been sent)
- Draft (un-send (draft) message)
- Setting & Information

Each content is explained at the following.

6.9.1. New Message

A new message is made.

After the address is specified when a new message is input, the message is sent. About the address, it is possible to input directly, and the phone book can be referred to.
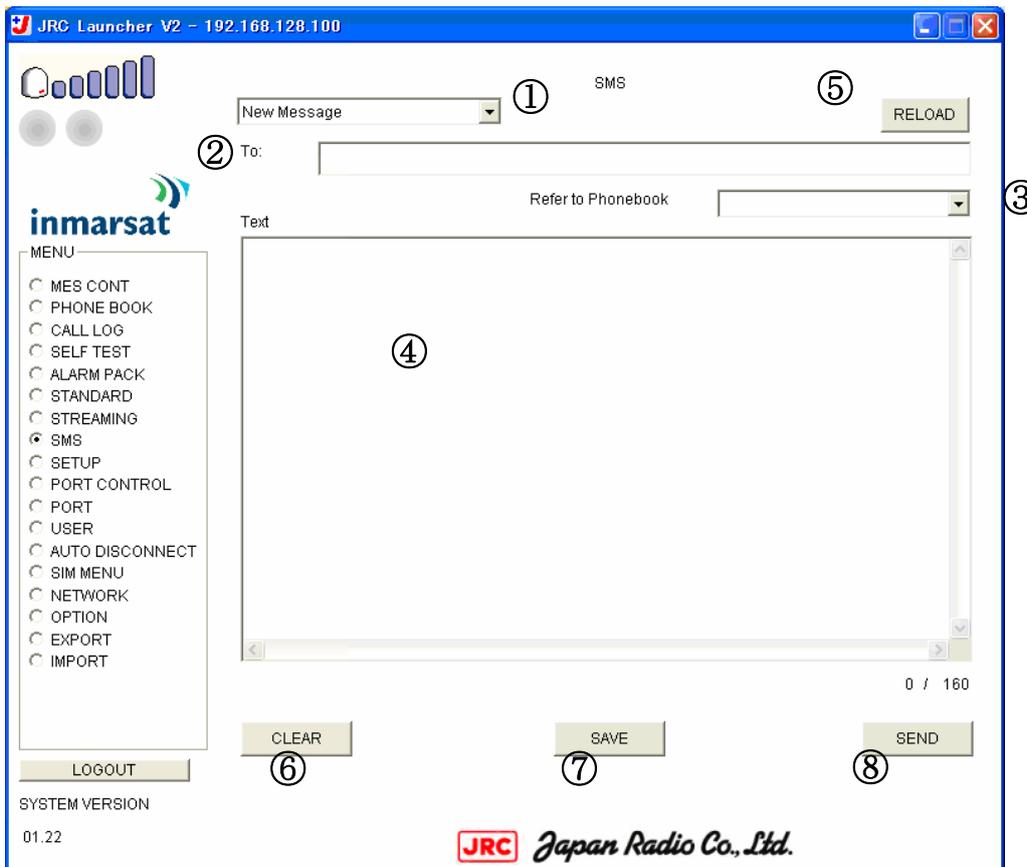

Fig. 15 SMS-New Message Screen

Table 15 SMS-New Message Screen Items

No	Item	Description
1	Pull-down Menu	This switches the screen.
2	To	The phone number of the address is input here.
3	Refer to Phonebook	ADDRESS registered in the phone book displays the list by the pull-down menu. The number of the phone book selected there is input to the column of To.
4	Text and Number of Input Characters	The message that is sent is input here. The number of characters of messages that can be input is displayed in lower right in shape named XXX/160. The maximum length of SMS is 160 characters in GSM7 (default) or 70 characters in Unicode. It decreases only for the character of the signature when signature (Refer to Table 15 SMS-Setting & Information Screen items) is set.
5	RELOAD Button	This reloads SMS from SIM card. When the SMS menu is selected, and the sending etc. are operated, it loads automatically. However, when other JRC Launcher, Handset, and WEB, etc. are operated, it tries to have to reload to display the latest.
6	CLEAR Button	This deletes all content of To and Text.
7	SAVE Button	This saves the content of starting write in Draft.
8	SEND Button	This is sent to the address for which the content of Text is specified with To. The sent message is saved in Sent.

6.9.2. Inbox

Inbox displays the received message.

It is possible to reply to the received message, to forward to another, and to delete it.
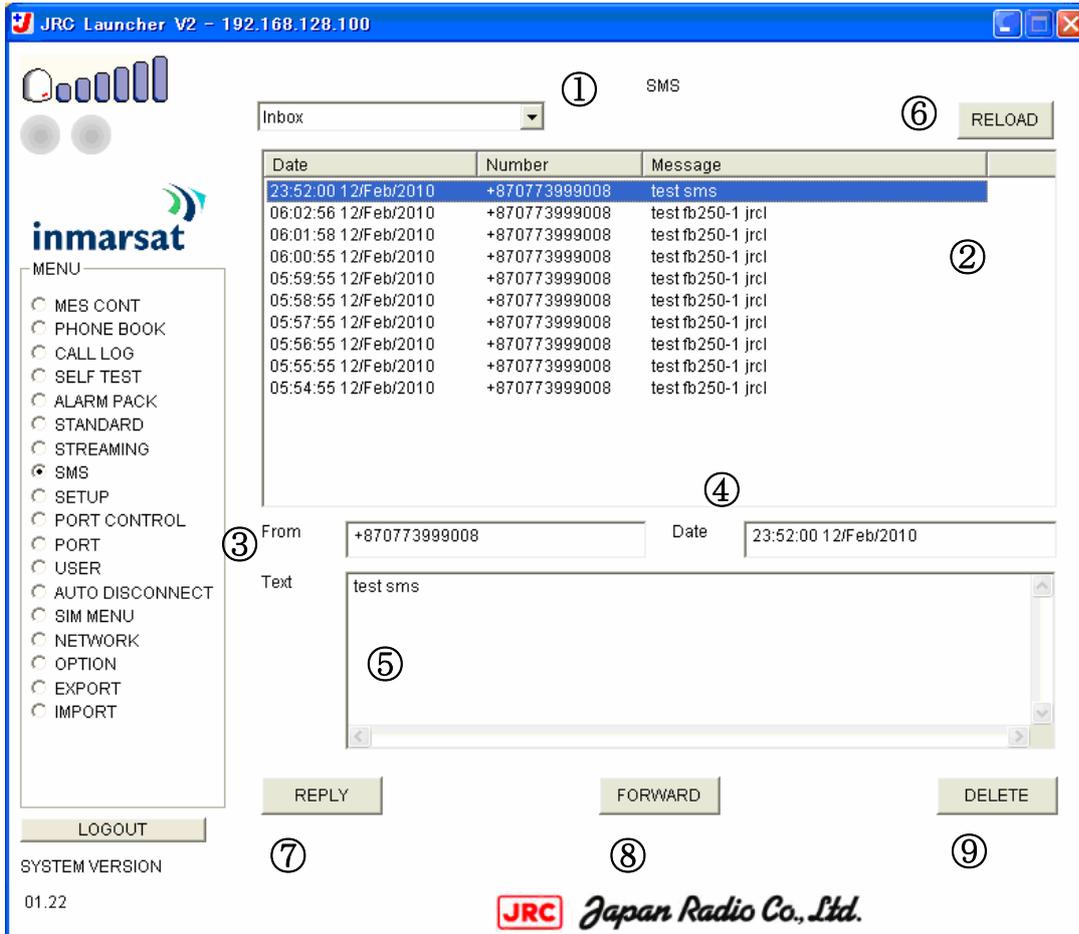
Fig. 16 SMS-Inbox Screen

Table 16 SMS-Inbox Screen Items

No	Item	Description
1	Pull-down Menu	This switches the screen.
2	Message List	This displays the list of the received message. When the message is selected from the list, the content is displayed as follows.
3	From	This displays the sending origin of the selected receiving message.
4	Date	This displays the received date of the selected receiving message.
5	Text	This displays the content of the selected receiving message.
6	RELOAD Button	This reloads SMS from SIM card. When the SMS menu is selected, and the sending etc. are operated, it loads automatically. However, when other JRC Launcher, Handset, and WEB, etc. are operated, it tries to have to reload to display the latest.
7	REPLY Button	This replies to the selected receiving message. It changes to the New Message screen. "From" of the selected message is copied onto "To" of the New Message screen.
8	FORWARD Button	This forwards the selected receiving message. It changes to the New Message screen. Text of the selected message is copied onto Text of the New Message screen.
9	DELETE Button	This deletes the selected receiving message.

6.9.3. Sent

Sent displays the sent message.

The sent message can be resent, it forward to another, and it delete.
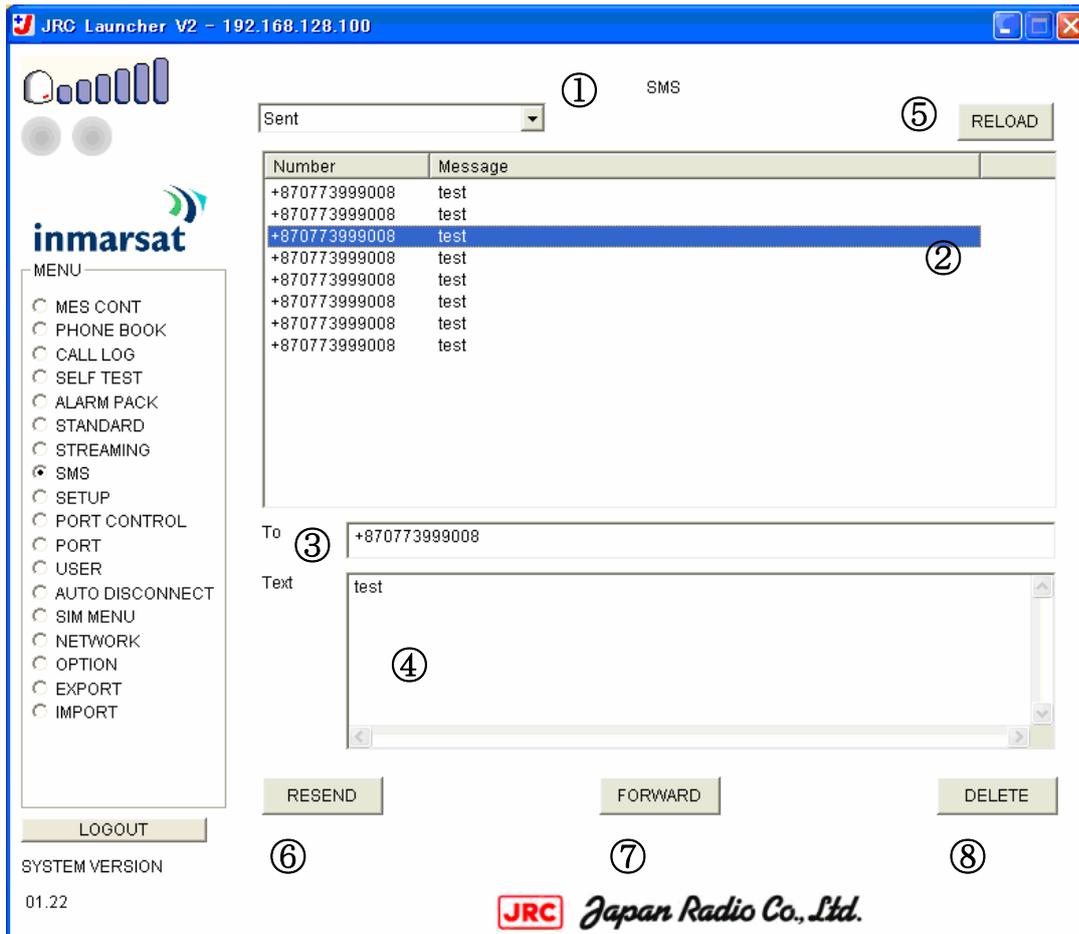
Fig. 17 SMS-Sent Screen

Table 17 SMS-Sent Screen Items

No	Item	Description
1	Pull-down Menu	This switches the screen.
2	Message List	This displays the list of the sent message. When the message is selected from the list, the content is displayed as follows.
3	To	The address of the selected send message is displayed here.
4	Text	The content of the selected send message is displayed here.
5	RELOAD Button	This reloads SMS from SIM card. When the SMS menu is selected, and the sending etc. are operated, it loads automatically. However, when other JRC Launcher, Handset, and WEB, etc. are operated, it tries to have to reload to display the latest.
6	RESEND Button	This replies to the selected send message. It changes to the New Message screen. "From" of the selected message is copied onto "To" of the New Message screen.
7	FORWARD Button	This forwards the selected send message. It changes to the New Message screen. Text of the selected message is copied onto Text of the New Message screen.
8	DELETE Button	This deletes the selected send message.

6.9.4. Draft

Draft displays the unsent message.

The unsent message can be edited, it forward to another, and it delete.
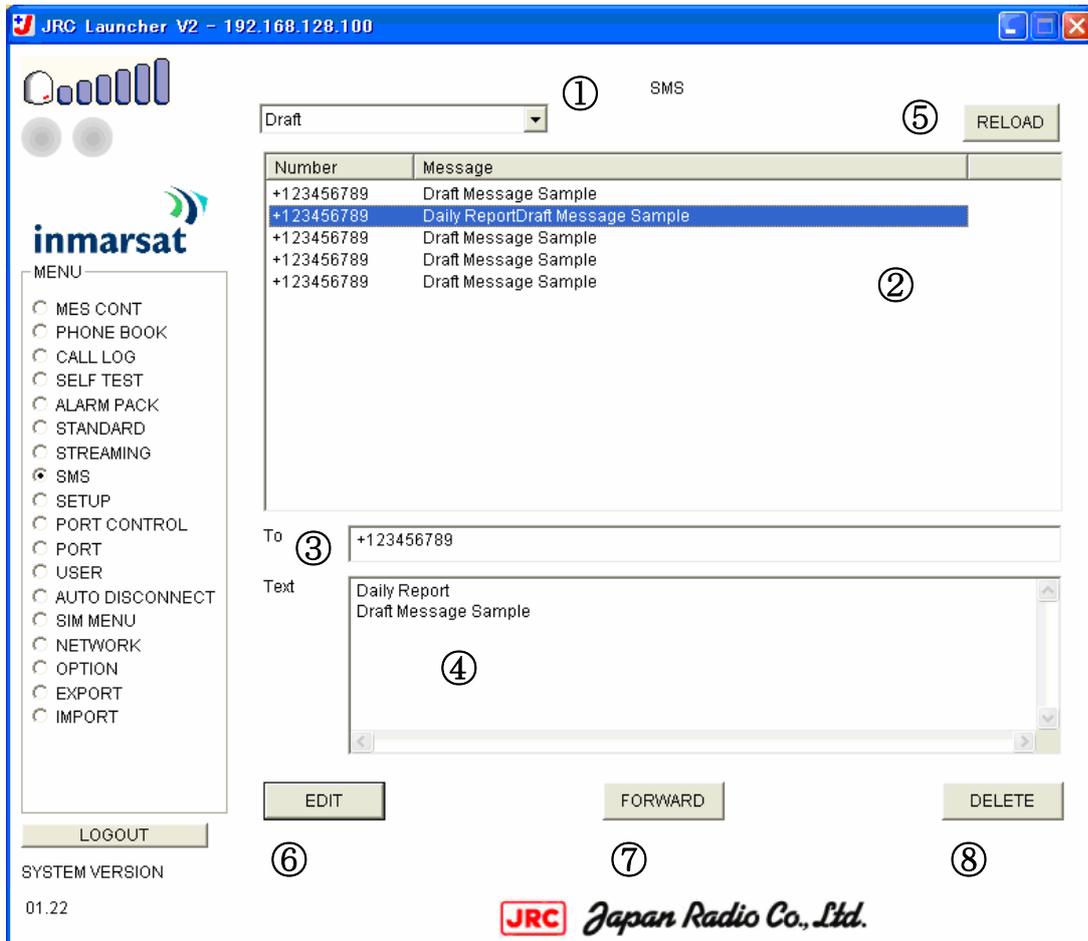
Fig. 18 SMS-Draft Screen

Table 18 SMS-Draft Screen Items

No	Item	Description
1	Pull-down Menu	This switches the screen.
2	Message List	This displays the list of the unsent message. When the message is selected from the list, the content is displayed as follows.
3	To	The address of the selected unsent message is displayed here.
4	Text	The content of the selected unsent message is displayed here.
5	RELOAD Button	This reloads SMS from SIM card. When the SMS menu is selected, and the sending etc. are operated, it loads automatically. However, when other JRC Launcher, Handset, and WEB, etc. are operated, it tries to have to reload to display the latest.
6	RESEND Button	This replies to the selected unsent message. It changes to the New Message screen. "From" of the selected message is copied onto "To" of the New Message screen.
7	FORWARD Button	This forwards the selected unsent message. It changes to the New Message screen. Text of the selected message is copied onto Text of the New Message screen.
8	DELETE Button	This deletes the selected unsent message.

6.9.5. Setting & Information

Setting & Information displays various setting to SMS, deletion of all messages and capacity of SMS.
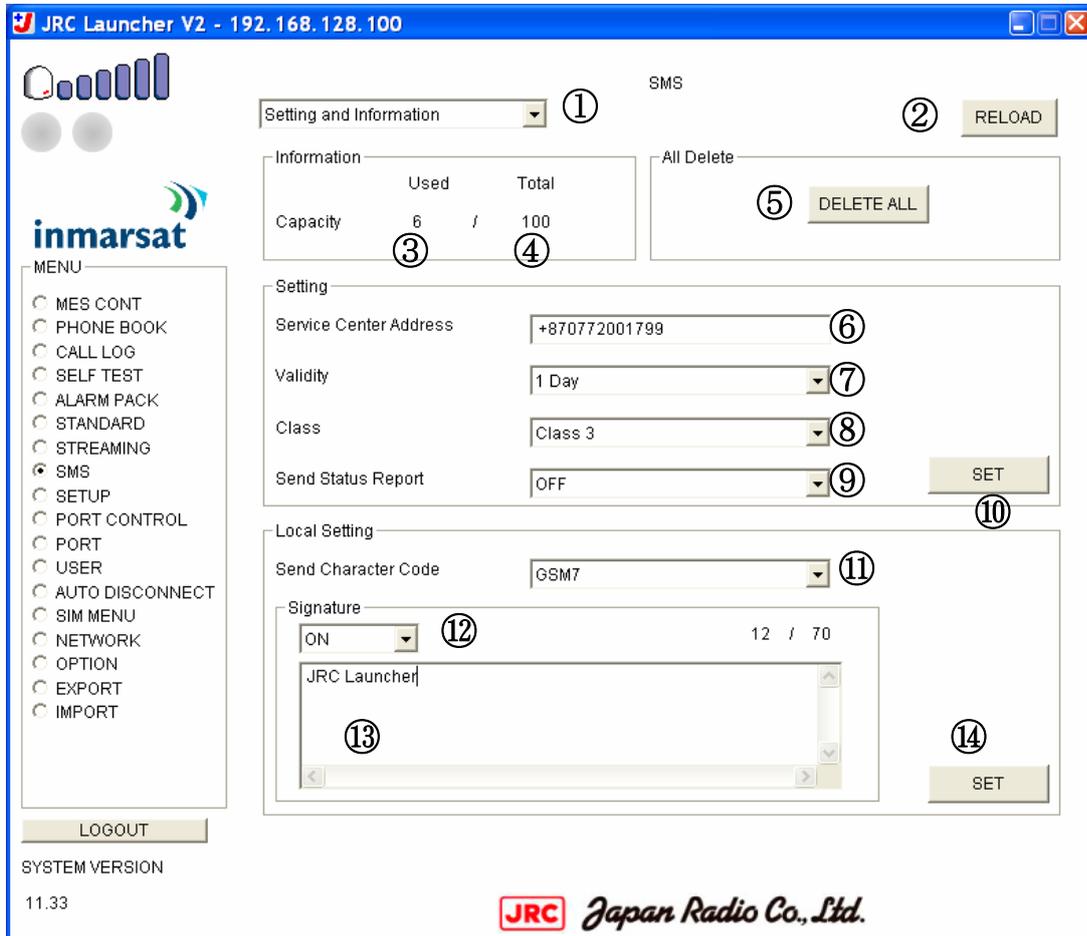

Fig. 19 SMS-Setting & Information Screen

Table 19 SMS-Setting & Information Screen Items

No	Item	Description
1	Pull-down Menu	This switches the screen.
2	RELOAD Button	This reloads SMS from SIM card. When the SMS menu is selected, and the sending etc. are operated, it loads automatically. However, when other JRC Launcher, Handset, and WEB, etc. are operated, it tries to have to reload to display the latest.
3	Capacity-Used	This displays the total of the saved message. This displays the total of the number of messages of Inbox, Sent, and Draft.
4	Capacity-Total	This displays the maximum number of messages that can be saved on SIM card. When Used reaches this number, neither a new making nor the receiving can be done.
5	DELETE ALL Button	This deletes all messages.
6	Service Centre Address	The service center address is set here.
7	Validity	The storage limitation in the service center is set here.
8	Class	The specification of the saving place on the receiving side of the sent message is set here. ・Class 0　　Display only（no need to save） ・Class 1　　This demands saving for the main unit. ・Class 2　　This demands saving for SIM. ・Class 3　　It leaves to the other party's setting. ・No Class　There is no specification. ※ The receiving message is saved in SIM in JUE-250/500 regardless of the setting at the sending side.
9	Send Status Report	This sets the presence specification of the notification of the send message.
10	Setting SET Button	This saves the setting from Service Centre Address to Send Status Report.
11	Send Character Code	This sets the character code of SMS from GSM7 or Unicode.
12	Signature-ON/OFF	The use existence of the signature is set. The signature is given at the end of the send message. The number of characters that can be used by the text only for the character decreases when the signature is used.
13	Signature-Text	This sets the character string of the signature.
14	Signature SET Button	This saves the signature setting.

6.10. SETUP Screen

The SETUP screen sets the device and the satellite tracking method.
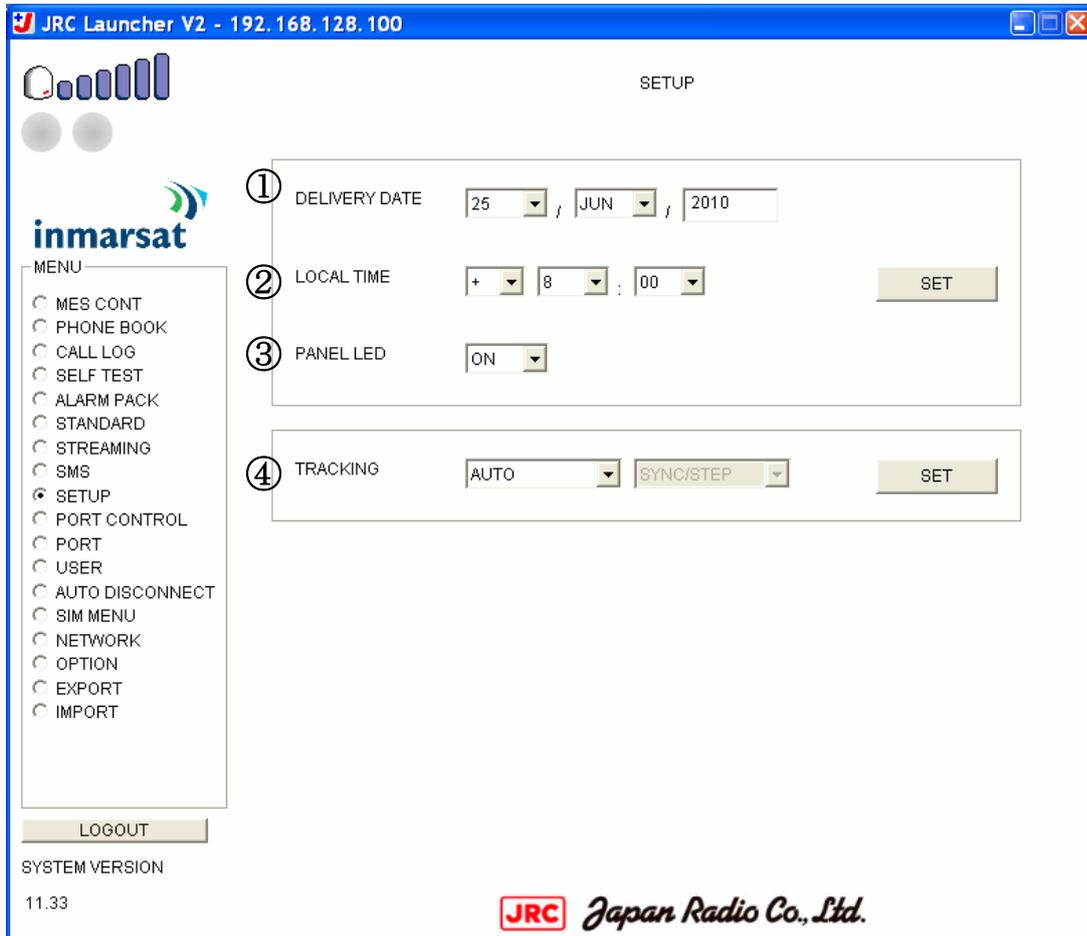
Fig. 20 SETUP Screen

Table 20 SETUP Screen Items

No	Item	Description
1	DELEVERY DATE	This sets the operation start date.
2	LOCAL TIME	This sets the time difference from UTC of the present time.
3	PANEL LED	This sets having indication or not of the main unit panel LED. The panel LED does not turn on other than start when turning this off.
4	TRACKING	This sets the tracking method. First of all, AUTO (electric wave tracking) or GYRO (use) is selected. When GYRO is selected, connected method of GYRO is selected as follows. ・SYNC/STEP ・NMEA(4.8K) ・NMEA(38.4K) ・LAN ※LAN can be selected, only when OIU is connected.

6.11. <u>PORT CONTROL Screen</u>

The PORT CONTROL screen sets the analogue telephone terminal port connected with the main unit.

The item of CALL REQUEST and CALL RECEPTION can be set only with FB500 or SYS01.24 or later version of FB250.
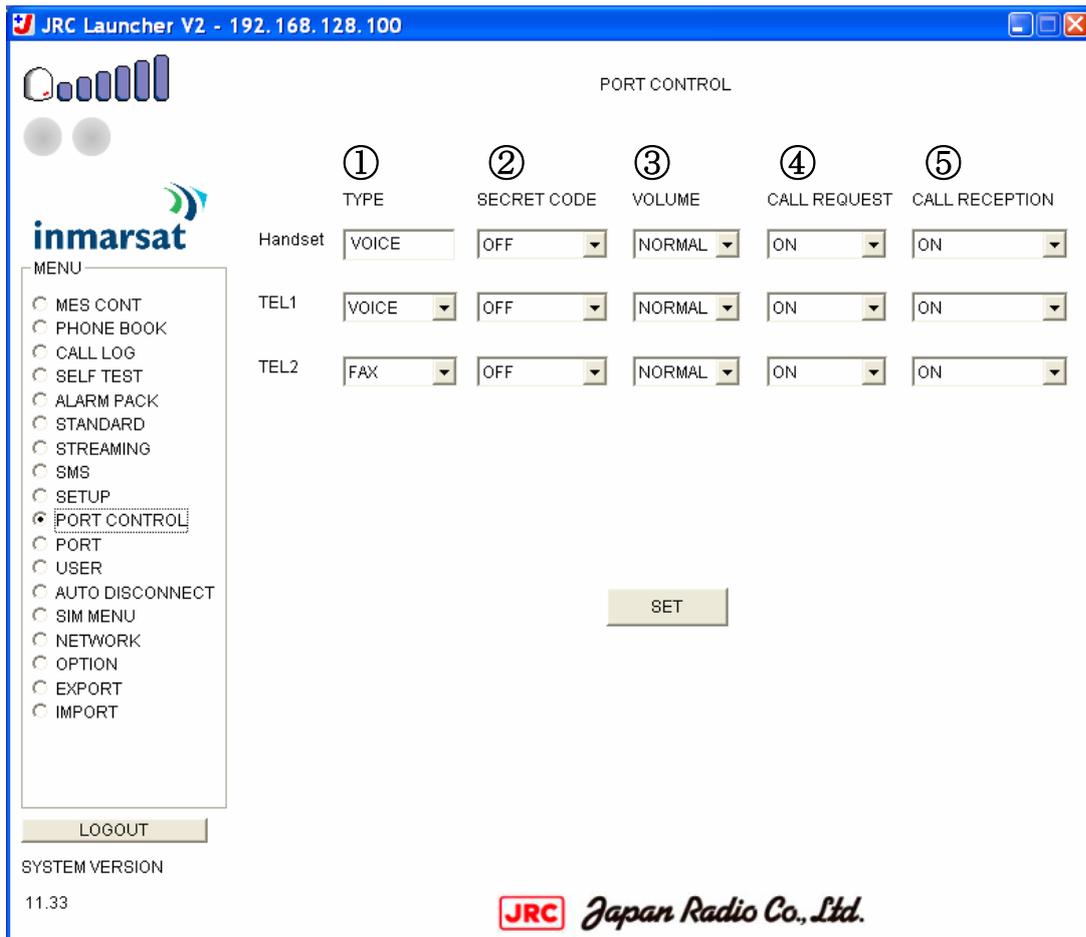
Fig. 21 PORT CONTROL Screen

Table 21 PORT CONTROL Screen Items

No	Item	Description
1	TYPE	This sets whether to use VOICEFAX/BOTH for TEL1/2. When [BOTH] is selected to the port, it can receive phone call and FAX call at the same port. And it will make a call by [VOICE]. Add ** on the head of dialing sequence if you want to make a call by FAX. Handset is only for VOICE.
2	SECRET CODE	This sets a secret cord use or non-use in the Handset and TEL1/2. It becomes impossible to refer to screens other than the telephone sending if the secret code is not input when the secret code of Handset is turned on.
3	VOLUME	This sets the volume of the Handset and TEL1/2.
4	CALL REQUEST	This sets permission or no permission of sending in the Handset and TEL1/2.
5	CALL RECEPTION	This sets the incoming permission, no permission or the time until sounding the ring in the Handset and TEL1/2. The time until sounding the ring can be selected from 5 seconds, 10 seconds and 20 seconds.

6.12. PORT Screen

The PORT screen sets MSN of ISDN, Handset and IP address of the main unit.
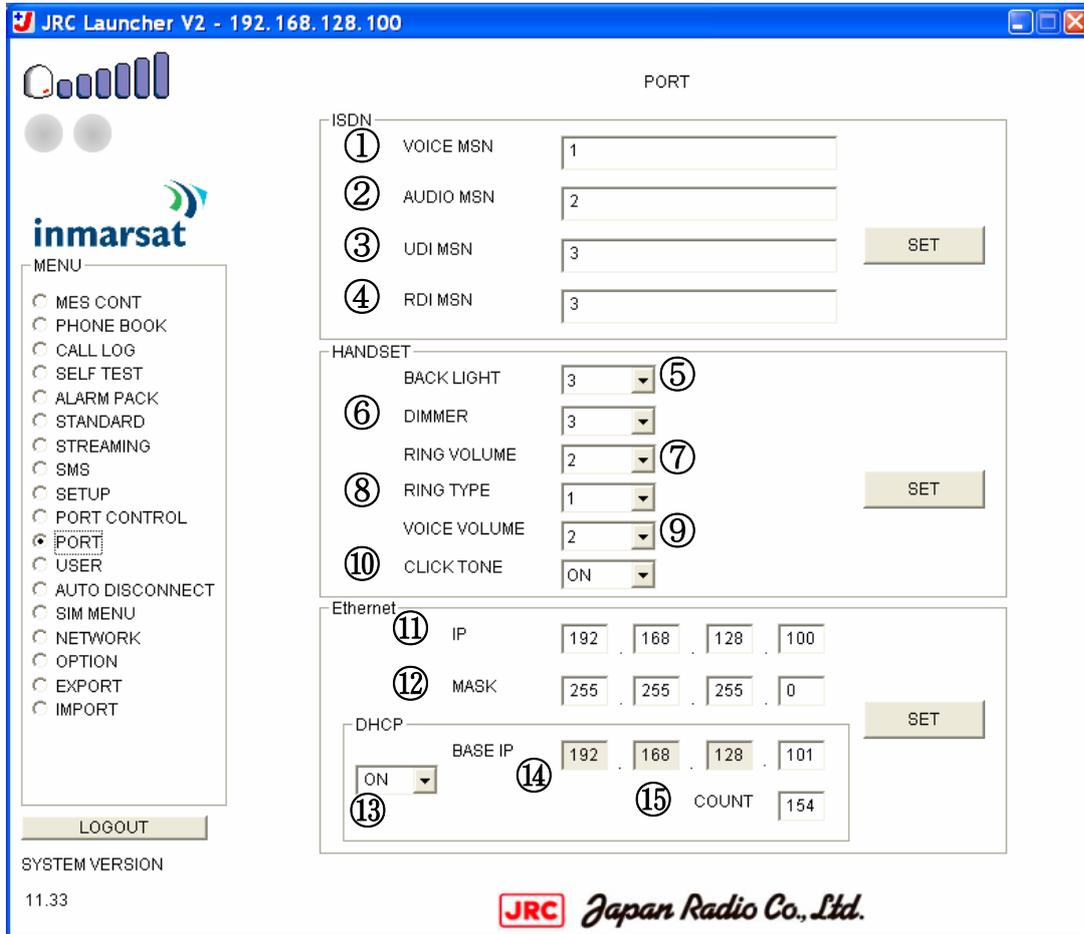
Fig. 22 PORT Screen

Table 22 PORT Screen Items

No	Item	Description
1	VOICE MSN	This sets the numerical value to the VOICE MSN 15 digit of ISDN.
2	AUDIO MSN	This sets the numerical value to the VAUDIO MSN 15 digit of ISDN.
3	UDI MSN	This sets the numerical value to the UDI MSN 15 digit of ISDN. This can set only FB500.
4	RDI MSN	This sets the numerical value to the RDI MSN 15 digit of ISDN. This can set only FB500.
5	BACK LIGHT	This sets the LCD backlight of Handset by off or 1-4 steps.
6	DIMMER	This sets the LCD dimmer of Handset by off or 1-4 steps.
7	RING VOLUME	This sets the volume of Ring by 1-3 steps.
8	RING TYPE	This selects the kind of Ring from 1-6 kinds.
9	VOICE VOLUME	This sets the volume of the voice by 1-3 steps.
10	CLICK TONE	This sets having key click sound or not.
11	Ethernet	This sets IP of the main unit. After setting it, it is necessary to restart to reflect the setting.
12	MASK	This sets SUBNET MASK of the main unit. After setting it, it is necessary to restart to reflect the setting.
13	DHCP	This sets validity(turn on)/invalidity(turn off) of DHCP server.
14	BASE IP	This sets the lowest IP address to assign from DHCP server.
15	COUNT	This sets the total amount of IP address to assign from DHCP server.

6.13. USER Screen

The USER screen registers/edits/deletes the user of main unit.

It is a necessary setting of user for the log in of JRC Launcher V2.

The terminal lock of Handset, the log in of OIU-WEB, and sending the secret code are necessary.

Also USER screen can restrict Standard/Streaming IP connection and Multiple-connection for each user.
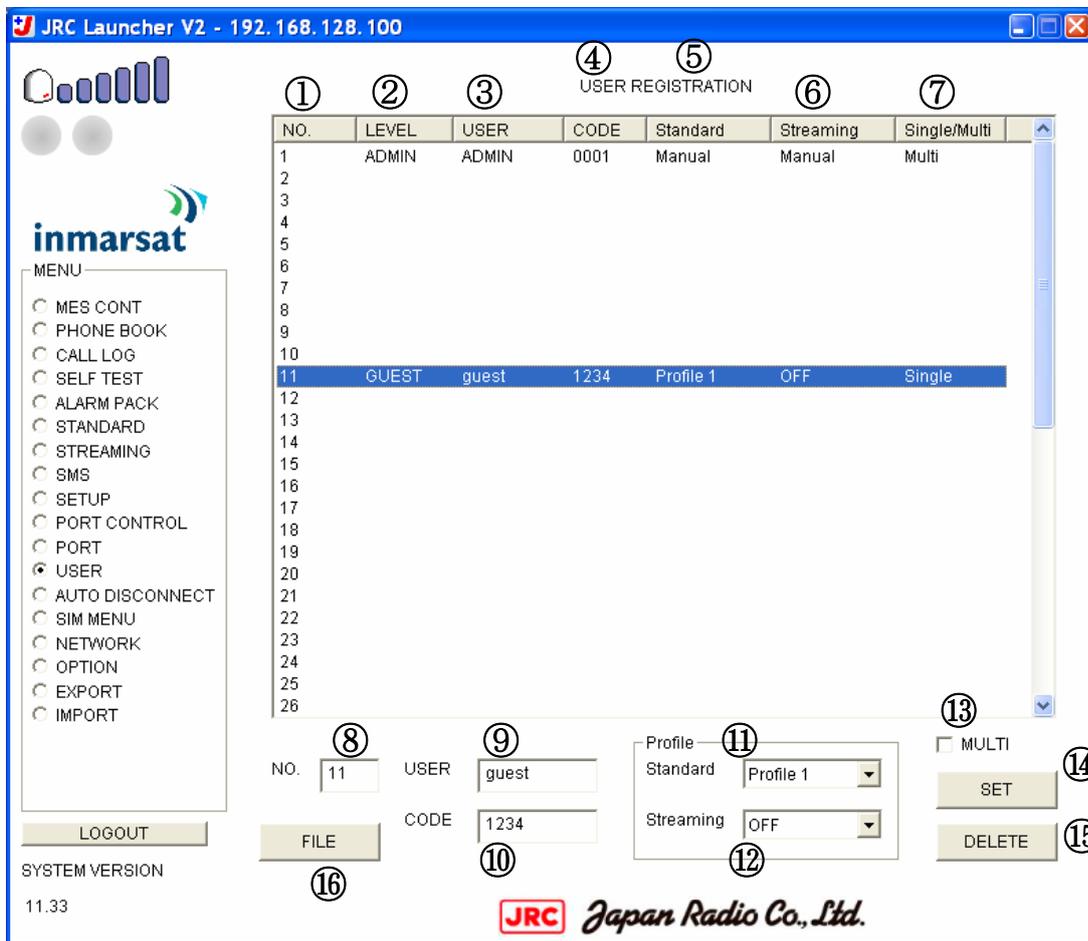
Fig. 23 USER Screen

Table 23 USER Screen Items (1/2)

No	Item	Description
1	List-NO.	User's serial number. The user of NO.1 becomes an administrator. NO. cannot be changed.
2	List -LEVEL	User authorization. The user of NO.1 is ADMIN user (administrator). Others become GUEST user. Only ADMIN user can change the terminal settings. LEVEL cannot be changed.
3	List -USER	User-name. It is possible to set it up to ten characters or less arbitrarily. This is necessary for JRC Launcher V2 and OIU-WEB log in. When the secret code call is made, the user-name will be saved in the call log.
4	List -CODE	Password (secret code) corresponding to the user-name. This is necessary for JRC Launcher V2 and OIU-WEB log in, the secret code call and the terminal lock release.
5	List-Standard	Type of the Standard connection setting.
6	List-Streaming	Type of the Streaming connection setting.
7	List-Single/Multi	Type of the other terminal connection setting
8	NO.	Displays NO. selected by the list. This cannot be changed.
9	USER	Input user name.
10	CODE	Input password (secrete cod). This should be a numerical value to 0001-8999 of four digits.

Table 24 USER Screen Items (2/2)

No	Item	Description
11	Standard profile	Select OFF/Profile/Manual to restrict Standard IP connection. OFF : This user cannot make connection. Profile 1-5: This user can make connection by using selected Profile setting only. This Profile 1-5 can be defined at APN Profile of NETWORK screen. Manual : This use can make connection define each setting.
12	Streaming profile	Select OFF/Profile/Manual to restrict Streaming IP connection. OFF : This user cannot make connection. Profile 1-5: This user can make connection by using selected Profile setting only. This Profile 1-5 can be defined at APN Profile of NETWORK screen. Manual : This use can make connection define each setting.
13	MULTI Check-box	Check MULTI to allow user to connect/disconnect other terminal (Multiple-connection). Uncheck MULTI(Single) to allow use to connect/disconnect own terminal only.
14	SET Button	Registers the user Items.
15	DELETE Button	Deletes the selected user. User of NO.1 (ADMIN User) cannot be deleted.
16	FILE Button	Outputs the content of the list. This cannot be imported. This is only for reading. When it is necessary to import the data back, export the data from EXPORT Screen (refer to 6.17 EXPORT Screen).

6.14. AUTO DISCONNECT Screen

The AUTO DISCONNECT screen sets the automatic disconnecting time to each port.

Set 0 to disable automatic disconnect function for HANDSET/TEL1/TEL2/ISDN/STREAM.

Select OFF to disable automatic disconnect function for STANDARD.

The automatic disconnecting time can be set until 240 minutes or less.

<NOTE>
• Distribution partner of SIM card might charge a communication fee by only connecting and disconnecting Standard IP Connection.
• Auto Disconnect function never disconnects PS Connection connected by Always Activate function. Thus PS Connection connected by Always Activate function keeps the connection active.
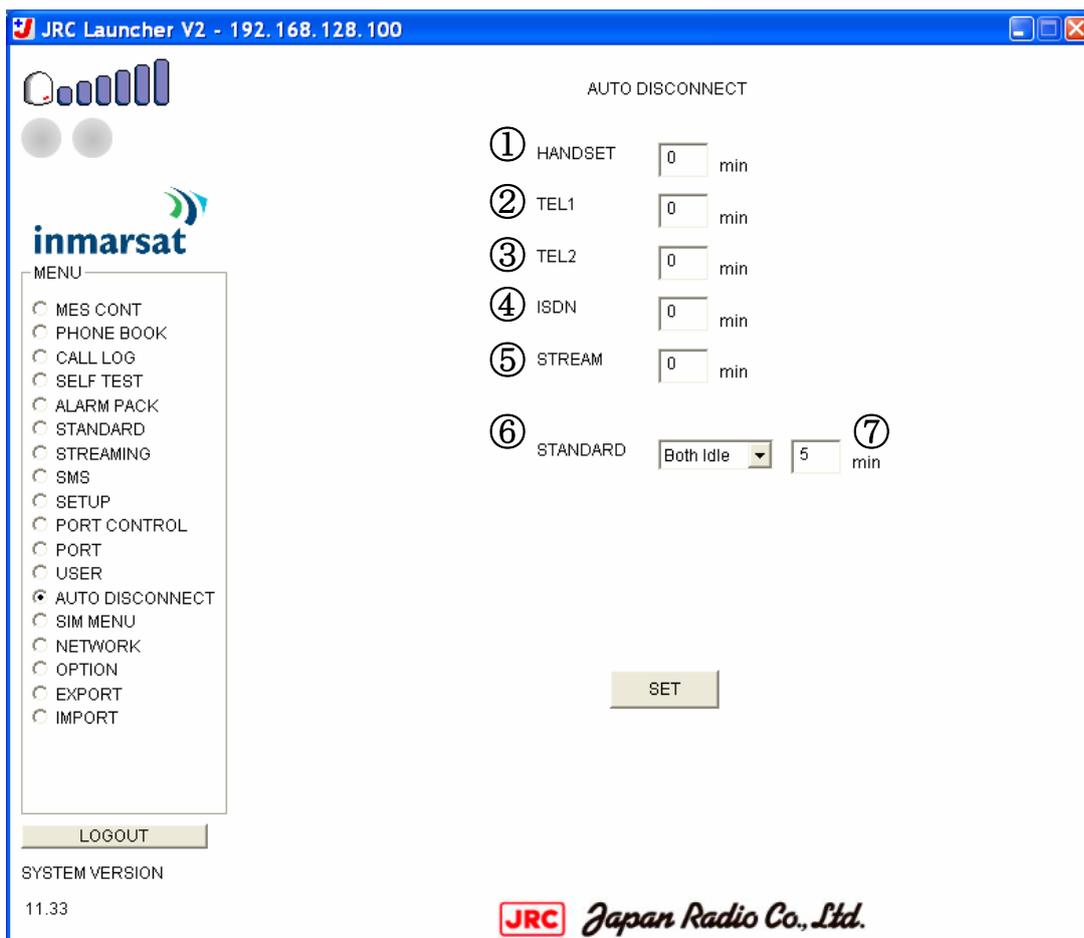
Fig. 24 AUTO DISCONNECT Screen

Table 25 AUTO DISCONNECT Screen Items

No	Item	Description
1	HANDSET	This sets the automatic disconnecting time of the voice call with Handset.
2	TEL1	This sets the automatic disconnecting time of voice call/fax with TEL1.
3	TEL2	This sets the automatic disconnecting time of voice call/fax with TEL2.
4	ISDN	This sets the automatic disconnecting time of voice call/communication with ISDN.
5	STREAMING	This sets the automatic disconnecting time of the Streaming IP Connection.
6	STANDARD	This sets the automatic disconnecting way of the Standard IP Connection: how to monitor and disconnect communication. OFF does not disconnect the connection automatically ANY can disconnect the connection by connected time SND can disconnect the connection by monitoring the upload Idle time RCV can disconnect the connection by monitoring the download Idle time BOTH can disconnect the connection by monitoring the upload and download Idle time
7	STANDARD auto-disconnect time	This sets the automatic disconnecting time of Standard IP Connection. If OFF is selected at STANDARD (No.6), this does not need an input. If other setting is selected, input a value 1-240.

6.15. SIM MENU Screen

The SIM MENU screen displays the state of SIM PIN. And, the PIN change, the PUK restoration, and the PIN input are set.
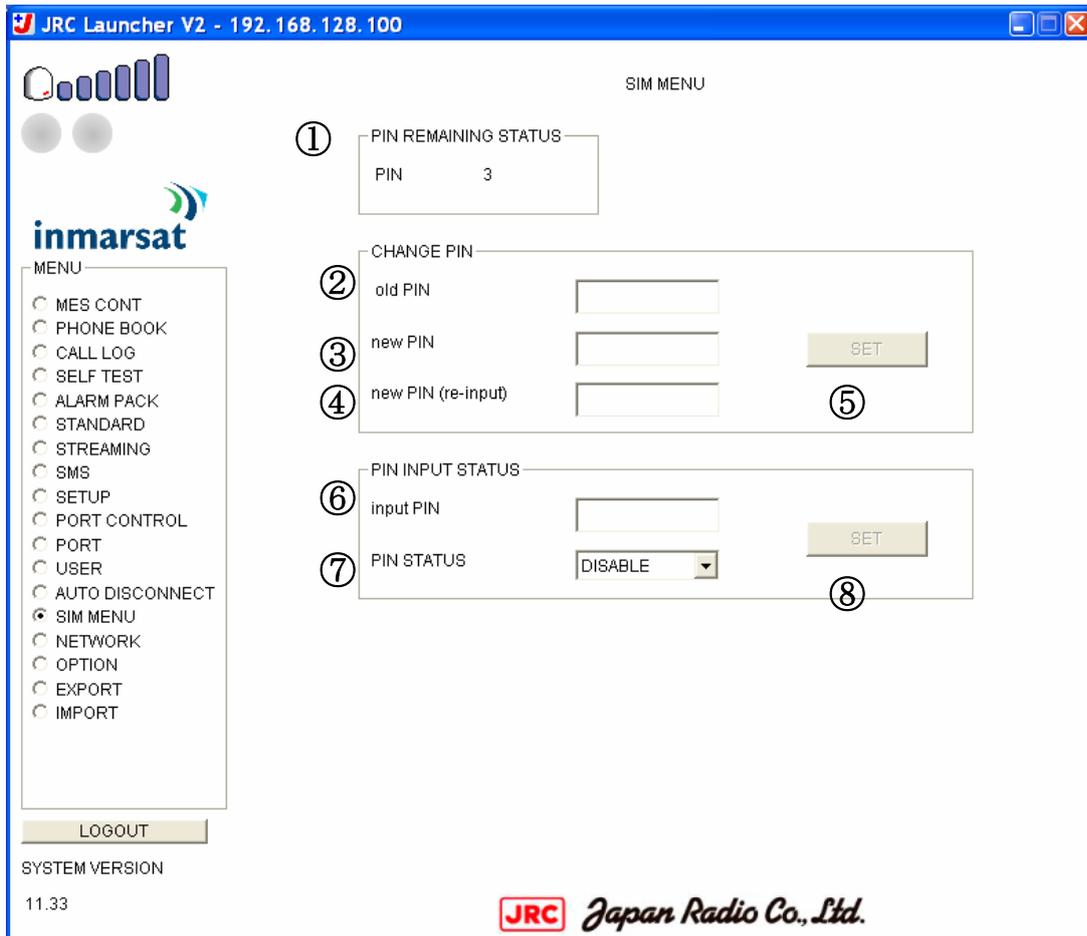
Fig. 25 SIM MENU

Table 26 SIM MENU Screen Items

No	Item	Description
1	PIN REMAINING STATUS	This displays the state of the input of PIN and he remaining number of times that can be input. This is usually **PIN 3**. It becomes **PUK 10** if failing in the input of PIN three times.
2	CHANGE PIN- old PIN（or PUK）	To change PIN, inputs present PIN. When PIN REMAINING STATUS is PUK, the display becomes PUK. In this case, input PUK.
3	CHANGE PIN- new PIN	Input PIN after it changes. Input new PIN after PUK is restored at the PUK input.
4	CHANGE PIN- new PIN(re-input)	Input the same one as new PIN.
5	CHANGE PIN- SET Button	This executes the PIN change (or, PUK restoration).
6	PIN INPUT STATUS- input PIN	Input present PIN. It is not possible to execute it in the state of PUK.
7	PIN INPUT STATUS- PIN STATUS	This sets whether to input PIN when the main unit starts. The PIN input becomes unnecessary when making it to Disable.
8	PIN INPUT STATUS- SET Button	This sets PIN STATUS.

6.16. NETWORK Screen

NETWORK screen has following functions:

- APN Profile
- Packet Filter
- Packet Detection Activate
- Always Activate

These functions can be selected and displayed from the top of the pull-down menu.
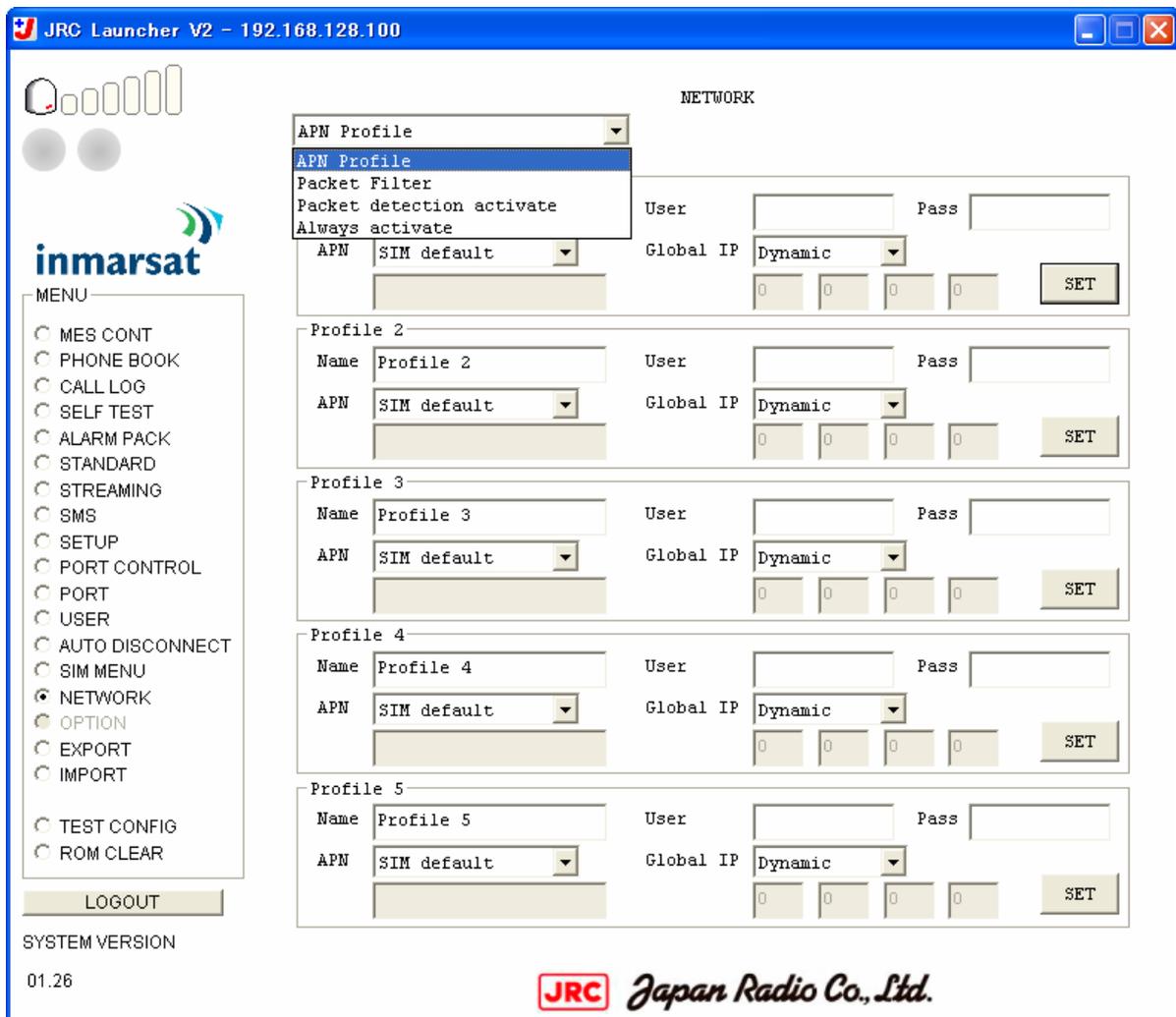
Fig. 26 NETWORK Screen

6.16.1. <u>APN Profile</u>

The APN Profile screen sets APN/Username/Password/Global IP setting as a set of Profile for Standard/Streaming connection. The Profile 1-5 can be used at USER, STANDARD, STREAMING, Packet Detection Activate and Always Activate screen.
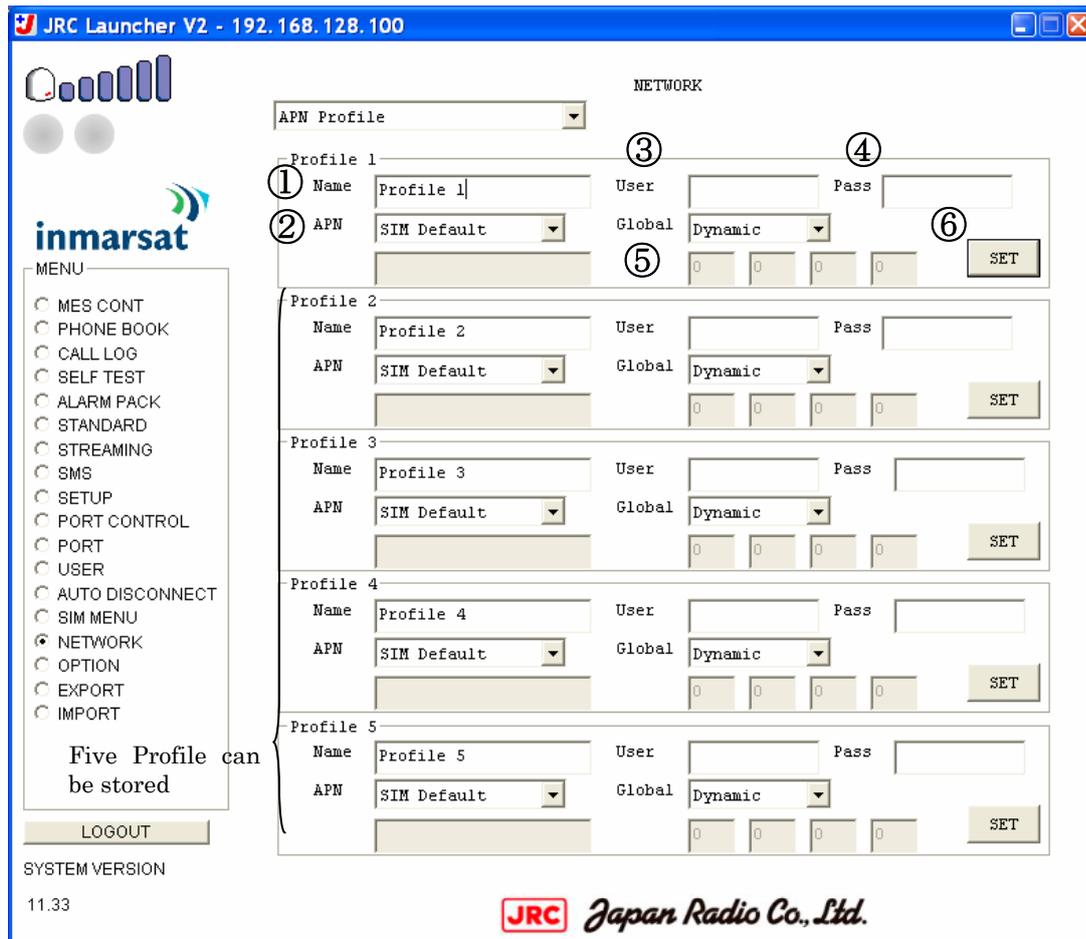
Fig. 27 APN Profile Screen

Table 27 APN Profile Screen Items

No	Item	Description
1	Name	Set the Profile name. Name is used in the pull-down menu at USER, STANDARD, STREAMING, Packet Detection Activate and Always Activate screen.
2	APN	Select APN type to communicate. SIM Default, Network assigned, and User defined. When User defined is selected, APN can be input. (offer from service provider if necessary)
3	User	Inputs the user name. It is provided from SIM card provider.
4	Pass	Input the password. It is provided from SIM card provider.
5	Global	Select Dynamic (dynamic allocation) or Static (static allocation). When Static is selected, IP address can be set. It is provided from SIM card provider.
6	SET Button	Registers Profile Items.

6.16.2. Packet Filter

The Packet Filter screen sets the filtering setting of the IP packets. Main unit can pass/ignore incoming /outgoing packets by setting this screen. Main unit will pass packet if there were no setting.

Main unit have no Packet filter setting by default, so it will pass all packets

The Packet Filter screen can be displayed by selecting NETWORK menu from the MENU List and selecting Packet Filter from the pull down menu at the top of the screen.
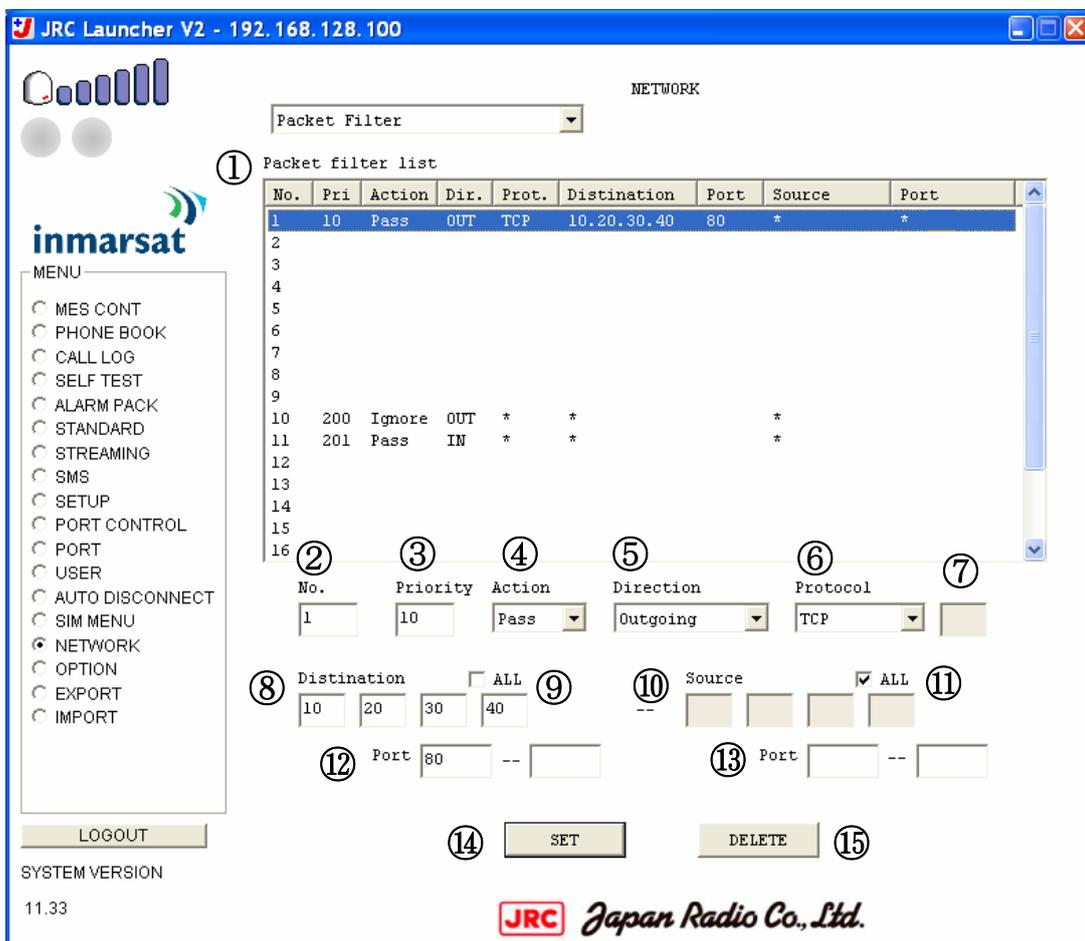
Fig. 28 Packet Filter Screen

Table 28 Packet Filter Screen Items

No	Item	Description
1	Packet Filter List	Packet Filter settings. ∗ stands for wild-card (all value).
2	No.	Packet Filter setting's serial number.
3	Priority	Set the order of priority for Packet Filter setting. The highest priority is 0 and the lowest priority is 255.
4	Action	Select whether to Pass or Ignore a packet.
5	Direction	Select which direction to filter Outgoing (Local to WAN) or Incoming (WAN to Local).
6	Protocol	Select a protocol (ALL/TCP/UDP/ICMP/Specific) to filter. When Specific is selected, protocol number (No.7) can be input. When TCP/UDP is selected, Destination Port (No.12) and Source Port (No.13) can be input.
7	Protocol No.	Input a protocol number to filter.
8	Destination	Input the destination IP address of a packet to filter.
9	Destination All	Check to filter all destination IP address of a packet.
10	Source	Input the source IP address of a packet to filter.
11	Source All	Check to filter all source IP address of a packet.
12	Destination Port	Input the destination port-number range of TCP/UDP packet to filter. Ex) To filter port number 5000-5050 (in range), input 5000 and 5050. To filter port number 80, input 80 only in left-side box. To filter all port number, leave it blank.
13	Source Port	Input the source port-number range of TCP/UDP packet to filter.
14	SET Button	Registers Packet Filter Items.
15	DELETE Button	Deletes the selected Packet Filter Items.

Followings are the examples of the Packet Filter set-up

(1) Pass SMTP (TCP port 25) and POP3 (TCP port 110) packets only

1. Add No.1 to pass outgoing SMTP (Destination TCP Port25) packets.
2. Add No.2 to pass incoming SMTP (Source TCP Port25) packets.
3. Add No.3 to pass outgoing POP3 (Destination TCP Port110) packets.
4. Add No.4 to pass incoming POP3 (Source TCP Port110) packets.
5. Add No.10 to ignore all outgoing packets using lower priority than No1-4.
6. Add No.11 to ignore all incoming packets using lower priority than No1-4.

Packet filter list

No.	Pri	Action	Dir.	Prot.	Destination	Port	Source	Port
1	10	Pass	OUT	TCP	*	25	*	*
2	11	Pass	IN	TCP	*	*	*	25
3	12	Pass	OUT	TCP	*	110	*	*
4	13	Pass	IN	TCP	*	*	*	110
5								
6								
7								
8								
9								
10	200	Ignore	OUT	*	*		*	
11	201	Ignore	IN	*	*		*	
12								
13								
14								
15								
16								

Fig. 29 Set up example1

(2) Pass all packets from/to a PC (192.168.128.50) only

1. Add No.1 to pass outgoing packets from the IP address (192.168.128.50).
2. Add No.2 to pass incoming packets to the IP address (192.168.128.50).
3. Add No.10 to ignore all outgoing packets using lower priority than No1-2.
4. Add No.11 to ignore all incoming packets using lower priority than No1-2.

Packet filter list

No.	Pri	Action	Dir.	Prot.	Destination	Port	Source	Port
1	10	Pass	OUT	*	*		192.168.128.50	
2	11	Pass	IN	*	192.168.128.50		*	
3								
4								
5								
6								
7								
8								
9								
10	200	Ignore	OUT	*	*		*	
11	201	Ignore	IN	*	*		*	
12								
13								
14								
15								
16								

Fig. 30 Set up example2

6.16.3. <u>Packet Detection Activate</u>

This screen sets "Packet Detection Activate" function.

"Packet Detection Activate" is a function that automatically connects Standard IP Connection by detecting outgoing packet from defined IP address range when main unit is ready to connect PS Connection. The Standard IP Connection connected by this function will be disconnected by Standard IP Auto disconnect function if Auto disconnect function is modified.

<NOTE>

- There is a possibility to connect unexpected PS Connection by the settings or operation of terminal connected to Ethernet port. And if packet was sent or received through this connection, communication fee will be charged. Thus be careful to block an unexpected packet by using Packet filter and modifying settings of the terminal etc.

- JRC is indemnified for any communication fee troubles using this function except as outlined in the product warranty and by limitation of law.

- Distribution partner of SIM card might charge a communication fee by only connecting and disconnecting Standard IP Connection.

- Do not overlap IP address range setting of this function with "Always Activate" function.

<NOTE>

Packet Detection Activate function requires you to set IP address and DNS address manually to your terminal. Refer to chapter6 [IP addressing on the JUE-250/500](page 67 in JUE-250, page 6-9 in JUE-500) in the instruction manual of JUE-250 or JUE-500.
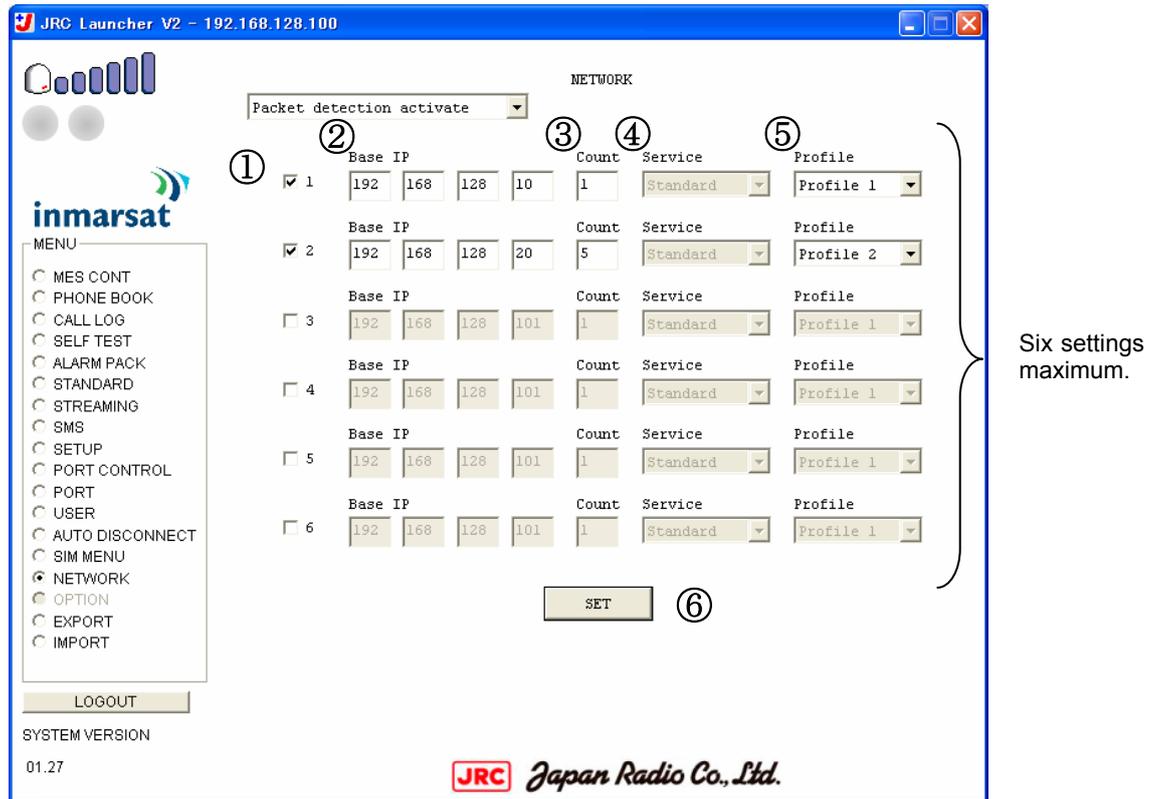
Fig. 31 Packet Detection Activate screen

Table 29 Packet Detection Activate Screen Items

No	Item	Description
1	Enable/Disable Checkbox	Select whether to enable this function or not. Check: Enabled Uncheck: Disabled (settings will turn gray).
2	Base IP	Input the lowest IP address used by this function.
3	Count	Input the IP address range used by this function. The minimum IP address is Base IP. (To use only one IP address: Base IP, input "1" in Count). The range can be set up to 1-254 but it must be smaller than maximum size of 4th octet (Smaller than 255). Ex: NG case1: Base IP=10.1.1.0, Count=255 (out of Cont range) NG case2: Base IP=10.1.1.254, Count=2 (4th octet gets bigger than 254).
4	Service	Select Standard or Streaming used by this function. * This setting is fixed at Standard in current version.
5	Profile	Select the Profile used by this function. Profile can be defined at [NETWORK]-[APN Profile] menu.
6	SET button	Registers all the above Items. Restart main unit to apply the settings.

6.16.4. <u>Always Activate</u>

This screen sets "Always Activate" function.

"Always Activate" is a function to automatically connect and keep Standard IP Connection after the start-up of main unit when it is ready to connect PS Connection by defined IP address. (This function will reconnect PS connection when it detects the disconnection by any reason). The Standard IP Connection connected by this function will **never** be disconnected by Standard IP Auto disconnect function.

<table>
<tr><td colspan="1"><NOTE></td></tr>
</table>

- The PS Connection connected by this function never gets disconnected by Auto Disconnect function.
- There is a possibility to get unexpected communication fee charged by sending and receiving unexpected packet through the connection. Thus be careful to block an unexpected packet by using Packet filter and modifying settings of the terminal etc.
- JRC is indemnified for any communication fee troubles using this function except as outlined in the product warranty and by limitation of law.
- Distribution partner of SIM card might charge a communication fee by only connecting and disconnecting Standard IP Connection.
- If you can not send a packet through this connection, disconnect the connection and wait till it reconnects again. Then after that, try to send a packet again.
- Do not overlap IP address range setting of this function with "Packet Detection Activate" function.
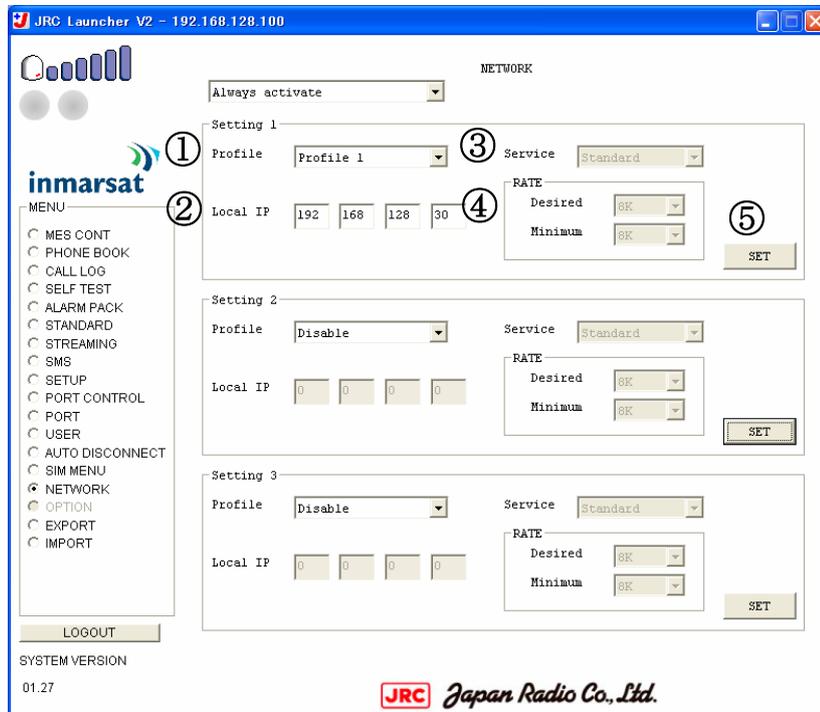
Fig. 32 **Always Activate** screen

Table 30 Always Activate Screen Items

No	Item	Description
1	Profile	Select the Profile used by this function. Profile can be defined at [NETWORK]-[APN Profile] menu. Select Disable to turn off this function (settings will turn gray).
2	Local IP	Input the Local IP address used by this function.
3	Service	Select Standard or Streaming used by this function. * This setting is fixed at Standard in current version.
4	RATE	Select bit rate of Streaming used by this function. * This setting is disabled (turned gray) in current version.
5	SET button	Registers one set of the Items. Restart main unit to apply the settings.

6.17. OPTION Screen（Only FB500 can be selected.）

The OPTION screen can do the setting of the device connected with OIU and the setting of OIU IP.

It is necessary to restart main unit to reflect the setting when GPS/DIAGNOSTIC/IP is set.
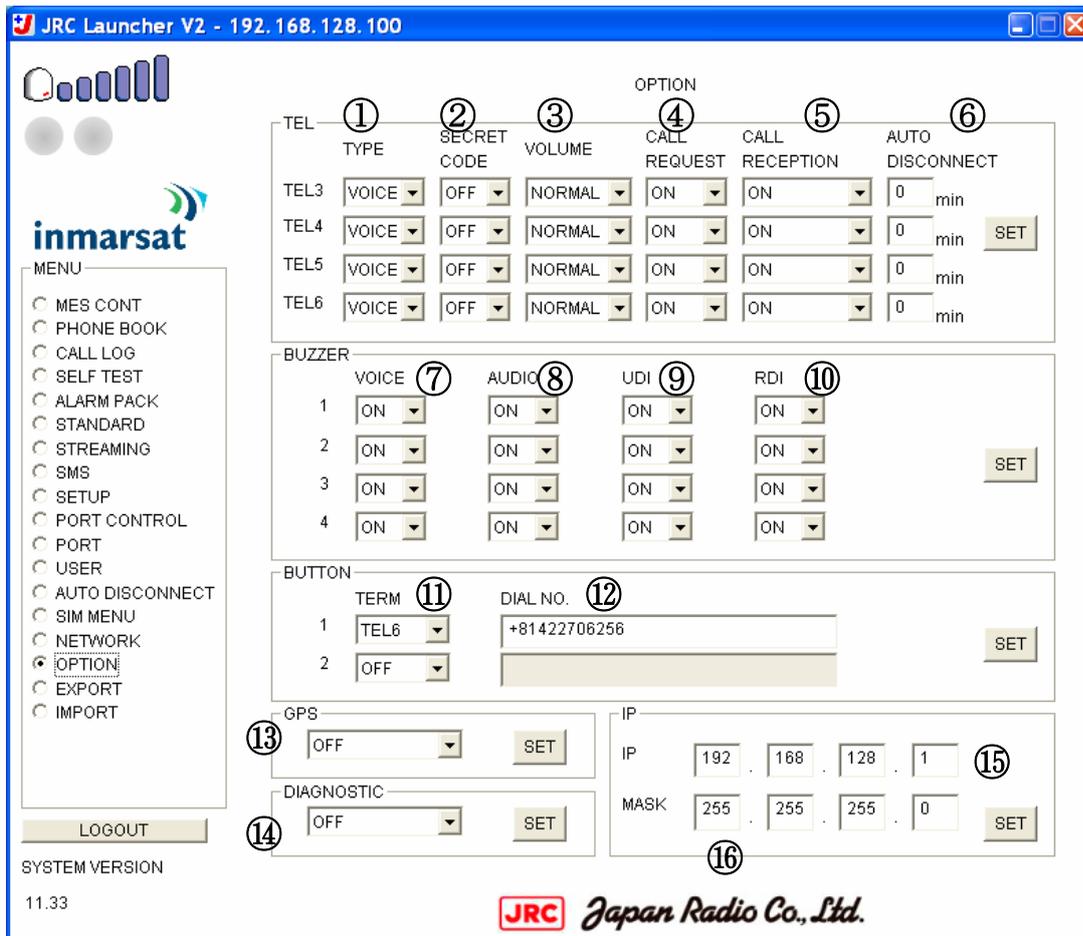
Fig. 33 OPTION Screen

Table 31 OPTION Screen Items

No	Item	Description
1	TEL-TYPE	This sets whether to use TEL3-6 by VOICE/FAX/BOTH. When [BOTH] is selected to the port, it can receive phone call and FAX call at the same port. And it will make a call by [VOICE]. Add ** on the head of dialing sequence if you want to make a call by FAX.
2	TEL-SECRET CODE	This sets the use or nonuse of the secret cord in TEL3-6.
3	TEL-VOLUME	This sets the volume of TEL3-6.
4	TEL-CALL REQUEST	This sets permission/no permission of sending of TEL3-6.
5	TEL-CALL RECEPTION	This sets the incoming permission, no permission or the time until sounding the ring in the TEL3-6. The time until sounding the ring can be selected from 5 seconds, 10 seconds and 20 seconds.
6	TEL-AUTO DISCONNECT	This sets the automatic disconnecting time of TEL3-6. (240 minutes or less) Or, this can be set not to disconnect it automatically.
7	BUZZER-VOICE	This sets whether BUZZER1-4 sounds by arriving VOICE.
8	BUZZER-FAX	This sets whether BUZZER1-4 sounds by arriving FAX.
9	BUZZER-UDI	This sets whether BUZZER1-4 sounds by arriving UDI.
10	BUZZER-RDI	This sets whether BUZZER1-4 sounds by arriving RDI.
11	BUTTON-TERM	This sets the terminal used for sending when BUTTON1-2 is pushed. Or, it is set not to use it.
12	BUTTON-NO	This sets the number sent when BUTTON1-2 is pushed.
13	GPS	This sets the method of connecting external GPS used or no use.
14	DIAGNOSTIC	This sets the method of connecting Voyage Data Recorder（VDR） used or no use.
15	IP	This sets IP address of OIU.

6.18. EXPORT Screen

Each set up information is exported to the external file on the EXPORT screen.

As for the exported data, import is possible on the IMPORT screen of JRC Launcher V2.

※The import of the data that exported with JRC Launcher V2 is impossible in OIU-WEB.
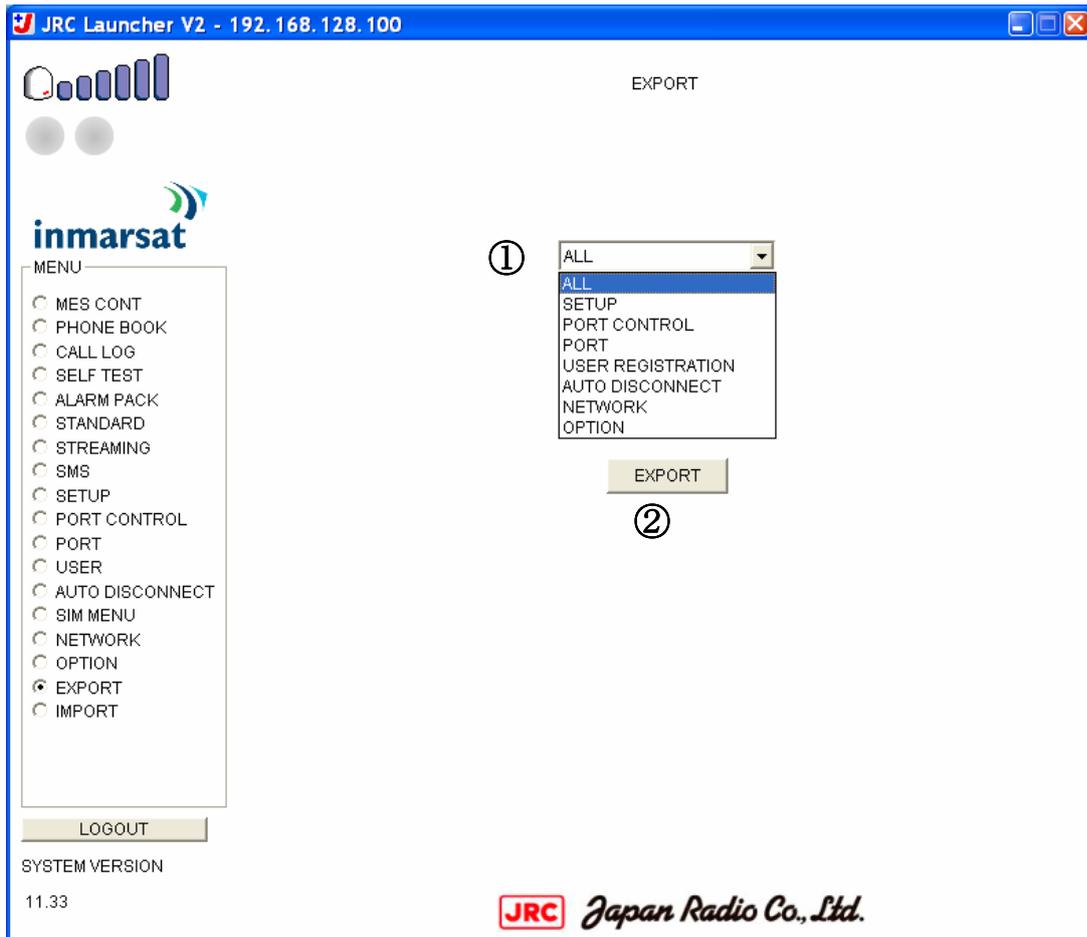
Fig. 34 EXPORT Screen

Table 32 EXPORT Screen Items

No	Item	Description
1	EXPORT Data Selection Pull-down Menu	The exporting data is selected. The choice is eight of seven kinds of following data and ALL including the all. ・SETUP ・PORT CONTROL ・PORT ・USER REGISTRATION ・AUTO DISCONNECT ・NETWORK ・OPTION (only for JUE-500) Each data is equal to the content of the setting screen.
2	EXPORT Button	This exports the selected data.

6.19. IMPORT Screen

The IMPORT screen can import the setting data that exported with EXPORT screen of JRC Launcher V2.

※The data which exported in OIU-WEB are impossible to import in JRC Launcher V2.
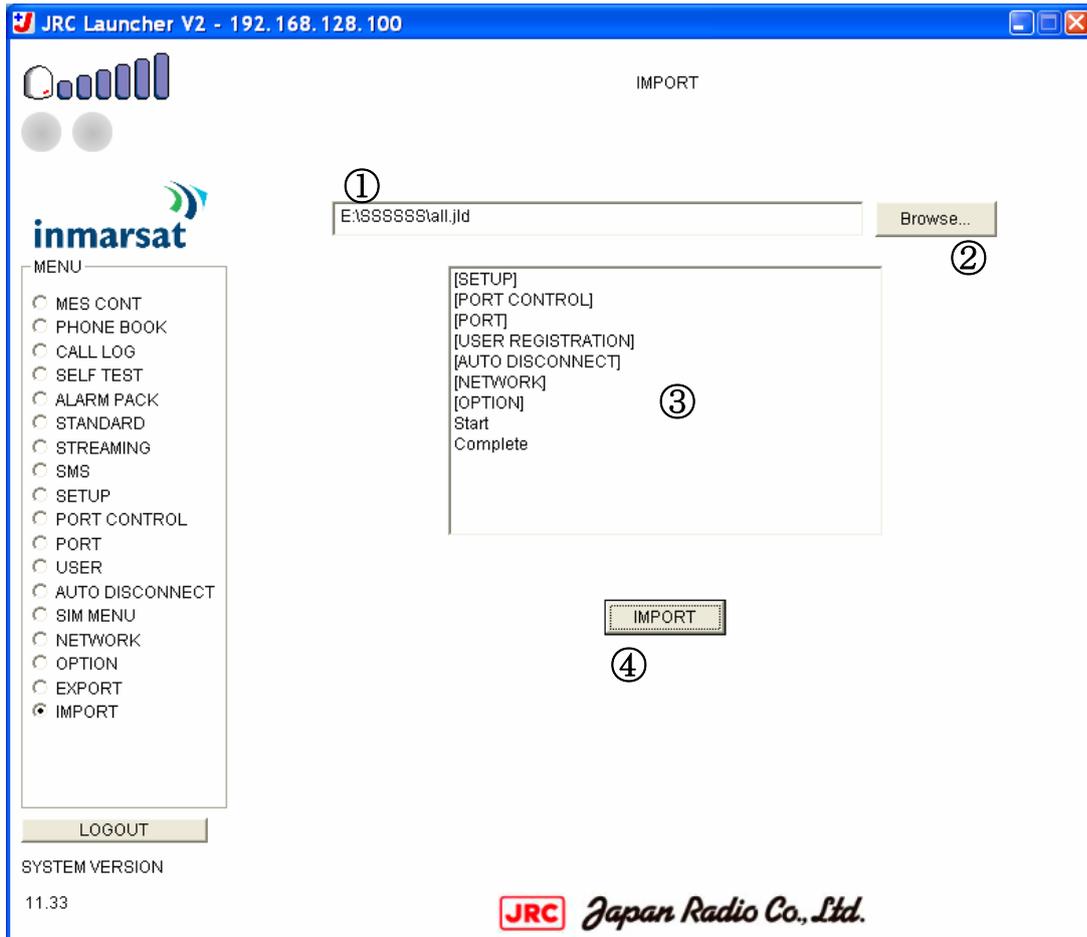
Fig. 35 IMPORT Screen

Table 33 IMPORT Screen Items

No	Item	Description
1	IIMPORT File Column	This specifies the importing file in the full path. It is possible to select it from the dialog by pushing the Browse button.
2	Browse...Button	This opens the dialog that selects the importing file.
3	Result Display Column	This displays the import result. "[X]": This shows the selected import data. (Import data name comes in X. Refer to Table 32.) "Complete": This shows the Import process has finished. "Result": This shows Import has failed. The failed import data and the failed cause will be displayed after the message.
4	IMPORT Button	This imports the file specified in the IMPORT file column.

7. DIFFERENCE BY CONNECTED MAIN UNIT（FB250 AND FB500）

JRC Launcher V2 is different by connected main unit and a part of operation is different in the case of FB250 and the case of FB500.

The difference is brought together as follows.

Table 34 Difference between FB250 and FB500

No	Part with Difference	In the Case of FB250	In the Case of FB500
1	MENU OPTION	It is nullified, and it is not possible to select it.	It is possible to select it.
2	CALL LOG	There are neither UDI nor RDI in SERVICE TYPE.	There are UDI and RDI in SERVICE TYPE.
3	ALARM PACK	A peculiar parameter to FB500 displays an empty column.	All parameters are displayed.
4	Rate of STREAMING	256K is not in choices.	256K can be chosen.
5	SETUP GYRO Classification	NMEA(38.4k) and LAN are not in choices. (SYS01.24 or higher version can select NMEA(38.4K).)	NMEA(38.4k) and LAN can be chosen.
6	PORT CONTROL	CALL REQUEST and CALL RECEPTION cannot be set. (SYS01.24 or higher version can select CALL REQUEST and CALL RECEPTION.)	CALL REQUEST and CALL RECEPTION can be set.
7	PORT MSN	MSN of UDI and RDI cannot be set.	MSN of UDI and RDI can be set.
8	EXPORT	OPTION is not in choices.	OPTION can be chosen.
9	IMPORT	If the OPTION setting is imported, it becomes an error.	The OPTION setting can import.

8.　ERROR CODE

When the error occurs when operating it, JRC Launcher displays the following errors.

The explanation of each error is described as follows.

Table 35 Error Code List (1/2)

No	Display Character String	Description
Error 1 returned when user inputs it (JRC Launcher return)		
0001	Illegal input value	The mistake is found in the input value. ※For instance, 400 deg's etc. are put in the Heading value.
0002	Status error	It is not possible to execute in the present state.
0003	BDE is not connected	This is not connected with BDE.
0004	BDE is disconnected	This was disconnected from BDE. (CM link)
0005	BDE is disconnected	This was disconnected from BDE. (IB link)
0101	The same priority was specified	Same priority level was defined in Packet Filter setting.
0998	Wait connecting	This is an authentication error with which IB is not connected.
0999	Authentication error	Authentication error
Error 2 returned when user is input (external device return)		
1001	CM error	An abnormal response was returned.
1002	CM error [AT response]	The error was returned to the AT command.
1003	CM error [access refused]	The access was refused.
1004	CM error [read]	Reading failure.
1005	CM error [write]	Writing failure
1006	CM error [delete]	Deletion failure
1007	CM error [send]	Sending failure
1008	CM error [status change]	The state was not changed.
1009	CM error [incorrect password]	The password is incorrect.
Error of BDE side		
2001	IB error	The echo response was refused by IB.
2002	IB error	The screen data reading was refused by IB.
2003	IB error [reserved command]	The command that had been reserved to IB was refused.
2004	IB error	A usual command was refused by IB.
2005	IB error [illegal command]	An illegal command was refused by IB.
2006	IB parameter is few	The parameter of the response message from IB is insufficient.
2007	IB error [CM response]	The command forwarding to IB was refused to CM.

Table 36 Error Code List (2/2)

No	Display Character String	Description
System error		
9001	CM Socket error	This is a socket communication error.
9002	IB Socket error	This is a socket communication error.
9003	Log file open error	This failed in the opening of the log file.
9004	Standard file open error	This failed in the opening of the Standard setting file.
9005	Streaming file open error	This failed in the opening of the Streaming setting file.
9006	Import file open error	This failed in the opening of the specified Import file.
9007	Export file open error	This failed in the opening of the specified Export file.
9008	Export file write error	This failed in writing in the Export file.
9999	Error	These are other errors.

9. EXPORT FILE

The export file can be made by the Export menu.

The following default names attach with each exporting data. The user can change this to an arbitrary file name.

No	File Name	Description
1	setup.jld	This is data that exported the content of the SETUP menu.
2	portctrl.jld	This is data that exported the content of the PORT CONTROL menu.
3	port.jld	This is data that exported the content of the PORT menu.
4	user.jld	This is data that exported the content of the USER REGISTRATION menu.
5	autodisc.jld	This is data that exported the content of the AUTO DISCONNECT menu.
6	Network.jld	This is data that exported the content of the NETWORK menu.
7	option.jld	This is data that exported the content of the OPTION menu.
8	all.jld	This is data that exported all of the above-mentioned seven-kind content.

10. Glossary

A

ADE	Above Deck Equipment
APN	Access Point Name

B

BDE	Below Deck Equipment
Bit	The basic unit of digital communications; may be either 1 or 0.
BPS	bit per second
Byte	*One byte comprises eight bits and may represent either one alphanumeric character or numeric information.

C

COMM	Communication
CS	Circuit Switched

D

DEL	Delete
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name System

E

EIRP	Effective Isotropically Radiated Power, a measure of transmitted power
EXT	External

G

GPS	Global Positioning System

I

IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriver Identity
INFO	Information
INMARSAT	International Maritime Satellite Organization

ISDN   Integrated Services Digital Network

L

LCD   Liquid Crystal Display

LED   Light Emitting Diode

LT   Local Time

M

MES   Mobile Earth Station

MSISDN   Mobile Subscriver ISDN

N

NMEA   National Marine Electronics Association

P

Packet   *An envelope or block of data sent over a network; each packet contains
                          addressing information as well as the data being sent.

PC   Personal Computer

PIN   Personal Identification Number

Protocol   *A defined set of communications standards which lay down the parameters to
                which all users must abide. Protocols in general use are X.25 and X.400.

PS   Packet Switched

PUK   Personal Unlock Key

R

REC   Receiving Level

RX   Receive/Receiver

S

SIM   Subscriber Identity Module

SMS   Short Message Service

T

TX   Transmit/ Transmitter

U

USB	Universal Serial Bus
UTC	Universal Coordinated Time

11. ALARM STATUS ABBREVIATION

Table 37 Full sentence of BDE/ADE alarm status

Alarm status	Full sentence
FAN	FAN error.
AXIS	ADE Axis error.
ACC	ADE Acc error.
RATE	ADE rate sensor error.
MEM	ADE memory error.
OPWR	TX ALARM : Off Power
HPWR	TX ALARM : High Power
BURST	TX ALARM : Burst
PROG	ADE program error.
GPS	GPS error.
ADEC	ADE Communication error.
CMC	CM Communication error.
HSC	HANDSET Communication error.
CALIB	Cable calibration error.
IOM2	IB-CM IOM2 Bus error.
IBCM	IB-CM AT command error.
GYC	GYRO Communication error.
NSK1	NSK Unit NOINT error.
NSK2	NSK Unit Sync IM error.
NSK3	NSK Unit Step IM error.
NSK4	NSK Unit R1R2det error.
NSK5	NSK Unit WDT error.
NSK6	NSK Unit program error.
IUPG	IB Upgrade error.
AUPG	ADE Upgrade error.
OCOMM	OIU Communication error.
EXGPS	External GPS error.

12. FAQ

Table 38 FAQ

No	Q	A
1.	Can not log-in JRC Launcher V2 999 Wait connecting has been displayed	Wait till CM and IB connection status shows "Connected" in the LOG IN screen at the bottom right corner. If CM or IB connection status does not show "Connected" after several tens of seconds, try the following procedure. When CM shows "not connected": 1. Check LAN cable connection 2. Check the main unit IP address from Handset "MENU" – <9> ADMIN (secret code 0001) - <3> Port - <3> Ethernet. If the IP address displayed at the top-bar of JRC Launcher is different from the IP address displayed on Handset, push the IP button in the JRC Launcher and input the IP address displayed on the Handset. When IB shows "not connected" or "initialize": 1. Check Handset connection and the main unit status Handset must be connected and main must not be the "Initialize" or "safe mode" status. If Handset was not connected, connect Handset and restart the main unit.
2.	7001 Data reading failure has been displayed	Too many data access at a time via many PC might cause this issue. Try again later or restart JRC Launcher V2.
3.	Few call logs are missing	Same as No.2.
4.	Few alarm packs are not missing	Same as No.2.
5.	How can I use JRC Launcher V2.0.4.X's STANDARD/STREAMING screen like ones in JRC Launcher V2.0.3.X	Set "Manual" to Standard profile and Streaming profile in USER screen for each user.

6	How can I change TCP PEP setting? (Windows XP)	The controls will be gray, if TCP PEP is not installed in your computer. Install TCP PEP and restart JRC Launcher V2.
7	How can I change TCP PEP setting? (Windows Vista and 7)	The controls will be gray, if TCP PEP is not installed in your computer or don't have administrator privileges. Use administrator privileges to install TCP PEP and to restart JRC Launcher V2.

13. REVISION HISTORY

Version	Date(D/M/Y)	Contents
1.5	10/02/2010	First release
1.6	8/04/2010	Added an information in 1.3 Operation Environment Added chapter 1.4 TCP Port Number Added chapter 1.6 Usage Note Added chapter 2.1 Upgrade
1.7	21/09/2010	Supports JRC Launcher V2.0.4.0. Added new items in Function comparison table at chapter 1.2. Added version requirement table to chapter 1.4. Added explanation to use checkbox in LOG IN screen to save the password to chapter 3.1. Changed the explanation in chapter 5. Added explanation for Standard/Streaming IP connection in chapter 6.7 and 6.8. Added explanation to use Unicode SMS in chapter 6.9. Added explanation for service type "BOTH" in chapter 6.11. Added explanation for Standard/Streaming pull down menu and Single/MULTI checkbox in chapter 6.13. Added explanation for Standard auto disconnection in chapter 6.14. Added screen and explanation for NETWORK menu chapter 6.16. Added explanation for service type "BOTH" in chapter 6.17 (for JUE-500 use). Added notes in comparison table in chapter 7. Changed error code list in chapter 8. Added FAQ in chapter 11.
1.8	2011/02/04	Supports JRC Launcher V2.0.4.8. Added explanation of Packet Detection Activate chapter 6.16.3. Added explanation of Always Activate in chapter 6.16.4. Added explanation of Connect button in table 12 and 14. Added explanation of TCP PEP in table 12 and 14. Added ALARM STATUS ABBREVIATION chapter at 11. Added explanation of TCP PEP in chapter 12. FAQ.
1.9	2011/03/29	Added note for Packet Detection Activate chapter 6.16.3.