

NETIMPRESS air

**CAN Flash Programmer & Logger
OPERATION MANUAL
For Programmer**

Revision History

Edition	Date of Issue	Description
First Edition	2015.04.06	Initial publication.
Second Edition	2016.01.25	Modified the NOTES on page 1. Added sequence control and change of SBD signal control mode to stand-alone operation. Modified Error code.

NOTES

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INTRODUCTION

NETIMPRESS air Operation manual For Programmer, (hereinafter “manual”), describes the followings.

- How to set up and operate NETIMPRESS air
- How to install and use the software.
- Notes and points for using NETIMPRESS air.

Before configuring and executing the programming environment by using NETIMPRESS air, read this manual carefully.

Display screen images of Windows 7 environment are used in this manual. Display screen image and operating procedures may vary if you are using other environment.



The wording **Programming** in this manual means writing data into a target microcomputer flash memory or an external flash memory connected to the target microcomputer.

ICON

The following table describes the meaning of icons used in this guide.



It indicates very important information. Be sure to perform an operation with extra care.



It indicates useful information and tips for operation.



It indicates reference. Please see the reference chapter of this guide and other manuals, if you needed.

Glossary (1/2)

Word	Meanings
Micom-pack	Package of a parameter file etc. which supports specific MCU. It can be available from our website. Micom-pack file is a compressed file (ZIP format). Contents of Micom-pack are Parameter file (.PRM), manuals (.PDF), write control program (.BTP), and read me file etc. Contents of the file vary depending on the MCU
Buffer memory	NETIMPRESS air has a buffer memory whose memory is same as the programming target MCU in the each YIM folder of SD card. When the flash memory programming, data in the buffer memory is programmed into MCU. NETIMPRESS air has a function to read / save the object file of the user in the buffer memory.
Definition program	MCU-specific program to communicate each MCU. This is placed the each YIM folder in the SD card.
Definition program license	To download the definition program into YIM folder, a definition program license has to be added into the SD card for each definition program. This definition program license file (extension: ALC) can be downloaded if you register your information on our website by referring to the license sheet provided when you purchased the definition program. The license file can be added onto the dedicated SD card by using AZ990 (NETIMPRESS air Connect).
Logger license	This license is required to use the logger function. For details, see the operation manual for logger.
Object file	This is the program/data file for programming into the flash memory of microcomputer by the user. NETIMPRESS air supports the binary, intel HEX, and Motorola S format.
Write Control Program	For some flash MCU, there is no program (firmware) to program the user data to the flash memory. If you use those MCU with NETIMPRESS air, you need to download the write control program to those MCU from NETIMPRESS air. For those MCU, boot program is executed when starting up the programmer in the programming mode, and the write control program is downloaded at this time. When downloading the write control program, copy the supported MCU file (extension: BTP) into YIM folder in the SD card.
WCP	This is an abbreviation of Write Control Program.
Current file	Current file is a file which is downloaded into YIM folder the latest. The name of current file is set when loading the file.

Glossary (2/2)

Word	Meanings
Programming	Programming means to program the flash memory.
Programing conditions	Programming conditions mean to set up the programming environment.

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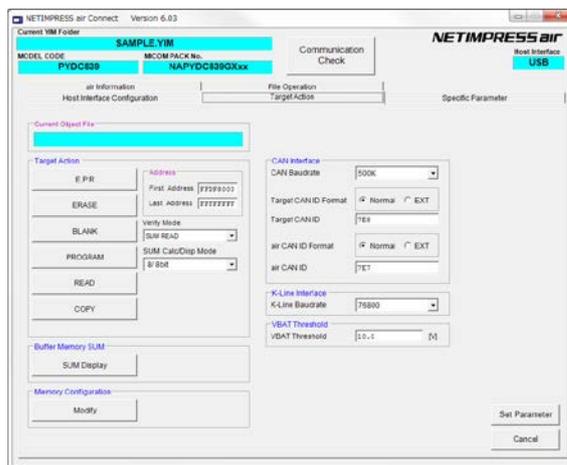
1. OVERVIEW AND FEATURES

This chapter describes overview of NETIMPRESS air series, composition of programming environment, and necessary operation procedures for starting programming.

1.1. Overview of NETIMPRESS air Series

NETIMPRESS air is a compact CAN Flash Programmer and Logger tool which you can use for ECU development, evaluation, and field services. NETIMPRESS air is equipped with USB, you can run and control it via USB of PC. Moreover WLAN model (/W model) is equipped with Wireless LAN, therefore you can operate it in wireless environment.

NETIMPRESS air can operate by an electrical power (12V) provided by in-car battery. Therefore you can do a programming and logging by using NETIMPRESS air as a stand-alone operation (without AC adapter).



NETIMPRESS air Connect



By adding each firmware (definition program file) for programming microcomputer into the SD card for NETIMPRESS air, it can support various devices.

It can also save the logging data in the SD card by adding a license for logging.

If you install AZ990 (Programming software) and AZ992 (Logging software) on PC, you can set programming/logging conditions and execution via USB or WLAN.

Setting conditions are stored in the SD card. Therefore you can use it as a stand-alone (without PC).

1.2. Communication Environments

USB and Wireless LAN can be used for communication between NETIMPRESS air and a host PC.

Specific USB driver is necessary for USB connection.

When you use NETIMPRESS air with Wireless LAN, an access point or a host PC connectable by wireless LAN is necessary.

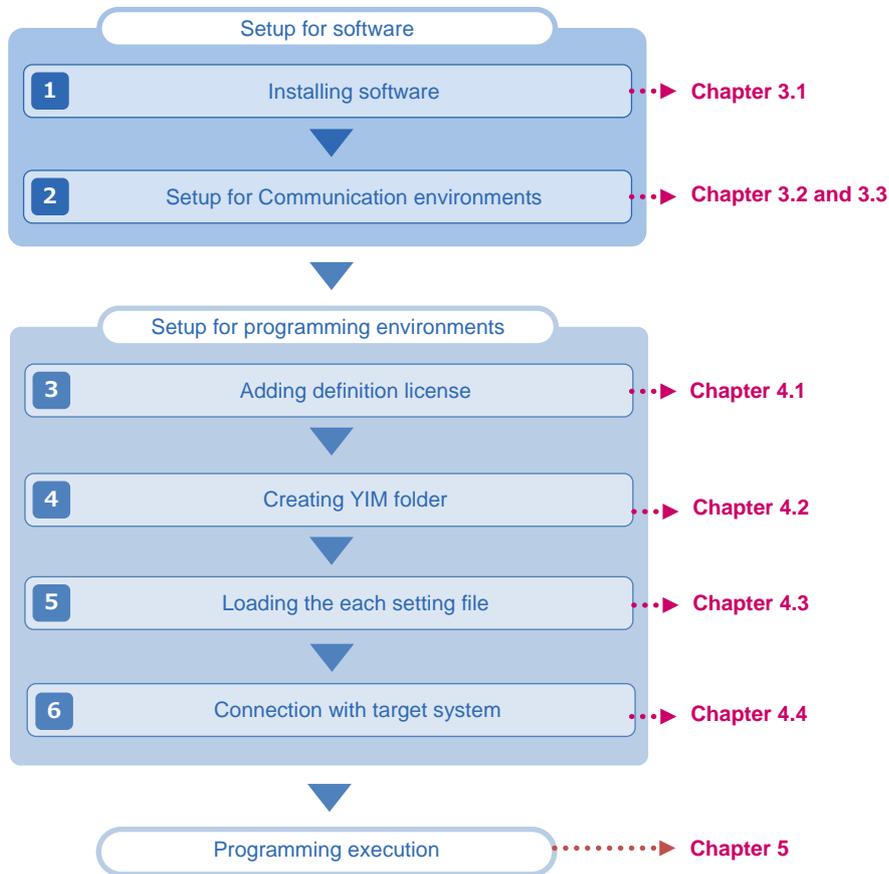
The SD card for
NETIMPRESS air

- The SD card which contains programming firm data for microcomputer. Programming for each device can be supported by inserting the SD card into NETIMPRESS air.
- You can expand the supported communication protocols by adding a definition program license.
- SD card is empty with factory setting. Please make sure to add a definition program license before operation.
 For how to add a license, see Chapter 4.1.
- For MCU which is same series as the MCU supported by one license, it can be supported by adding a MICOM-pack provided by DTS INSIGHT.
 For details of Micom-pack, see Chapter 4.3.
- Make sure to use the SD card provided by DTS INSIGHT. (If you use other SD cards, NETIMPRESS air cannot work. Commercially available SD card is not available.)

1.3. Steps for Programming

This chapter describes basic steps from installing software to starting a programming.

If you need to know the detailed setting procedure, see each referenced manual.



2. CHECK THE HARDWARE/SOFTWARE COMPONENT (For Basic Configuration)

2.1. Hardware

- NETTIMPRESS air main unit (model : AF930 or AF930/W)
- SD card for NETIMPRESS air (Model name: FX900)
- Target probe/adapter

This varies depending on the target environment.

- Host PC

Windows OS (Windows7 32bit/64bit, Windows10 32bit/64bit) is supported.

- USB cable

Directly connect the USB code to the host PC.

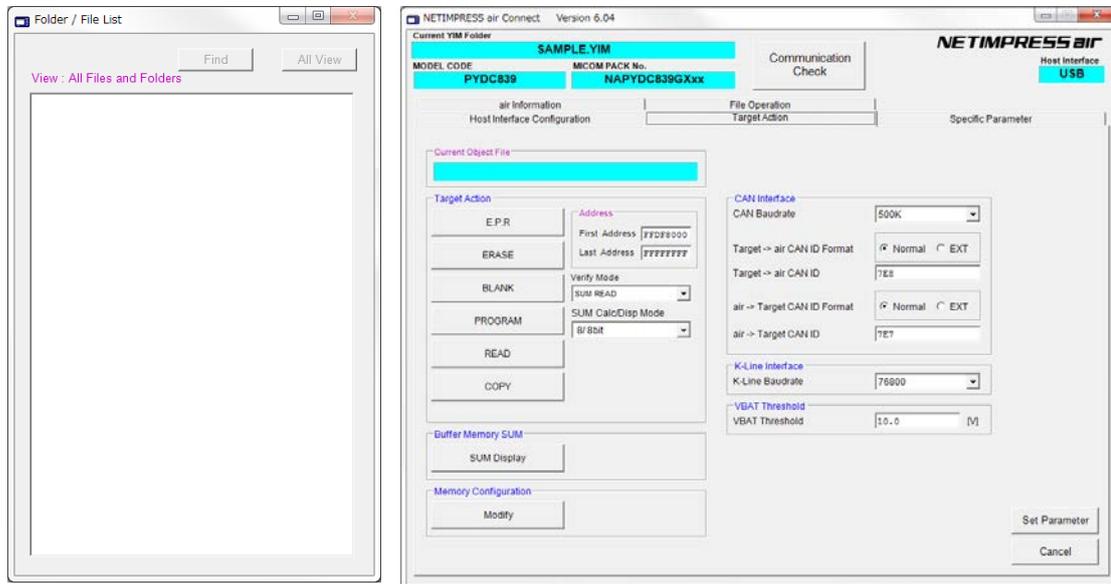


Make sure to use USB cable provided with NETIMPRESS air.

2.2. Software

(1) AZ990 (NETIMPRESS air Connect)

AZ990 is used for downloading files, executing the program, and setting parameters.



2.2.1. Operating environment of software

OS	Windows7 32bit (Professional) or 64bit (Professional) Window10 32bit(professional) or 64bit(Professional) Japanese, English
CPU	1GHz or above
Memory	1GByte or above
Monitor	1024x768 or greater
Others	.NET Framework 3.5 is used USB2.0 connector (If connected by USB) Wireless LAN (If connected by wireless LAN)

3. SETTING UP THE SOFTWARE

3.1. Installing the Software

The software below is used for configuring the programming environment.

- AZ990 (NETIMPRESS air Connect)

Those softwares are available from our home page.

Download it from the link below.

https://www.dts-insight.co.jp/en/support/support_netimpress_air/?m=Document&item=1



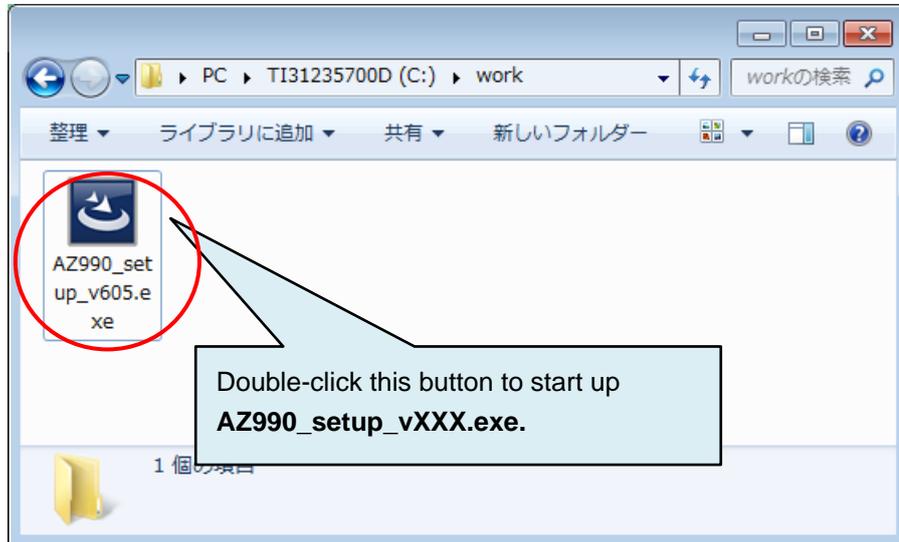
In this manual, it is assumed that the latest version of AZ990 is used. If you are using the old versions of AZ990, the screen structure will be different. Please download and install the latest version from the link above.

Software is a self-extraction file. Extract the file onto the host PC, and then install it. After the completion of installation, an icon is created on the Windows [Start] menu – <All programs >—< DTS INSIGHT Tools>.

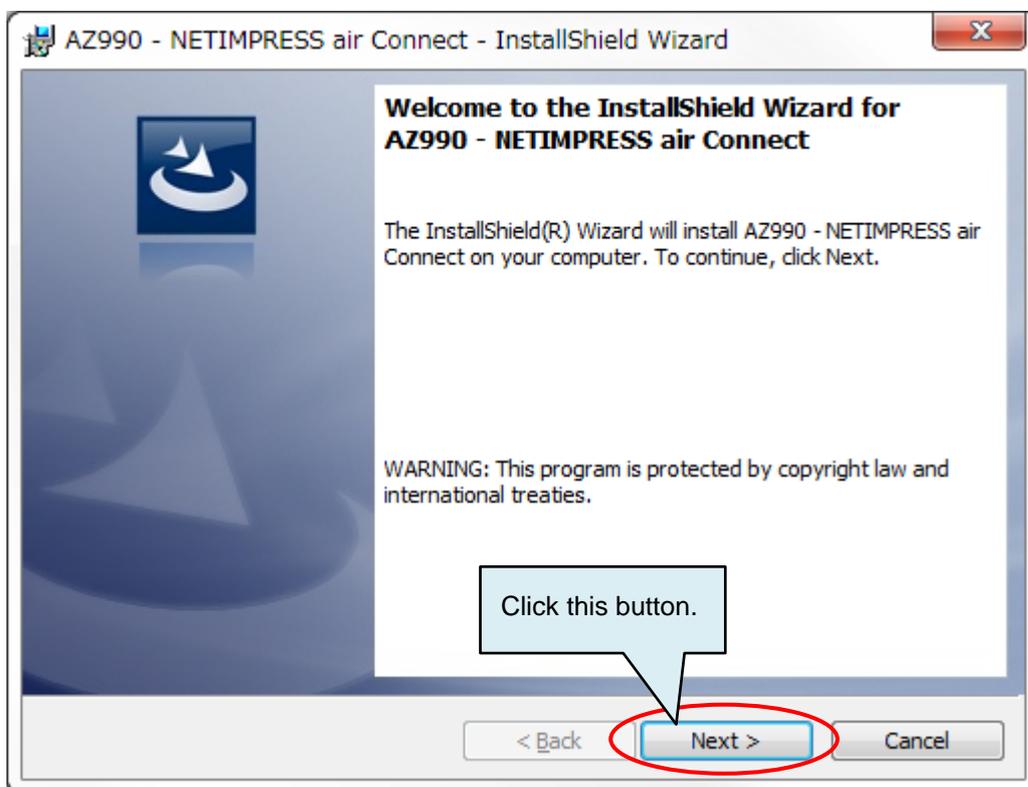
3.1.1. How to install AZ990 (NETIMPRESS air Connect)

Make sure to log on as an administrator.

- (1) Start up AZ990_setup_vXXX.exe (XXX varies depending on the version).

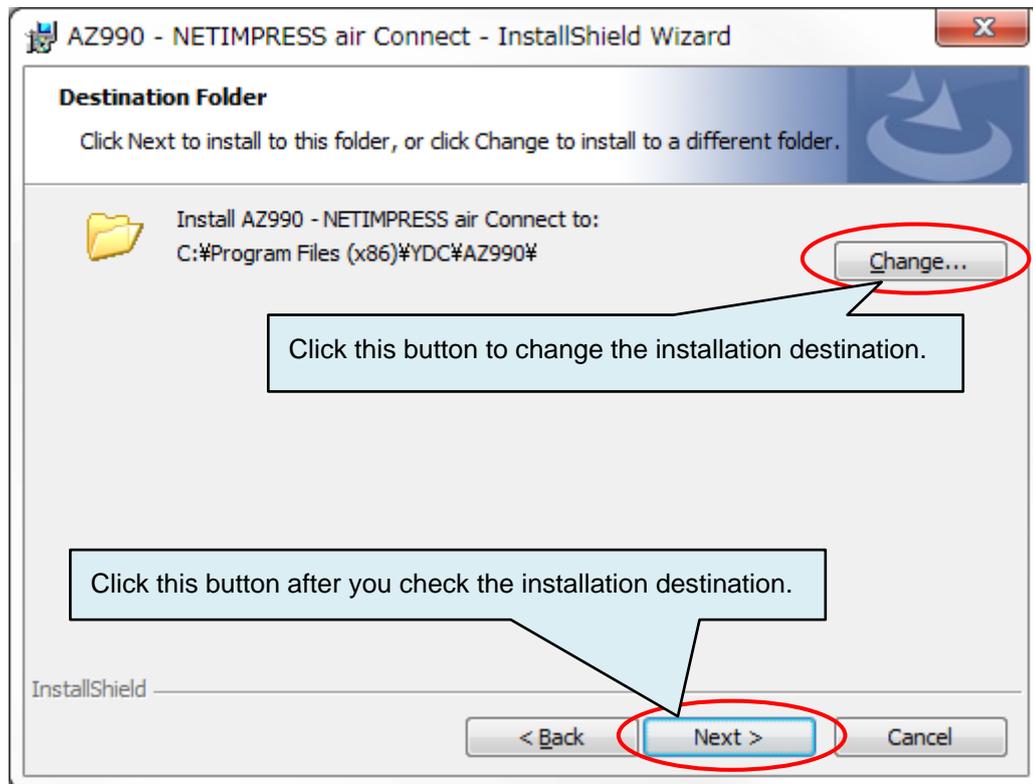


- (2) The following dialog box will be displayed if you start up AZ990_setup_vXXX.exe. Click the **NEXT** button.

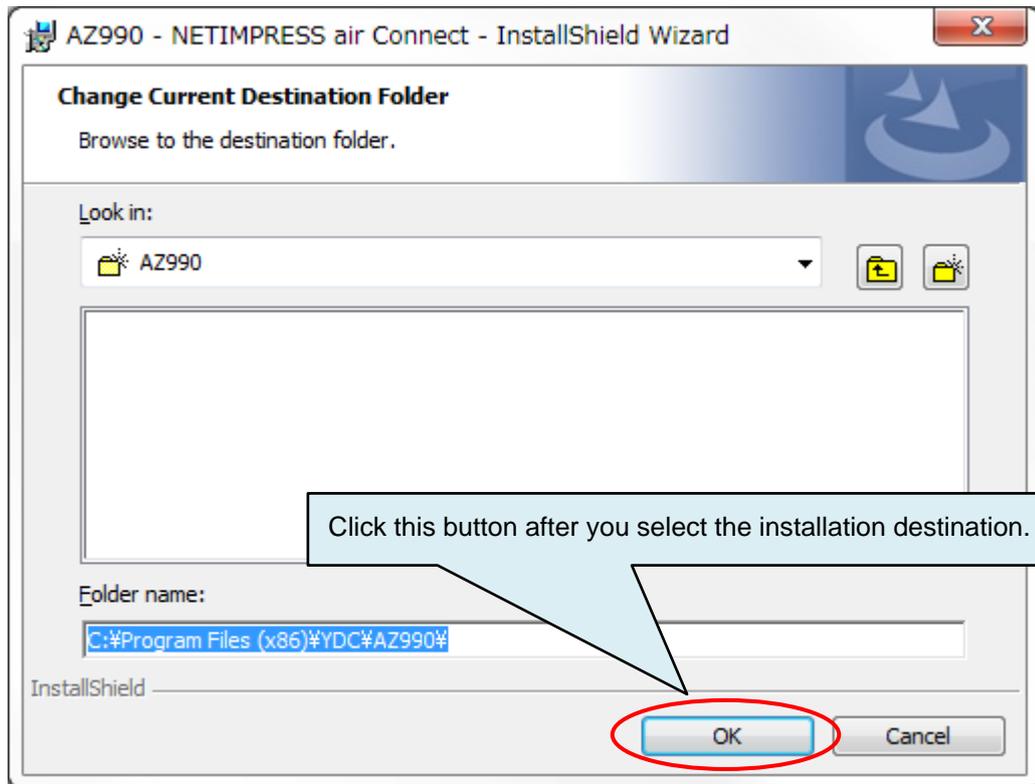


(3) Check the installation destination, and then click the **Next** button.

If you want to change the installation destination, click the **Change** button.

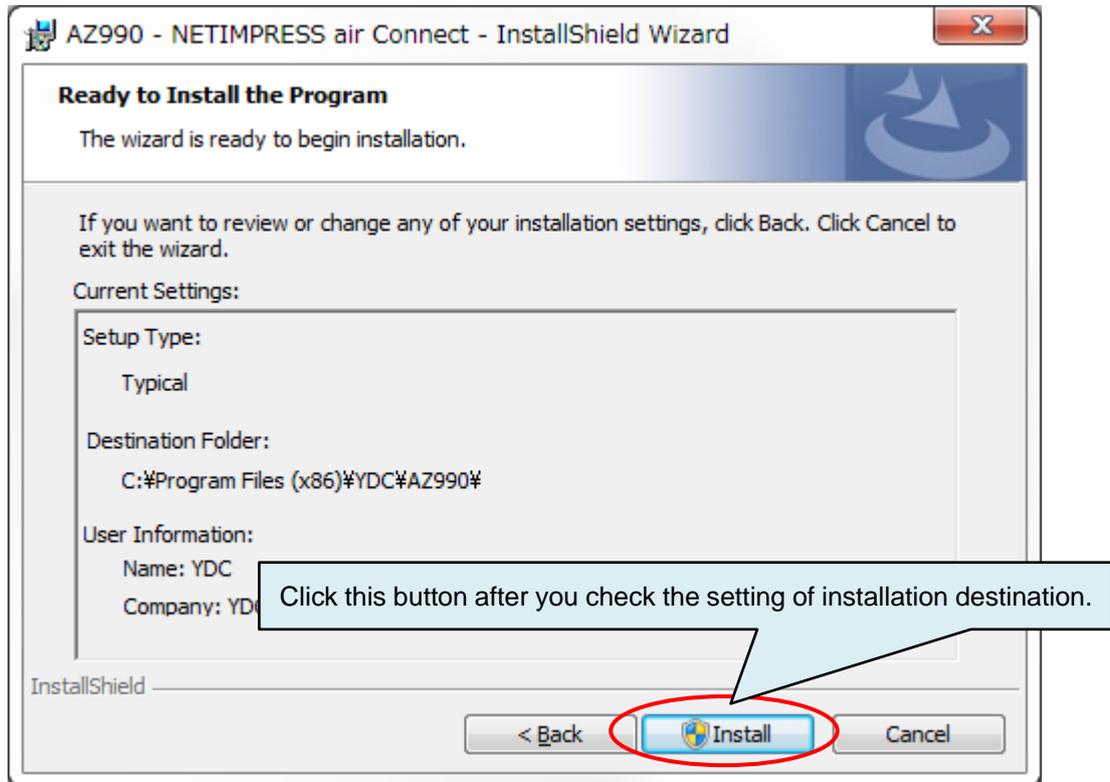


- (4) Select the installation destination, and then click the **OK** button.(If you want to change the installation destination)

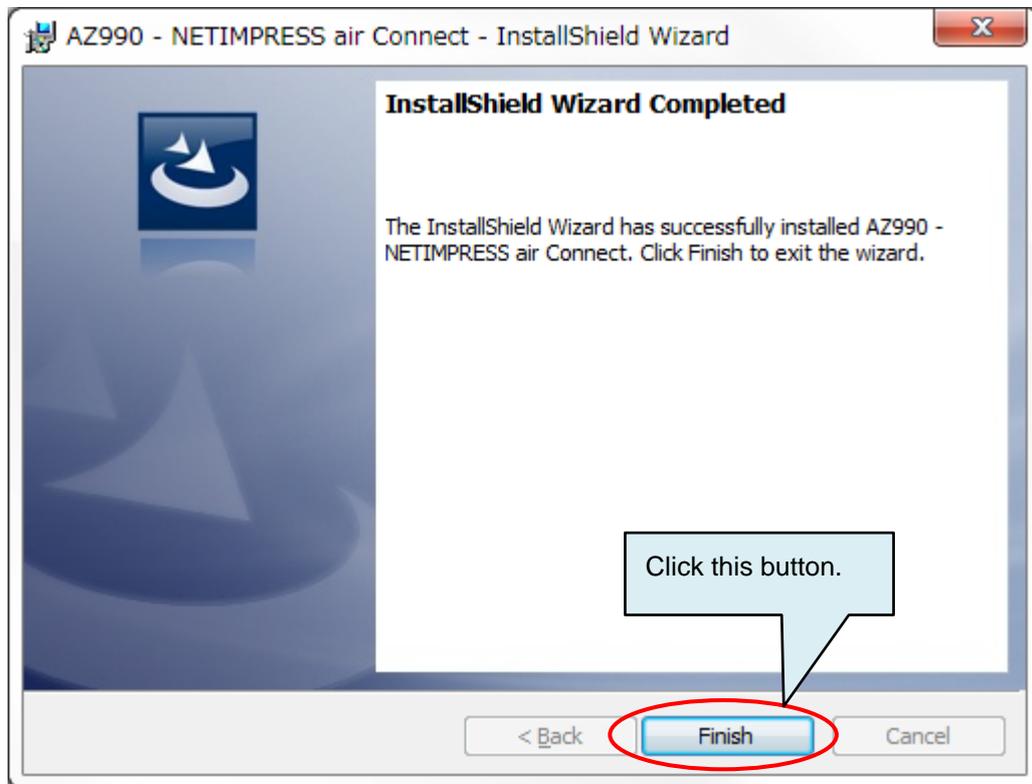


- (5) Check the installation settings, and then click the **Install** button.

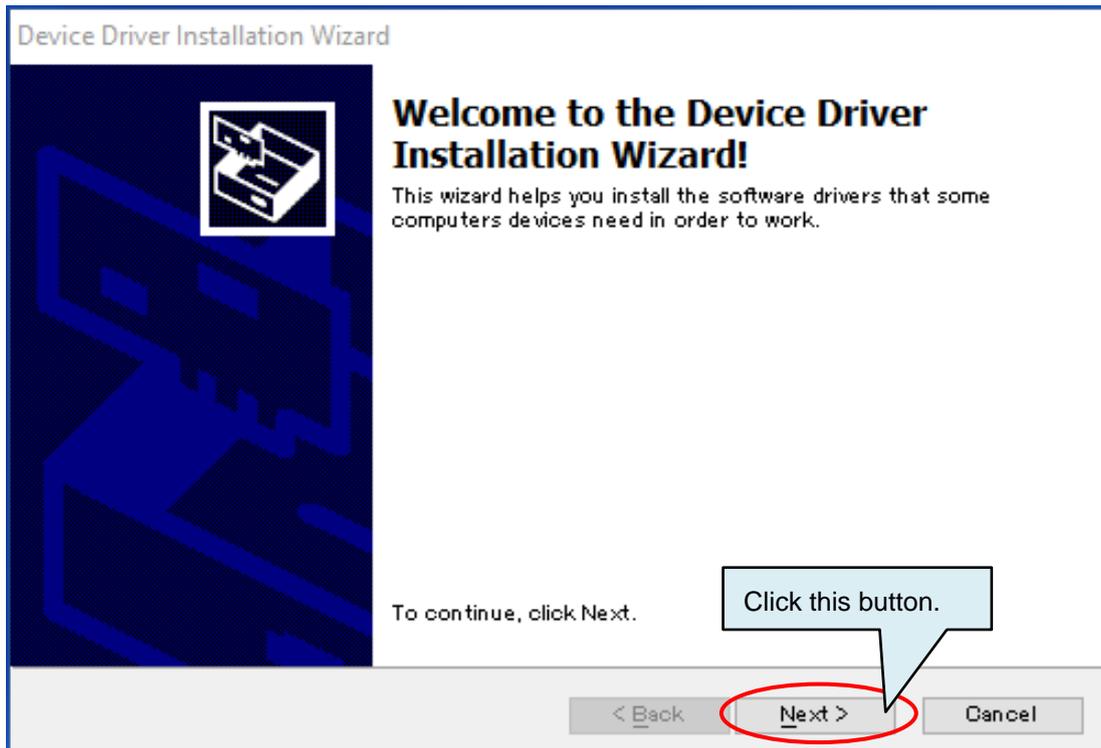
If a User Account Control window opens, click **Yes** to continue the installation.



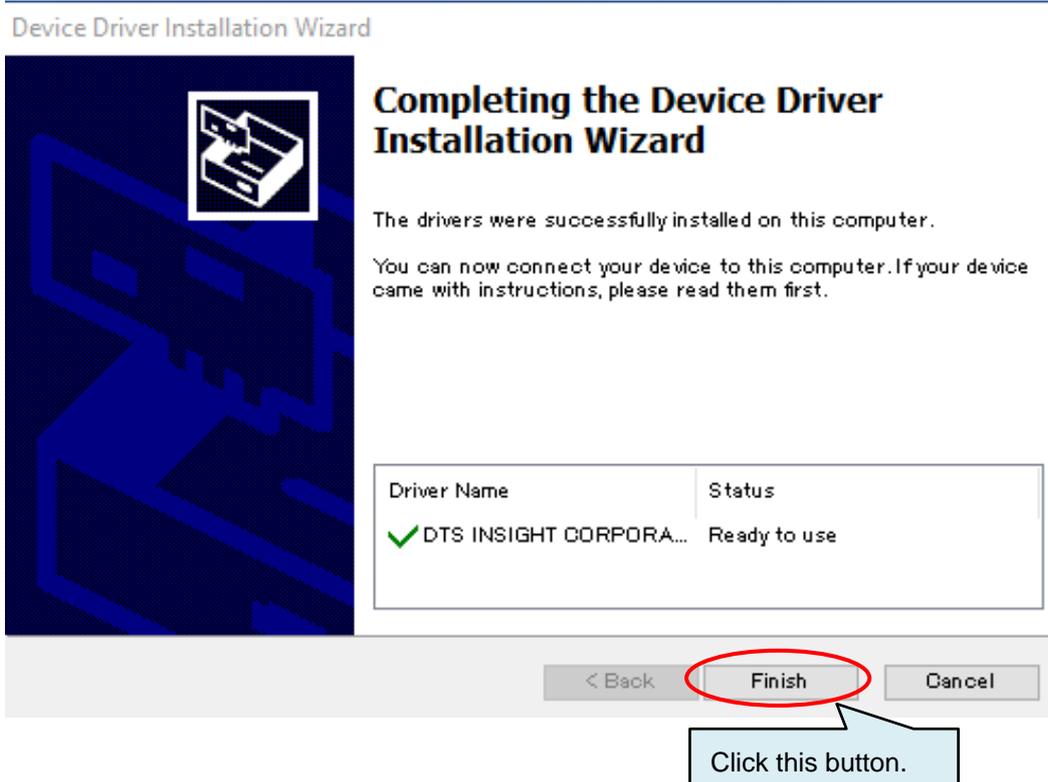
- (6) Installation of AZ990 (NETIMPRESS air Connect) is completed when the following window is displayed. Following this, installation of USB driver is started when you click **Finish** button. If a User Account Control window opens, click **Yes** to continue the installation.



(7) Click **Next** button.



(8) Installation of USB driver is completed when the following window is displayed.
Click **Finish** button.



3.2. Setting the USB Connection

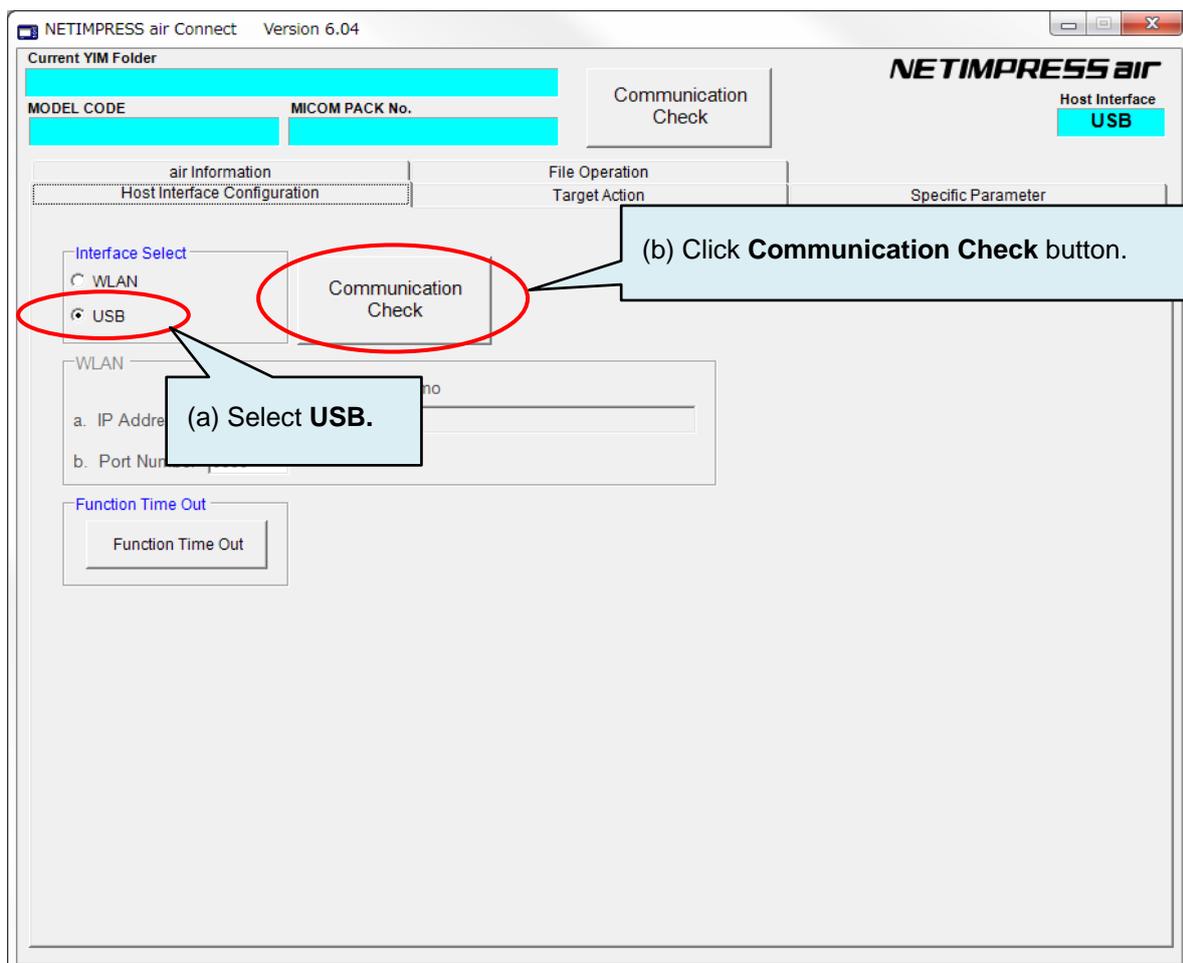
3.2.1. Connecting with PC (Set AZ990 (NETIMPRESS air Connect))

Configure the environment for controlling NETIMPRESS air from AZ990 (NETIMPRESS air Connect).

- (1) Insert the SD card into NETIMPRESS air main unit.
- (2) Connect NETIMPRESS air and host PC by USB.
- (3) Start up the AZ990 (NETIMPRESS air Connect) from host PC.

Windows [Start] menu – <All programs> –< DTS INSIGHT Tools> –< NETIMPRESS air Connect>

- (4) On **Host Interface Configuration** tab, select **USB**, and then click the **Communication Check** button.

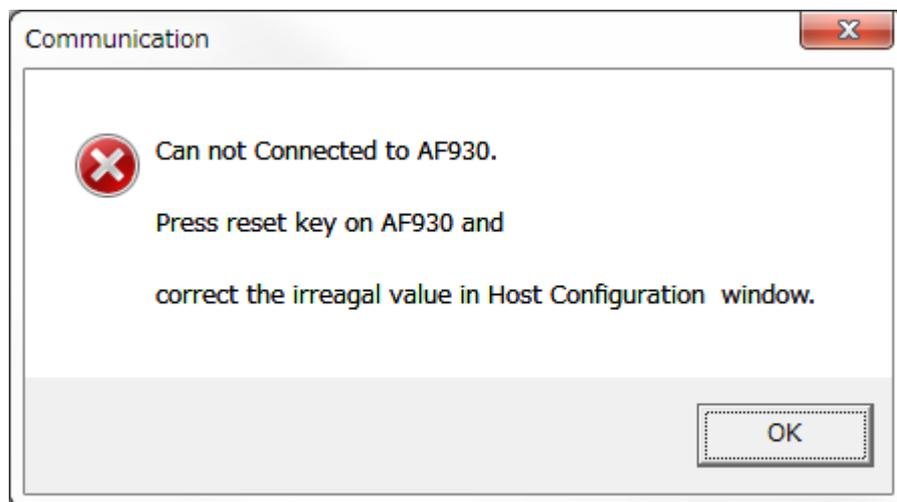


- (5) If USB communication between NETIMPRESS air and the host PC is established, following window will be shown. After this, NETIMPRESS air can be controlled from host PC.



If the following dialog window is shown because of the communication error, connection of host PC and NETIMPRESS air has not completed.

Please check the connection status and settings again.



3.2.2. Causes and Measures for USB connection error

Is USB connected?	<ul style="list-style-type: none">● Make sure that USB cable is connected host PC with the connector of NETIMPRESS air correctly. If you use USB hub, check the connection of USB hub with host PC.
Is the driver installed correctly?	<ul style="list-style-type: none">● Make sure that USB driver is installed on host PC correctly. After connecting host PC and NETIMPRESS air by USB cable, open [Control Panel] – [System] – [Device manager] on host PC and check if Programmer USB exists in [universal serial bus controller].

3.3. Setting the Wireless LAN Connection

3.3.1. Connection environments and checking the settings

NETIMPRESS air supports following two connection modes, one is an infrastructure mode and the other is an ad hoc mode.

When you use NETIMPRESS air in an infrastructure mode, settings and an access point of wireless LAN are necessary.

When you use NETIMPRESS air in an ad hoc mode, environment of Wireless LAN connection is necessary for the host PC.

Available settings of Wireless LAN on NETIMPRESS air are on the table below.

Communication method	<ul style="list-style-type: none"> ● Infrastructure [Default] ● Ad hoc
SSID	<ul style="list-style-type: none"> ● Set any alphanumeric characters (1 to 32 characters) ● netimpress [Default]
Security	<ul style="list-style-type: none"> ● None [Default] ● WEP64 ● WEP128 ● WPA-PSK (TKIP) ● WPA2-PSK(AES) <p> If you use ad hoc mode, the connection is not made successfully with WPA-PSK and WPA2-PSK.(You can set them, but not work correctly.)</p>
WEP key	<ul style="list-style-type: none"> ● For WEP64, enter 5 alphanumeric characters. ● For WEP128, enter 13 alphanumeric characters.
WPA / WPA2	<ul style="list-style-type: none"> ● Set any alphanumeric characters (8 to 63 characters) ● This is available when you select WPA-PSK or WPA2-PSK.

3.3.2. Setting the Wireless LAN

Set the Wireless LAN setting of NETIMPRESS air by following steps below.



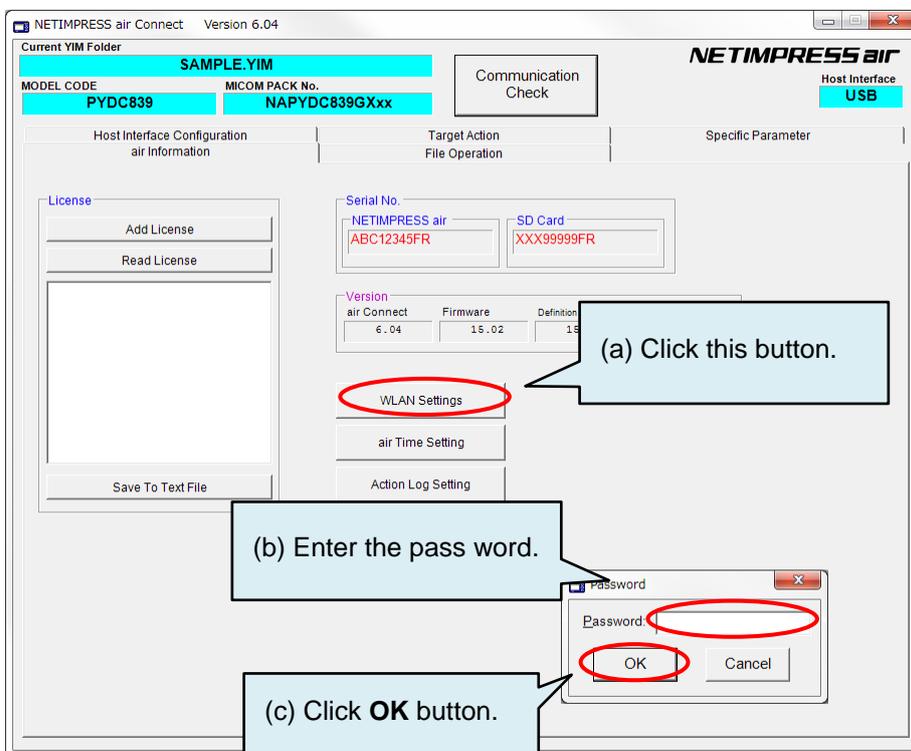
NETIMPRESS air does not support DHCP. Set a static IP address for NETIMPRESS air.

- (1) Insert the SD card into NETIMPRESS air main unit.
- (2) Connect NETIMPRESS air and host PC by USB.
- (3) Start up the AZ990 (NETIMPRESS air Connect) from host PC.

Windows [Start] menu – <All programs> –< DTS INSIGHT Tools> –< NETIMPRESS air Connect>

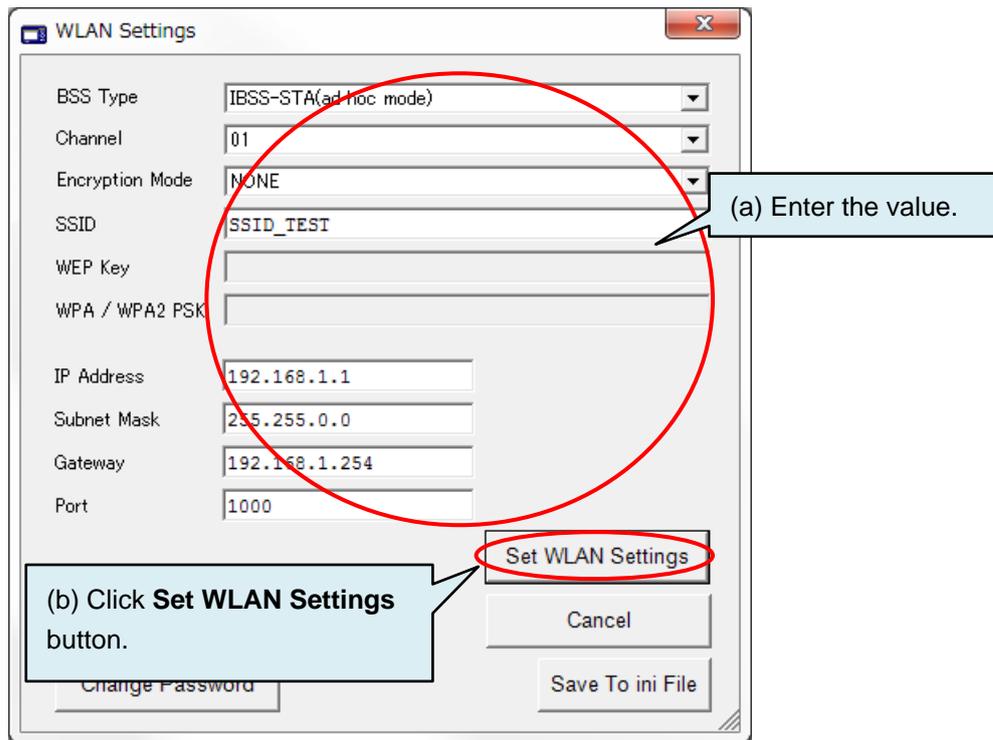
- (4) From **Host Interface Configuration** tab, select **USB**, and then click **Communication Check** button.
- (5) Click **Action Log Setting** button on the **air Information** tab.

Password input window is shown. Enter a password to open the setting window of Wireless LAN, and then click **OK** button. The default password is **AF200**. The password which you entered is shown by “*”.



Wireless LAN setting window is shown if a correct password is entered.

Set values to each item, and click the **Set WLAN Settings** button on Wireless LAN setting window.



- ✓ Make sure to set IP address for NETIMPRESS air and IP address for the PC you want to connect with NETIMPRESS air on the same network.

The connection is not made if IP address of NETIMPRESS air and the PC is not on the same network address.

The table below lists the Items and meanings of Wireless LAN setting window.

Item	Meanings	Settable range
BSS Type	Set the type of Wireless LAN connection for NETIMPRESS air.	BSS-STA(infrastructure mode): Connect NETIMPRESS air and host PC by infrastructure mode. IBSS-STA(ad hoc mode): Connect NETIMPRESS air and host PC by ad hoc mode.
Channel	Set the channel of Wireless LAN communication.	Ch1 to Ch13

Encryption Mode	Set the communication of encryption mode.	<p>NONE: No encryption.</p> <p>WEP-64: Encrypt by WEP64.</p> <p>WEP-128: Encrypt by WEP128.</p> <p>WPA-TKIP: Encrypt by WPA.</p> <p>WPA2-AES: Encrypt by WPA2.</p>
SSID	Set SSID.	<p>If BSS-STA (infrastructure mode) is set to BSS Type, set SSID of an access point you want to connect with.</p> <p>If IBSS-STA (ad hoc mode) is set to BSS Type, Set SSID of NETIMPRESS air.</p>
WEP Key	Set WEP key. This is available when you select WEP-64 / WEP-128 to Encryption mode.	<p>If you set WEP-64 to Encryption Mode, enter 5 alphanumeric characters.</p> <p>If you set WEP-128 to Encryption Mode, enter 13 alphanumeric characters.</p>
WPA / WPA2 PSK	Set a key when using WPA/WPA2. This is available when you select WPA-TKIP / WPA2-AES to Encryption mode.	Enter 8 to 63 alphanumeric characters.
IP Address	Set IP address of NETIMPRESS air.	Set IP address for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Subnet Mask	Set Subnet mask of NETIMPRESS air.	Set Subnet mask for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Gateway	Set Default gateway of NETIMPRESS air.	Set Default gateway for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Port	Set Port number of NETIMPRESS air.	Enter 0000 to FFFF (hexadecimal).

3.3.3. Connecting with PC (Set AZ990 (NETIMPRESS air Connect))

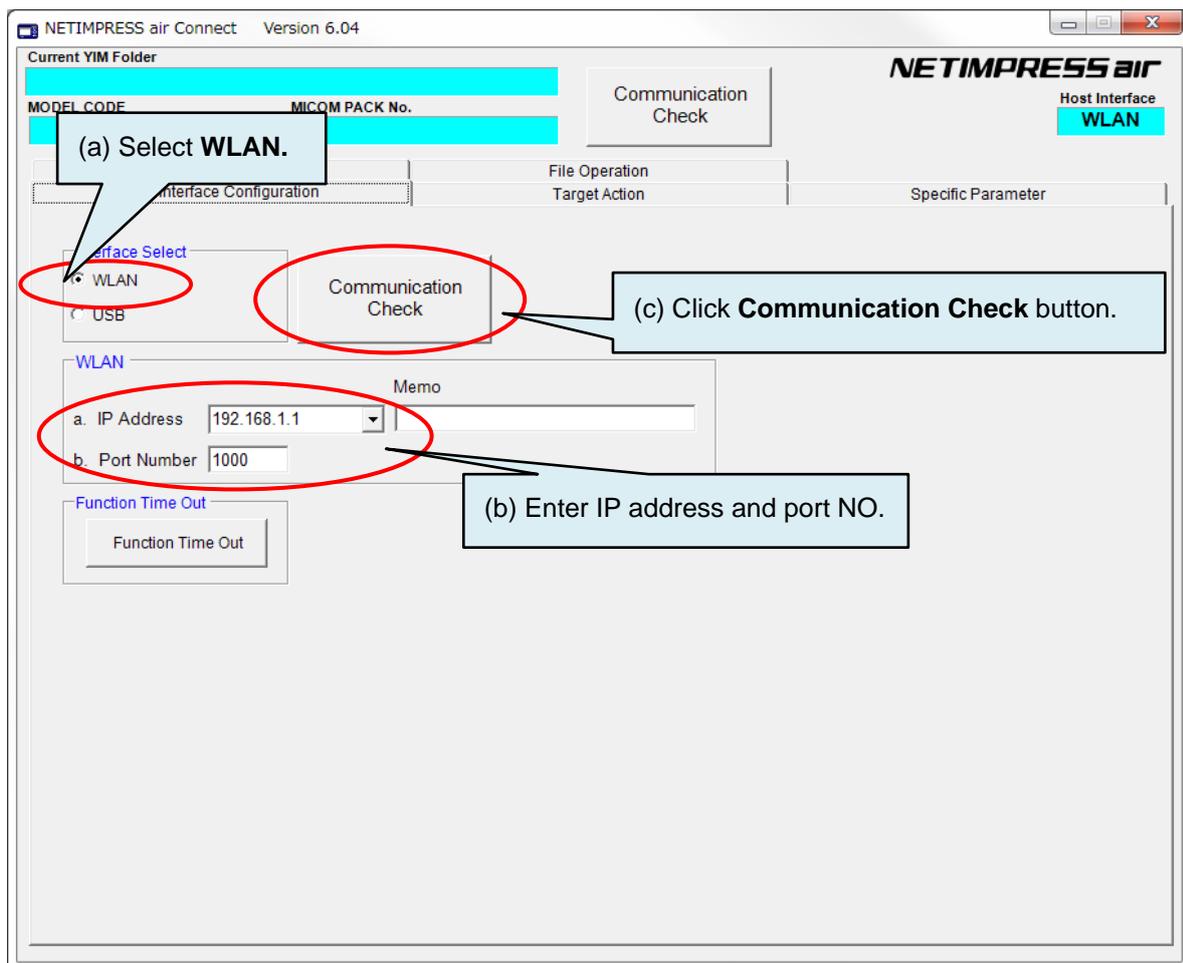
Configure the environment for controlling NETIMPRESS air from AZ990 (NETIMPRESS air Connect).

- (1) Set up Wireless LAN settings between host PC and NETIMPRESS air.
- (2) Start up the AZ990 (NETIMPRESS air Connect) from host PC.

Windows [Start] menu – <All programs> –< DTS INSIGHT Tools> –< NETIMPRESS air Connect>

- (3) From the **Host Interface Configuration** tab, select **WLAN**, and then enter IP address and Port number of NETIMPRESS air. If you want to save information attached to IP address, write the information to the **MEMO** box.

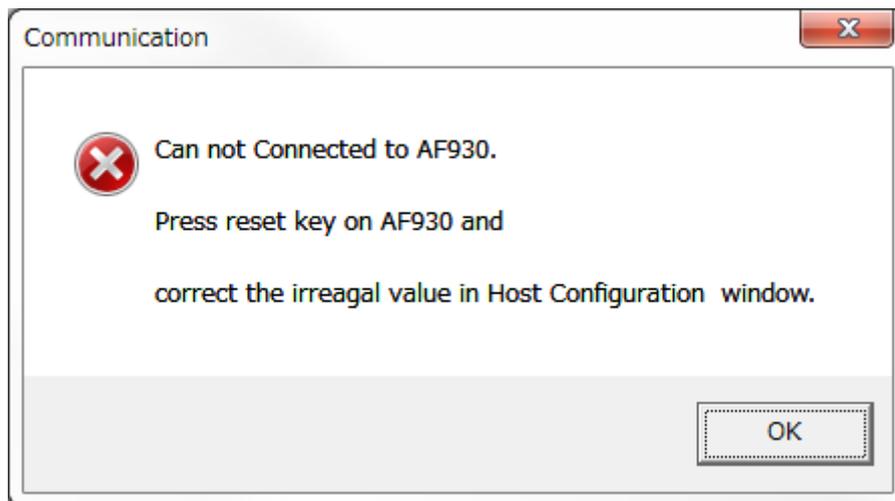
Click the **Communication Check** button.



- (4) When Wireless LAN communication between NETIMPRESS air and host PC is established, following window will be shown. After this, NETIMPRESS air can be controlled from host PC.



If the following dialog window is shown because of the communication error, connection of host PC and NETIMPRESS air has not completed. Please check the connection status and settings again.



3.3.4. Causes and Measures for Wireless LAN connection error

<p>Is host PC and NETIMPRESS air connected correctly?</p>	<ul style="list-style-type: none"> ● Make sure that host PC and NETIMPRESS air are connected to Wireless LAN successfully.
<p>Is the setting of IP address correct?</p>	<ul style="list-style-type: none"> ● Check the IP address you have set for NETIMPRESS air is correct. ➡ For further information, see Chapter 3.3.2. ● Make sure not to overlap IP addresses used by another devices connected to the same network or host PC. ● If you set an ad hoc mode, and if the host PC automatically receives IP address (DHCP), you cannot connect NETIMPRESS air. IP address on the PC must be a static IP address. ● Set IP address for host PC and NETIMPRESS air based on the setting of subnet mask. If the subnet mask is 255.255.255.0, the upper 24 bits have to be common by host PC and NETIMPRESS air.
<p>Is port number set correct?</p>	<ul style="list-style-type: none"> ● Check the port number you have set for NETIMPRESS air. Enter 1000 (Default) if you did not make any changes. ➡ For further information, see Chapter 3.3.2
<p>Subnet mask</p>	<ul style="list-style-type: none"> ● The default subnet mask of NETIMPRESS air is 255.255.255.0. Set the subnet mask based on the setting of host PC. The subnet mask can be changed at SET WLAN IP ADDRESS in MENU:WLAN ➡ For further information, see Chapter 7.4.30.

4. SETTING UP THE PROGRAMMING ENVIRONMENT

4.1. Adding the Definition Program License

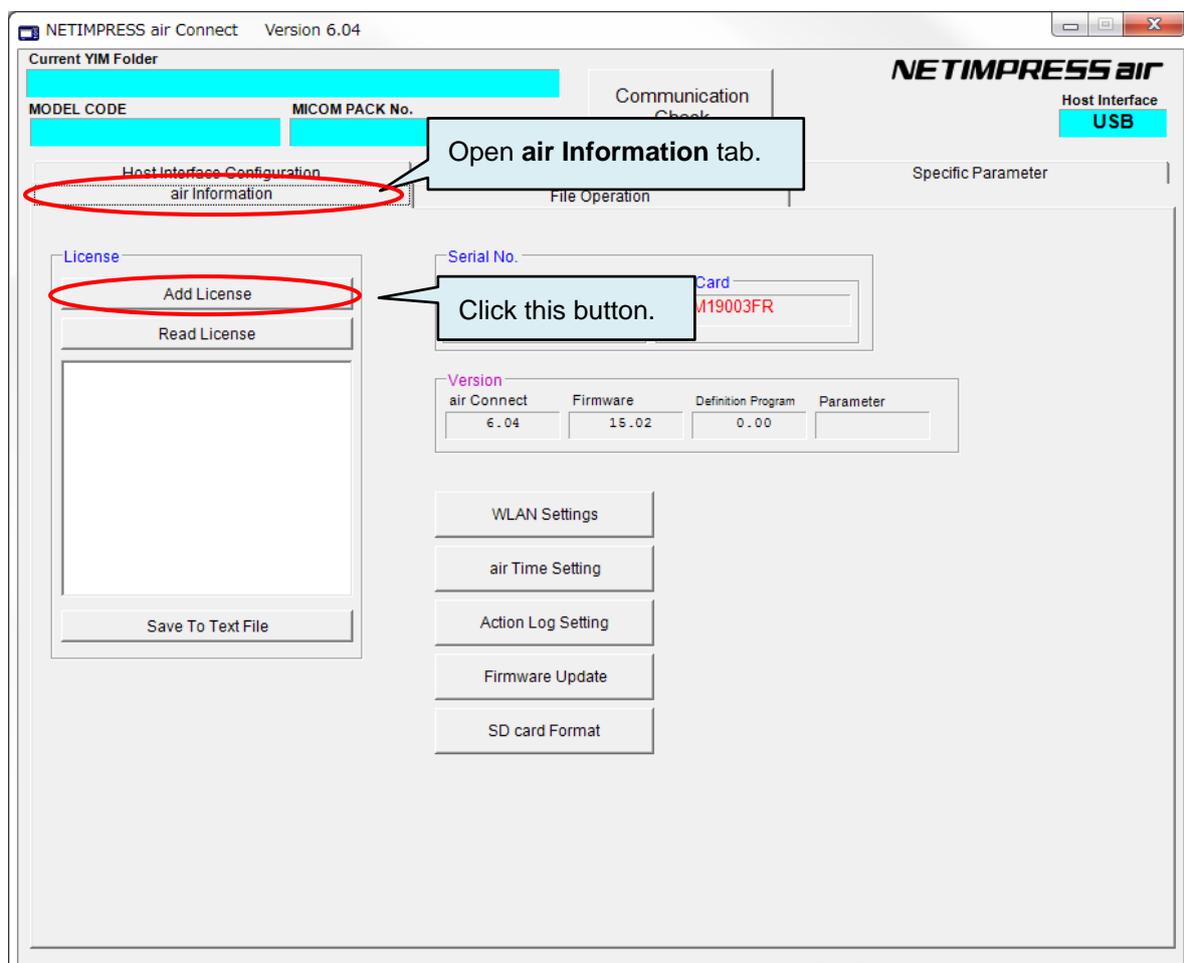
To use a definition program for the target MCU of your programming environment, a definition program license has to be added into the SD card.

The license file (.ALC) can be downloaded from our website if you register your information in our website by referring to the license sheet provided when you purchased the definition program.

License file	<ul style="list-style-type: none"> ● Extension of the file is .ALC. ● Download it from our website.
--------------	---

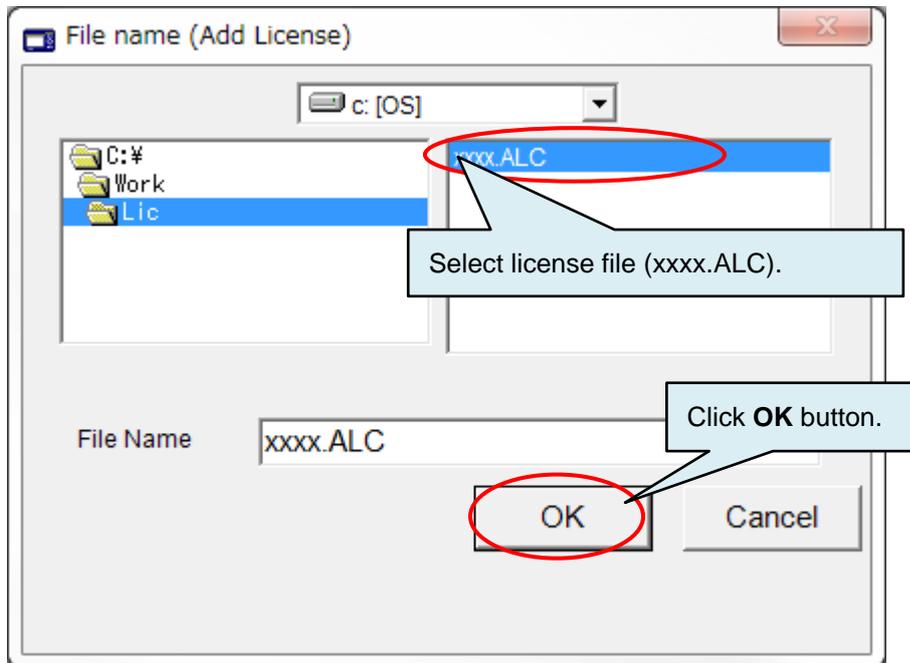
4.1.1. How to add the definition program license into the SD card for NETIMPRESS air

- (1) Copy the license file (.ALC) into the local folder of host PC.
- (2) Start up AZ990 (NETIMPRESS air Connect) and connect with NETIMPRESS air.
- (3) Click the **air Information** tab.
Click the **Add License** button in the **License** group.



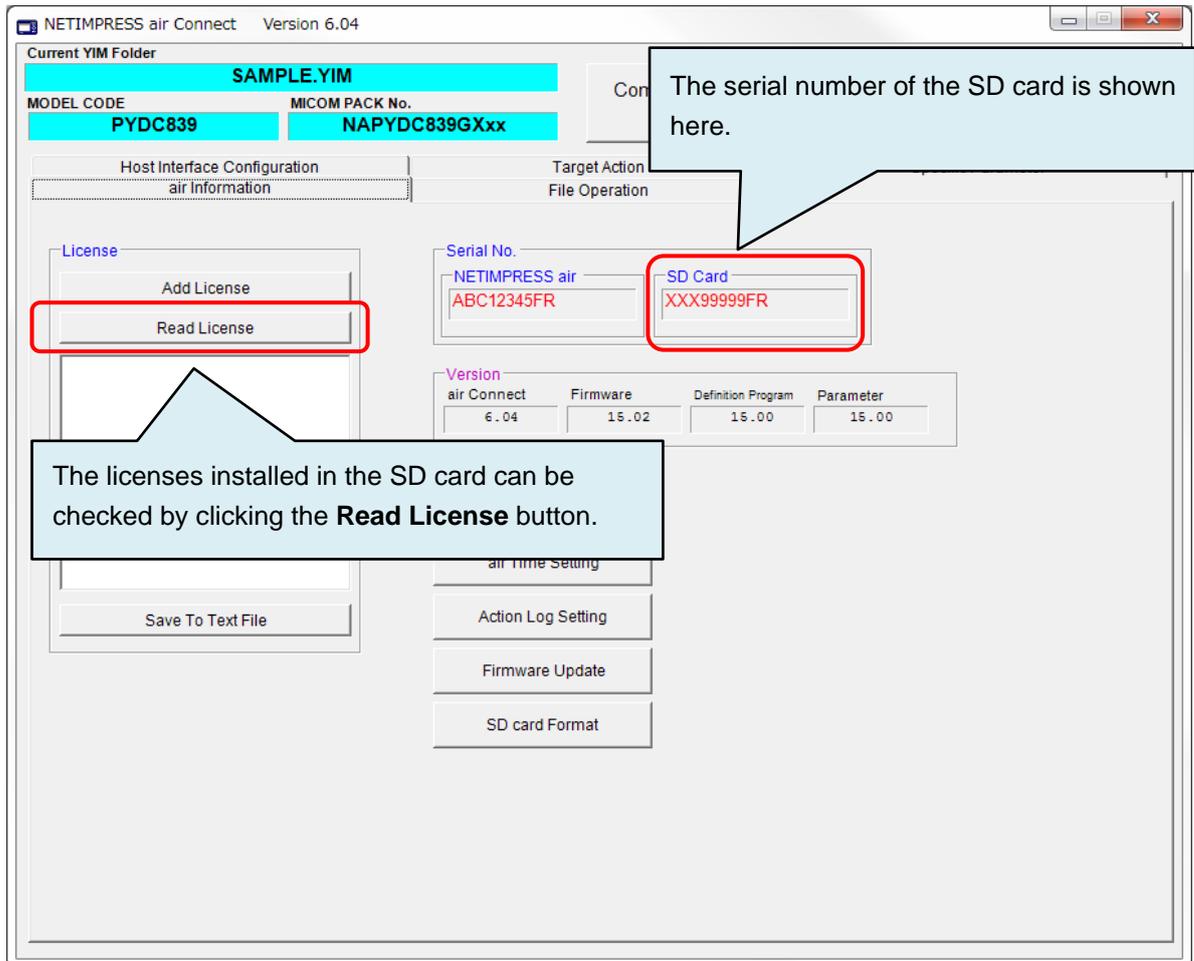
(4) Select the license file prepared in (1) above.

Click the **OK** button to register the license.





The serial number of the SD card, which is supported the license program, is written on the license sheet. If the serial number on the license sheet and the serial number of the SD card are not matched, the license cannot be added.



You can add the license by a stand-alone operation.

Place downloaded license file into the root of the SD card, and add definition program license by following steps below.

- Adding Definition program license 「MENU」 → 「LICENCE」 → 「ADD LICENCE」

For stand-alone operation, you can check the definition program license information and serial number of the SD card by following steps below.

- View Definition program license command 「MENU」 → 「LICENCE」 → 「ADD LICENCE」
 - Serial number of the SD card: 「MENU」 → 「VER/SERIAL」 → 「READ SERIAL NUMBER」

4.2. Creating a YIM Folder

Programming conditions are managed from YIM folder (extension: YIM) stored in the SD card.

After you added the definition program license, create a YIM folder and the programming conditions.

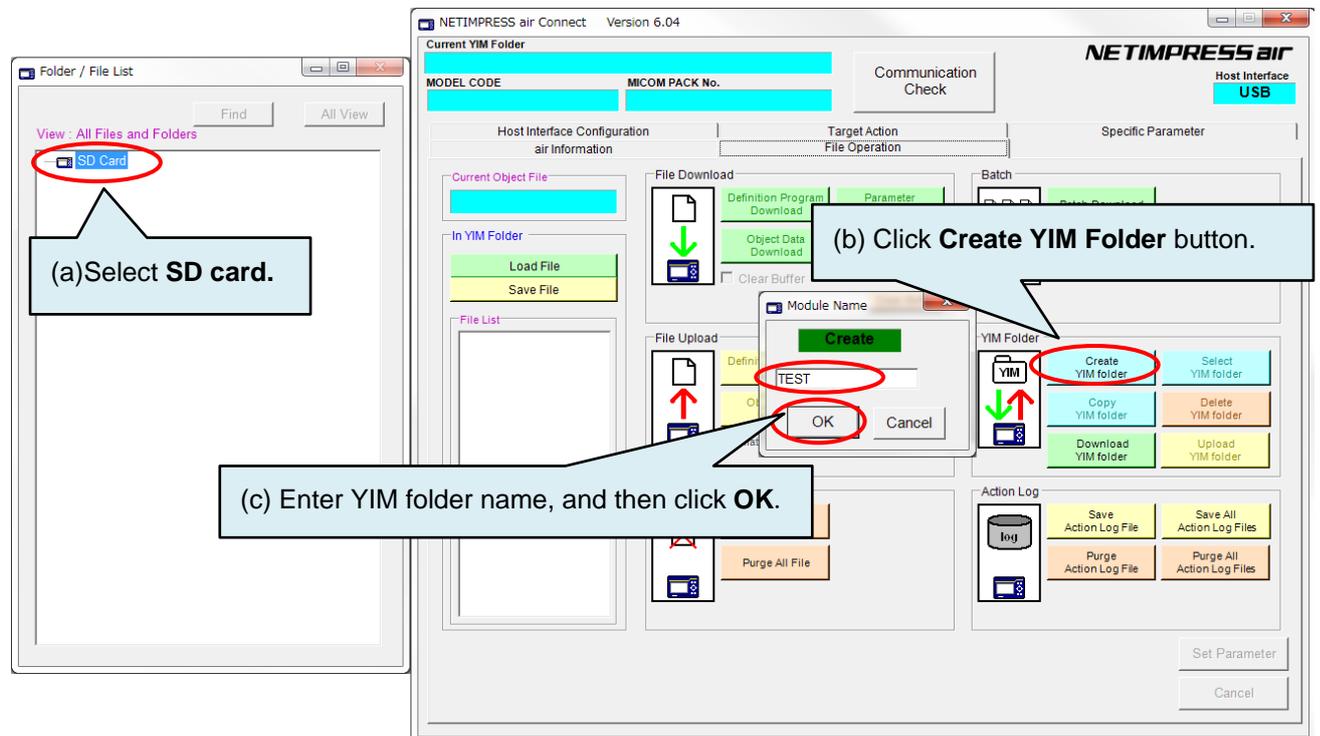
YIM folder	<ul style="list-style-type: none"> ● Extension of the file is .YIM. ● Manage the programming environment for NETIMPRESS air in the SD card.
------------	---

➔ For details of YIM folder, see Chapter 8.1.1.

(1) Select the **SD card** listed in the Folder/File List window of AZ990 (NETIMPRESS air Connect).

(2) Click the **File Operation** tab of the main window.

When you click the **Create YIM Folder** button, setting YIM folder name window is showed. Enter any YIM folder name, and then click the **OK** button.

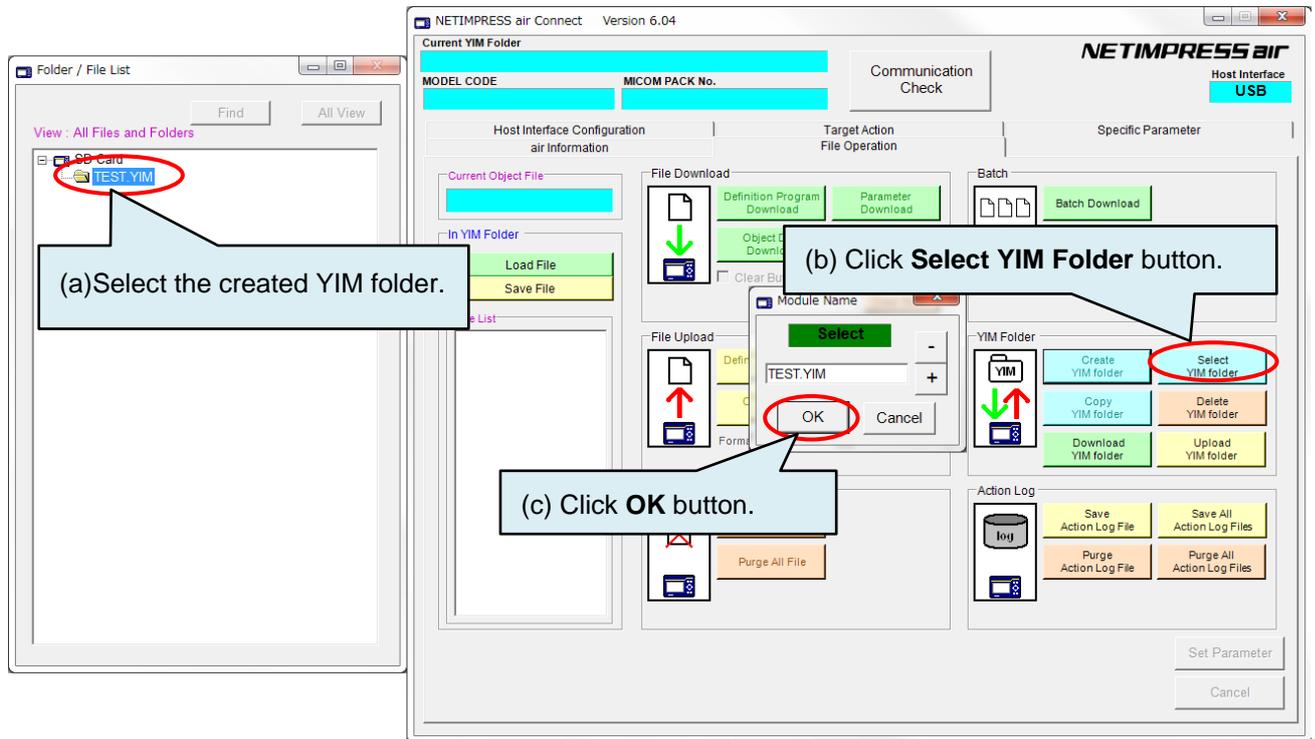


- ✓ YIM folder can be created by right-clicking on the Folder/File List window, and then select [Create YIM Folder].

(3) Created folder is shown on the Folder/File List window.

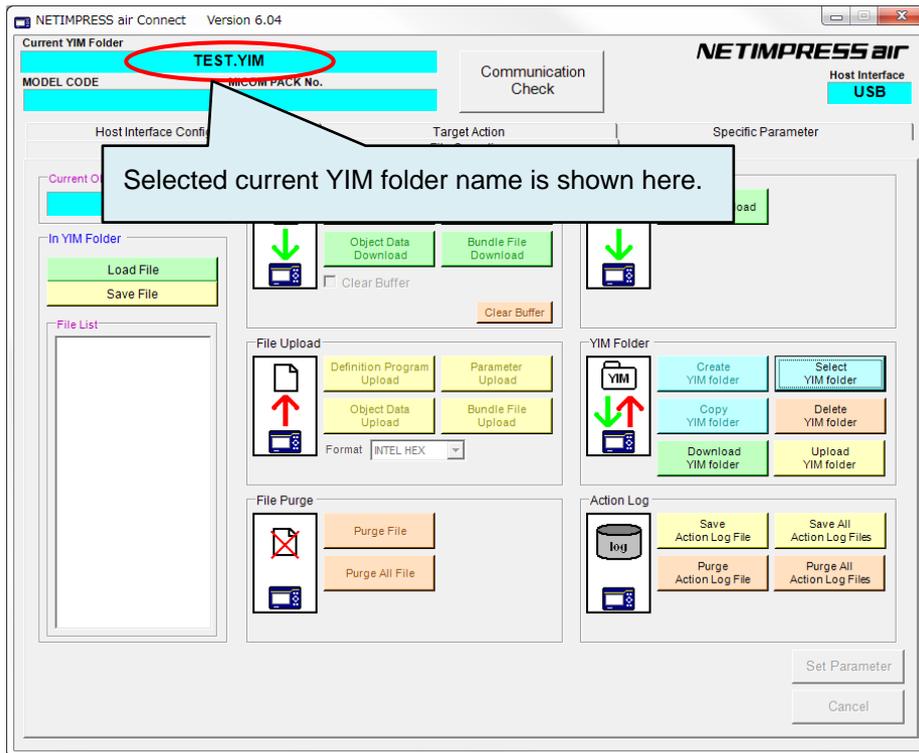
Select the created YIM folder, and then click the **Select YIM Folder** button on the main window.

Click the **OK** button when folder confirmation window is shown.



YIM folder can be selected by double-clicking created YIM folder on the Folder / File list window also.

(4) YIM folder you have selected at (3) will be a current folder. YIM folder name is shown on the top of window.



Current folder

- YIM folder for executing the target action and loading each file
- If you load each setting file into the SD card for NETIMPRESS air, it is stored in the current folder.

4.3. Loading the Each Setting File

Load files into the current folder for programming.

Prepare the definition program file (extension: CM) and each Micom-pack file. Micom-pack can be downloaded from our website.

http://www.dts-insight.co.jp/en/support/support_netimpress_air//



For the free maintenance service in warranty terms, the period available for downloading Micom-pack is set at three months after you purchase products.

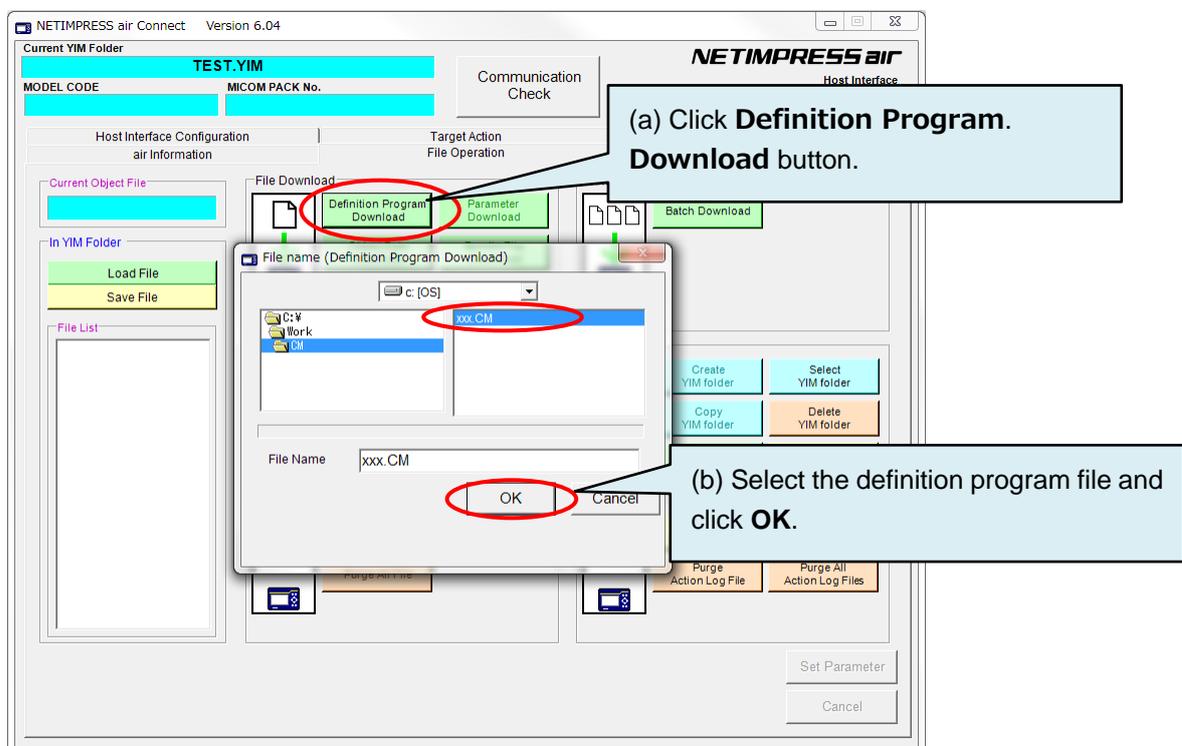
It is recommended to enter the Annual maintenance service when you purchase products.

Micom-pack	<ul style="list-style-type: none"> ● File for setting the programming environment for each MCU. ● Please download it from our website. Registration and login will be necessary for downloading. ● Micom-pack file is a compressed file (ZIP format). You can extract the file by double-clicking it. ● Micom-pack is configured by multiple file. Contents of Micom-pack are a parameter file (.PRM), manuals (.PDF), programming control program (.BTP), and read me file etc. Contents of the file vary depending on the MCU.
------------	--

4.3.1. Loading definition program file

For downloading the definition program file, click the **Definition Program Download** button in the **File Download** group on the **File Operation** tab.

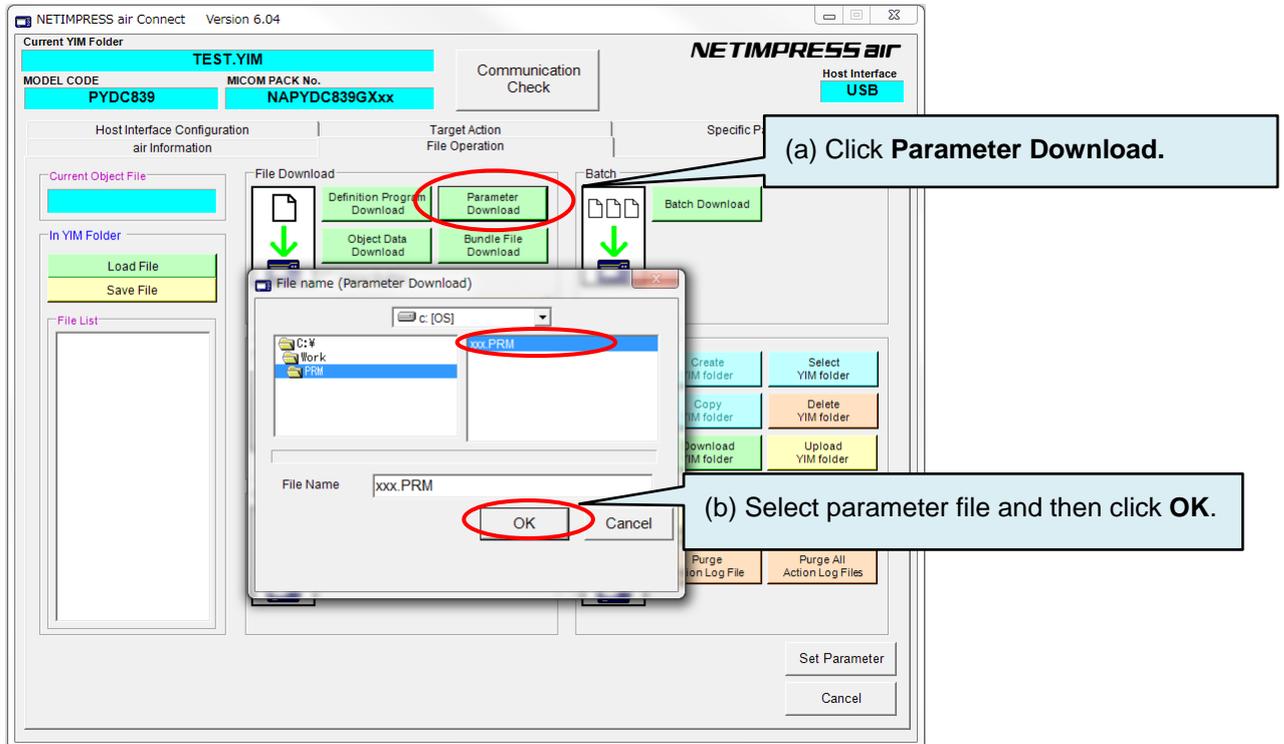
Definition program file	<ul style="list-style-type: none"> ● Extension of the file is .CM. ● Please download it from our website.
-------------------------	---



4.3.2. Loading parameter file

For downloading a definition program file, click the **Definition Program Download** button in the **File Download** group on the **File Operation** tab.

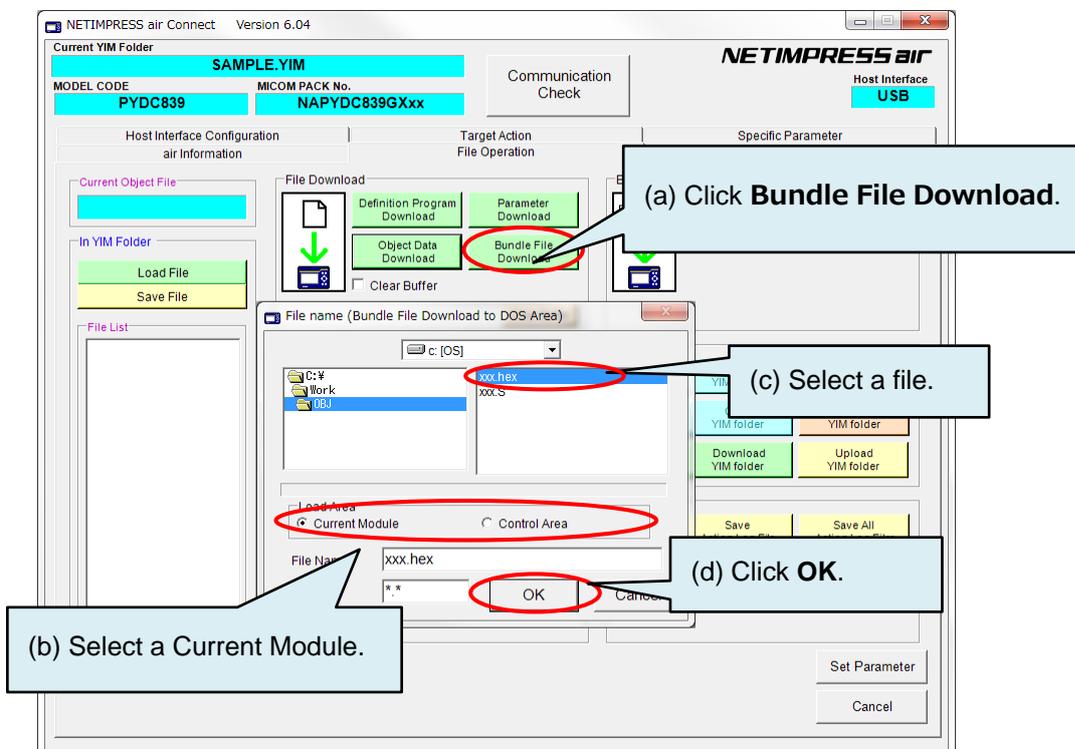
Parameter file	<ul style="list-style-type: none"> ● Extension of the file is .PRM. ● This is included in the Micom-pack. ● This is a parameter file with the device information of the MCU.
----------------	---



4.3.3. Loading bundle file

For downloading the bundle file, click the **Bundle File Download** button in the **File Download** group on the **File Operation** tab. Example for typical bundle file: KEY file, AMK file, and BTP file etc.

Bundle file	<ul style="list-style-type: none"> ● Collective term of the files for setting the programming environment, excepting Definition program file, parameter file, and programming object. ● The files which are created by user using software provided by us are included.(KEY file etc.)
KEY file	<ul style="list-style-type: none"> ● Extension of the file is .KEY. ● This is a file for checking the device security. ● Create this file by using AZ481 (KEY file generator).
AMK file	<ul style="list-style-type: none"> ● Extension of the file is .AMK. ● This is included in the Micom-pack. ● The master KEY file for checking the device security
BTP file	<ul style="list-style-type: none"> ● Extension of the file is .BTP. ● This is included in the Micom-pack. ● Program file for controlling the programming of device.

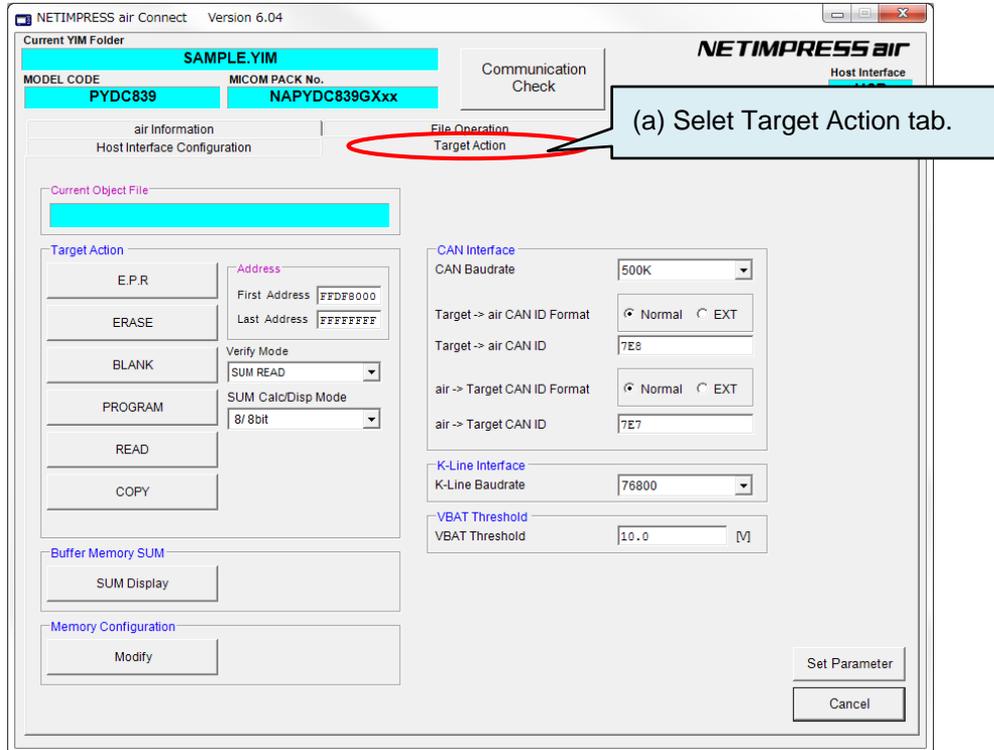


4.3.4. Setting parameters

Settings of parameter file, which you loaded at Chapter 4.3.2, are the initial settings of typical parameters configured by DTS INSIGHT CORPORATION. You may need to make a change in accordance with your target system.

Set the parameters by selecting the **Target Action** tab.

Set CAN communication settings, K-Line communication settings, VBAT threshold voltage etc.



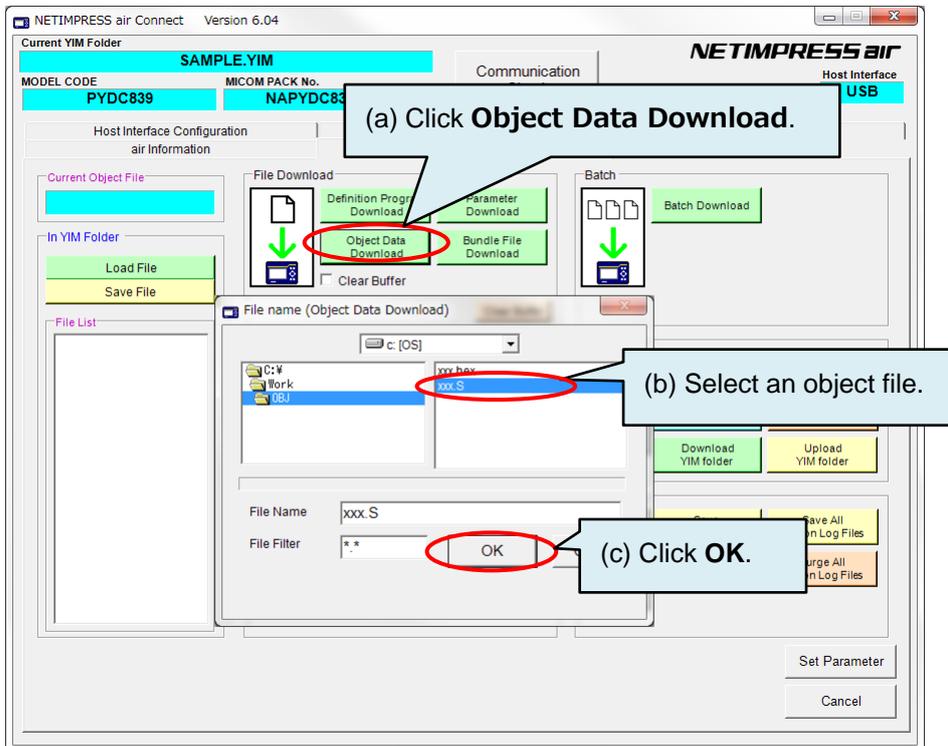
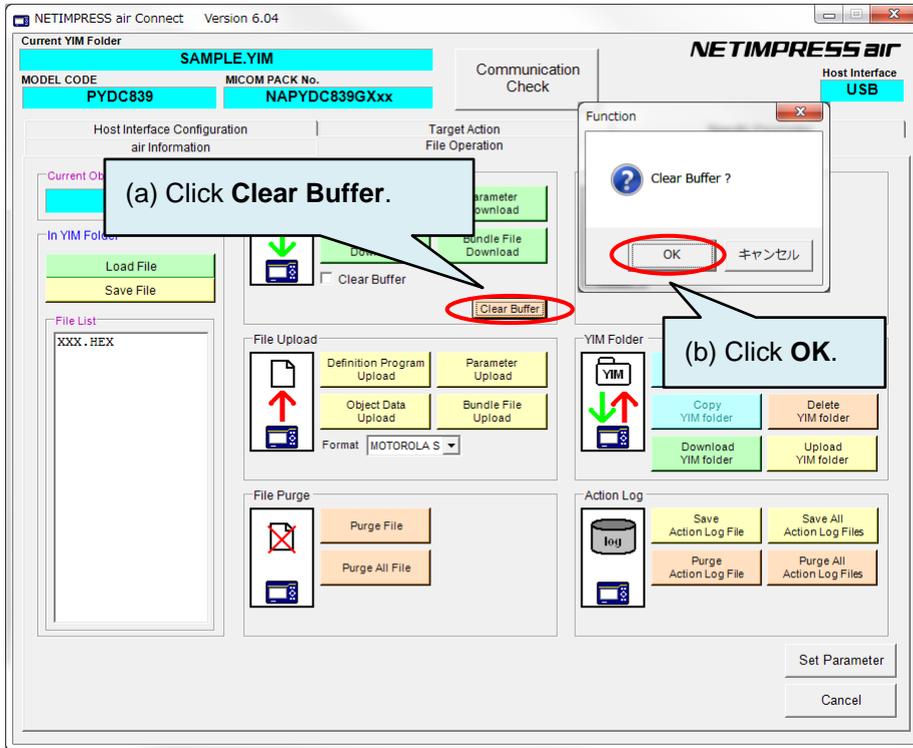
For details of the parameter table, see each manual of definition program and Micom-pack.

4.3.5. Loading object file

Display the **File Operation** window and click the **Clear Buffer** button which you can find in the **File Download** group.

Confirmation window will be shown. And then click the **OK** button.

Load the object file, which you want to program into target MCU, by clicking the **Object Data Download** button in the **File Download** group. The data is opened into the buffer memory of the SD card by loading the object file.



Buffer memory

- This is the data programming for the flash memory.
- The loaded object file is converted into binary data and stored at buffer memory.
- Even if the power of NETIMPRESS air is turn off, the buffer memory data is preserved because the buffer memory is on the SD card.

Setting of the programming environment is completed now.

4.4. Connecting with Target System

This chapter explains the typical connection example of the target system and NETIMPRESS air main unit.



Connection may vary depending on your programming environment.

Check the manual of the definition program and Micom-pack for details.

Manuals of definition program and Micom-pack can be downloaded from our website.

http://www.dts-insight.co.jp/en/support/support_netimpress_air/_list/top/index.php?m=Search

Hardware manuals for each target probe are downloaded from our website.

http://www.dts-insight.co.jp/en/support/support_netimpress_air//?m=Document&item=1

4.4.1. Connecting by using target probe

- **Types of probe**

Connect the main unit and your target system by using a target probe suitable for your target board.

- **Wire connection**

AZ915	
AZ916	

See **Connecton with a target system/details of dedicated connectors** on the Micom-pack manual to connect the target probe and target system.

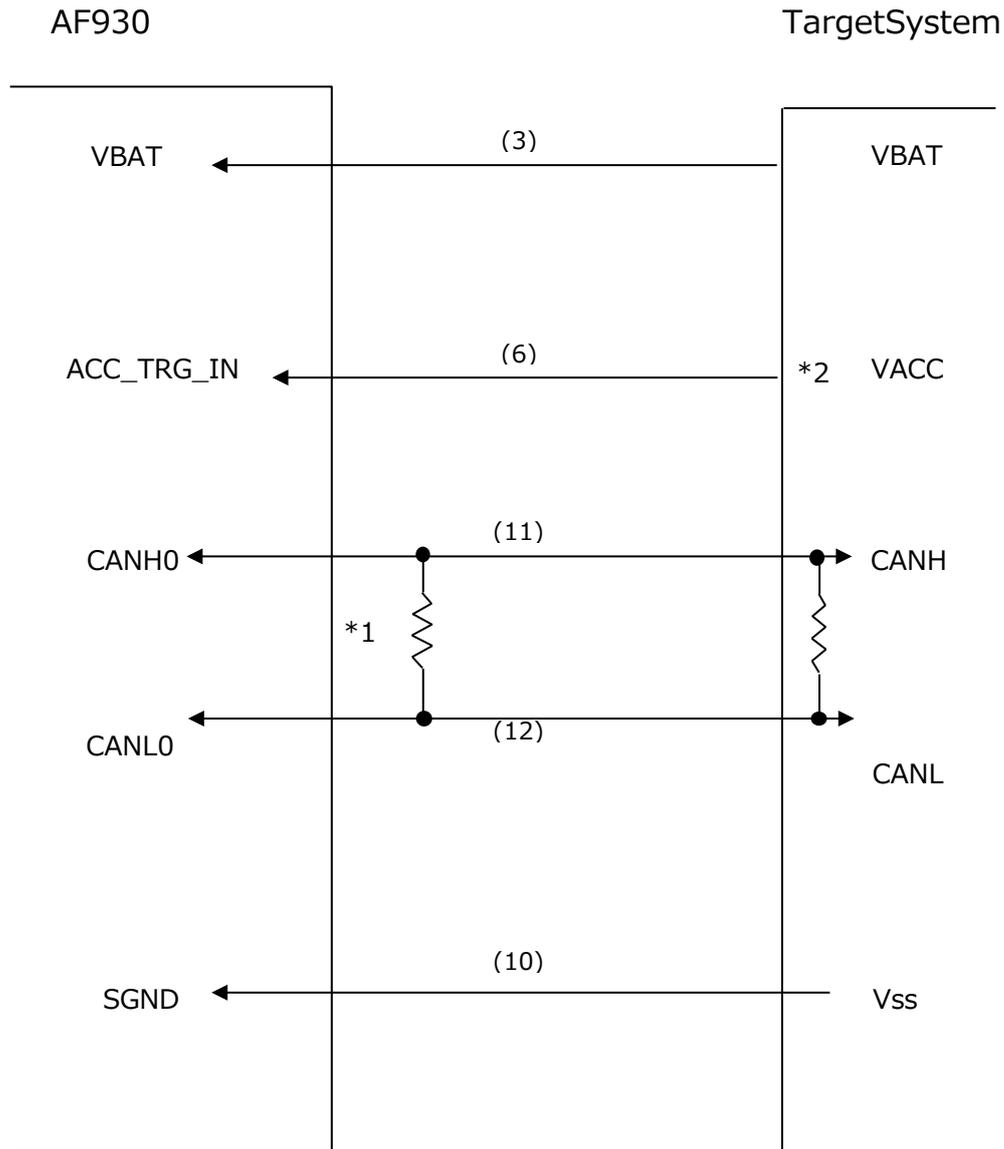
Connection example with NAPYDC839G(UCOP)

pin No	Signal Name	definition	I/O
1	RESERVED	Reserved signal line. Do not connect this line.	-
2	RESERVED	Reserved signal line. Do not connect this line.	-
(3)	VBAT	User power input (Power for driving NETIMPRESS air)	I
4	RESERVED	Reserved signal line. Do not connect this line.	-
5	RESERVED	Reserved signal line. Do not connect this line.	-
(6)	ACC_TRG_IN	ACC trigger signal (VBAT level)	I
7	RESERVED	Reserved signal line. Do not connect this line.	-
8	RESERVED	Reserved signal line. Do not connect this line.	-
9	SBD	I/O signal of K-LINE communication	I/O
⑩	SGND	Signal GND	-
⑪	CANH0	CAN_High for CAN communication (High Speed CAN)	I/O
⑫	CANL0	CAN_Low for CAN communication (High Speed CAN)	I/O
13	RESERVED	Reserved signal line. Do not connect this line.	-
14	RESERVED	Reserved signal line. Do not connect this line.	-
15	RESERVED	Reserved signal line. Do not connect this line.	-

Be sure to connect all the signals marked with a circle “○” to the target system.

The signals in parentheses, connect them only when necessary.

For the signal pin not marked with a circle “○” or those not in parentheses, be sure not to connect them to a circuit of the target system.



Connecting with Target System / Example

*1 AF930 does not have a build-in terminator. Set appropriate terminators at both ends of CAN Bus.

*2 this is used at a time of **r Entry**. For further information, see a manual of each definition program license.

● **Connection**

Check the type of the target probe and the wire connection, and then connect the main unit and target system.



Please note the order of power on/off.

- Power on Turn on the power of main unit first, and then turn on the target system power.
- Power off Turn off the power of target system first, and then turn off the main unit power.

5. Programming

This chapter describes how to start the programming into target system.

- (1) Connect the main unit and target system.

Make sure that it is connected correctly, and turn on the power of main unit.

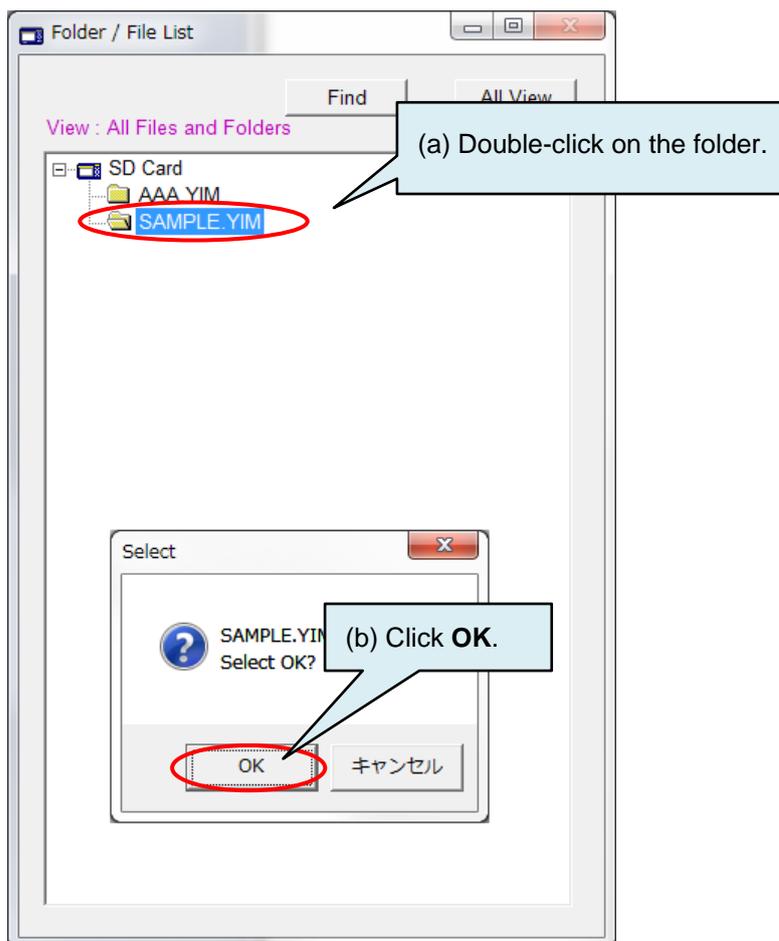
- (2) Connect NETIMPRESS air and host PC by Wireless LAN or USB cable, and the start up AZ990 (NETIMPRESS air Connect).

When the setting of AZ990 is completed, the **Communication Check** is executed automatically, and connection is established.

➡ See Chapter 3.2 and 3.3 for checking the setting again if you cannot establish the connection.

- (3) Select YIM folder

On the Folder/File List window, double-click YIM folder which you have set the programming environment, and then Click the **OK** button.



(4) Turn on the power of target system.



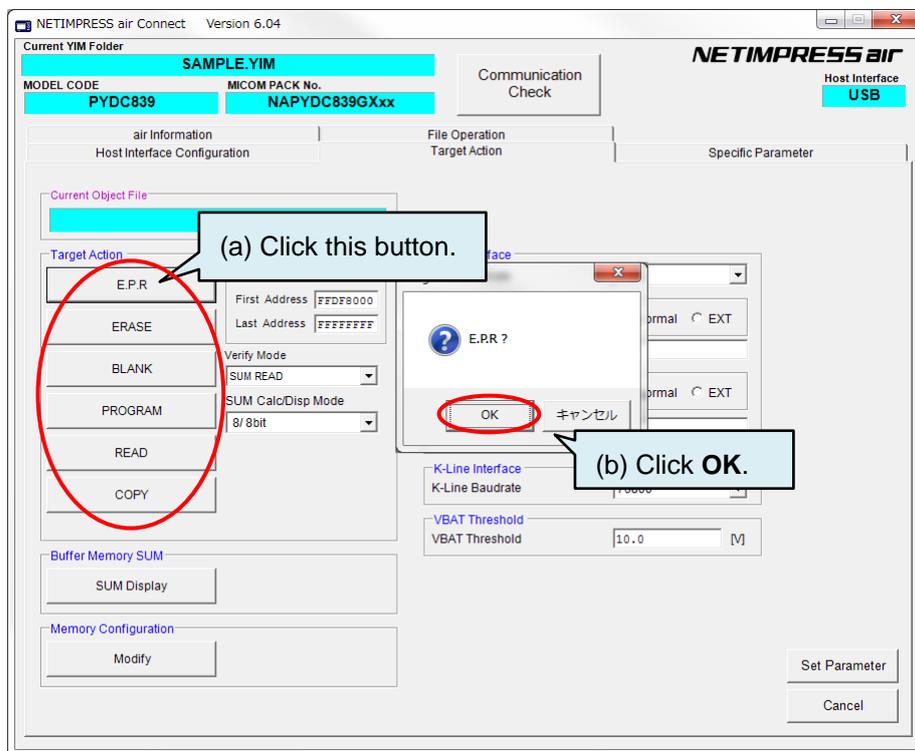
Please note the order of power on/off.

- Power on Turn on the power of main unit first, and then turn on the target system power.
- Power off Turn off the power of target system first, and then turn off the main unit power.

(5) Executing programming Click the **Target Action** tab to execute target action, and start programming. Normally, execute the E.P.R (Erase – Program – Read Verify).



Feature of target action may vary depending on the definition program. For details of each target action, see the manual of the definition program.



(6) After the programming is completed, click the close button at the upper right of AZ990 (NETIMPRESS air Connect) window to close the program.

(7) Turn off the power of target system and main unit.



Please note the order of power on/off.

- Power on Turn on the power of main unit first, and then turn on the target system power.
- Power off Turn off the power of target system first, and then turn off the main unit power.

6. AZ990 (NETIMPRESS air Connect)

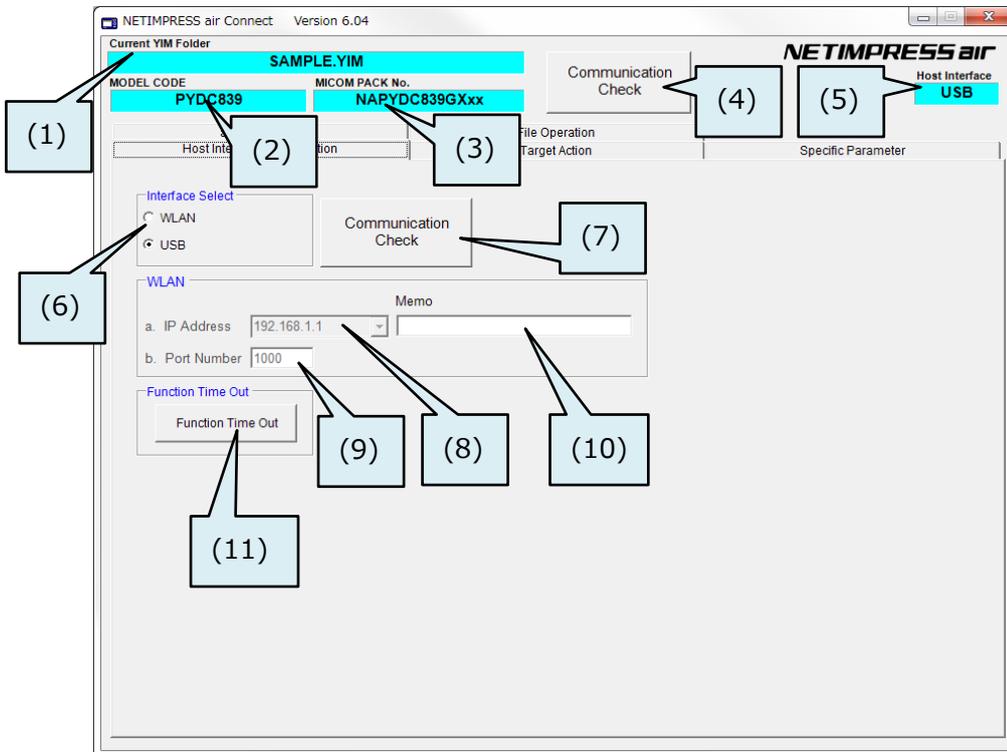
You can download files, set programming environment, and execute the programming by using AZ990 (NETIMPRESS air Connect).

The screen structure of AZ990 is configured by following windows: common window, 5 tab windows, and folder / file list window.

- Common window..... Window for showing the current folder information
- Host interface Configuration Tab window for showing the settings of connection with a programmer
- Specific Parameter Tab window for setting the parameter
- Target Action Tab window for executing the target action
- air Information Tab window for showing programmer information
- File Operation Tab window for transferring the file
- Window for Folder / File List

6.1. Windows of AZ990

6.1.1. Common window and window for Host Interface Configuration



(1) Current YIM Folder

YIM folder name currently selected is shown here.

(2) MODEL CODE

The model name of definition program license currently in use is shown here.

(3) MICOM PACK No.

The model name of Micom-Pack currently use is shown here.

(4) Communication Check

Connect NETIMPRESS air and AZ990.

(5) Host Interface

Communication channel is shown here. Wireless LAN communication -> "WLAN"
USB communication -> "USB"

(6) Interface Select

Select the communication channel here.

(7) Communication Check

Connect NETIMPRESS air and target system.

(8) WLAN IP Address

Set Wireless LAN IP address of NETIMPRESS air.

(9) WLAN Port Number

Set Wireless LAN port number of NETIMPRESS air.

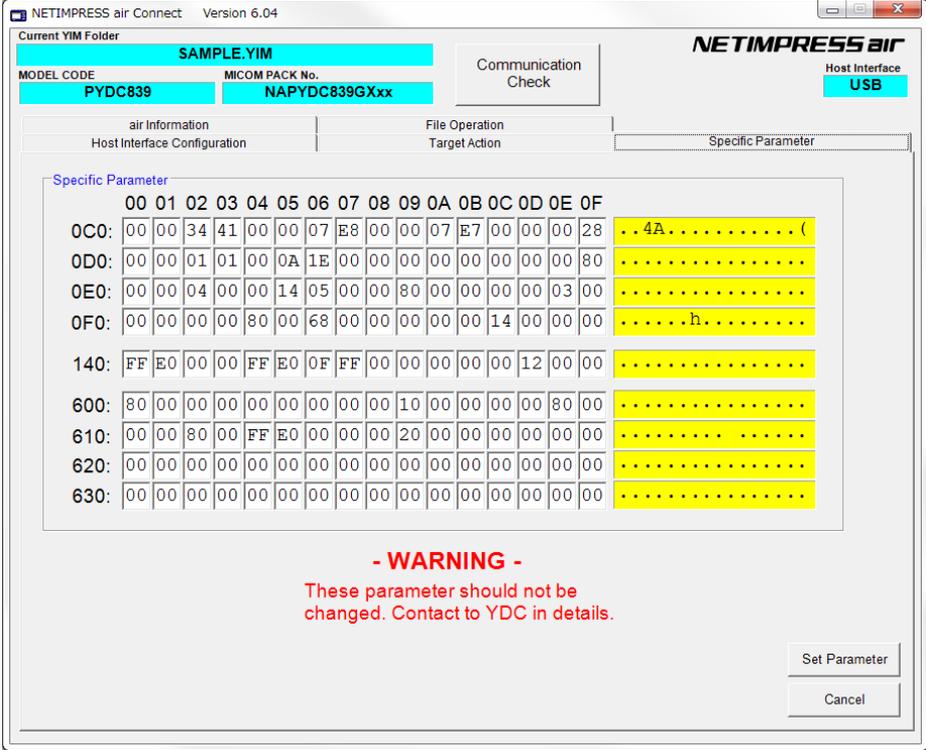
(10) Memo

Enter and display a memo which is associated with IP address here.

(11) Function Time Out

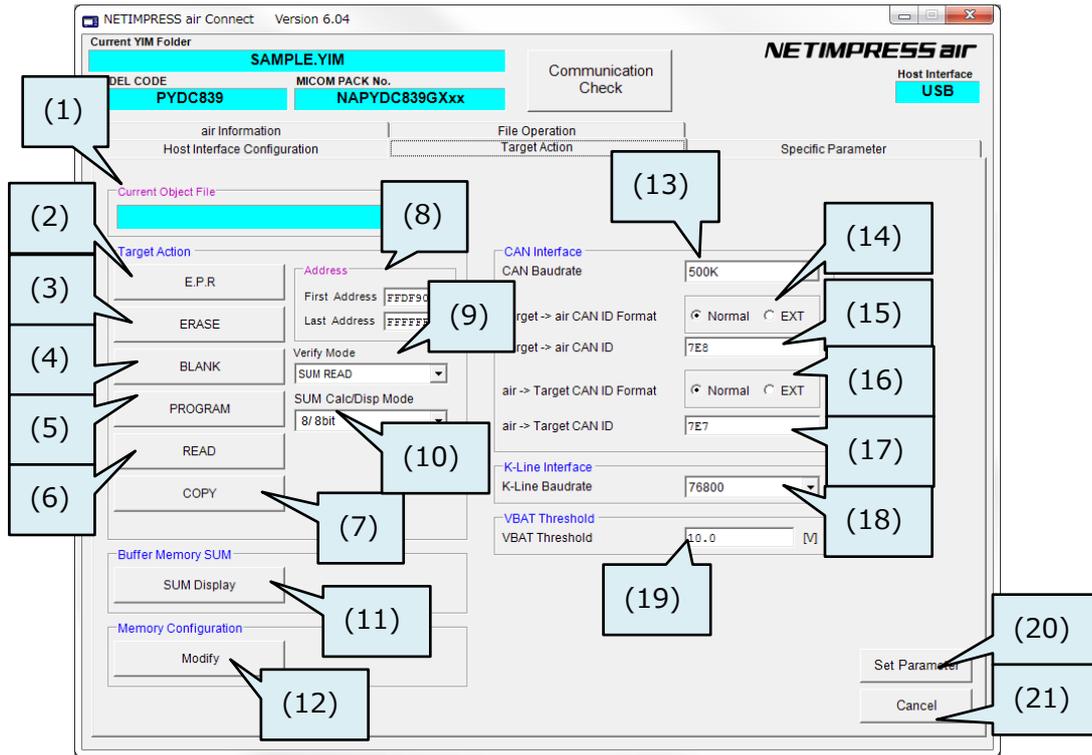
Change the Time-out setting of Target Action and Function.

6.1.2. Window for Specific Parameter



For inquiry about detail information of Specific Parameter, please contact our support center.

6.1.3. Window for Target Action



(1) Current Object File

The name of object file downloaded at the buffer memory is shown here.

When more than one object files are downloaded, the name of object file downloaded latest is shown here.

The current file name is cleared when executing buffer clear or copy of target action.

(2) E.P.R

Execute EPR of the target action.

(3) ERASE

Execute ERASE of the target action.

(4) BLANK

Execute BLANK of the target action.

(5) PROGRAM

Execute PROGRAM of the target action.

(6) READ

Execute READ of the target action.

(7) COPY

Execute COPY of the target action.

(8) Address

Set the address range for executing target action.

(9) Verify Mode

Set the Verify Mode to execute EPR and PROGRAM.

(10) SUM Calc/Disp Mode

Select SUM value calculation and display mode.

(11) Buffer Memory SUM

Calculate SUM value for the area of executing target action and object file transfer destination, and display them.

(12) Memory Configuration

Make the Flash ROM configuration settings.

(13) CAN Baudrate

Select CAN Baudrate to execute target action.

(14) Target CAN ID format

Select CAN ID format for the target, Normal or EXT, to execute target action.

(15) Target CAN ID

Select CAN ID for the target to execute target action.

(16) Programmer CAN ID format

Select CAN ID format for programmer, Normal or EXT, to execute target action.

(17) Programmer CAN ID

Set CAN ID for programmer to execute target action.

(18) K-Line Baudrate

Select K-Line communication Baudrate to execute target action.

(19) VBAT Threshold

Set VBAT Threshold value to execute target action.

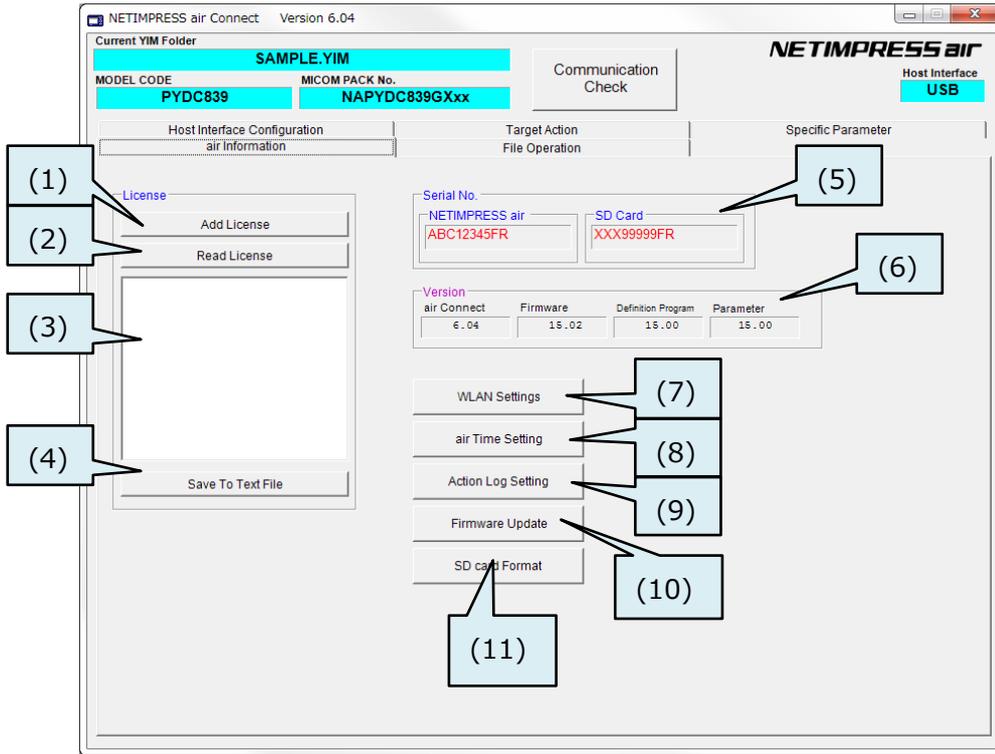
(20) Set Parameter

Click this button to reflect settings, which you have changed on this window, to NETIMPRESS air.

(21) Cancel

Click this button to cancel editing parameters without reflecting the settings which you have set on this window.

6.1.4. Window for air Information



(1) Add License

Add a definition program license into the SD card.

(2) Read License

Read out definition program licenses in the SD card and list them on the license list.

(3) List of definition program license

Definition program licenses in the SD card are shown here.

(4) Save To Text File

Save definition program license information, shown in the list above, into a file.

(5) Serial No.

Various serial numbers are shown here.

(6) Version

Various versions are shown here.

(7) WLAN settings

Change the settings of Wireless LAN connection for NETIMPRESS air.

This button can be click when host PC and NETIMPRESS are currently connected by USB.

(8) air Time Setting

Set the time of NETIMPRESS air.

(9) Action Log Setting

Set up the conditions to obtain log.

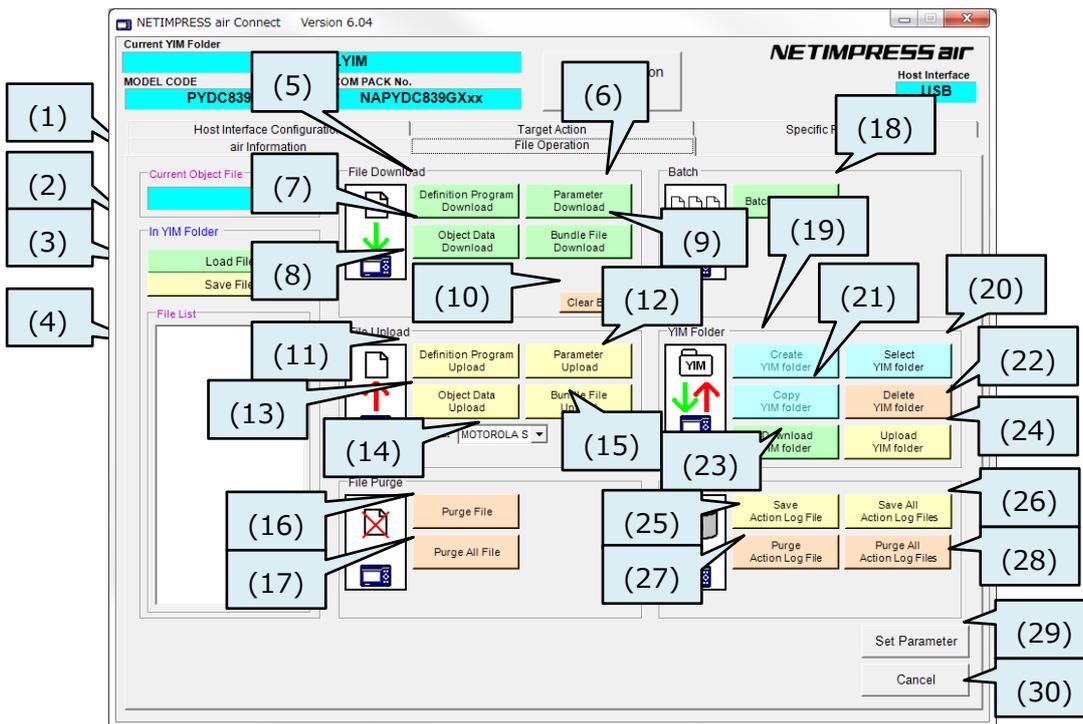
(10) Firmware Update

Update the firmware of NETIMPRESS air.

(11) SD card Format

Format the SD card in FAT32.

6.1.5. Window for File Operation



(1) Current Object File

The name of object file downloaded at the buffer memory is shown here.

When more than one object files are downloaded in the buffer memory, the name of object file which is downloaded the last is shown here.

The current file name is cleared when executing buffer clear or copy of target action.

(2) Load File

Load a file in the current folder to the buffer memory.

(3) Save File

Save the information in the buffer memory as a file into the current folder.

(4) List of files in current folder

Files existing in the current folder are listed here.

(5) Definition program download

Download definition program file on the host PC into NETIMPRESS air.

(6) Parameter Download

Download parameter file on the host PC into NETIMPRESS air.

(7) Object Data Download

Download object file on the host PC into NETIMPRESS air.

(8) Clear Buffer

Select whether to be deleted buffer memory automatically before downloading object file to buffer memory.

(9) Bundle File Download

Download Bundle file on the host PC into the current folder or the root of SD card.

(10) Clear Buffer button

Execute clearing buffer memory.

(11) Definition Program Upload

Save definition program, downloaded into the current folder, to the file in the host PC.

(12) Parameter Upload

Save parameter, downloaded into the current folder, to the file in the host PC.

(13) Object Data Upload

Save the data in the buffer memory to the file in current folder on the host PC.

(14) Format

Set the format which is used when you save the object file into host PC.

(15) Bundle File Upload

Save a file in the current folder and the root of SD card into the host PC.

(16) Purge File

Delete a file in the current folder and the root of SD card.

(17) Purge all File

Delete all files in the current folder and the root of SD card.

(18) Batch Download

Download multiple files at once.

(19) Create YIM folder

Create new YIM folder.

(20) Select YIM folder

Select the current folder.

(21) Copy YIM folder

Copy the current YIM folder.

(22) Delete YIM folder

Delete YIM folder.

(23) Download YIM folder

Download YIM folder on the host PC into the SD card.

(24) Upload YIM folder

Save YIM folder in the SD card to the host PC.

(25) Save Action Log File

Save an execution log file in the SD card to the host PC.

(26) Save All Action Log Files

Save all execution log files in the SD card to the host PC.

(27) Purge Action Log File

Delete the executing log file saved in the SD card.

(28) Purge All Action Log Files

Delete all executing log files saved in the SD card.

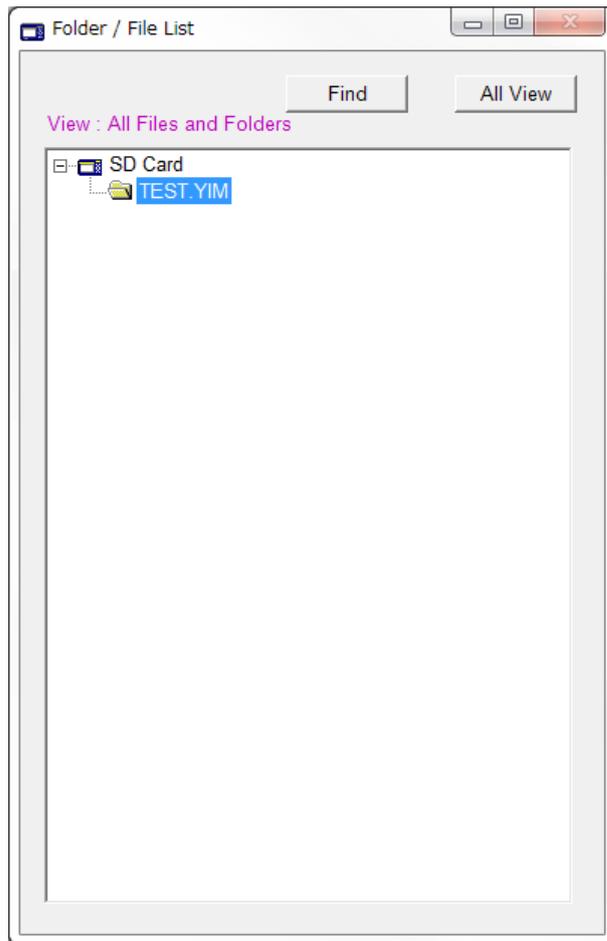
(29) Set Parameter

Click this button to reflect settings, which you have changed on this window, to NETIMPRESS air.

(30) Cancel

Click this button to cancel editing parameters without reflecting the settings which you have set on this window.

6.1.6. Window for Folder / File List



(1) Folder / File List

Folders and files in the YIM folder are shown by treeview.

However, the file in the YIM folder other than the current folder cannot be referred to.

(2) Find

Search a folder/file existed in the folder/file list.

(3) All View

Display all YIM folder/file in the SD card.

However, the file in the YIM folder other than the current folder is not displayed.

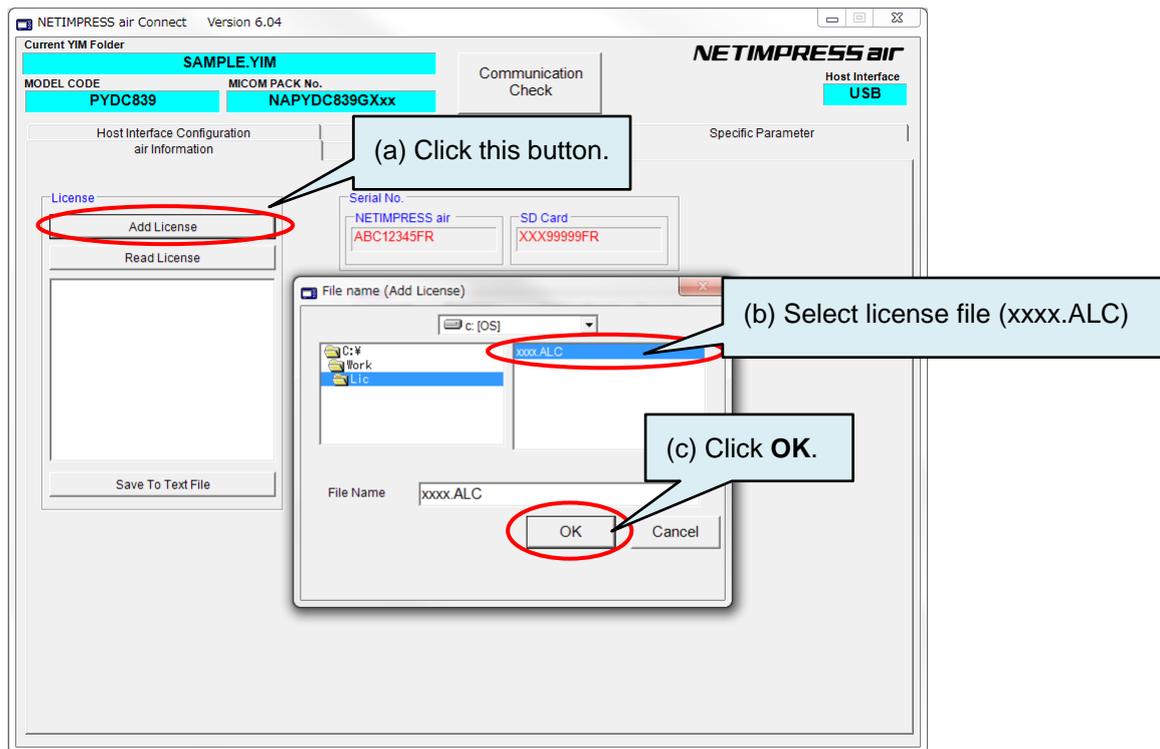
6.2. Operation

6.2.1. Adding definition program license

Add definition program license information into the SD card or NETIMPRESS air.

Click the **Add License** button on the **air Information** tab in the **License** group.

License file selection window is shown. Select a license file (.ALC) you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel adding a definition program license.

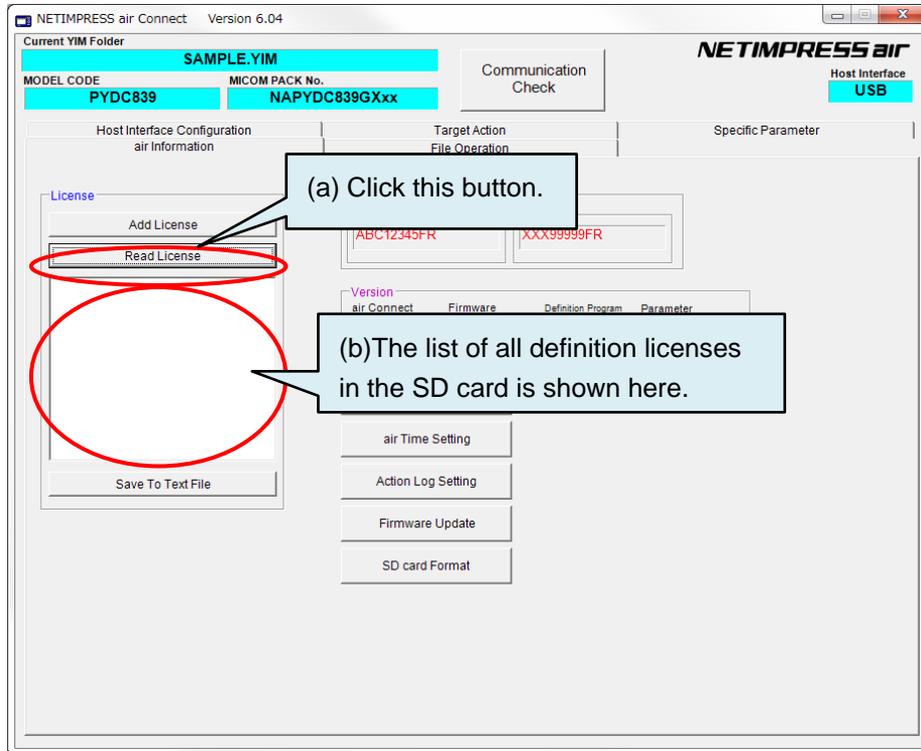


6.2.2. Read-out definition program license

Read out definition program license information in the SD card and display them.

Click the **Read License** button on the **air Information** tab in the **License** group.

Definition program license information in the SD card is shown in the definition program license list.

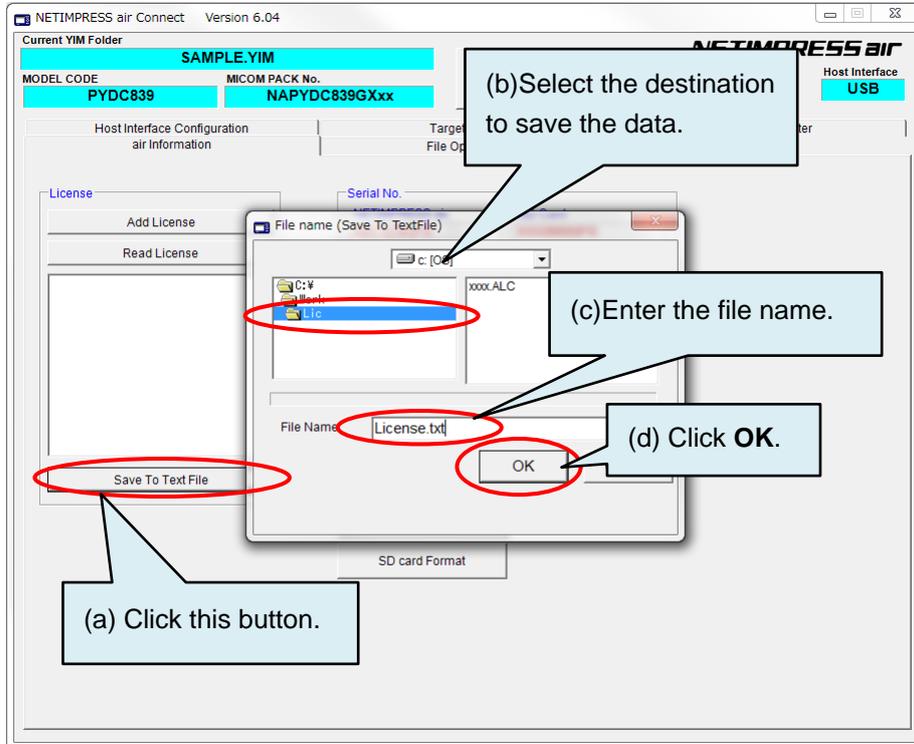


6.2.3. Saving definition program license information

Save definition program license information, which is read out from the SD card, to the host PC as a text file.

Click the **Save to Text File** button on the **air Information** tab in the **License** group.

File saving window is shown. Select a destination to save a text file and set a file name, and then click the **OK** button. Click the **Cancel** button if you want to cancel the saving a text file.



6.2.4. Creating YIM folder

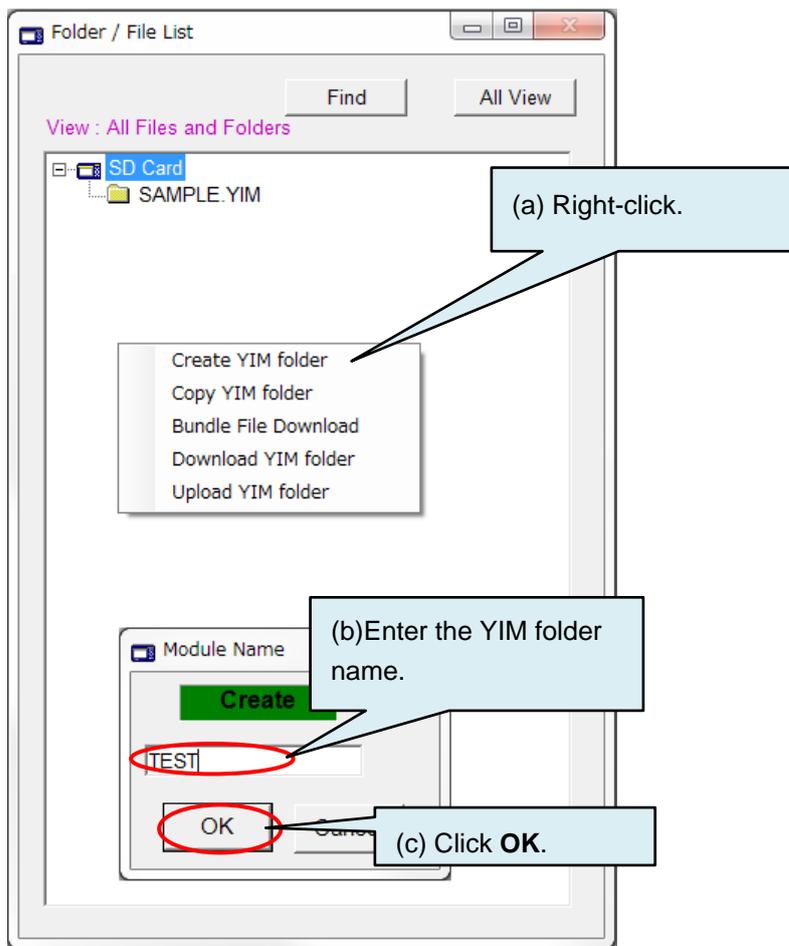
Create a new YIM folder in the SD card.

There are two ways to create YIM folder.

[1]

Right-click on the Folder/File list window, and then click **Create YIM folder** in shown menu.

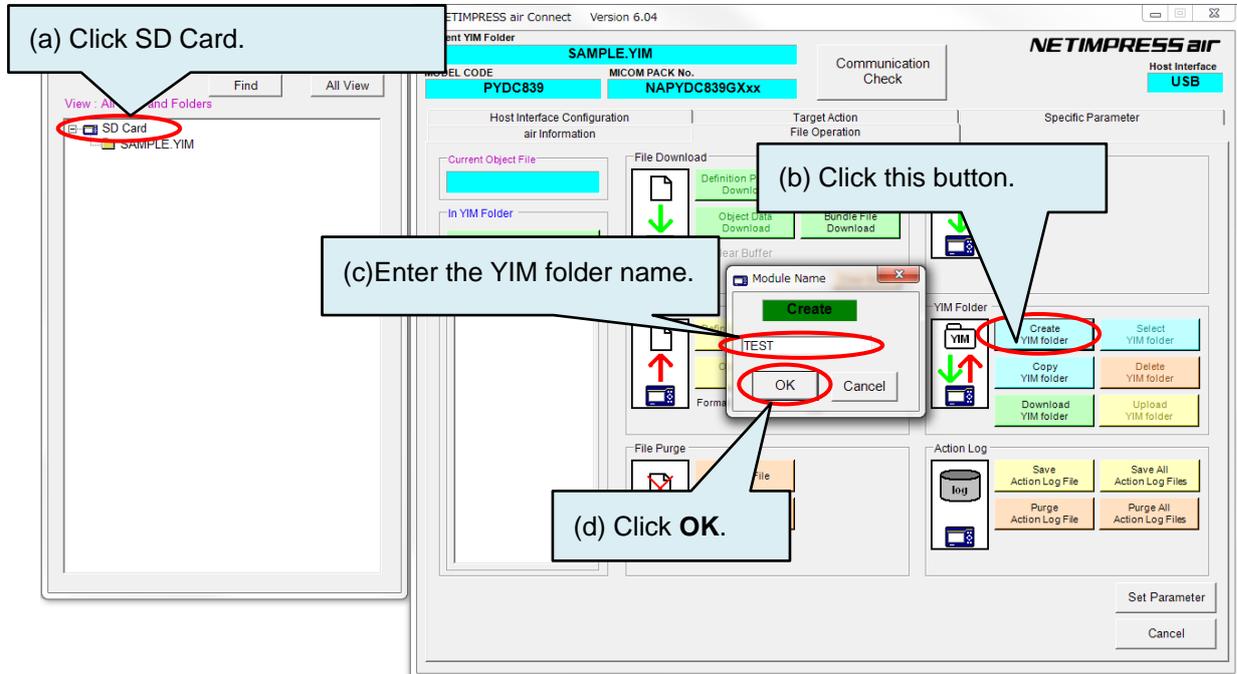
YIM folder creation window is shown. Enter folder name, and then click the **OK** button. Click the **Cancel** button if you want to cancel creation of YIM folder.



[2]

Select **SD Card** on the Folder / File list window, and then click the **Create YIM** folder button in the **YIM Folder** group on the **File Operation** tab.

YIM folder creation window is shown. Enter folder name, and then click the **OK** button. Click the **Cancel** button if you want to cancel creation of YIM folder.



6.2.5. Selecting YIM folder

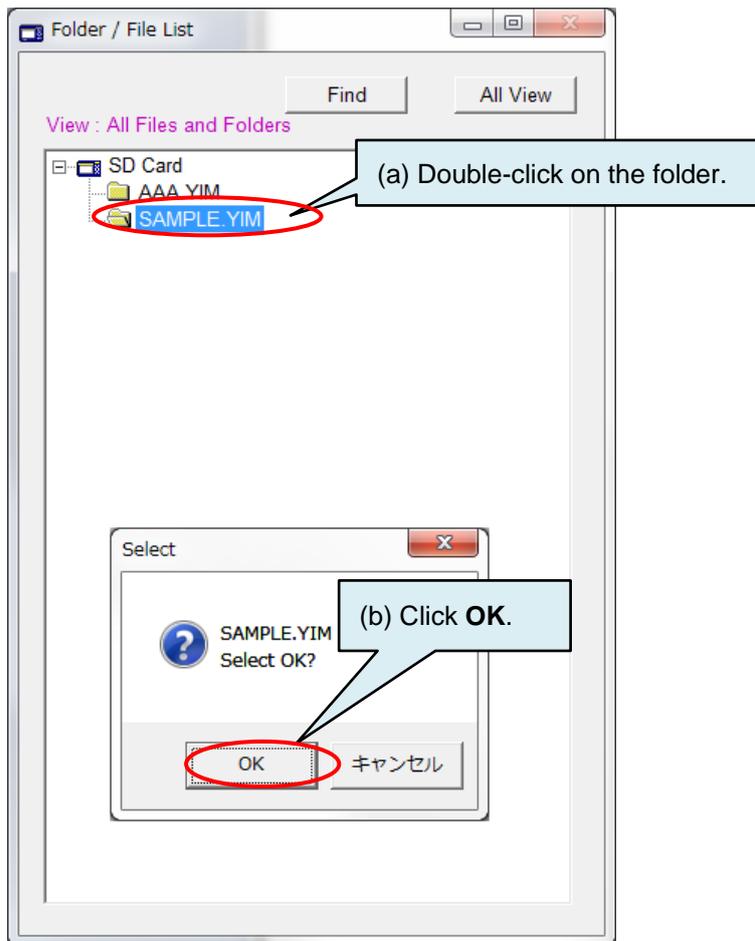
Select one of the YIM folders in the SD card to the current folder.

There are four ways to select YIM folder.

[1]

On the Folder/File list window, double-click YIM folder you want to select.

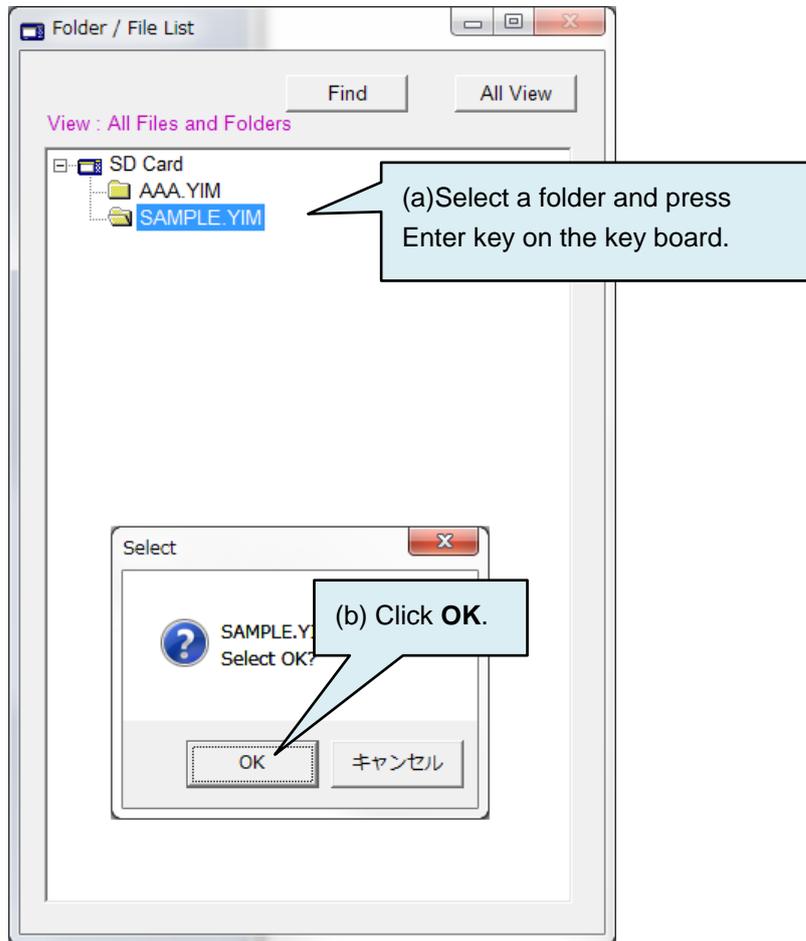
Confirmation window is shown. Click the **OK** button. Click the **Cancel** button if you want to cancel selecting YIM folder.



[2]

Select YIM folder on the Folder / File list window, and then click **Enter** on the key board.

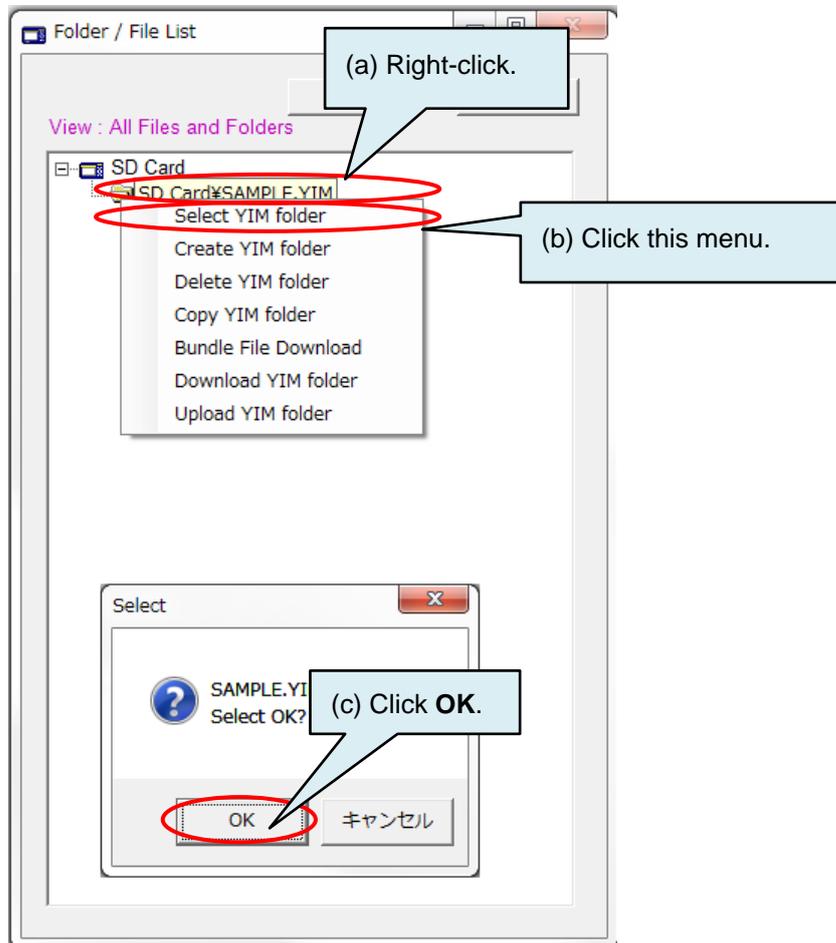
Confirmation window will be shown. Click the **OK** button. Click the **Cancel** button if you want to cancel selecting YIM folder.



[3]

Right-click on the Folder/File list window, and then click **Select YIM folder** in shown menu.

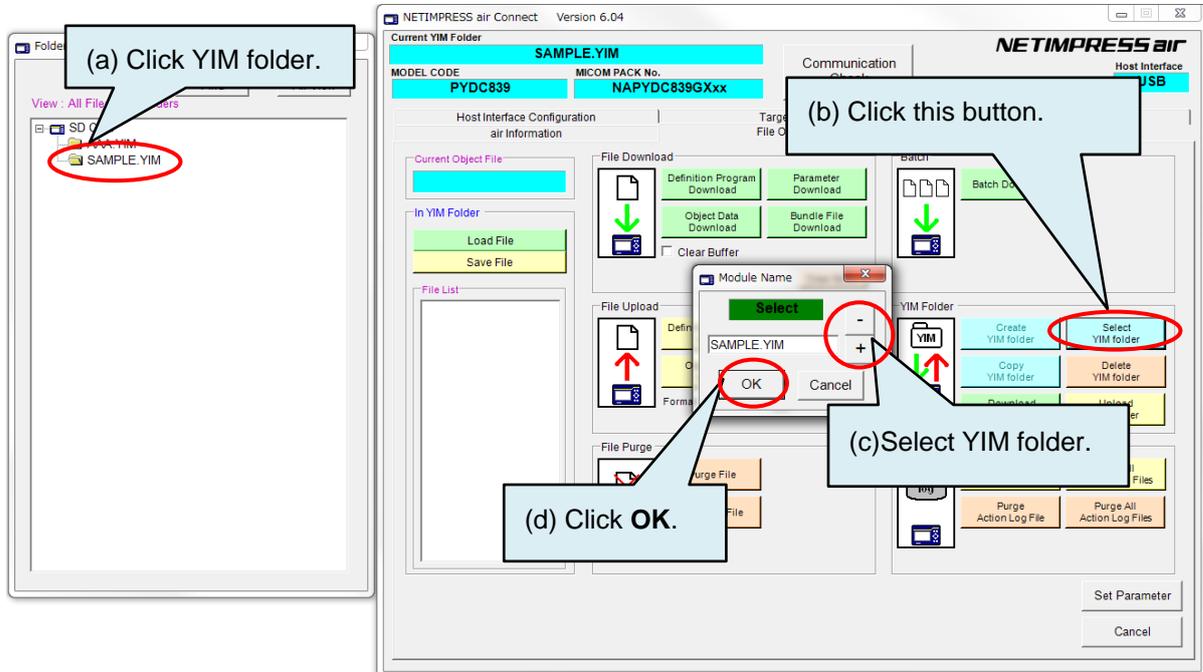
Confirmation window is shown. Click the **OK** button. Click the **Cancel** button if you want to cancel selecting YIM folder.



[4]

Select a YIM folder on the Folder / File list window, and then click the **Select YIM folder** button in the **YIM Folder** group on the **File Operation** tab.

YIM folder selection window will be shown. Select YIM folder using the “+” button and “-” button on the window, and then click the **OK** button. Click the **Cancel** button if you want to cancel selecting YIM folder.



6.2.6. Copying YIM folder

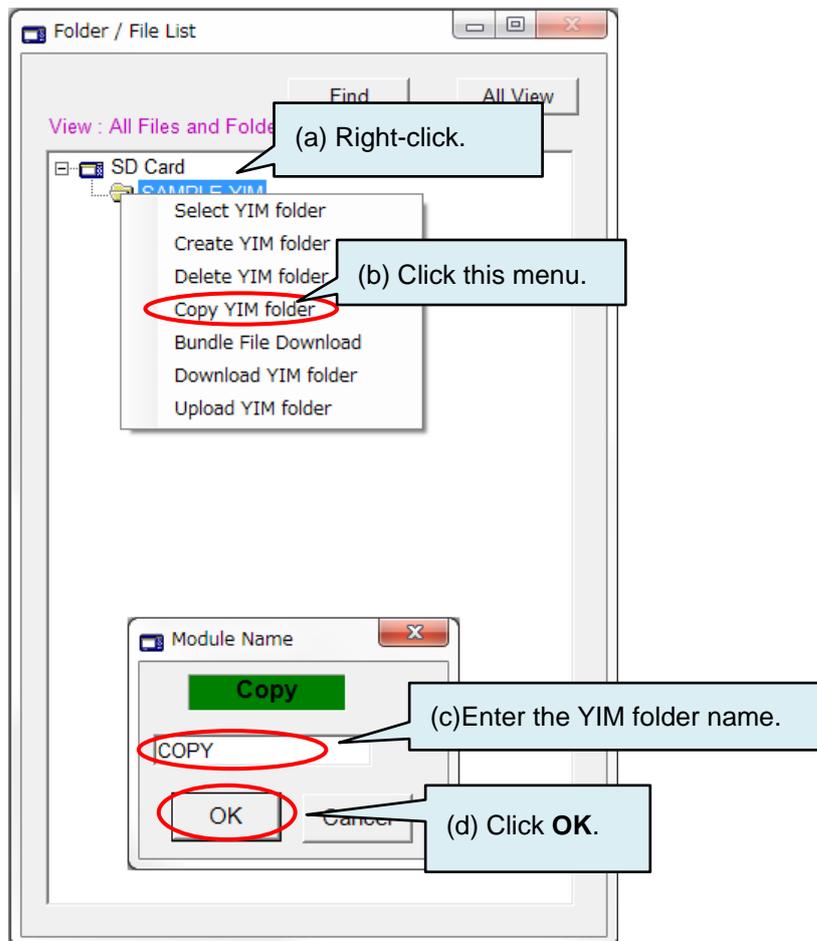
Copy the current folder in the SD card and save it as another name.

There are two ways to copy the YIM folder.

[1]

Right-click on the current folder in Folder/File list window, and then click **Copy YIM folder** in shown menu.

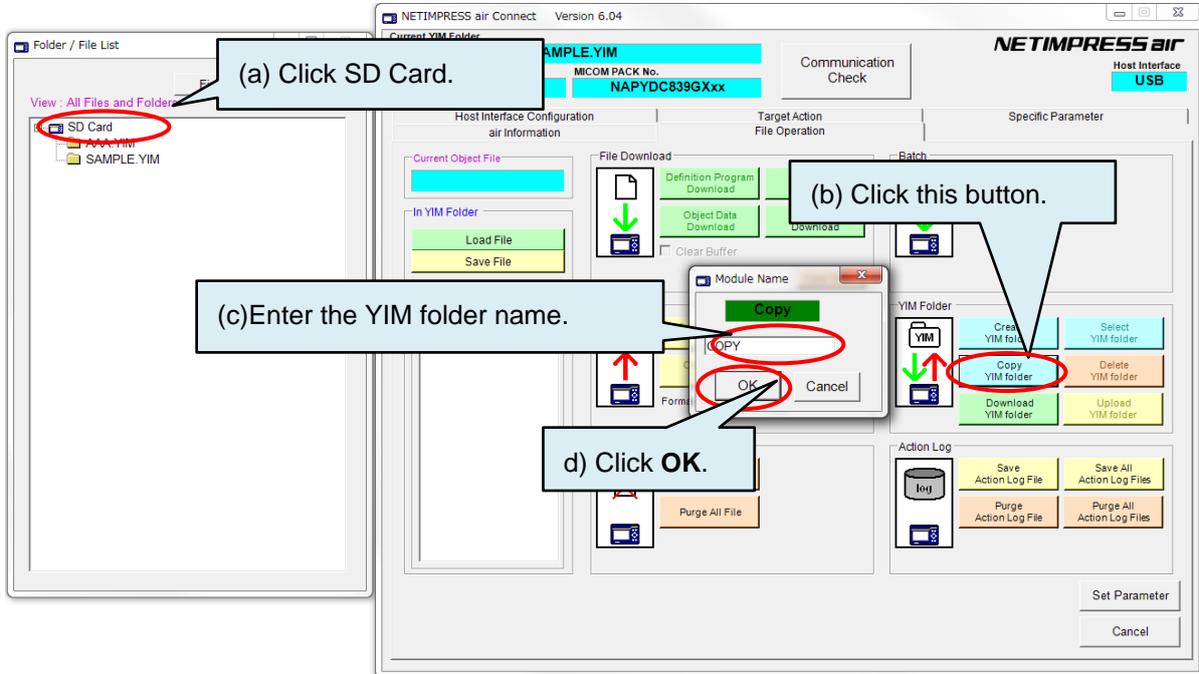
YIM folder name setting window of copy destination is shown. Enter YIM folder name of copy destination, and then click **OK** button. Click the **Cancel** button if you want to cancel copying YIM folder.



[2]

Select the **SD Card** on the Folder / File list window, and then click the **Copy YIM folder** button in the **YIM Folder** group on the **File Operation** tab.

The setting window for the name of YIM folder at copy destination is shown. Enter the name of YIM folder at copy destination, and then click **OK** button. Click the **Cancel** button if you want to cancel copying YIM folder.



6.2.7. Deleting YIM folder

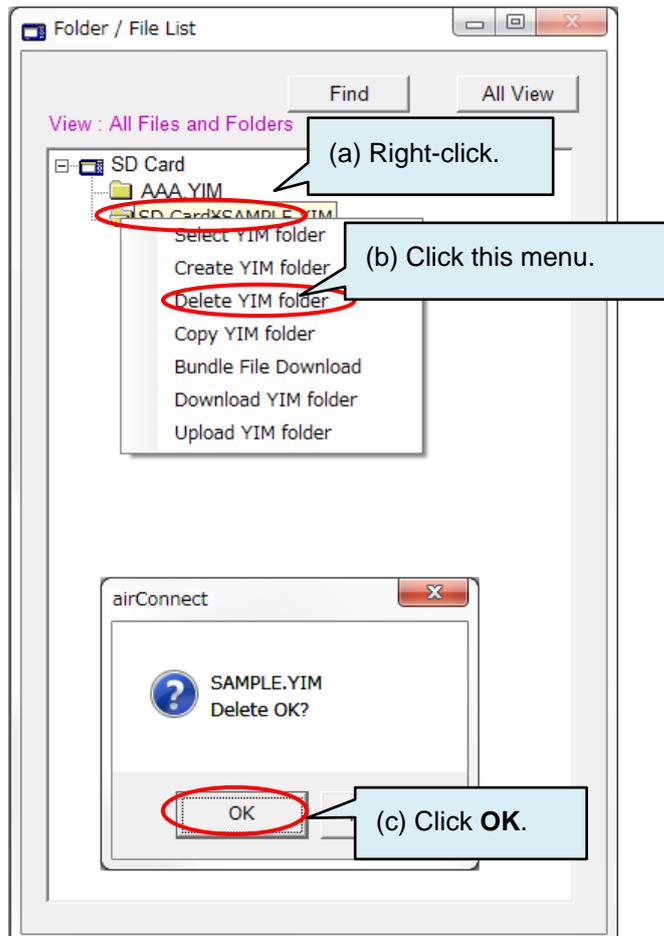
Delete YIM folder in the SD card.

There are three ways to delete the YIM folder.

[1]

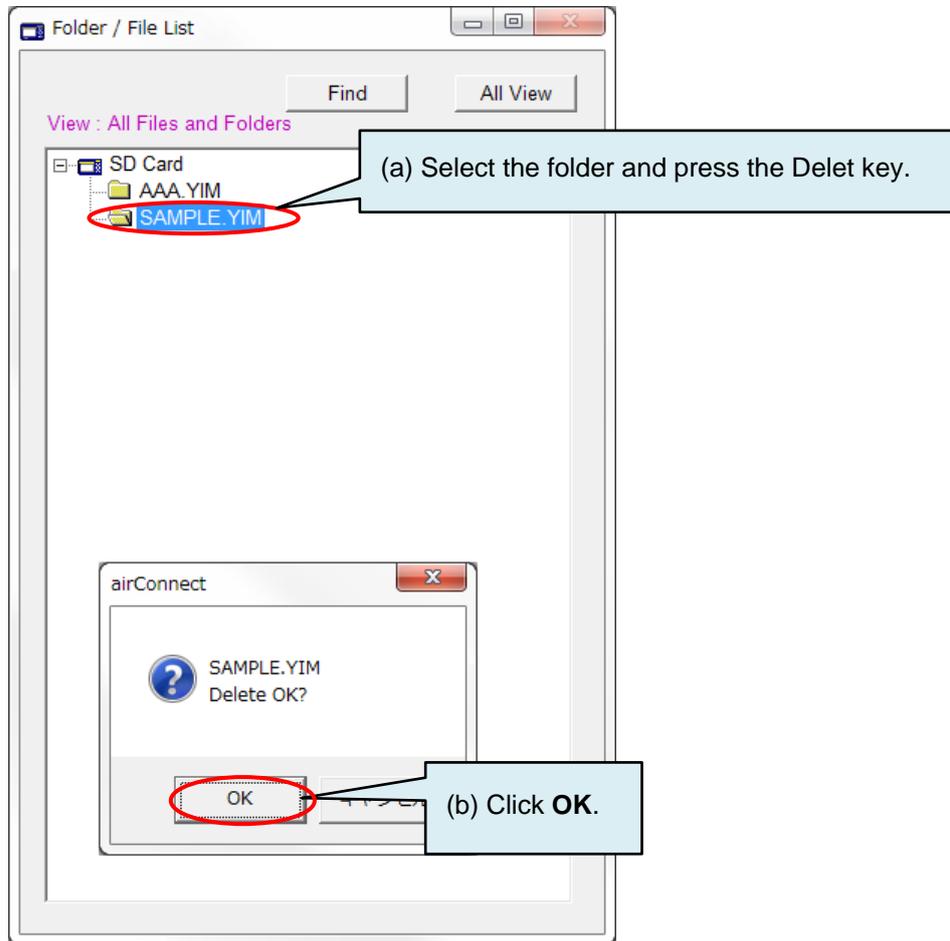
On the Folder/File list window, right-click on YIM folder you want to delete, and then click **Delete YIM folder** in shown menu.

Confirmation window is shown. Click the **OK** button. Click the **Cancel** button if you want to cancel deleting YIM folder.



[2]

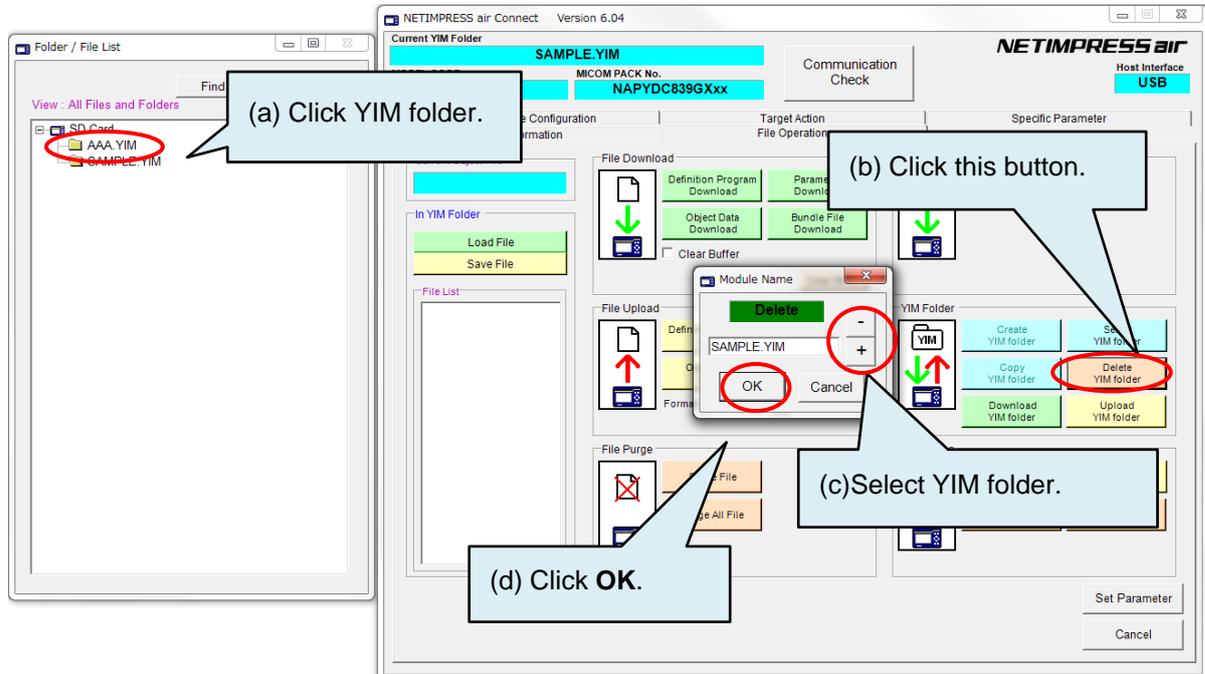
On the Folder / File list window, select YIM folder you want to delete, and then click **Delete** on the key board. Confirmation window is shown. Click the **OK** button. Click the **Cancel** button if you want to cancel deleting YIM folder.



[3]

Select YIM folder on the Folder / File list window, and then click the **Delete YIM folder** button in the **YIM Folder** group on the **File Operation** tab.

YIM folder selection window will be shown. Select YIM folder using the “+” button and “-” button on the window and then click the **OK** button. Click the **Cancel** button if you want to cancel deleting YIM folder.



6.2.8. Downloading YIM folder

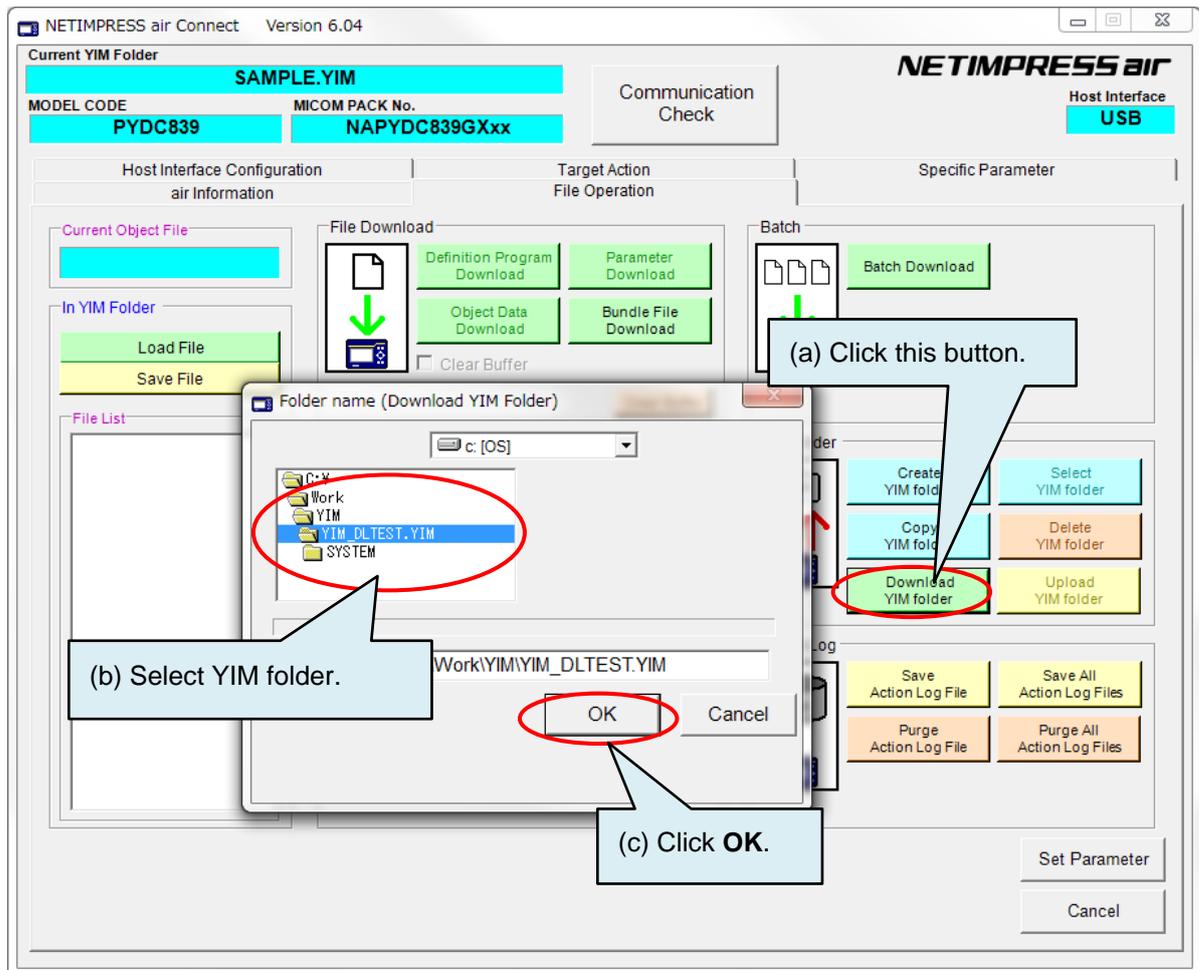
Download YIM folder on host PC into the SD card.

There are two ways to download YIM folder.

[1]

Click the **Download YIM folder** button which you can find in the **YIM Folder** group on the **File Operation** tab.

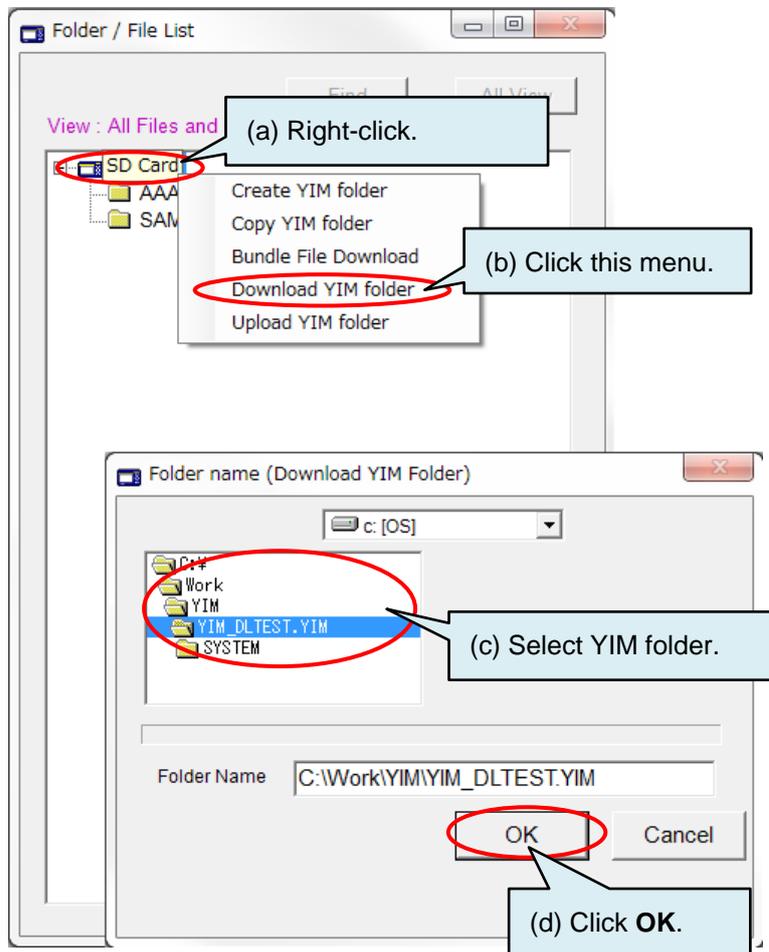
YIM folder selection window will be shown. Select YIM folder you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading YIM folder.



[2]

Right-click on the Folder/File list window, and then click **Download YIM folder** in shown menu.

YIM folder selection window will be shown. Select YIM folder you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading YIM folder.



6.2.9. Uploading YIM folder

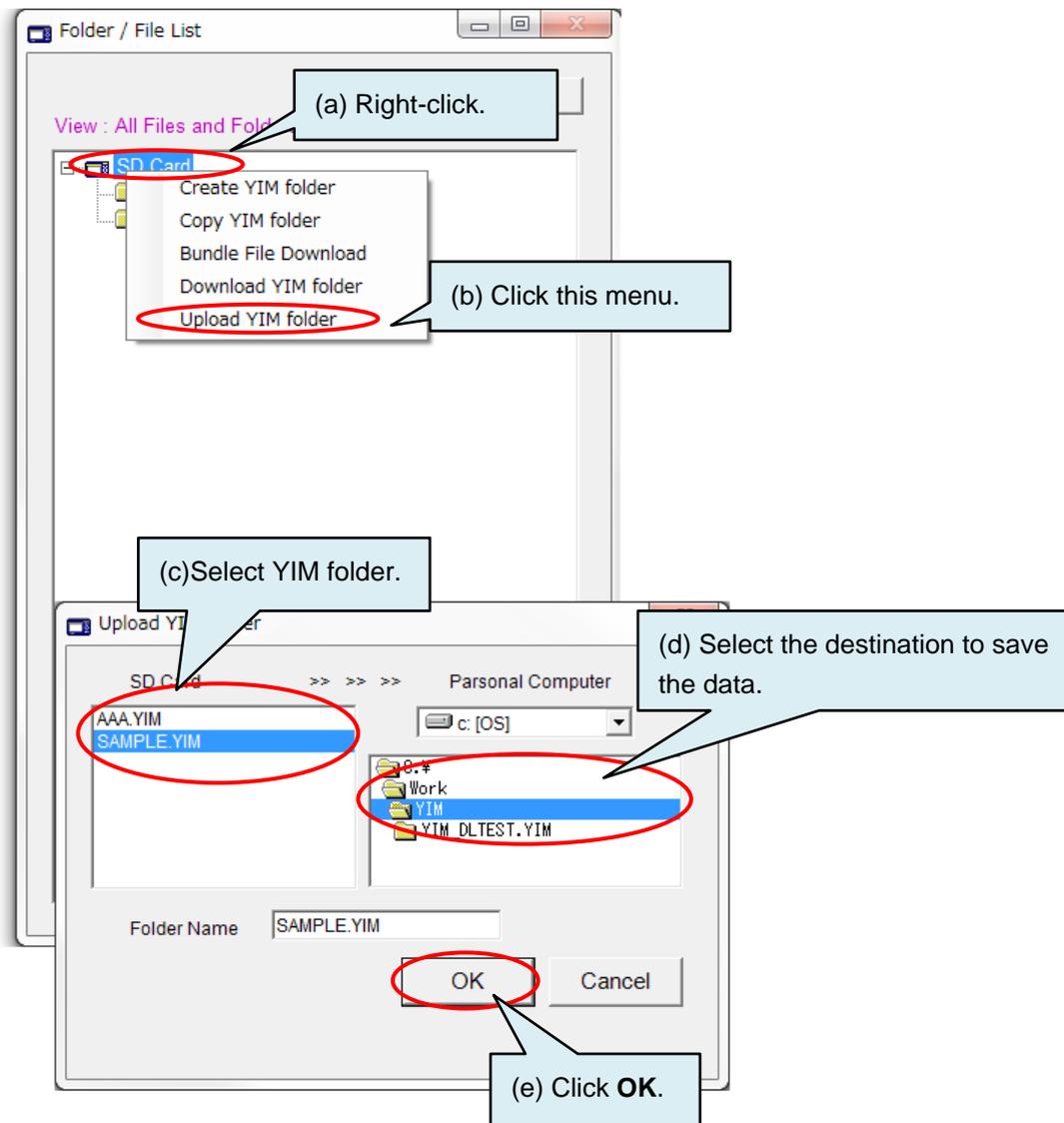
Upload YIM folder in the SD card to host PC.

There are two ways to upload YIM folder.

[1]

On the Folder/File list window, right-click on **SD card**, and then click **upload YIM folder** in shown menu.

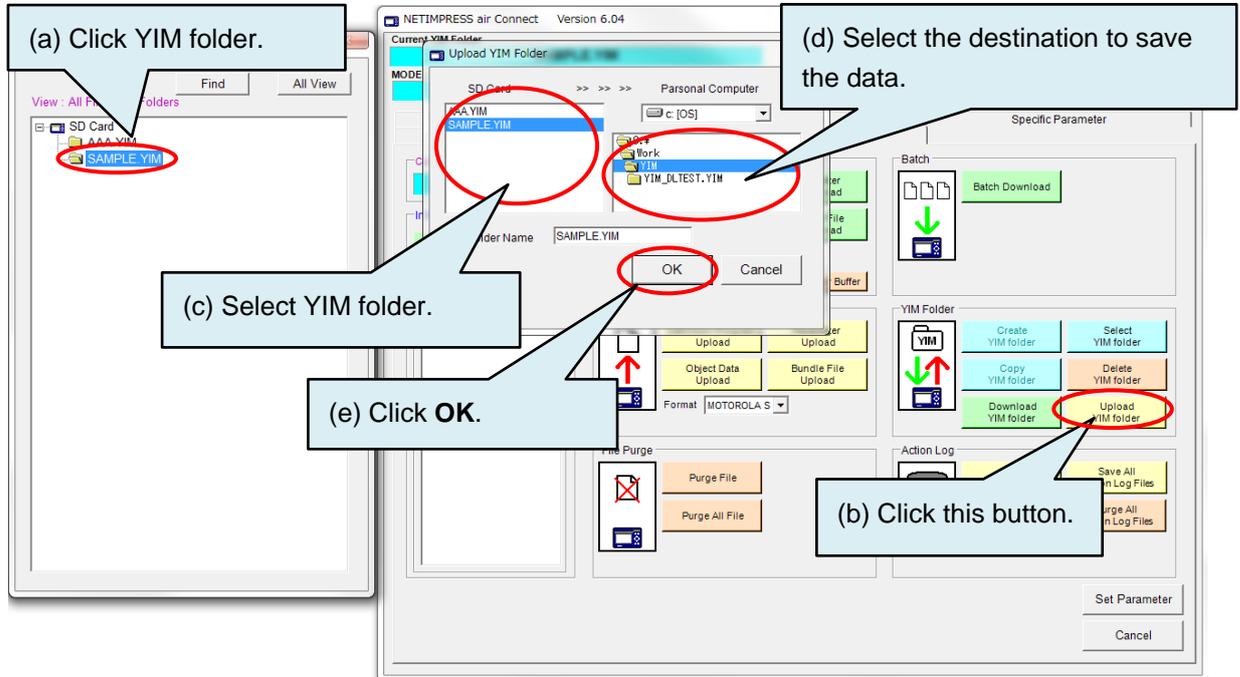
Setting window for selecting save destination of YIM folder is shown. Select a destination to save YIM folder, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading YIM folder.



[2]

Select YIM folder on the Folder/File list window, and then click the **Upload YIM folder** button in the **YIM Folder** group on the **File Operation** tab.

Setting window for selecting save destination of YIM folder is shown. Select a destination to save YIM folder, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading YIM folder.

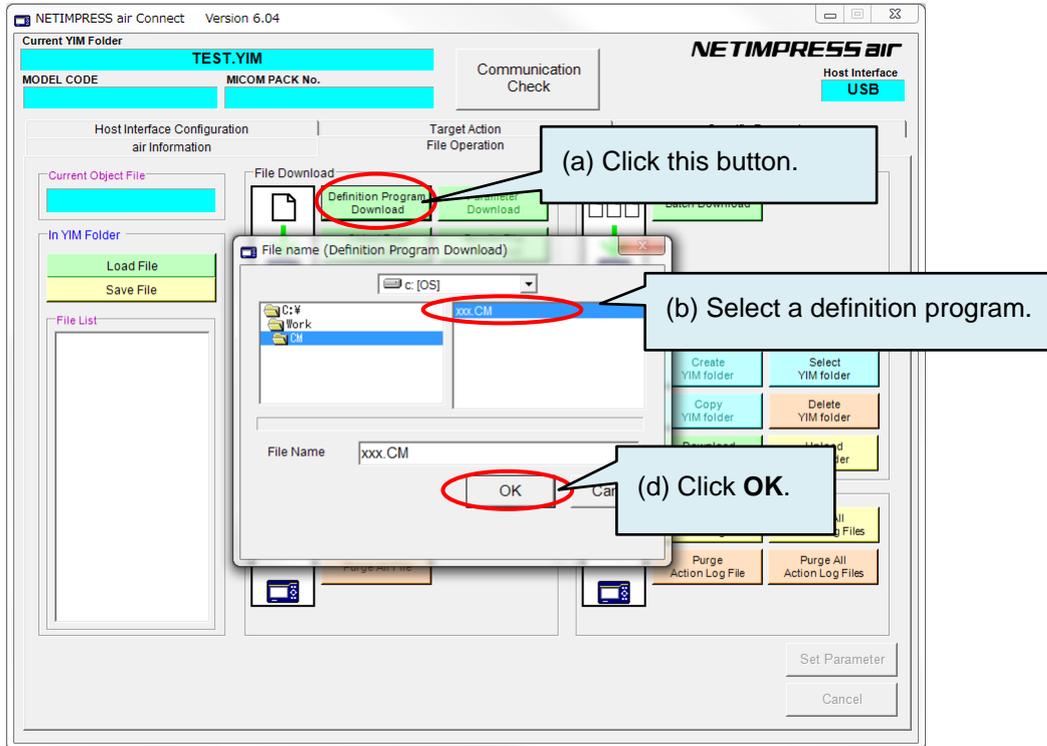


6.2.10. Downloading definition program file

Download a definition program file to the current folder.

Select the current folder On the Folder/File list window, and then click **Definition Program Download** button in the **File Download** group on the **File Operation** tab.

Window for selecting definition program file is shown. Select a definition program file you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading a definition program file.

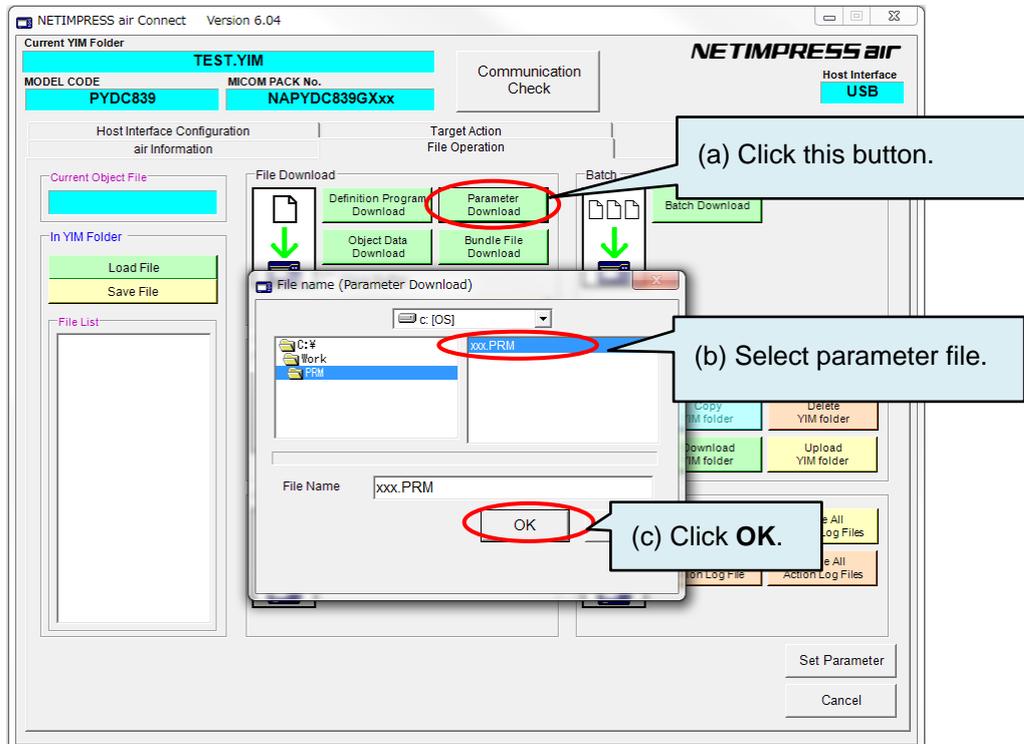


6.2.11. Downloading parameter file

Download a parameter file to the current folder.

Select the current folder On the Folder/File list window, and then click **Parameter Download** button in the **File Download** group on the **File Operation** tab.

Window for selecting Parameter file is shown. Select a parameter file you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading a parameter file.



If you download a parameter file which is not supported by the definition program downloaded in the current folder, it will result in an error.



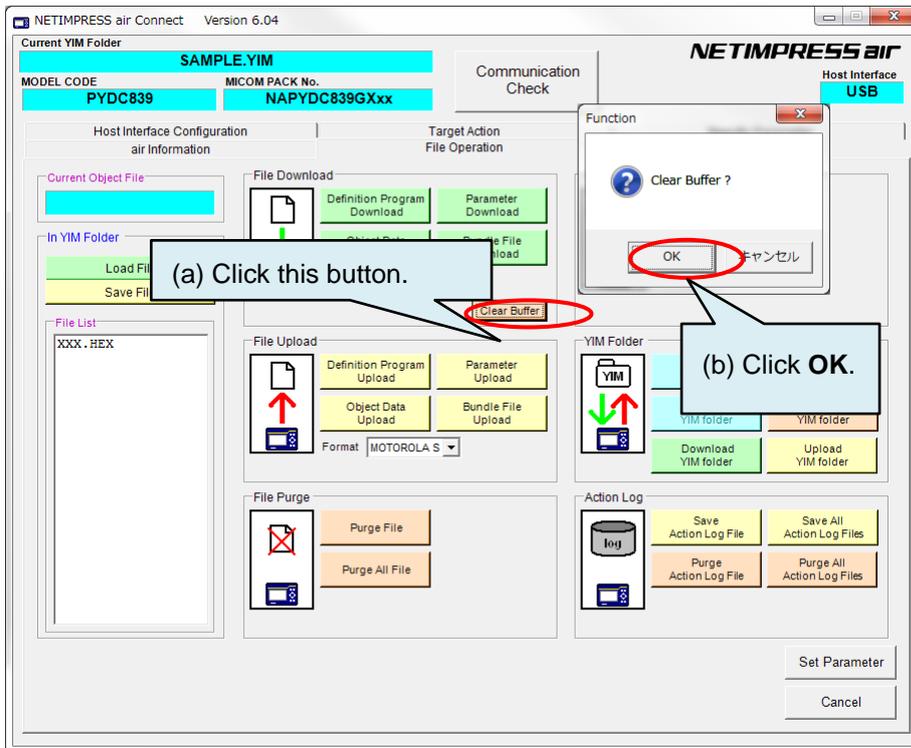
The buffer memory is cleared when a parameter file, which differs from the parameter file existed in the current folder, is downloaded.

6.2.12. Buffer memory clear

Initialize the buffer memory of the current folder.

Select the current folder On the Folder/File list window, and then click **Clear Buffer** button in the **File Download** group on the **File Operation** tab.

Confirmation window will be shown. Click the **OK** button. Click the **Cancel** button if you want to cancel the buffer memory clear.



When buffer memory clear is executed, the value of whole buffer memory area is initialized to the value which configured by the parameter.

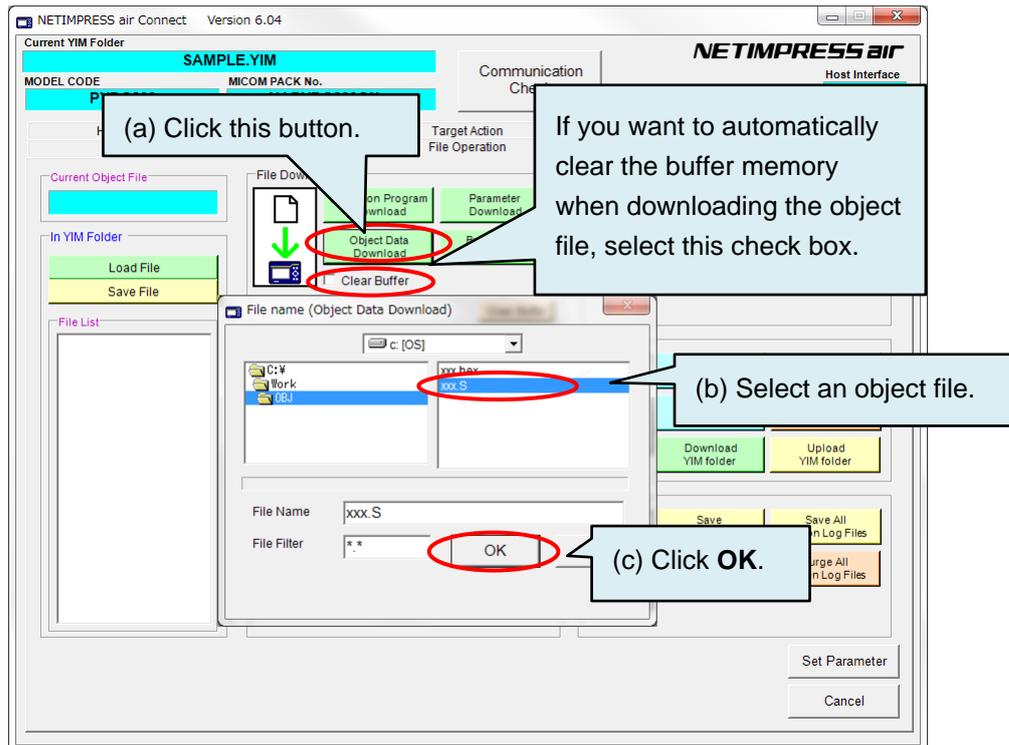
6.2.13. Downloading object file

Download an object file into buffer memory of the current folder.

Select the current folder On the Folder/File list window, and then click **Object Data Download** button in the **File Download** group on the **File Operation** tab.

Window for selecting object file is shown. Select an object file you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading object file.

If you select the **Clear Buffer** check box, which you can find in the **File Download** group on the **File Operation** tab, the buffer memory is automatically cleared when downloading the object file.



6.2.14. Downloading bundle file

Download a bundle file into the current folder.

There are two ways to download a bundle file on host PC into the SD card.

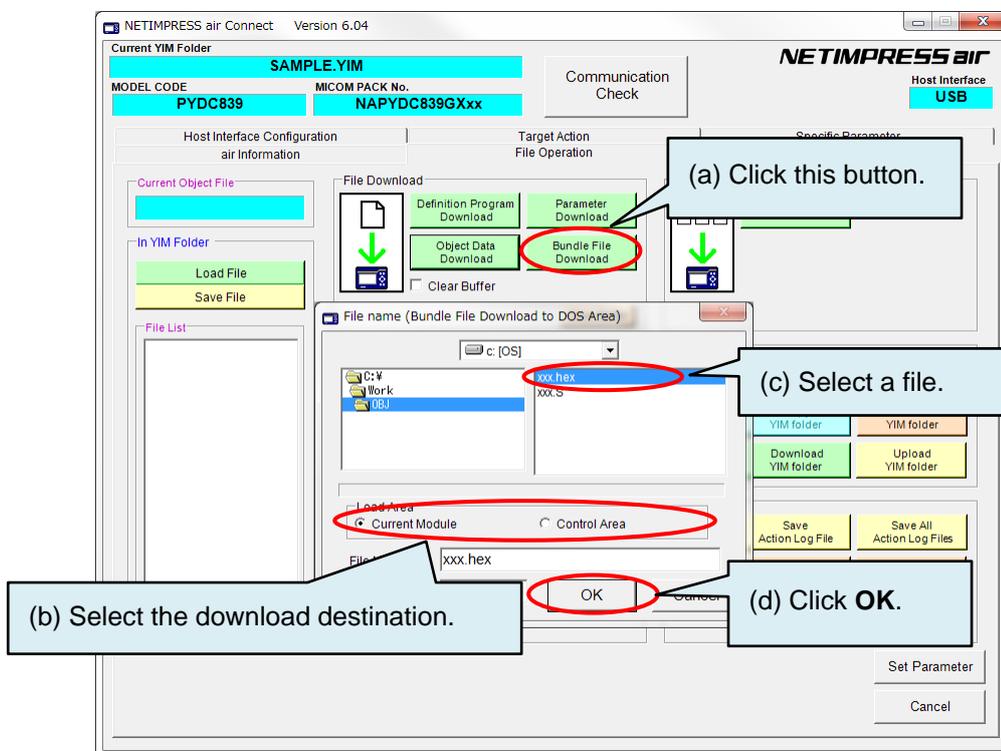
[1]

Select the current folder in the Folder/File list window, and then click **Bundle File Download** button in the **File Download** group on the **File Operation** tab.

File selection window is shown. Select a file you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading a bundle file.

If you select the **Current Module** for the **Load Area** on the file selection window, the bundle file is downloaded into the current folder.

Also if you select the **Control Area** for the **Load Area** on the file selection window, the file is downloaded into the root of the SD card.



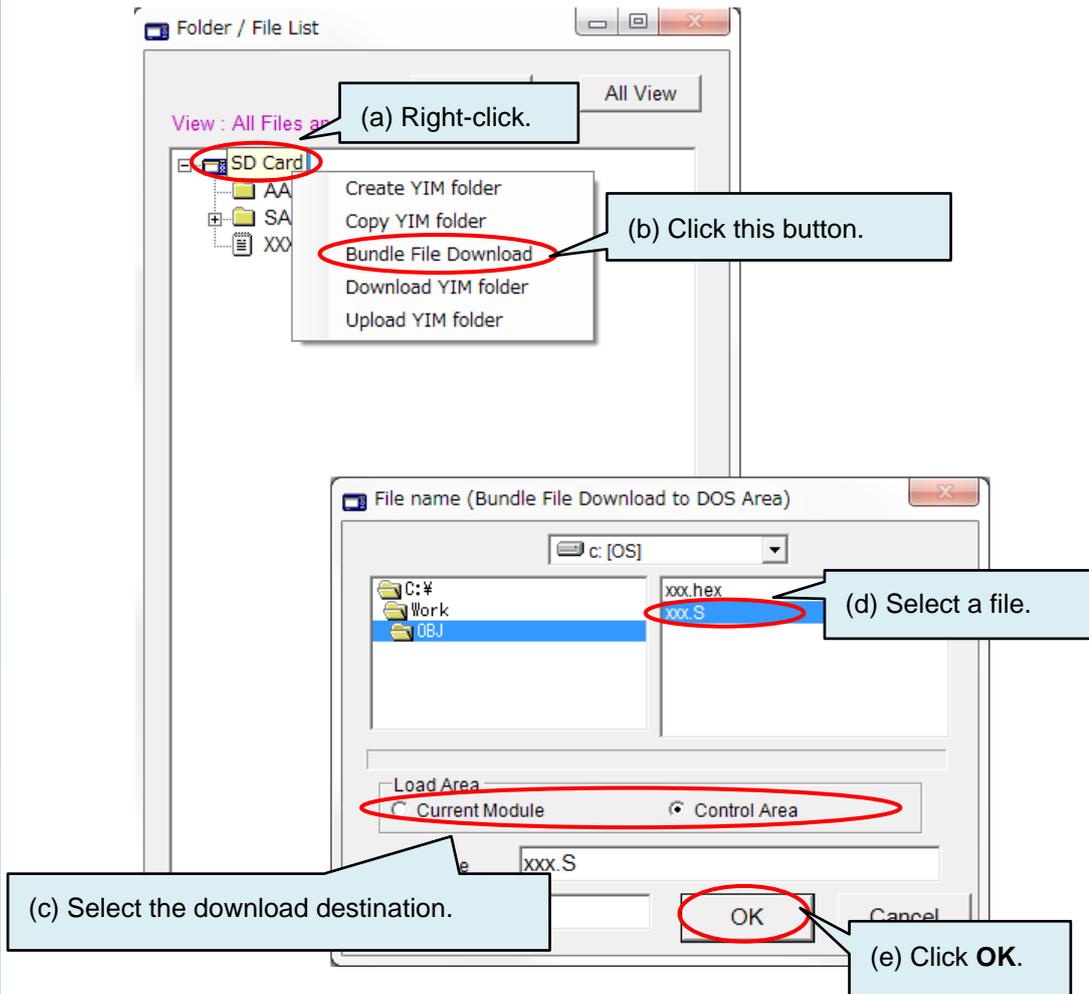
[2]

On the Folder/File list window, right-click on the **SD Card** or the current folder, and then click **Bundle File Download** in shown menu.

File selection window is shown. Select a file you want to download, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading a bundle file.

If you select the **Current Module** for the **Load Area** on the file selection window, the file is downloaded into the current folder.

Also if you select the **Control Area** for the **Load Area** on the file selection window, the file is downloaded into the root of the SD card.

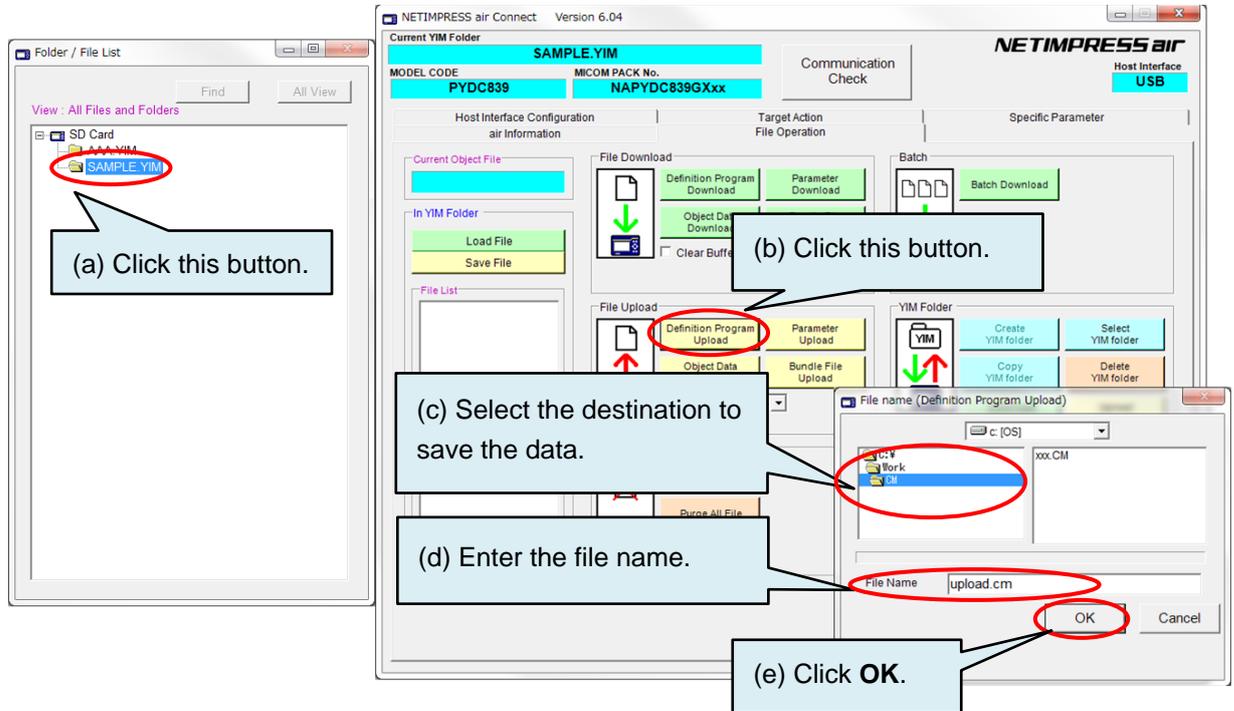


6.2.15. Uploading definition program file

Upload a definition program file in the current folder to host PC.

Select the current folder on the Folder/File list window, and then click **Definition Program Upload** button in the **File Upload** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a destination to save definition program file, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading a definition program file.

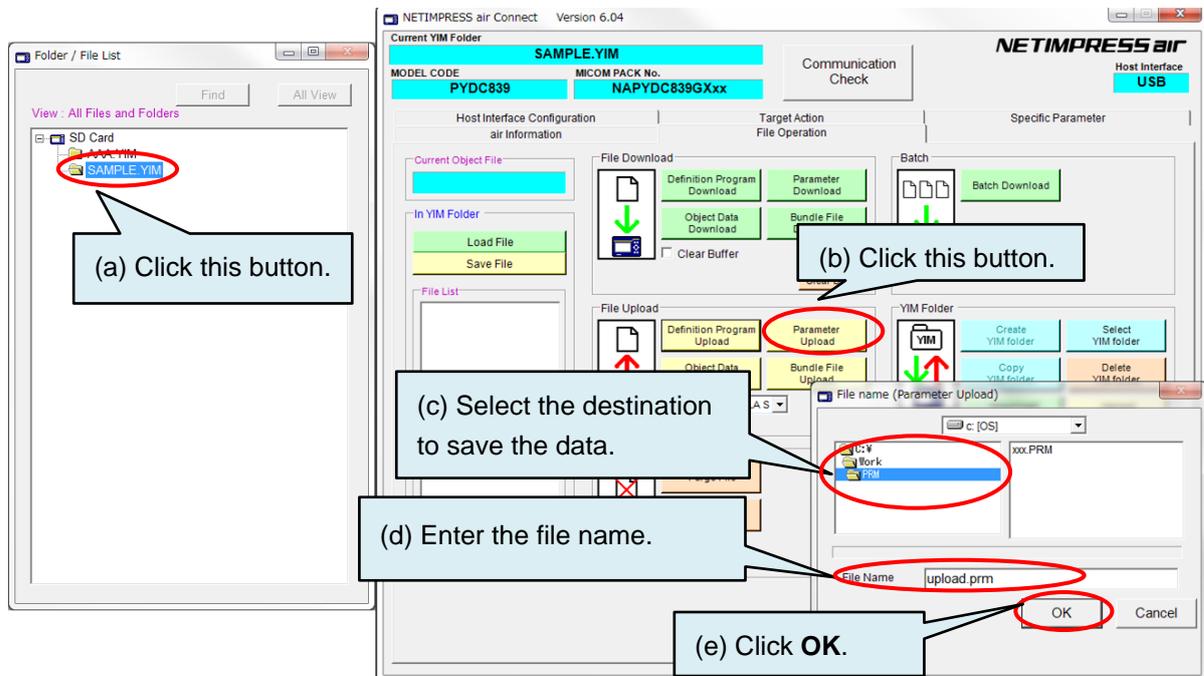


6.2.16. Uploading Parameter file

Upload a parameter file in the current folder to host PC.

Select the current folder on the folder/file list window, and then click **Parameter upload** button in the **File Download** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a destination to save parameter file, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading a parameter file.

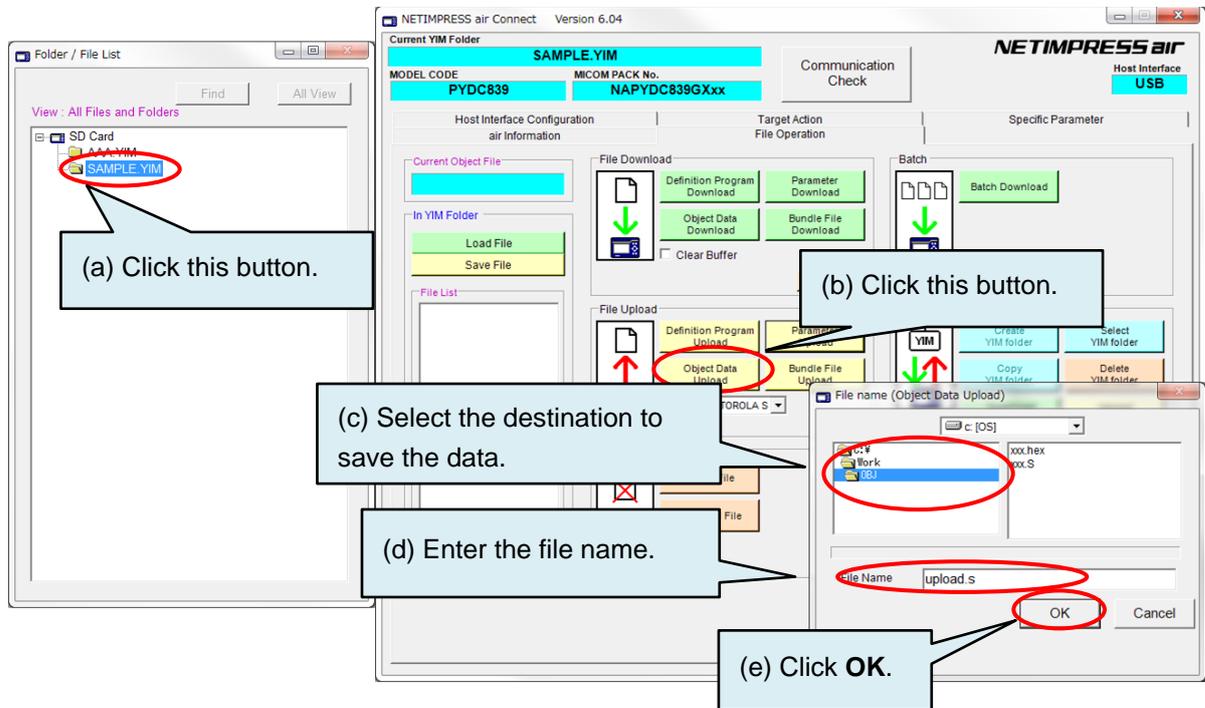


6.2.17. Uploading Object file

Upload a buffer memory in the current folder to host PC.

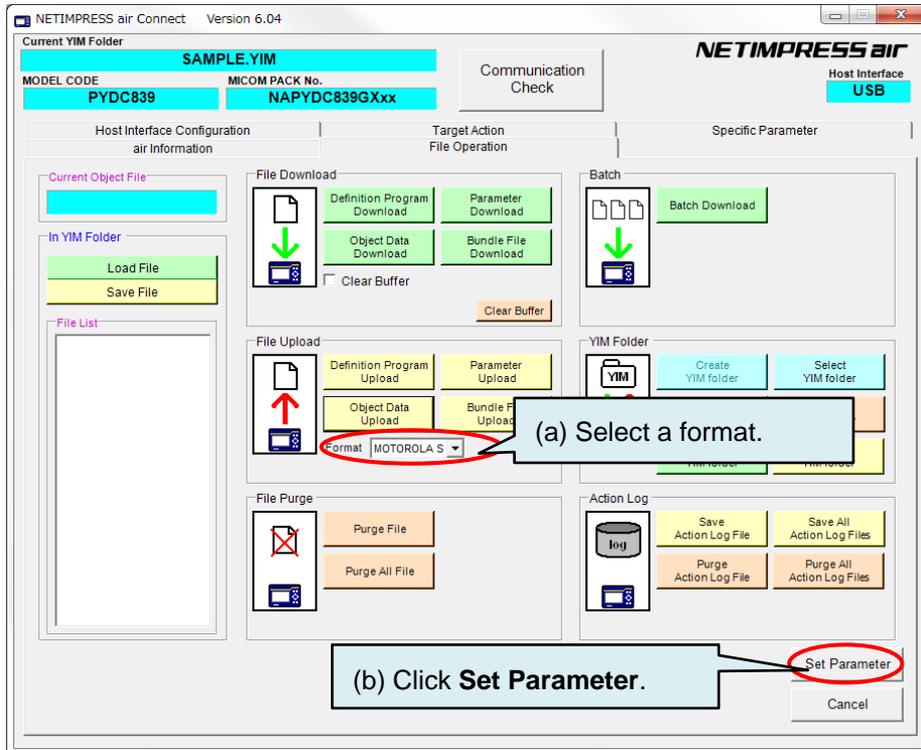
Select the current folder on the folder/file list window, and then click **Object Data Upload** button in the **File Upload** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a destination to save the object file, and then click the **OK** button. Click the **Cancel** button if you want to cancel downloading the object file.



The format of the object file is the format which has selected at **Format** in the **File Upload** group on the **File Operation** tab. Intel Hex or Motorola S are selected for **Format**.

If you want to change **Format**, select the format on the window, and click the **Set Parameter** button on bottom right of the **File Operation** tab. The setting is not referred if you click **Cancel** button.



6.2.18. Uploading Bundle file

Upload a bundle file in the SD card to host PC.

There are two ways to upload a bundle file.

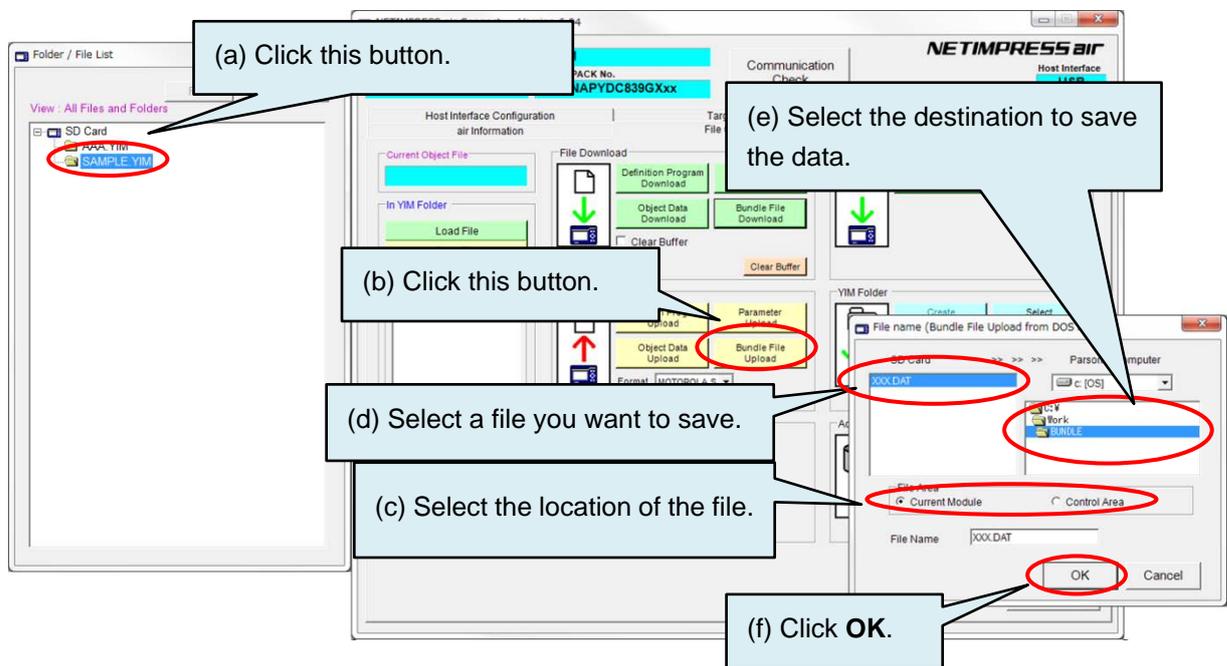
[1]

Select the current folder on the folder/file list window, and then click **Bundle File Upload** button in the **File Upload** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a bundle file you want to save and destination to save it, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading a bundle file.

On the window for setting the destination of saving file, if you select the **Current Module** for the **File Area**, the file in the current folder is saved into host PC.

Also, if you select the **Control Area** for the **File Area**, the file in the root of SD card is saved into host PC.



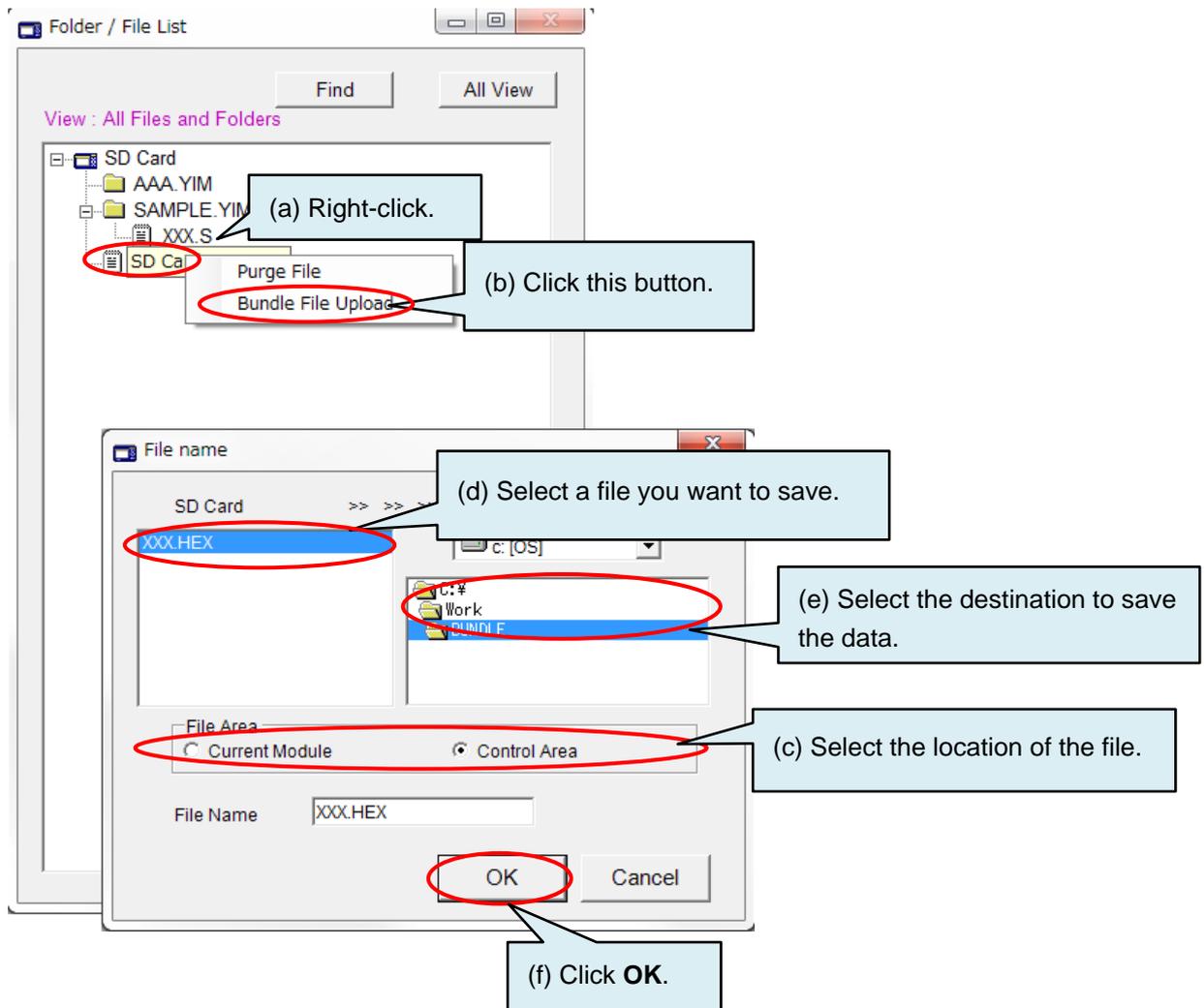
[2]

On the folder/file list window, right-click on the file in the root of the SD card or in the current folder. And then click **Bundle File Upload** in shown menu.

Window for setting the destination of saving file is shown. Select a bundle file you want to save and destination to save it, and then click the **OK** button. Click the **Cancel** button if you want to cancel uploading a bundle file.

On the window for setting the destination of saving file, if you select the **Current Module** for the **File Area**, the file in the current folder is saved into host PC.

Also, if you select the **Control Area** for the **File Area**, the file in the root of the SD card is saved into host PC.



6.2.19. File deletion

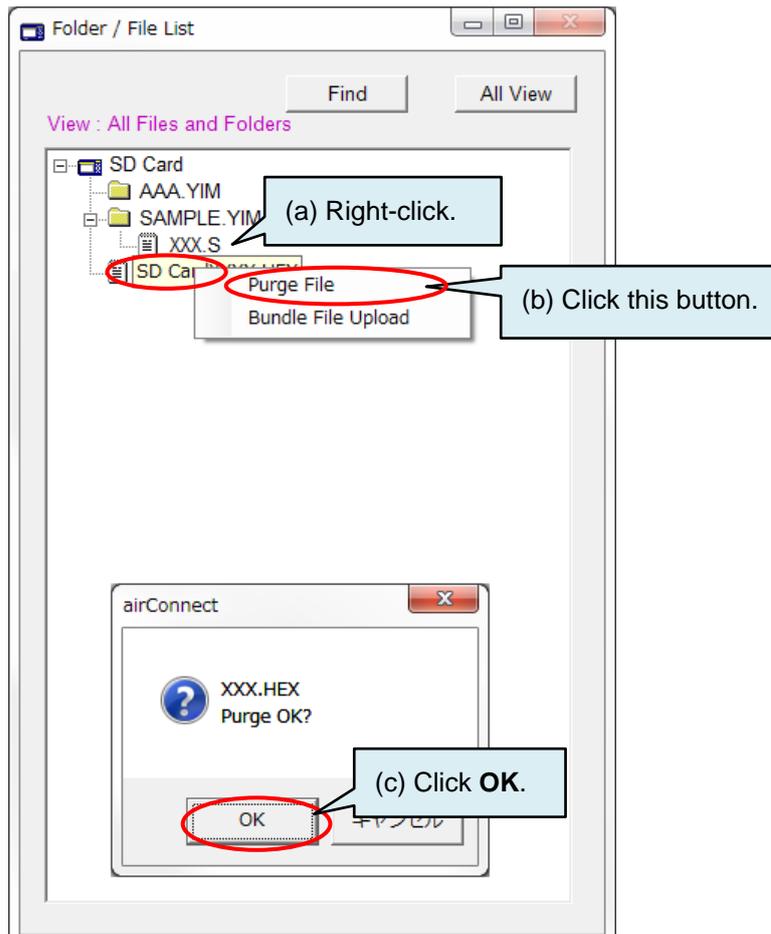
Delete a file in the SD card.

There are four ways to delete a file.

[1]

On the folder/file list window, right-click a file in the current folder or in the root of SD card, and then click **Purge File** in shown menu.

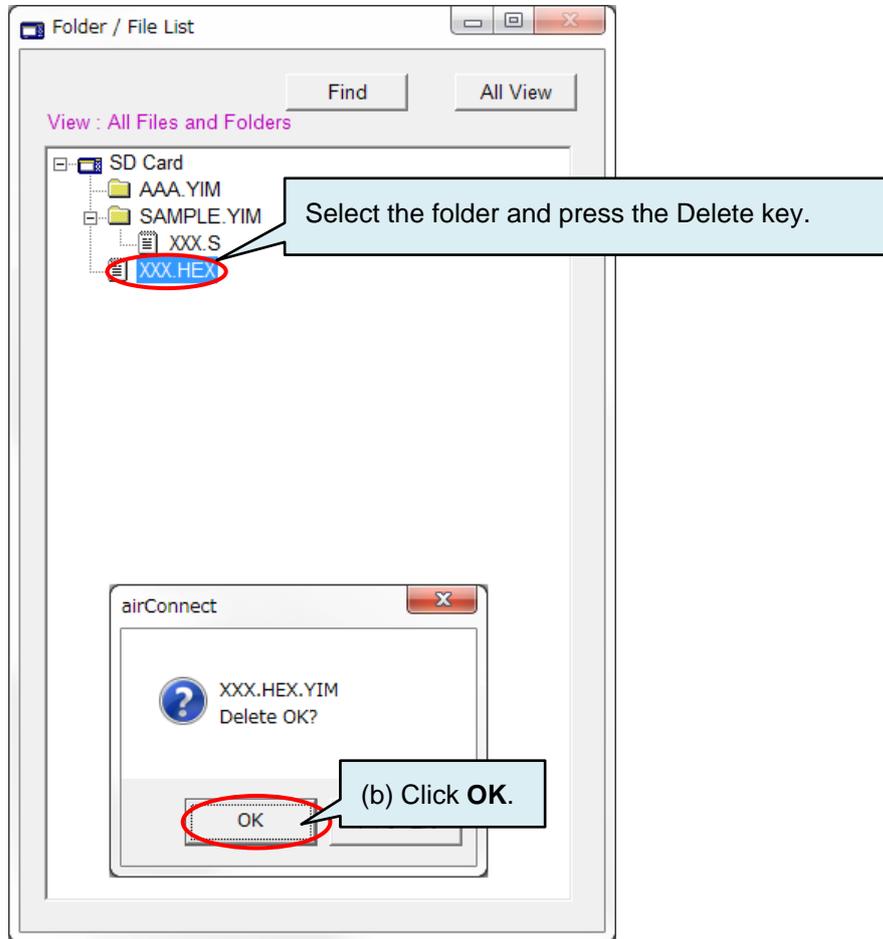
Confirmation window is shown. Click the **OK** button. *If you want to cancel deleting a file, click the Cancel button.*



[2]

On the Folder / File list window, select a file in the current folder or in the root of the SD card, and then click **Delete** key on the keyboard.

Confirmation window is shown. Click the **OK** button. *If you want to cancel deleting a file, click the Cancel button.*



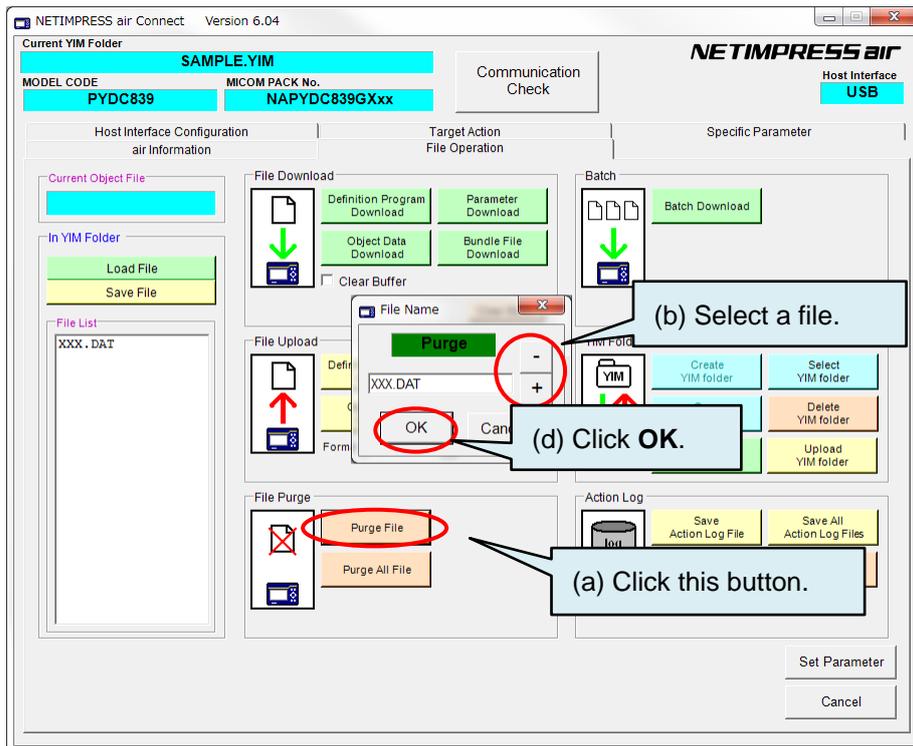
[3]

On the folder/file list window, select an item from the followings: SD Card, file in the root of the SD card, current folder, and file in the current folder. Click **Purge File** button in the **File Purge** group on the **File Operation** tab.

Window for selecting the deleting file is shown. Select a file you want to delete using the “+” button and “-” button on the window, and then click the **OK** button. *If you want to cancel deleting a file, click the Cancel button.*

On the Folder / File list window, if you select the **SD Card** or the file in the root of the SD card, all files in the root of SD card can be deleted.

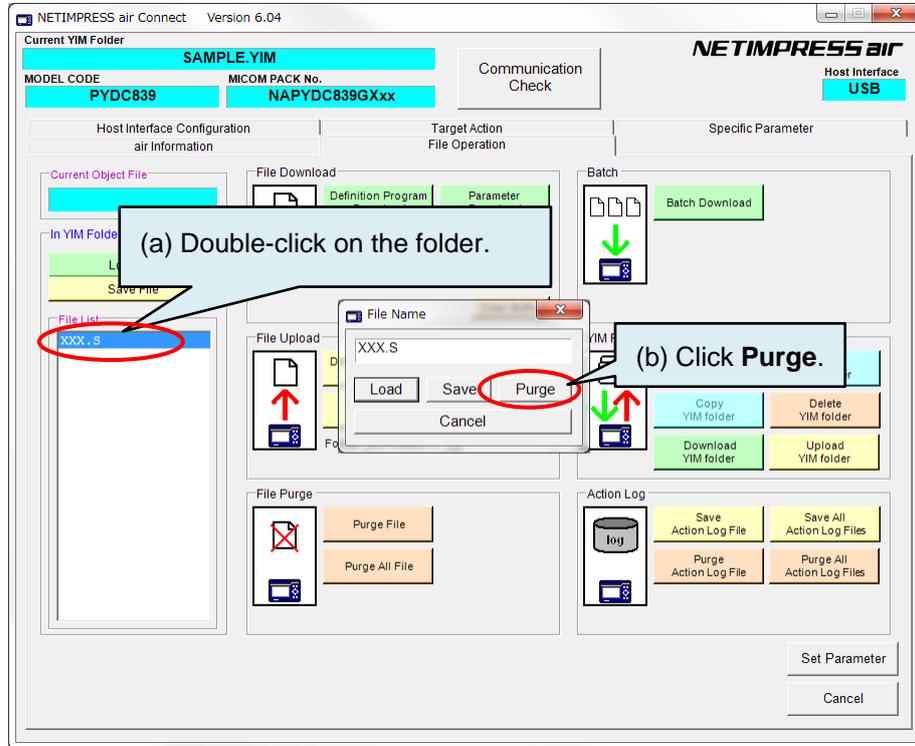
On the Folder / File list window, if you select the current folder or the file in current folder, the file in current folder can be deleted.



[4]

Select a file you want to delete from the **File List** in the **In YIM Folder** group on the **File Operation** tab, and then double-click it.

Confirmation window will be shown. Click the **Purge** button. *If you want to cancel deleting a file, click the **Cancel** button.*



This method is available for only the file in the current folder.

6.2.20. All files deletion

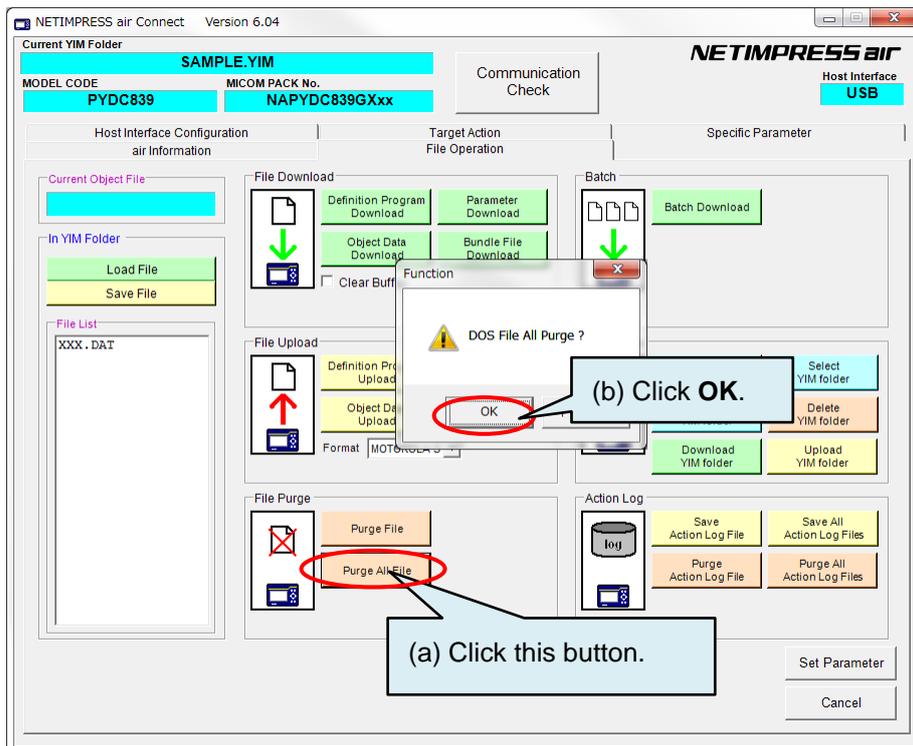
Delete all files in the root of the SD card or in the current folder.

On the Folder/File list window, select the **SD Card**, the file in root of the SD card, the current folder, or the file in the current folder. Click **Purge All File** button in the **File Purge** group on the **File Operation** tab.

Confirmation window is shown. Click the **OK** button. If you want to cancel all files deletion, click the **Cancel** button.

On the Folder / File list window, if you select the **SD Card** or the file in root of the SD card, and all files in the root of the SD card can be deleted.

Also on the Folder / File list window, if you select the current folder or the file in the current folder, all files in the current folder can be deleted.



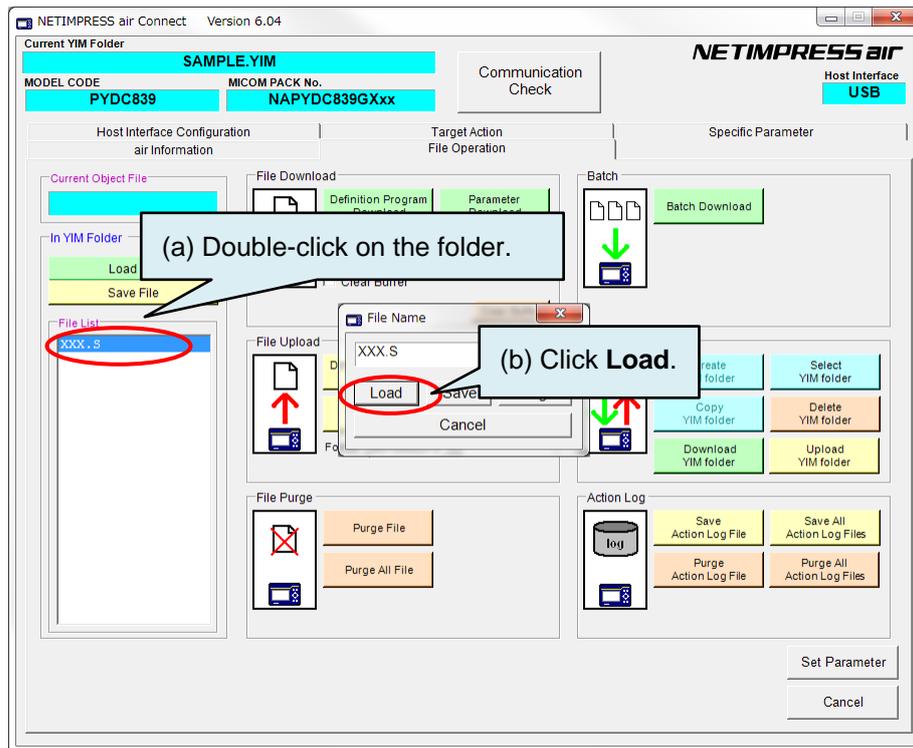
6.2.21. Loading file to the buffer memory

Load a file in the current folder to the buffer memory.

There are two ways to load a file.

[1]

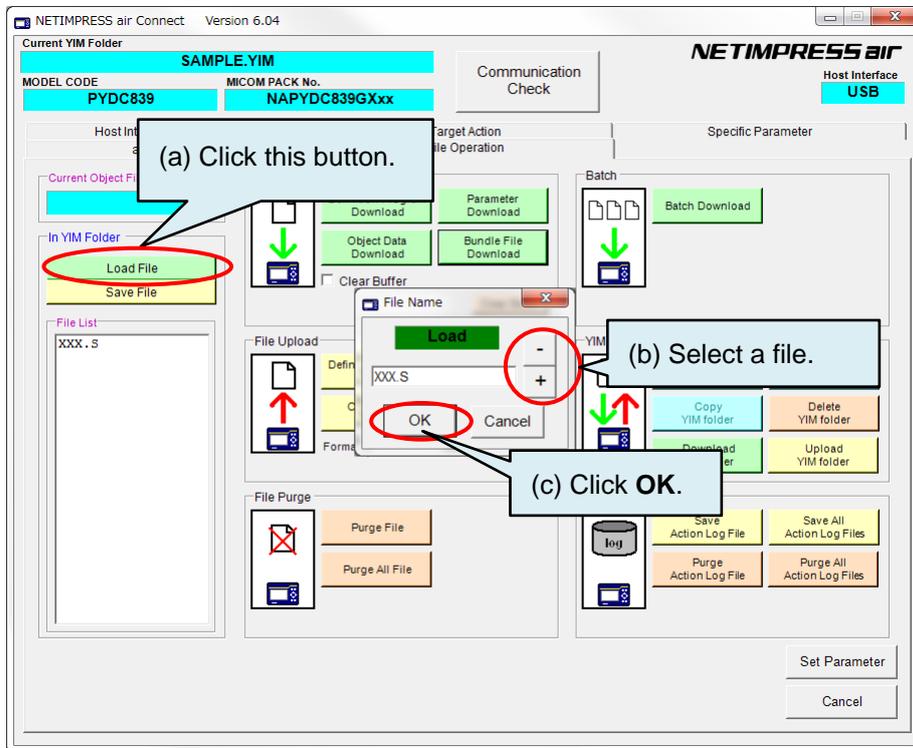
Select a file from the **File List** in the **In YIM Folder** group on the **File Operation** tab, and then double-click it. Confirmation window will be shown. Click the **Load** button. If you want to cancel loading a file, click the **Cancel** button.



[2]

Click the **Load Folder** button which you can find in the **In YIM Folder** group on the **File Operation** tab.

File selection window is shown. Select a file you want to load using the “+” button and “-” button on the window and then click the **OK** button. Click the **Cancel** button if you want to cancel loading a file.



6.2.22. Saving Buffer memory

Save the information in the buffer memory as a file into the current folder.

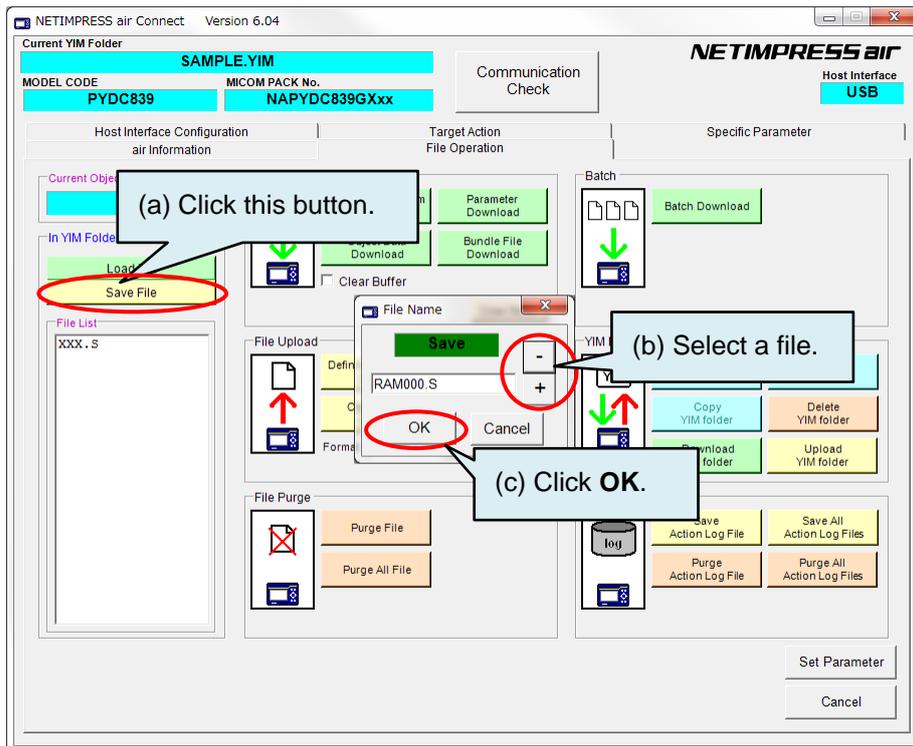
There are two ways to save information as a file.

[1]

Click the **Save File** button which you can find in the **In YIM Folder** group on the **File Operation** tab.

File selection window is shown. Select a file you want to save using the “+” button and “-” button on the window and then click the **OK** button. Click the **Cancel** button if you want to cancel saving a file.

The following file names are available to the file name. • The name of the file existed in the current folder. • RAMxxx.yyy (xxx→consecutive number starting from 000 • yyy→S / HEX/ BIN)

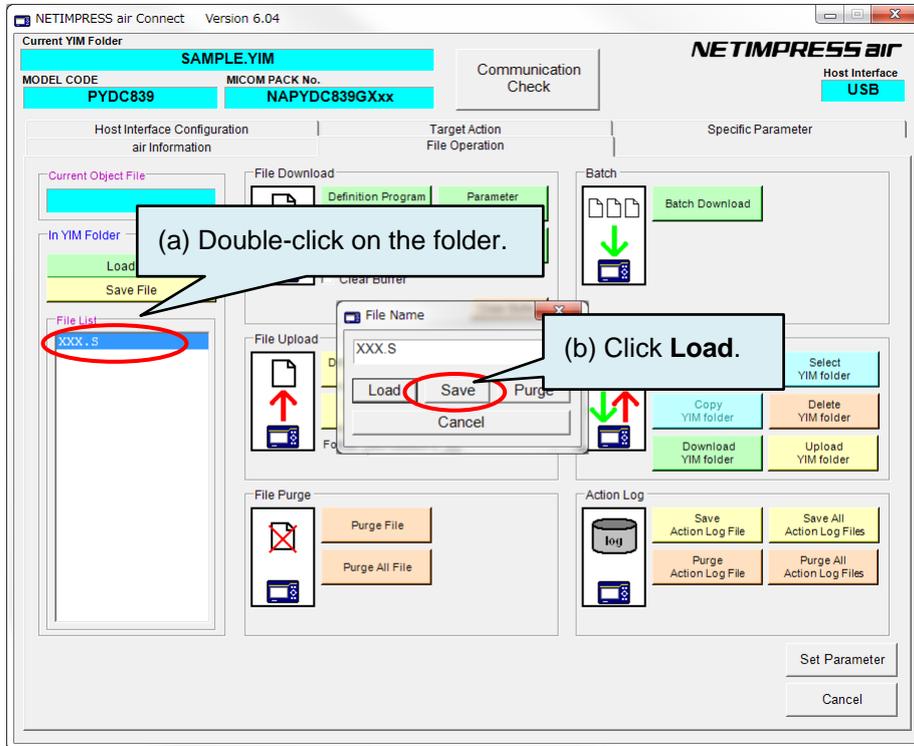


[2]

Double-click a file shown in **File List** in the **In YIM Folder** group on the **File Operation** tab.

Confirmation window will be shown. Click the **Save** button. Click the **Cancel** button if you want to cancel saving a file.

The file name double clicked will be saved.

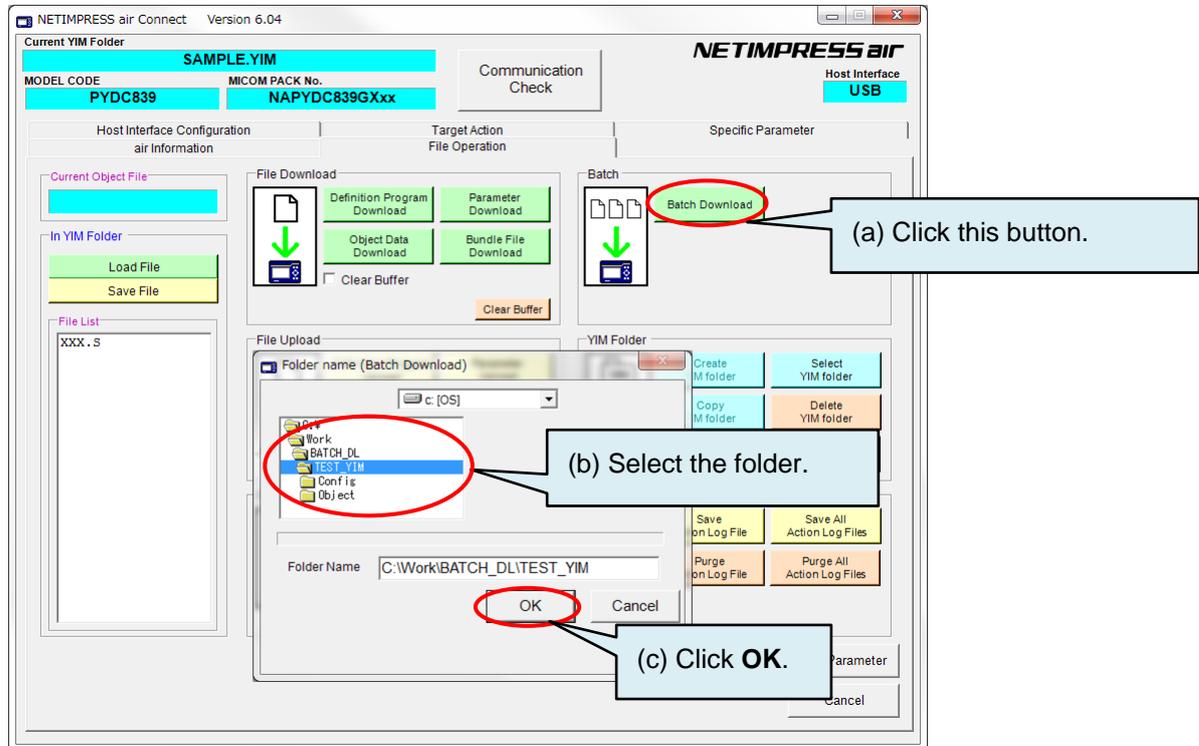


6.2.23. Batch Download

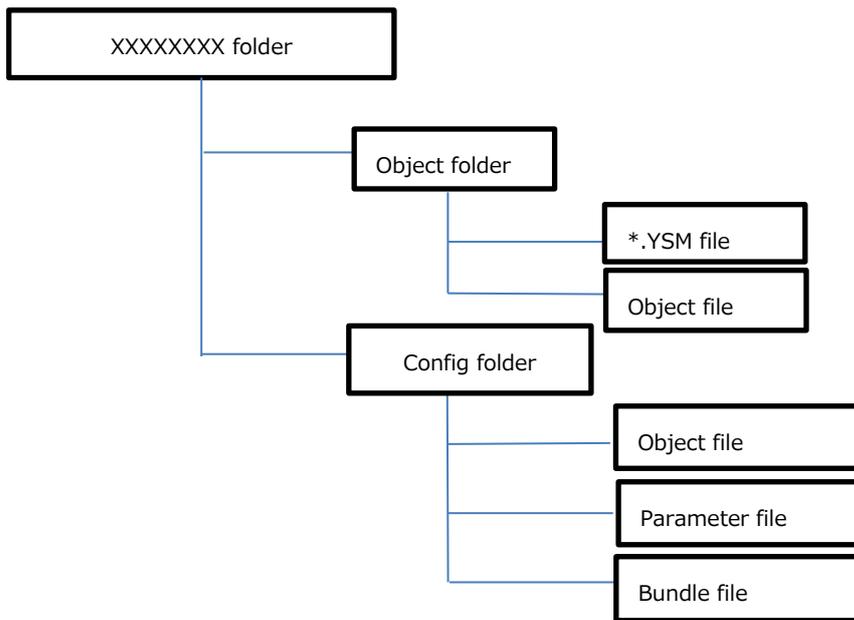
You can download the definition program file, parameter file, object file and bundle file, which are stored in the host PC based on the certain rule, at once.

Click the **Batch Download** button which you can find in the **Batch** group on the **File Operation** tab.

File selection window is shown. Select a file you want to execute batch-download, and then click the **OK** button. Click the **Cancel** button if you want to cancel executing batch-download.



The folder/file has to be placed following configuration in the folder executed Batch Download. (Example: XXXXXXXXX folder)

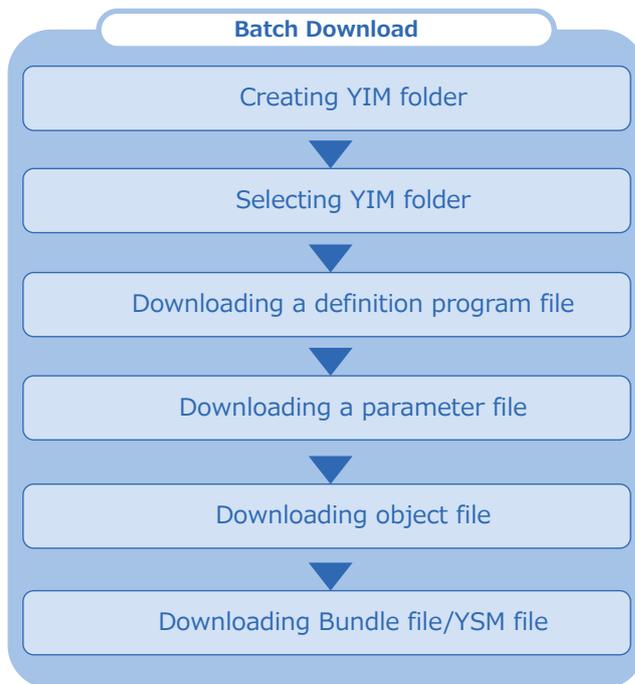


When Batch Download, YIM folder is created and a file is downloaded by following steps below.

The name of YIM folder, created when Batch Download is executed, will be the name of the folder executed Batch Download with extension **.YIM**.

When the name of YIM folder is already existed in the SD card, the confirmation message will be shown if the YIM folder with the same name to the new folder can be deleted.

If there are more than one object files in the object folder, the object file downloading is executed in ascending order by name of the object file.



Conditions for placing the folder/file are listed below.

- Settable character for the folder/file name is the character which can be used for NETIMPRESS air.
- Any YSM files can be placed to the Object folder.
- Any object files can be placed in the Object folder.
- Only one definition program file (extension: CM) can exist in Config folder.
- Only one parameter file (extension: PRM) can exist in Config folder.
- Any bundle files can be placed in the Configt folder.

Batch download cannot be executed in the case below.

- The character used for the folder/file name is not supported.
- No Config folder/Object folder is placed.
- No definition program file/more than one definition program files are placed in Config folder.
- No parameter file/more than one parameter files are placed in the Config folder.

6.2.24. Executing the target action

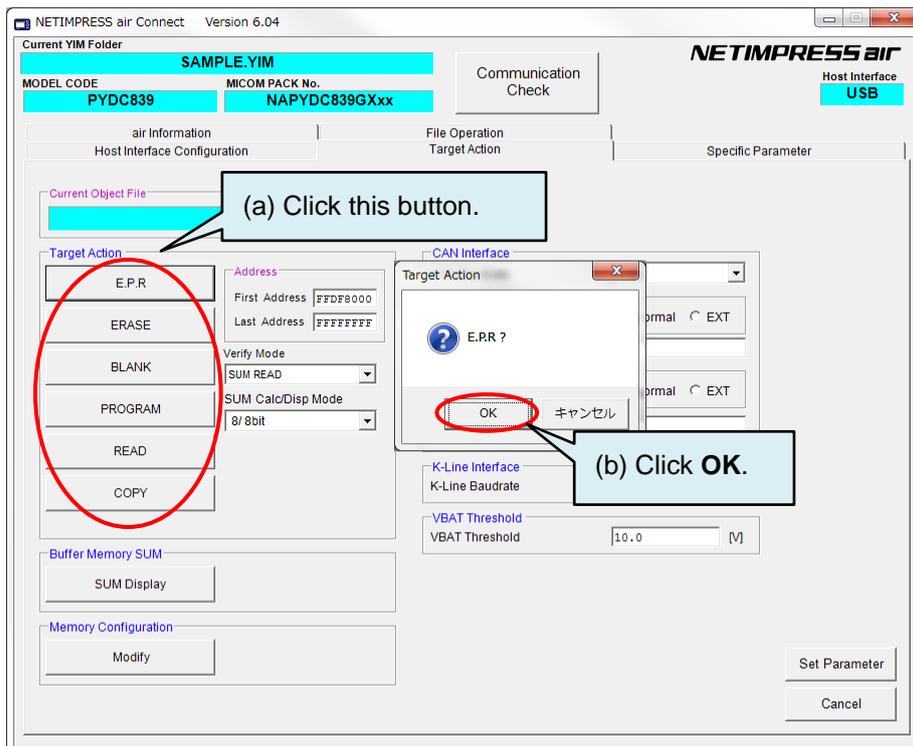
Execute the target action.

Select and click the button you want to execute in the **Target Action** group on the **Target Action** tab.

There are 6 modes of Target Action: **E.P.R**, **BLANB**, **PROGRAM**, **READ**, and **COPY**. Each Target action has each button to execute them: **E.P.R**, **BLANB**, **PROGRAM**, **READ**, and **COPY** button.

The confirmation window is shown when you click any buttons, and then click **OK** button. Click the **Cancel** button if you want to cancel executing the target action.

The operation of each Target action differs depending on the definition program. When the name of the Target Action is not matched with actual action, see a manual of each definition program.

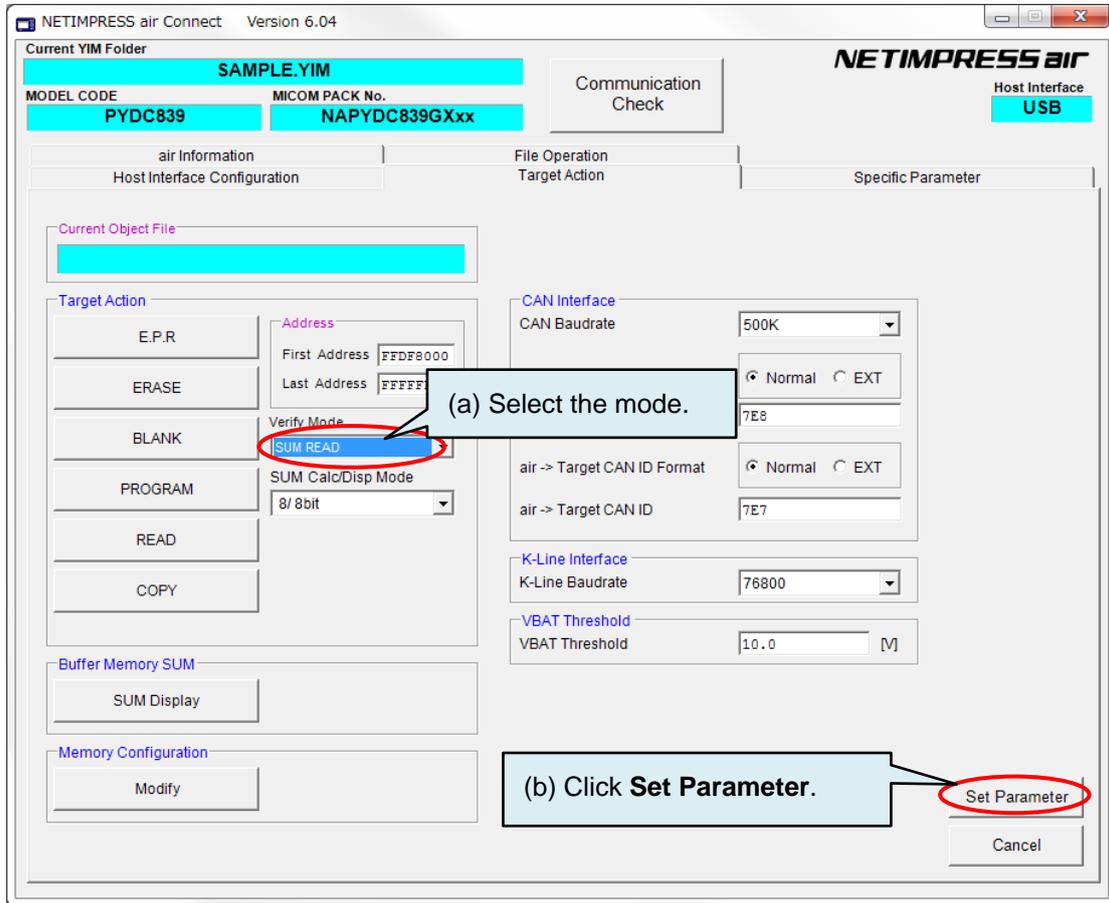


6.2.25. Verify Mode settings

Set the Verify Mode when executing the Target Action.

Change the **Verify Mode** in the **Target Action** on the **Target Action** tab.

Select the mode you want to change in **Verify Mode**, click the **Set Parameter** button at the right bottom on the **Target Action** tab. The setting is not referred if you click **Cancel** button.



You can select following modes for **Verify Mode**.

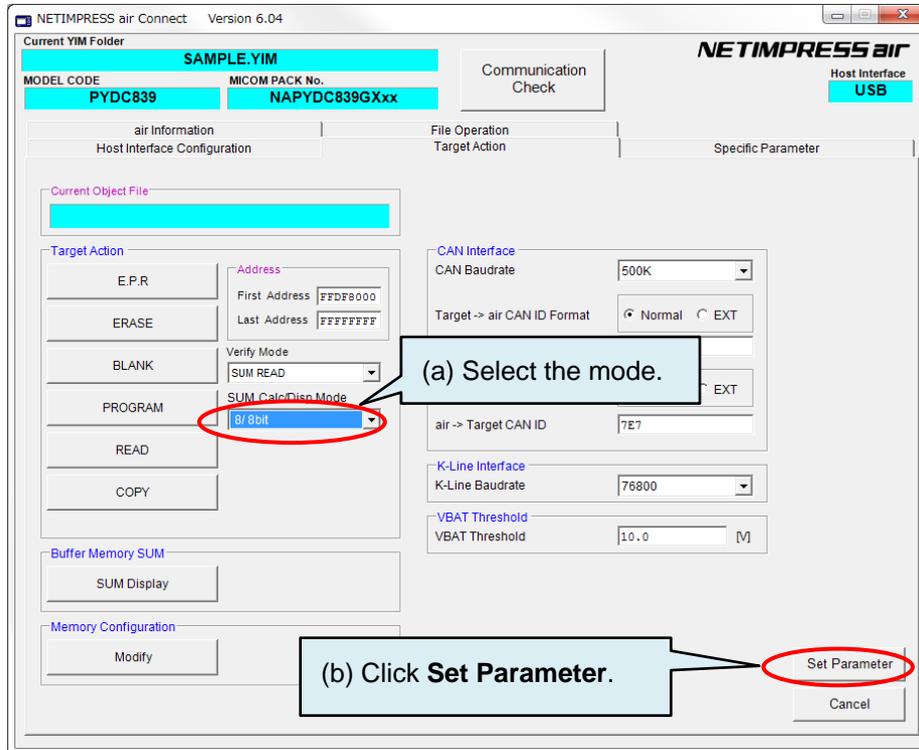
Mode	Meaning
FULL READ	After execution of programming by Target Action, compare all the programmed data to buffer memory data.
SUM READ	After execution of programming by Target Action, compare the SUM value of programmed data to buffer memory data.

6.2.26. Sum Calc/Disp mode settings

Set how to calculate SUM value after execution of the target action.

Change the **SUM Calc/Disp Mode** in the **Target Action** on the **Target Action** tab.

Select the mode you want to change in **SUM Calc/Disp Mode**, click the **Set Parameter** button at the right bottom on the **Target Action** tab. The setting is not referred if you click **Cancel** button.



You can select following modes for **SUM Calc/Disp Mode**.

Mode	Meaning
8/8bit	Calculate with 8bit addition/Display in 8bit for the Sum value when the target action and the Sum calculation of the buffer memory.
16/16bit	Calculate with 16bit addition/Display in 16bit for the Sum value when the target action and the Sum calculation of the buffer memory.
8/16Bit	Calculate with 8bit addition/Display in 16bit for the Sum value when the target action and the Sum calculation of the buffer memory.



When executing SUM calculation, overflow is ignored.

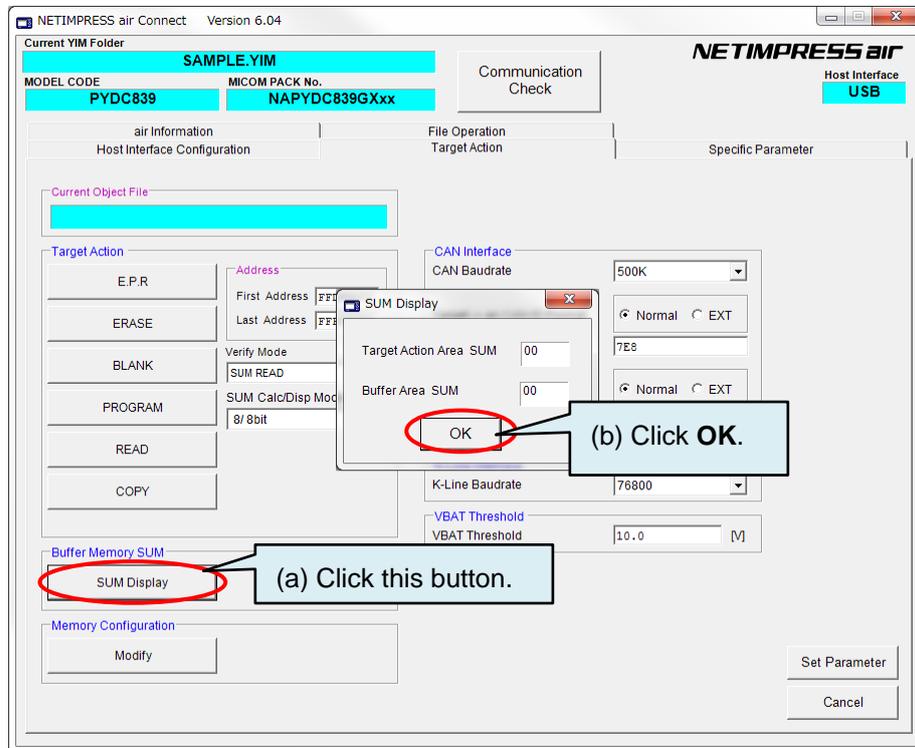
6.2.27. Display SUM value of the buffer memory

Calculate SUM value of the buffer memory and display it.

Click **SUM Display** in the **Buffer Memory SUM** group on the **Target Action** tab.

Sum value of the buffer memory is shown in the dialog box.

After checking sum value, click the **OK** button on the window of Sum value of the buffer memory.



The table below explains items and meanings on the window for the Sum value of the buffer memory.

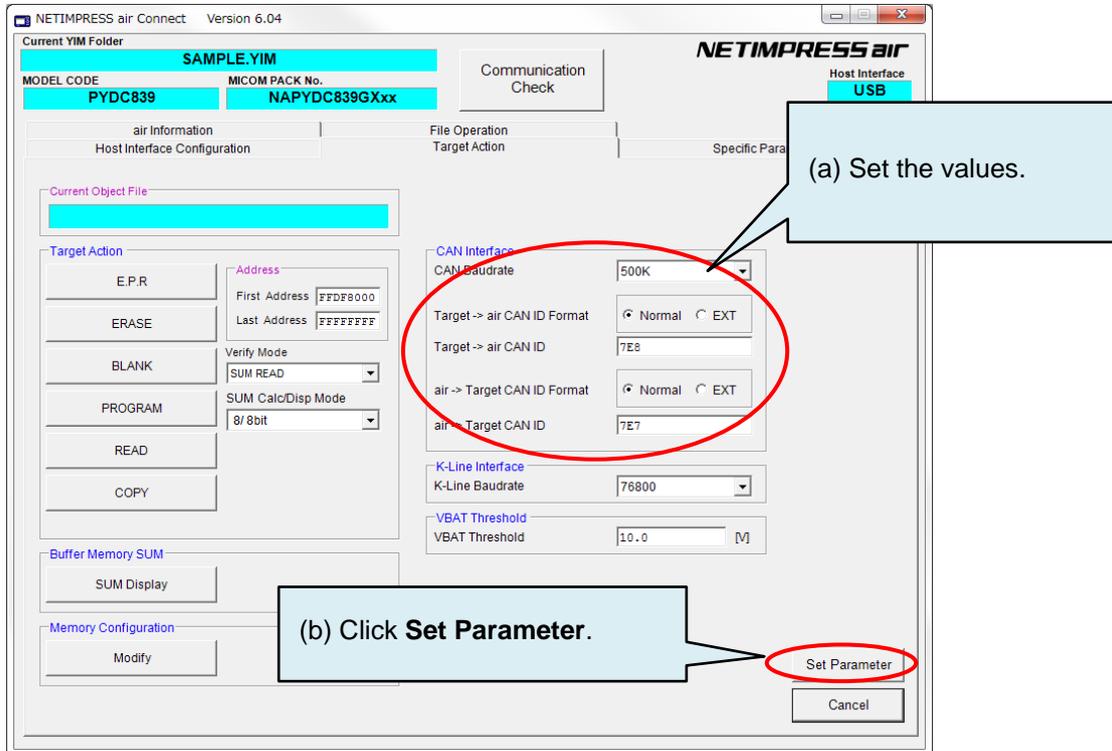
Item	Meaning
Target Action Area SUM	Display the result of SUM calculation for the area of executing target action in the buffer memory.
Buffer Area SUM	Display the result of SUM calculation for all area of buffer memory.

6.2.28. CAN communication settings

Make CAN communication settings when the target action is executed.

Change the item in the **CAN Interface** group on the **Target Action** tab.

After changing the setting, click the **Set Parameter** button at the right bottom of the **Target Action** tab. The setting is not referred if you click **Cancel** button.



The table below explains items and their meanings.

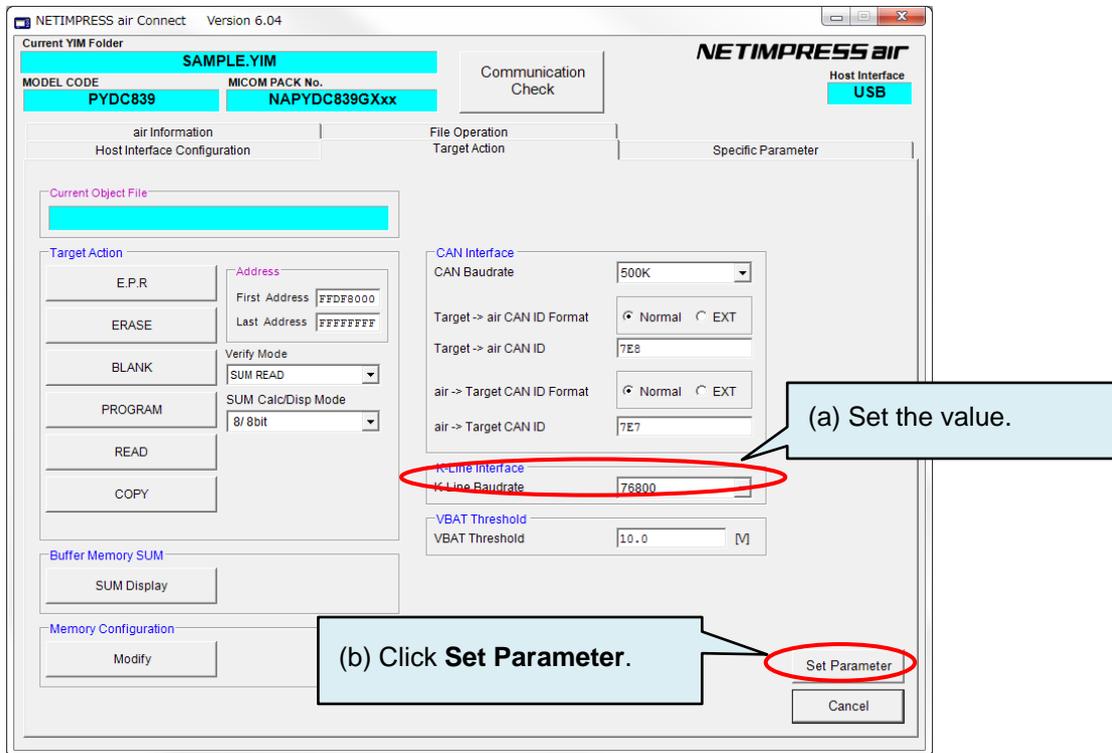
Item	Meaning	Settable range
CAN Baudrate	CAN Baudrate when the target action is executed.	1M / 500K / 250K / 125K[bps]
Target -> air CAN ID Format	CAN ID format of target system when the target action is executed	Normal (default format) / EXT (extension format)
Target -> air CAN ID	CAN ID of target system when the target action is executed	CAN ID range according to the setting of CAN ID format.
air-> Target CAN ID Format	CAN ID format of programmer when the target action is executed	Normal (default format) / EXT (extension format)
air -> Target CAN ID	CAN ID of programmer when the target action is executed	CAN ID range according to the setting of CAN ID format.

6.2.29. K-Line communication settings

Make K-Line communication settings when the target action is executed.

Change the item in the **K-Line Interface** group on the **Target Action** tab.

After changing the item settings, click the **Set Parameter** button at the right bottom of the **Target Action** tab. The setting is not referred if you click **Cancel** button.



The table below explains items and their meanings.

Item	Meaning	Settable range
K-Line Baudrate	K-Line Baudrate when target action is executed.	125000 / 76800 / 57600 / 38400 / 19200 / 10400 / 9600[bps]

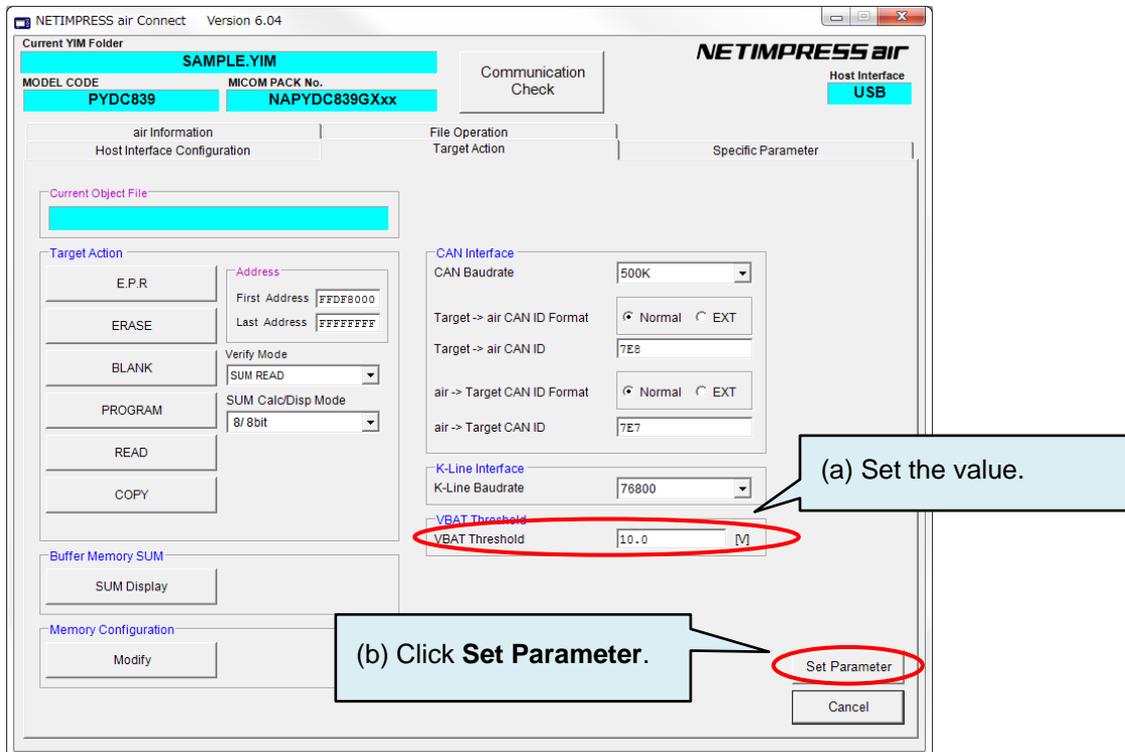
6.2.30. VBAT threshold settings

Make VBAT threshold settings when the target action is executed.

Change the item in the **VBAT Threshold** group on the **Target Action** tab.

After changing the item settings, click the **Set Parameter** button at the right bottom of the **Target Action** tab.

The setting is not referred if you click **Cancel** button.



The table below explains items and their meanings.

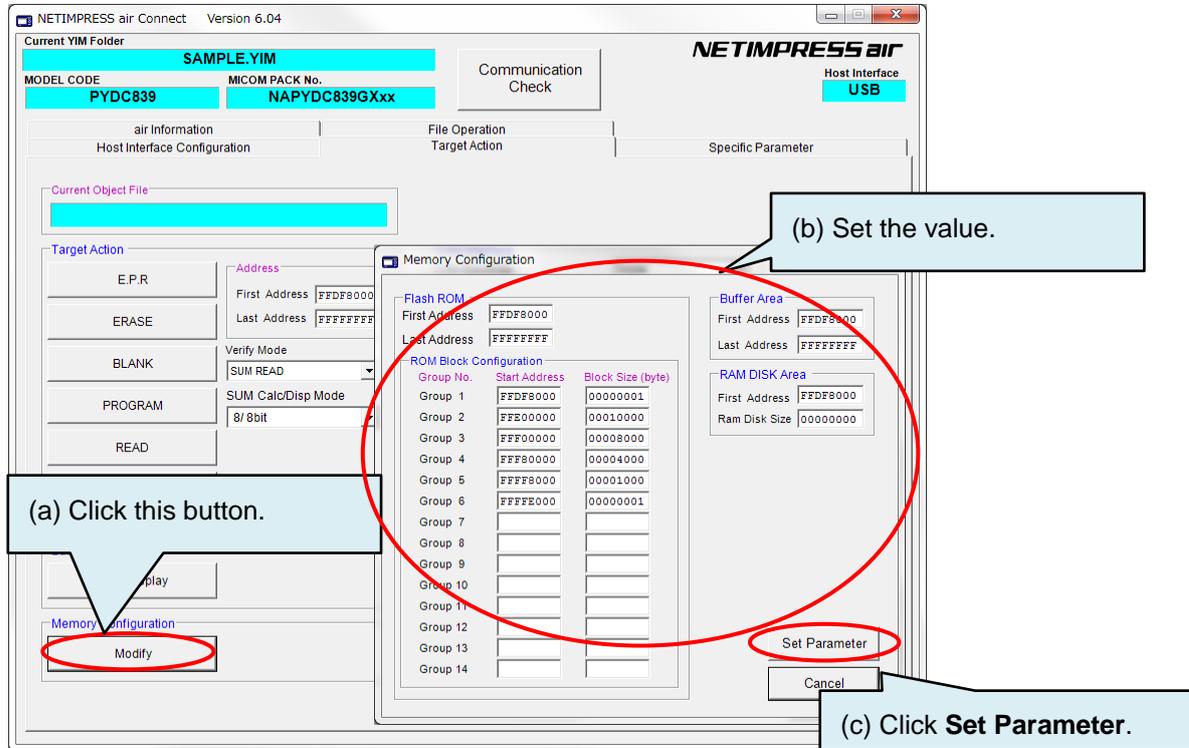
Item	Meaning	Settable range
VBAT Threshold	VBAT threshold voltage when target action is executed.	8.0 ~ 20.0[V]

6.2.31. Flash memory/buffer memory settings

Set up the Flash memory and Buffer memory address of the programming target device.

Click **Modify** button in the **Memory Configuration** on the **Target Action** tab.

Memory setting window is shown. Enter the value for each item and click the **Set Parameter** button on the memory setting window. The setting is not referred if you click **Cancel** button.



Items and meanings of memory setting window are explained on the table below.

Group	Item	Meanings
Flash ROM	First Address	Set a start address of the target flash memory for programming.
	Last Address	Set an end address of the target flash memory for programming.
Buffer Area	First Address	Set a start address of buffer memory
	Last Address	Set an end address of buffer memory.
ROM Block Configuration	Start Address	Set a block starting address of flash memory for programming. Set address from Group 1 to Group 14.
	Block Size	Set a block size of the target flash memory for programming. Set size from Group 1 to Group 14.

RAM DISK Area	First Address	Normally, this item is not used. Set a start address of RAM disk.
	RAM Disk Size	Normally, this item is not used. Set a size of RAM disk.



An error occurs in the case below.

- If you set an address of the buffer memory out of the area for flash memory.
- If you set an address of block configuration out of the area for flash memory.

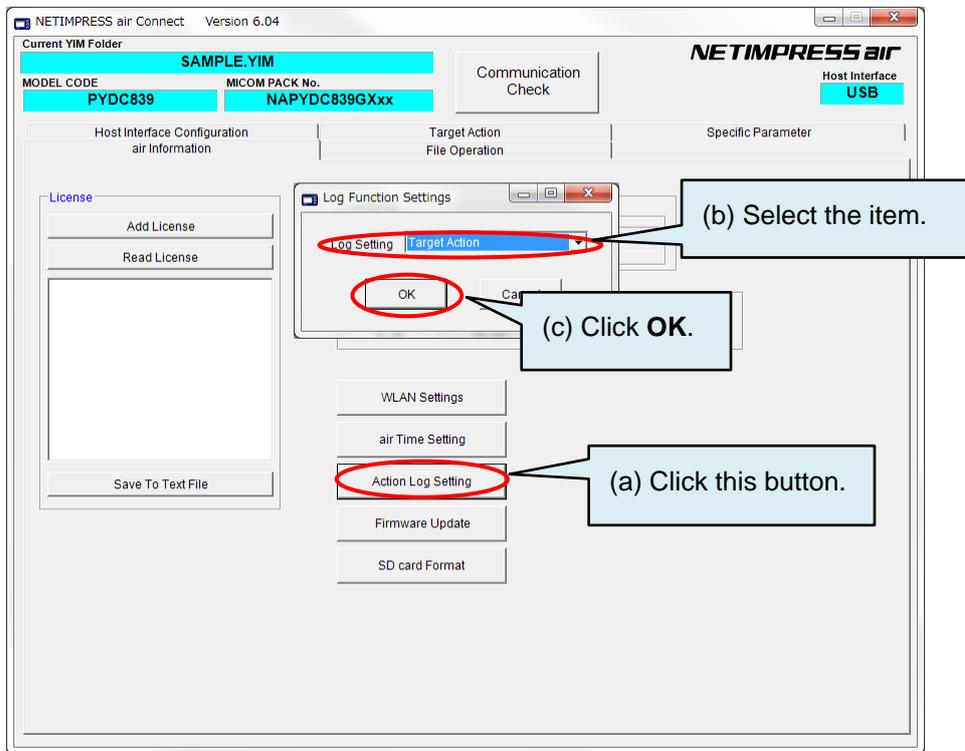
6.2.32. Execution log record settings

NETIMPRESS air has a function to record the target action or executing function into the log file.

Make the execution log record settings.

Click **Action Log Setting** button on the **air Information** tab.

The execution log record setting window is shown. Make a setting and then click **OK** button. Click the **Cancel** button if you want to cancel the settings.



The table below explains items and meanings on the execution log record setting.

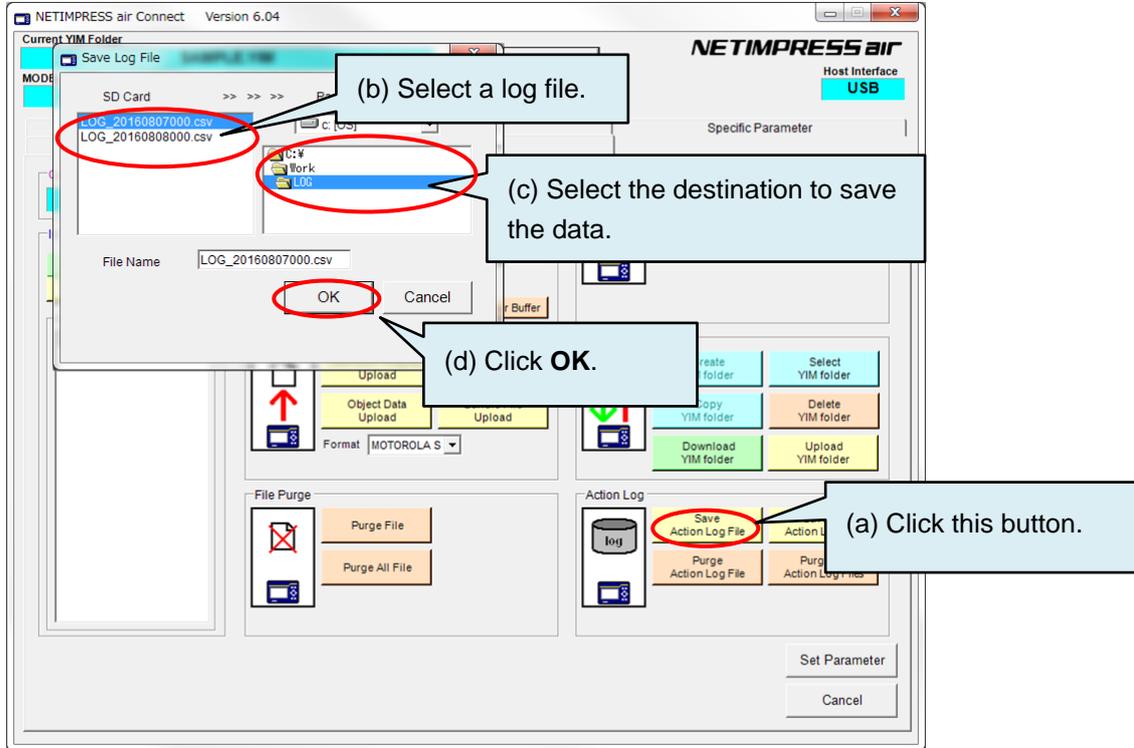
Item	Meaning	Settable range
Log Setting	Set a execution log record.	NONE (not record execution log) / Target Action (record execution log when the target action) / Target Action & Function (record execution log when the target action or function)

6.2.33. Saving execution log file

Save an execution log file in the SD card to host PC.

Click the **Save Action Log File** button which you can find in the **Action Log** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a log file you want to save and destination to save it, and then click the **OK** button. Click the **Cancel** button if you want to cancel the saving a log file.

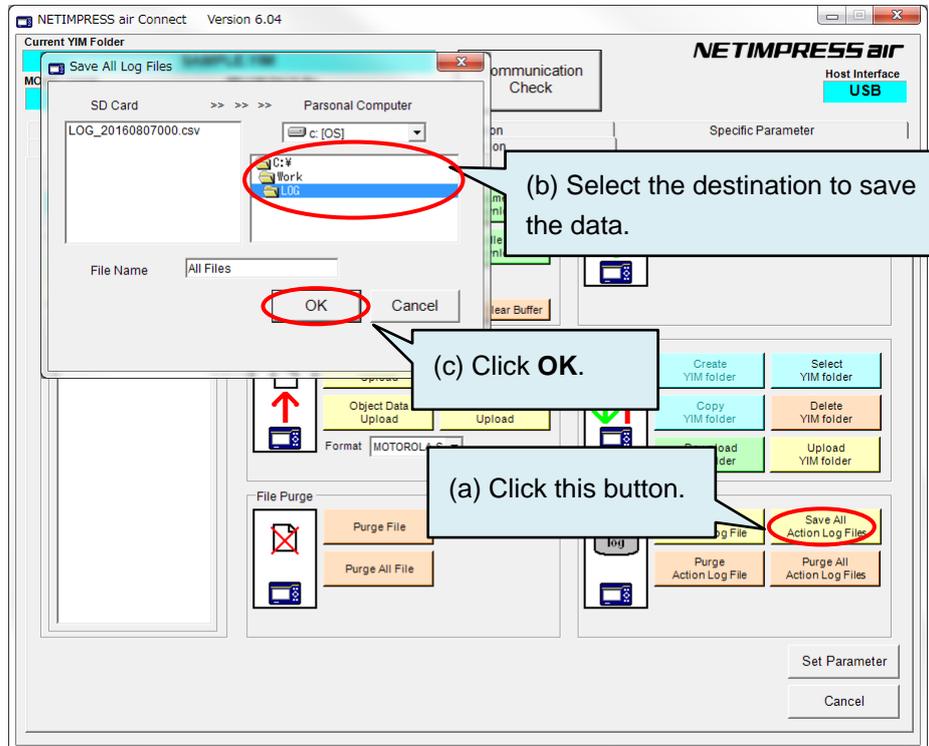


6.2.34. Saving all execution log files

Save all execution log files in the SD card to host PC.

Click the **Save All Action Log Files** button which you can find in the **Action Log** group on the **File Operation** tab.

Window for setting the destination of saving file is shown. Select a destination to save all log files, and then click the **OK** button. Click the **Cancel** button if you want to cancel the saving all log files.



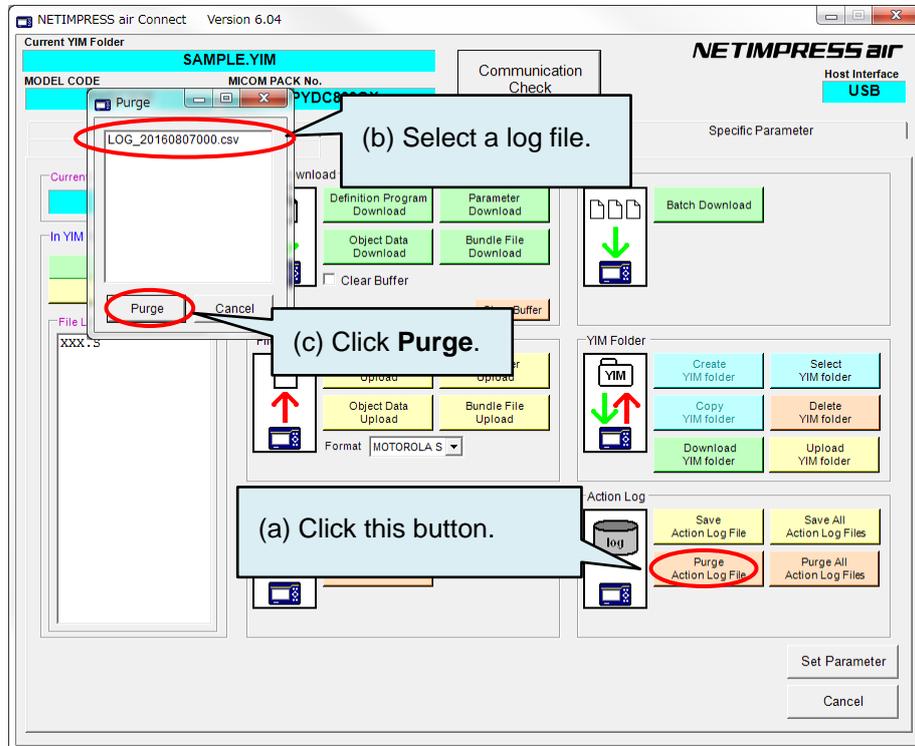
6.2.35. Deleting execution log file

Delete an execution log file in the SD card.

Click the **Purge Action Log File** button which you can find in the **Action Log** group on the **File Operation** tab.

The window of log file deletion is shown. Select a log file you want to delete, and then click the **Purge** button.

Click the **Cancel** button if you want to cancel deleting a log file.

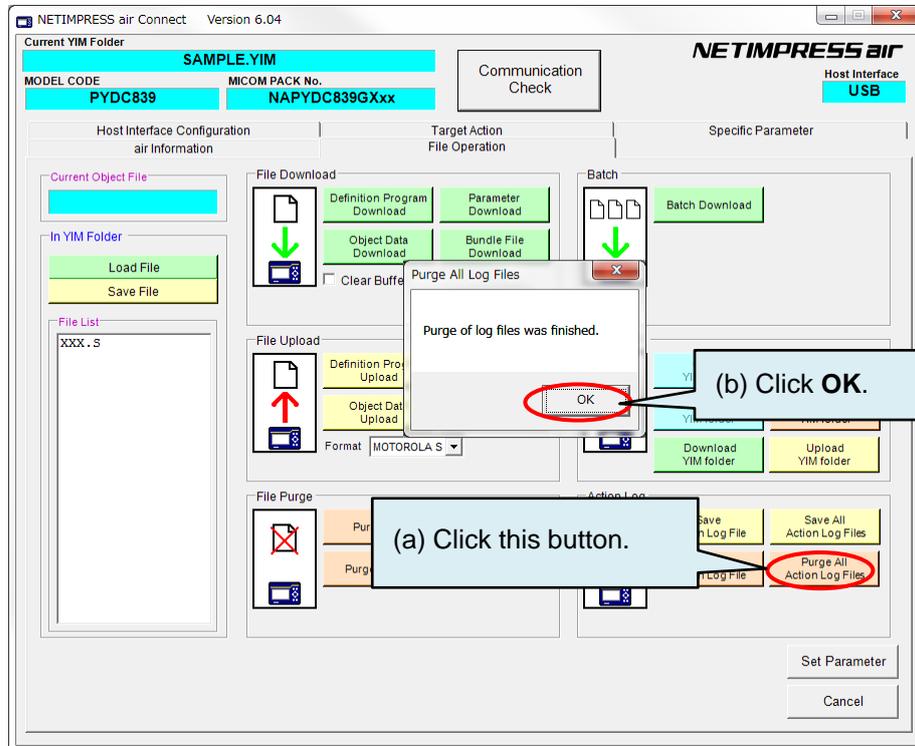


6.2.36. Deleting all execution log files

Delete all execution log files in the SD card.

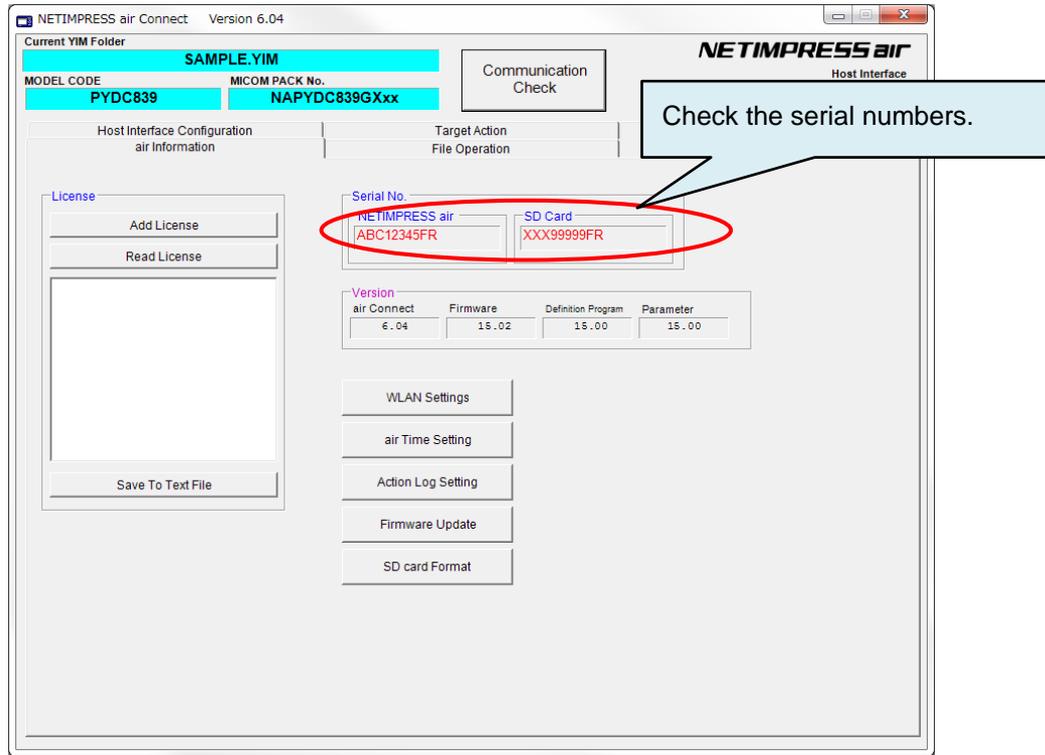
Click the **Purge All Action Log Files** button which you can find in the **Action Log** group on the **File Operation** tab.

After executing all log file deletion, confirmation window will be shown. Click the **OK** button.



6.2.37. View Serial number

The serial number of NETIMPRESS air and the SD card are shown in the **Serial No.** group on the **air Information** tab.

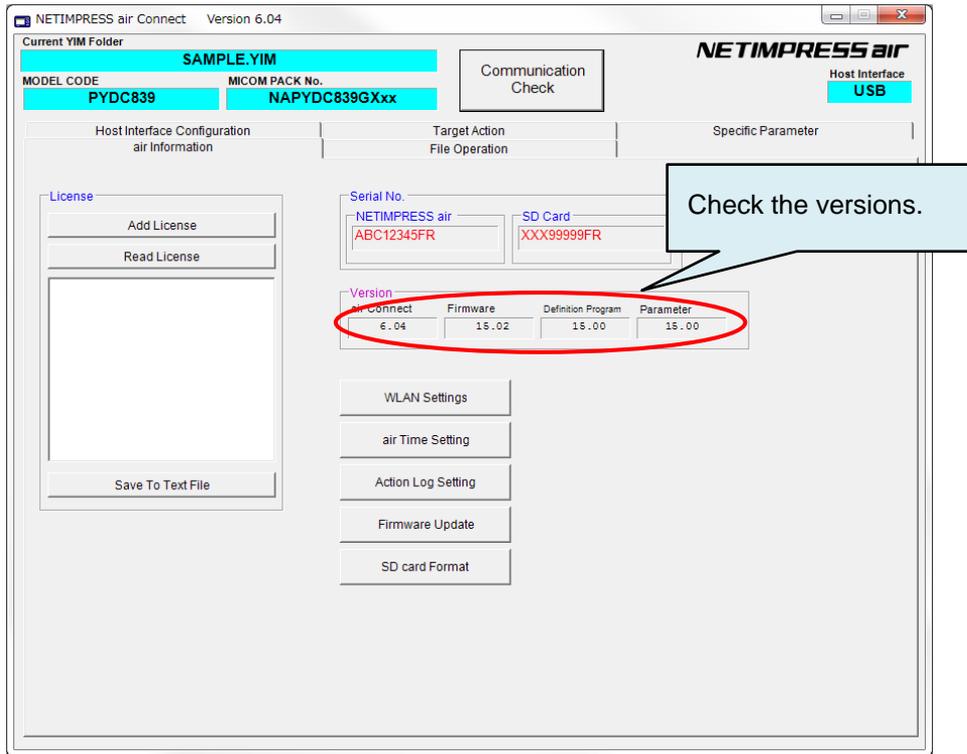


The table below explains items and meanings on **Serial No.** group.

Item	Meaning
NETIMPRESS air	The serial number of NETIMPRESS air is shown here.
SD Card	The serial number of the SD card is shown here.

6.2.38. Version information

Version informations are shown in the **Version** group on the **air Information** tab.



The table below explains items and meanings on **Version** group.

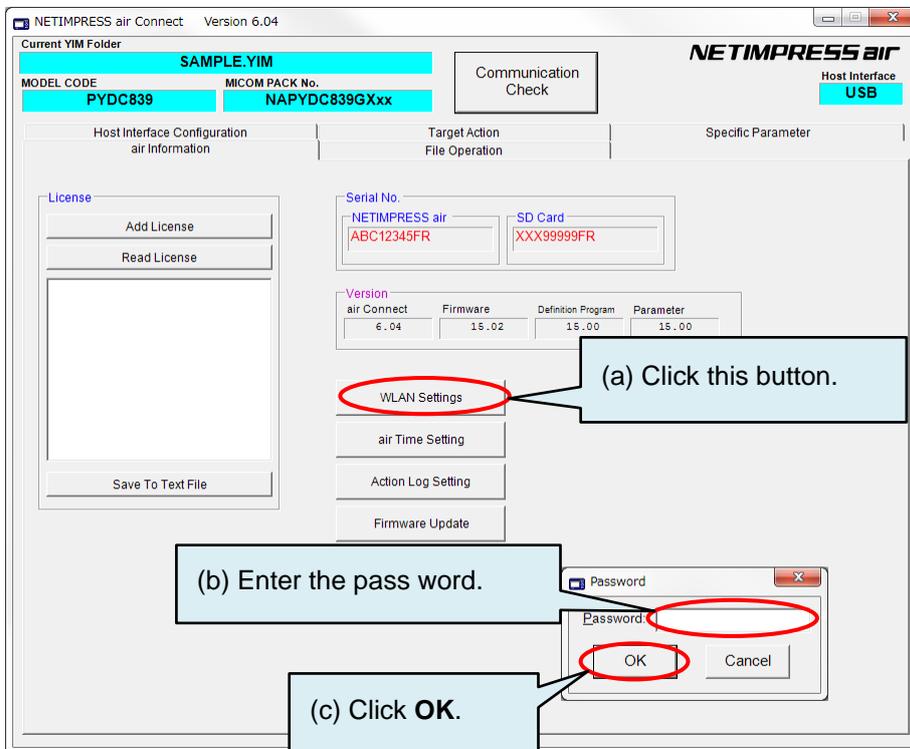
Item	Meaning
air Connect	Display the version information of AZ990 (NETIMPRESS air Connect).
Firmware	Display the version information of firmware for common part of NETIMPRESS air.
Definition Program	Display the version information of the definition program loaded in the current folder.
Parameter	Display the version information of the parameter loaded in the current folder.

6.2.39. Wireless LAN settings

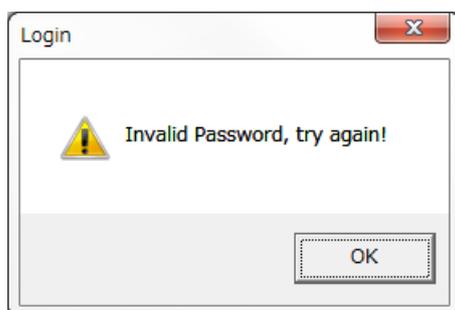
Change the settings of Wireless LAN connection for NETIMPRESS air.

Click **Action Log Setting** button on the **air Information** tab.

Password input window is shown. Enter a password to open the window of Wireless LAN settings, and then click **OK** button. Click the **Cancel** button if you want to cancel entering the password.

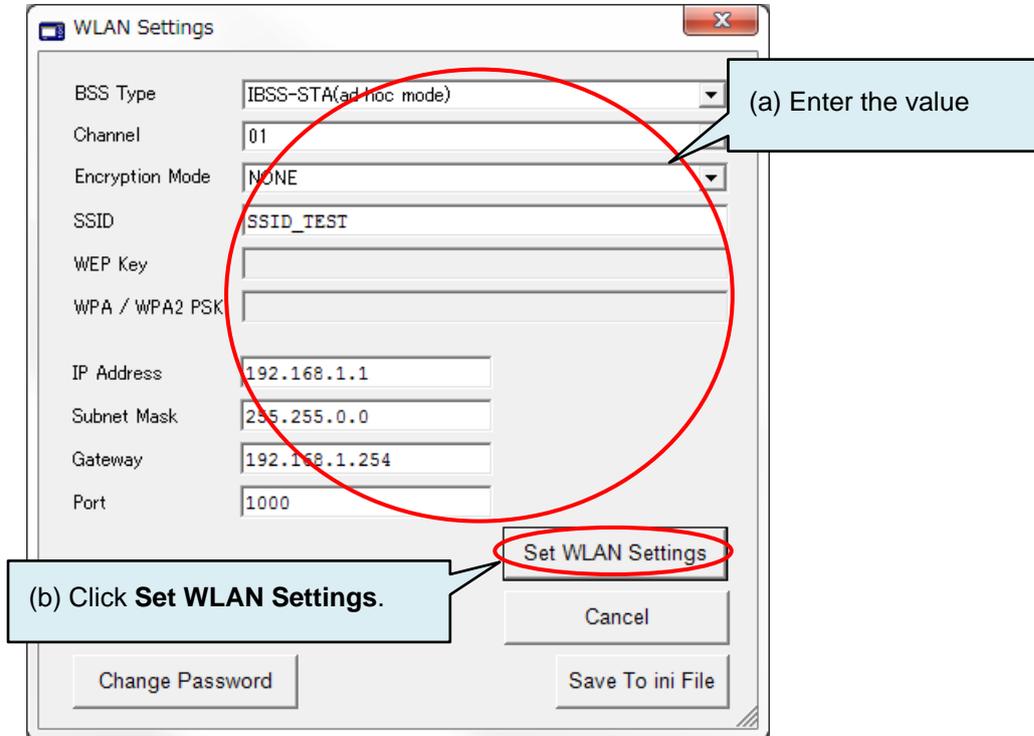


- ✓ The default password is **AF200**. Also, the password can be changed in the method mentioned below.
- ✓ The password which you entered is shown by “*”
- ! **Action Log Setting** button is available in case only when host PC and NETIMPRESS are currently connected by USB.
- ! If the following dialog window is shown, the entered password is not correct. Check if the password is correct, and enter the correct password.



Window for setting Wireless LAN is shown if a correct password is entered.

Set values to each item, and click the **Set WLAN Settings** button on Wireless LAN setting window. If you click **Cancel** button, the window is closed without changing settings.



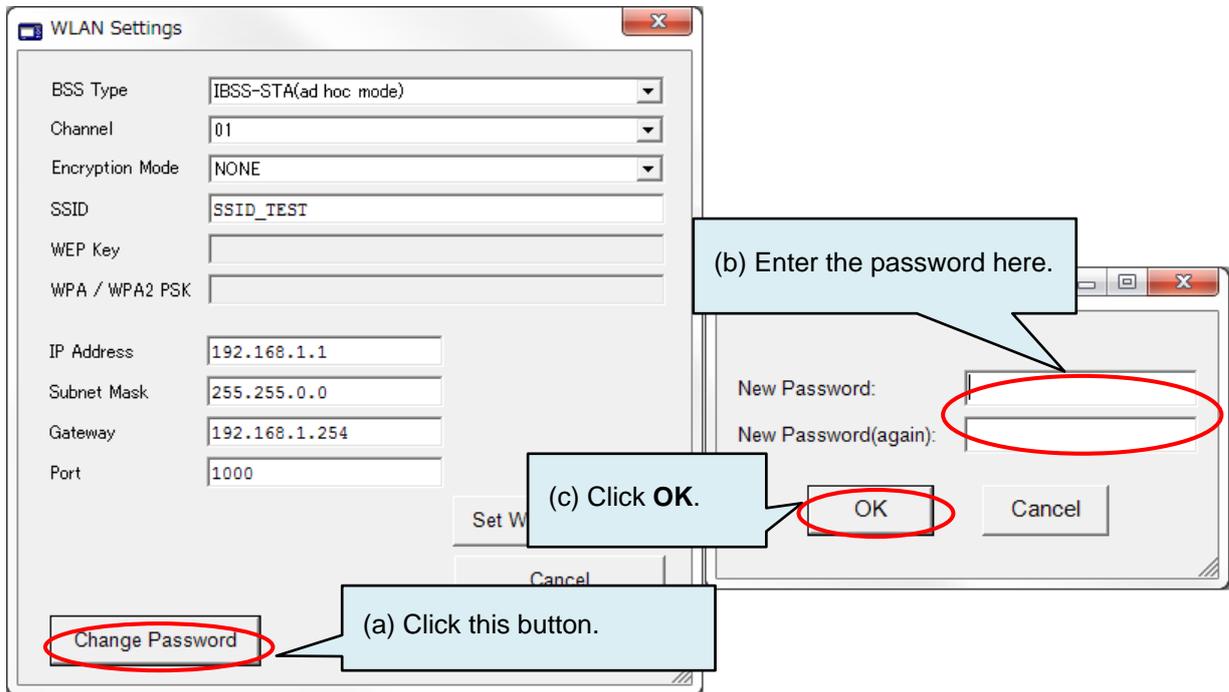
Items and meanings of Wireless LAN setting window are explained on the table below.

Item	Meaning	Settable range
BSS Type	Set the type of Wireless LAN connection for NETIMPRESS air.	BSS-STA(infrastructure mode): Connect NETIMPRESS air and host PC by infrastructure mode. IBSS-STA(ad hoc mode): Connect NETIMPRESS air and host PC by ad hoc mode.
Channel	Set the channel of Wireless LAN communication.	Ch1 to Ch13
Encryption Mode	Set the communication of encryption	NONE:

	mode.	<p>No encryption.</p> <p>WEP-64: Encrypt by WEP64.</p> <p>WEP-128: Encrypt by WEP128.</p> <p>WPA-TKIP: Encrypt by WPA.</p> <p>WPA2-AES: Encrypt by WPA2.</p>
SSID	Set SSID.	<p>When BSS-STA (infrastructure mode) is set to BSS Type, set SSID of an access point you want to connect with.</p> <p>When IBSS-STA (ad hoc mode) is set to BSS Type, Set SSID of NETIMPRESS air.</p>
WEP Key	<p>Set WEP key.</p> <p>This is available when you select WEP-64 / WEP-128 to Encryption mode.</p>	<p>When you set WEP-64 to Encryption Mode, enter 5 alphanumeric characters.</p> <p>When you set WEP-128 to Encryption Mode, enter 13 alphanumeric characters.</p>
WPA / WPA2 PSK	<p>Set a key when using WPA/WPA2.</p> <p>This is available when you select WPA-TKIP / WPA2-AES to Encryption mode.</p>	Enter 8 to 63 alphanumeric characters.
IP Address	Set IP address of NETIMPRESS air.	Set IP address for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Subnet Mask	Set Subnet mask of NETIMPRESS air.	Set Subnet mask for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Gateway	Set Default gateway of NETIMPRESS air.	Set Default gateway for NETIMPRESS air with the format of "xxx.xxx.xxx.xxx".
Port	Set Port number of NETIMPRESS air.	Enter 0000 to FFFF (hexadecimal).

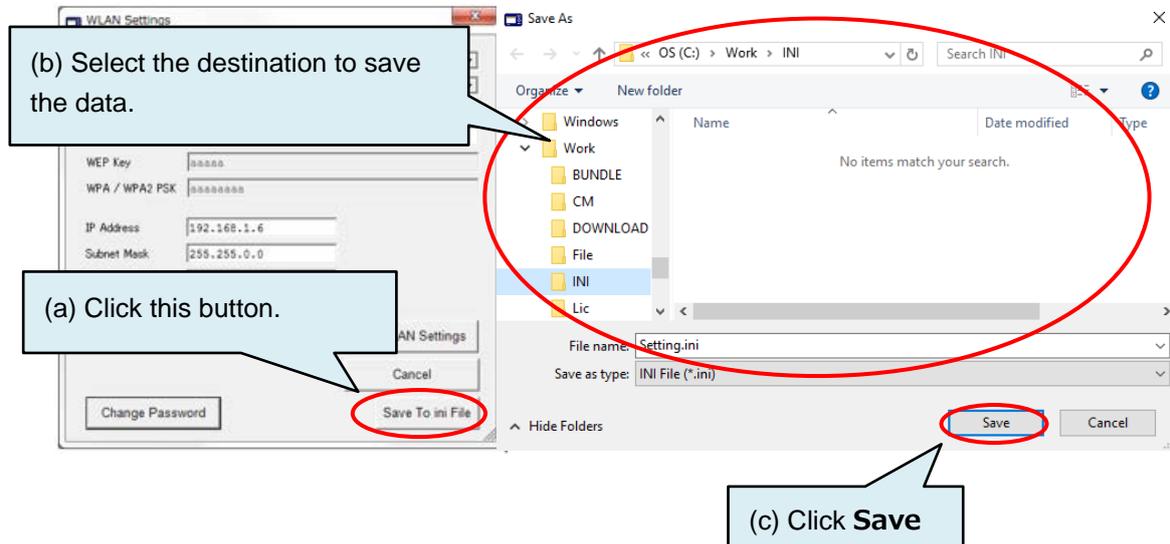
When you want to change the password to open Wireless LAN setting window, click the **Change Password** button on the Wireless LAN setting window.

Enter a new password into text boxes, and then click **OK** button. Click the **Cancel** button to cancel changing the password.



When you want to save the Wireless LAN settings as a file in host PC, click the **Save To ini File** button on the Wireless LAN setting window.

File save dialog box is shown. Select a destination to save the file, and then click the **Save To ini File** button. Click the **Cancel** button if you want to cancel the saving the file.

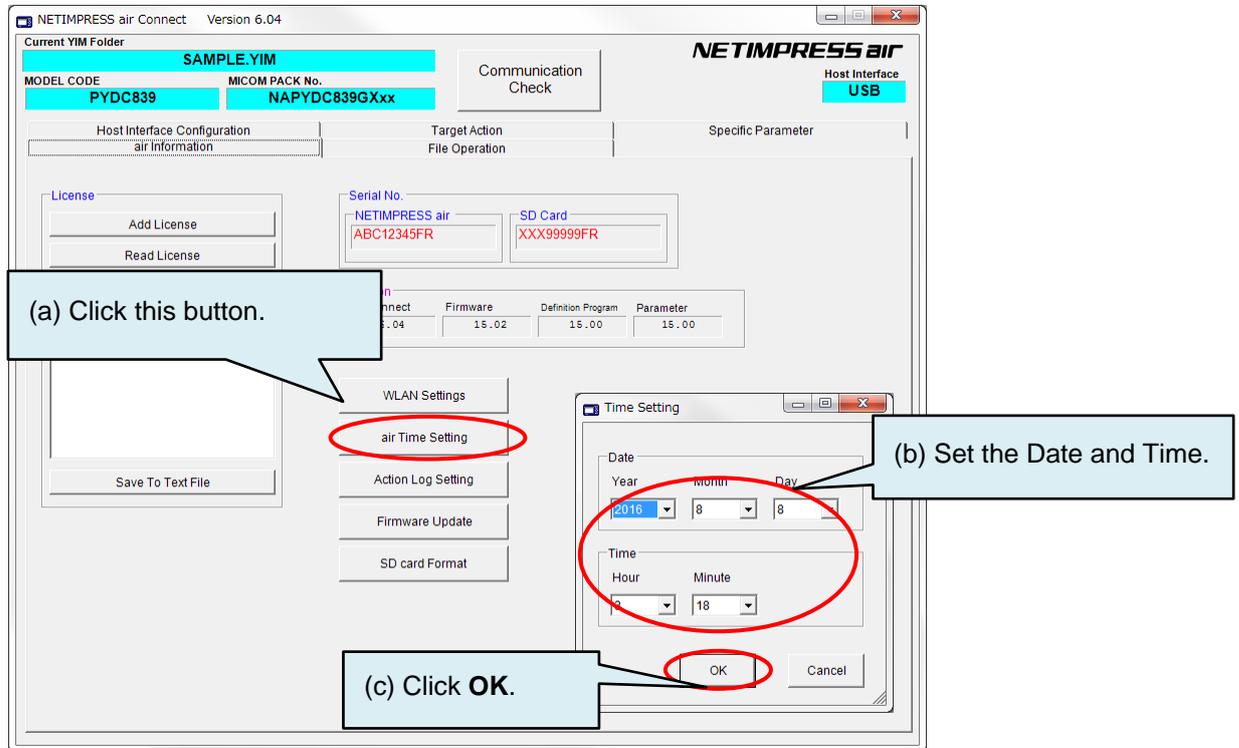


6.2.40. The Date and Time setting

Set the time of NETIMPRESS air.

Click **air Time Setting** button on the **air Information** tab.

Time setting window is shown. Set the time and click the **OK** button. If you want to cancel setting the time, click the **Cancel** button.



The table below explains items and meanings on the Time setting window.

Item	Meaning	Settable range
Year	Set the year.	2000 to 2099 (Year)
Month	Set the month.	1 to 12 (Month)
Day	Set the day.	1 to 31 (Day)
Hour	Set the hour.	0 to 23 (Hour)
Minute	Set the minute.	0 to 59 (Minute)



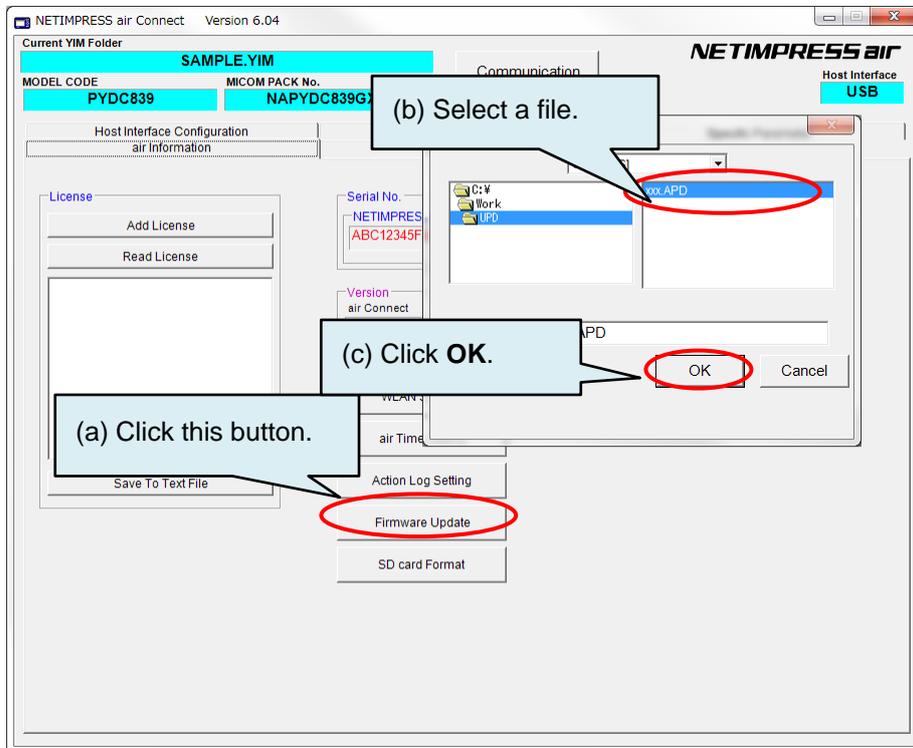
If you set the improbable date and time, it results in an error

6.2.41. Firmware update

Update the firmware of NETIMPRESS air.

Click **Firmware Update** button on the **air Information** tab.

File selection window is shown. Select a file for updating the firmware of NETIMPRESS air, and then click the **OK** button. Click the **Cancel** button if you want to cancel updating the firmware file.



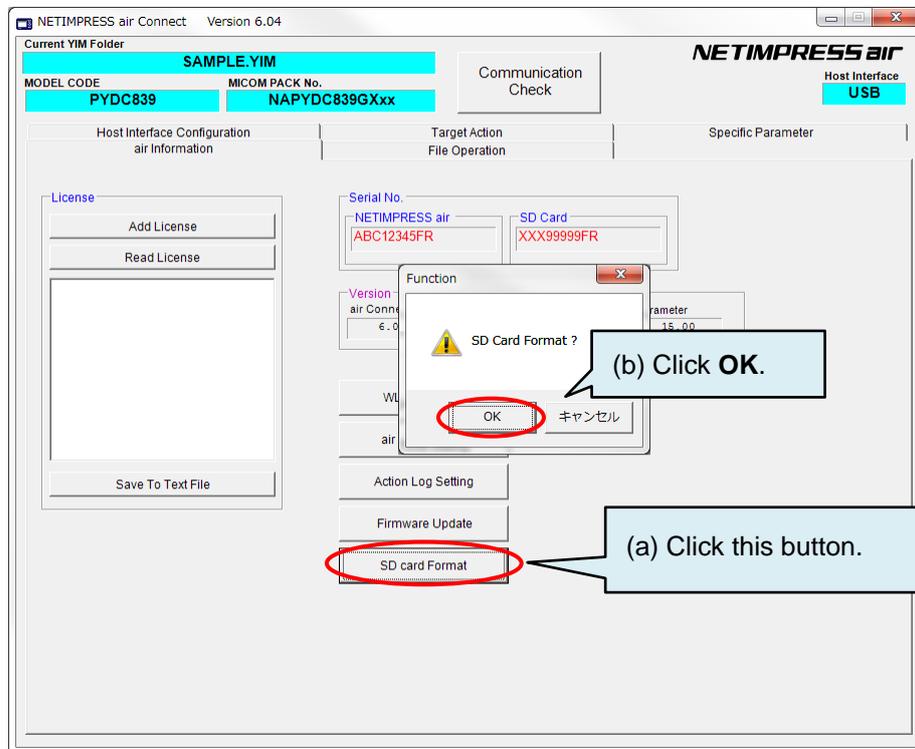
- ✓ File for Firmware update has the extension **.APD** or **.LGF**.
- ✓ It will take 20 to 30 seconds for executing the firmware update.
NETIMPRESS air and AZ990 cannot be operated during the updating firmware.
- ! Do not turn off the power of main unit during the updating firmware.
It will result in malfunction.

6.2.42. Formatting the SD card

Format the SD card in FAT32.

Click **SD Card Format** button on the **air Information** tab.

Confirmation window is shown. Click the **OK** button. If you want to cancel formatting the SD card, click the **Cancel** button.



If you execute formatting, all the folders and files in the SD card are deleted.

However, the registered definition program license is not deleted by formatting. Therefore, you do not need to add the definition program license again.

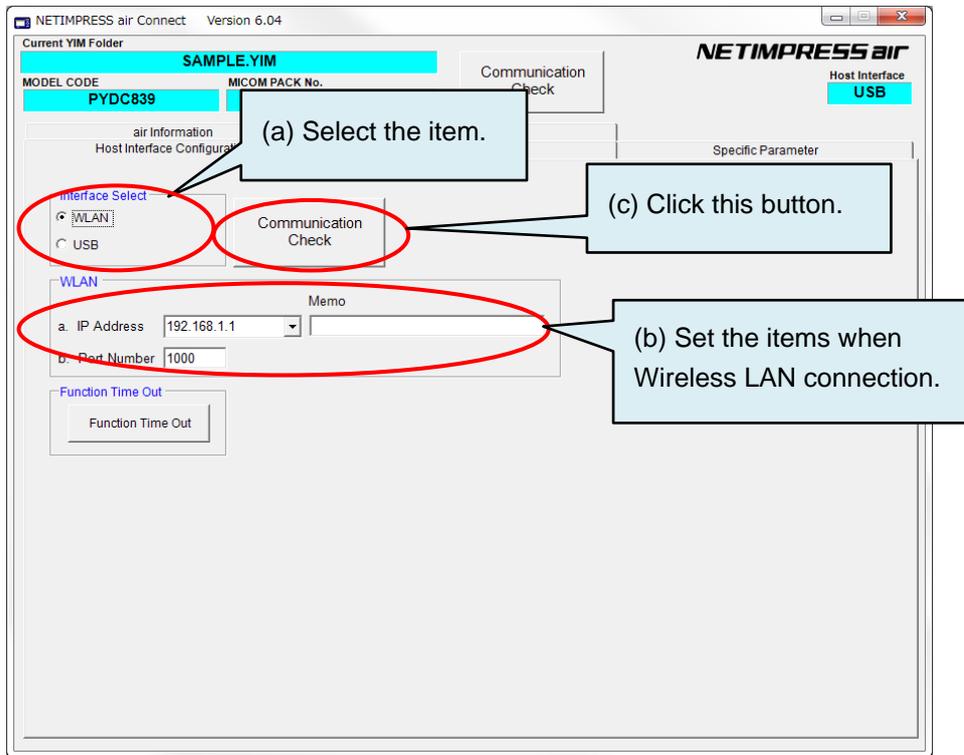
6.2.43. Selecting connection

Select how to connect NETIMPRESS air and host PC.

Set the items in the **Interface Select** group on the **Host Interface Configuration** tab.

When you connect NETIMPRESS air and the host PC by Wireless LAN, change the **WLAN** group settings also.

After change the settings, click the **Communication Check** button to establish the connection.



The table below explains items and meanings on **Interface Select** group.

Item	Meaning	Settable range
Interface Select	Set the connection.	WLAN (connect by Wireless LAN) / USB (connect by USB)

The table below explains items and meanings on **WLAN** group.

Item	Meaning	Settable range
a. IP Address	IP address of WirelessIMPRESS air	The format is "xxx.xxx.xxx.xxx".
b. Port Number	Port number of WirelessIMPRESS air	Enter 0000 to FFFF (hexadecimal).
Memo	Memo related with IP address.	Any alphanumeric characters



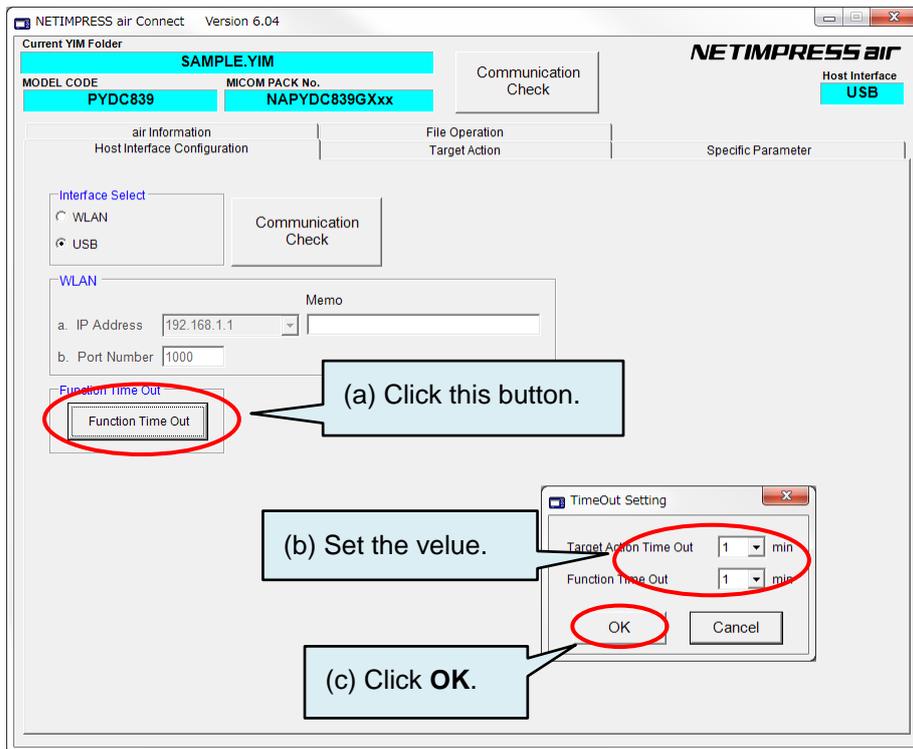
Up to 8 IP addresses remain in the history. You can specify the IP address from the history data.

6.2.44. Time-out period settings

Set the time-out period to AZ990 when executing the target action or function from AZ990 (NETIMPRESS air Connect).

Click the **Function Time Out** button in the **Function Time Out** group on the **Host Interface Configuration** tab.

Window for setting Time-out period is shown. Set the time-out period and click the **OK** button. If you want to cancel setting time-out period, click the **Cancel** button.



The table below explains items and meanings on Time-out period setting.

Item	Meaning	Settable range
Target Action Time Out	Set the Time-out period when executing the Target Action.	1 to 180 (Minute)
Function Time Out	Set the Time-out period when executing the Function.	1 to 30 (Minute)



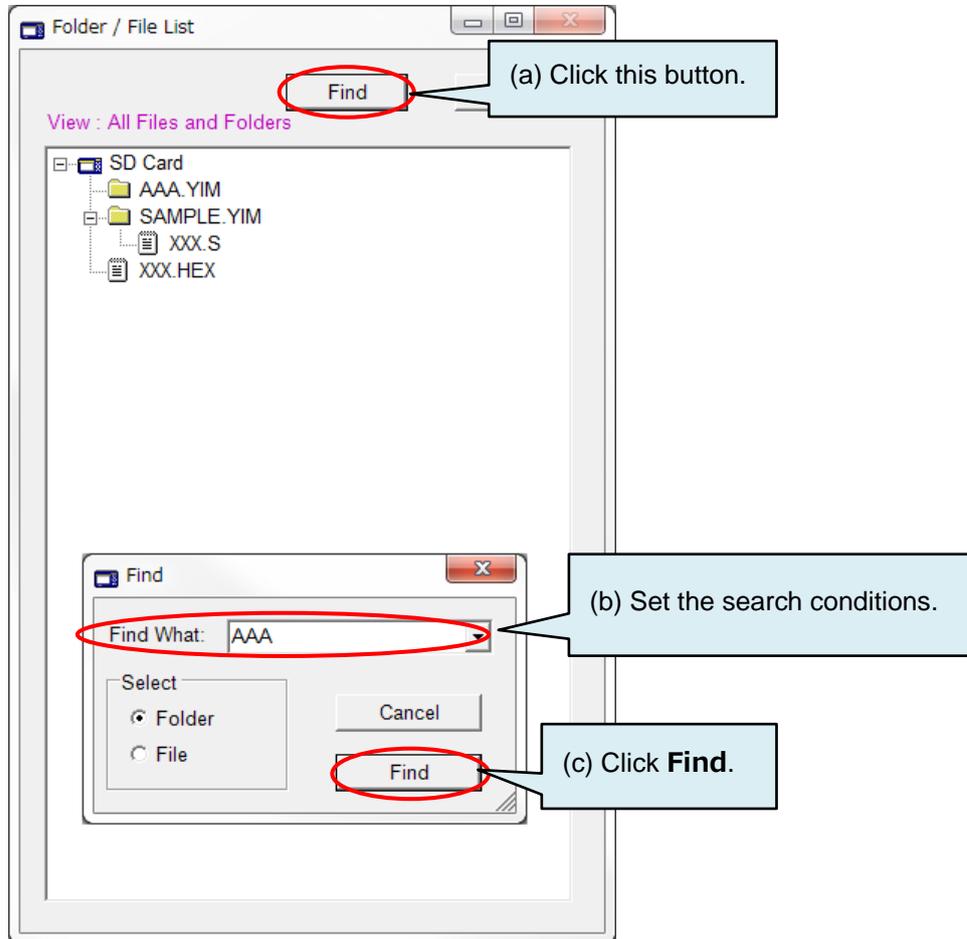
If time-out occurs, the error message **111:AF930 Time Out 01** is displayed.

6.2.45. Search Folder/File list

Make a search in Folder/File list, and shown the search results.

Click the **Find** button on Folder/File list window.

Search window is shown. Set up search conditions in the Find dialog box and click the **Find** button to start searching.



The table below explains items and meanings on searching for Folder/File list window.

Item	Meaning	Settable range
Find What	Folder/File name	Folder/file name to be searched Wildcard character below can be used. Given one character Any characters Given one character among characters specified in the charlist Given one character other than characters specified in the charlist
Select	The target file for search	Folder(search YIM folder) / File (search files)



Up to 10 search conditions remain in the history. You can specify the search condition from the history data.

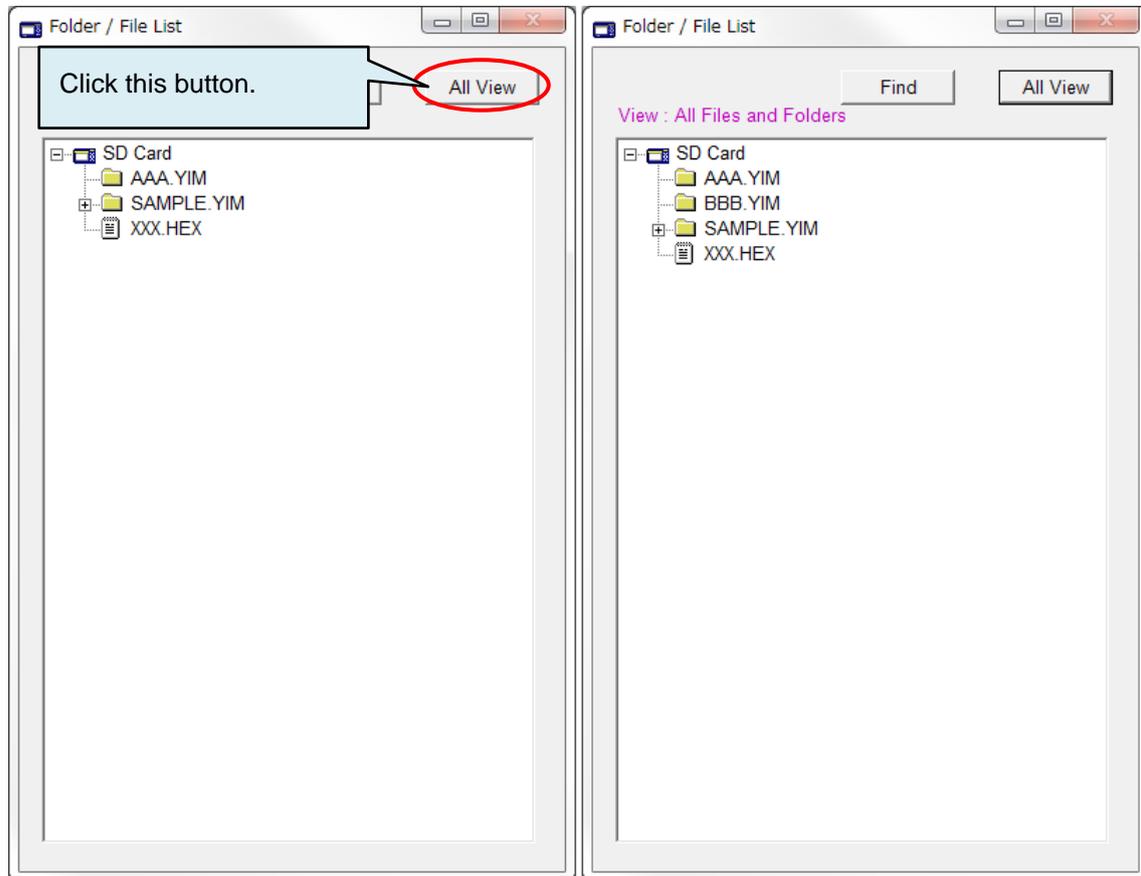
6.2.46. Display all Folders/Files

Clear the search result, and display all folders/files on Folder/File list.

Click the **All View** button on Folder/File list window.

The search result is cleared, and then all folders/files in the SD card are displayed on Folder/File list window.

However, the file in YIM folder other than the current folder is not displayed.



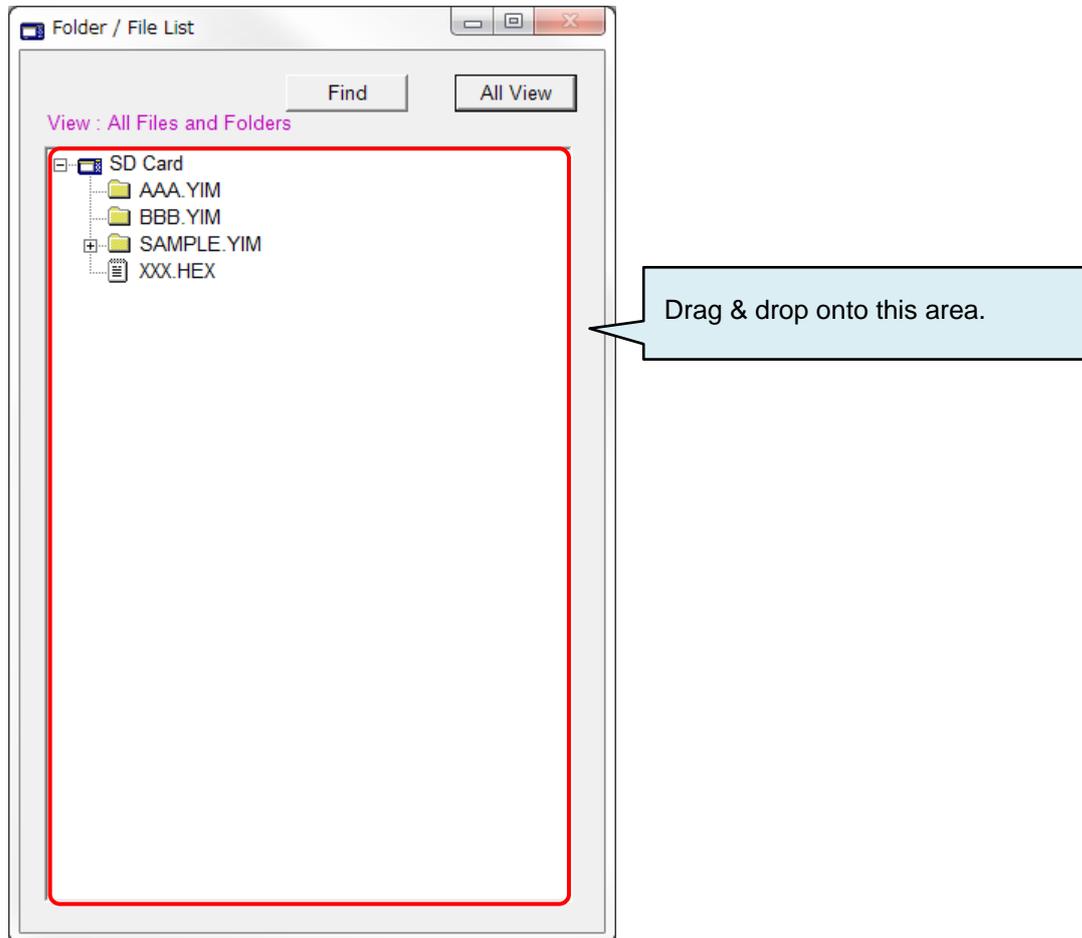
6.2.47. Downloading YIM folder with drag & drop

Download YIM folder in host PC into the SD card with drag & drop operation.

You can download YIM folder in host PC into the SD card by drag & drop YIM folder onto Folder/File list window.

You cannot drag & drop to download files/folders other than YIM folder onto the SD card.

Drag & drop YIM folder within the following red frame area.



7. STANDALONE OPERATION of NETIMPRESS air

This chapter describes the operation of NETIMPRESS air as a standalone (without PC).



The SD card has to be inserted in NETIMPRESS air main unit for operating NETIMPRESS air as a standalone.

You can operate NETIMPRESS air as a standalone for executing following two functions, **the target action** and **the items in MENU**.

To execute the target action, the programming environment has to be set up in advance.



YIM folder has to be created using with AZ990(NETIMPRESS air connect) for setting up the programming environment.



See Chapter 4.2 and 4.3 for setting up the programming environment.

See Chapter 7.1.1 for operating the target action by standalone operation.

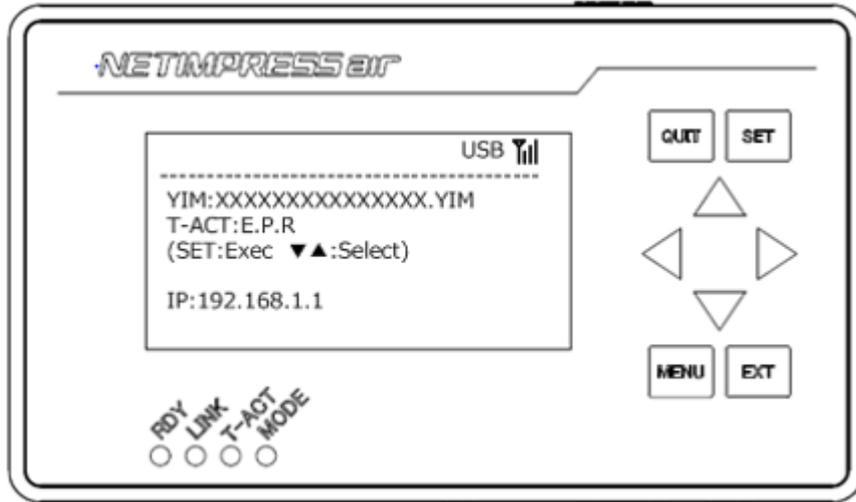
For the operation in MENU, you can change the NETIMPRESS air settings by executing the operation specific to standalone operation.

7.1. NETIMPRESS air Operation

This chapter describes the operation of NETIMPRESS air.

8 keys are used when operating NETIMPRESS air as a stand-alone.

Following table describes function of each key and the behavior.



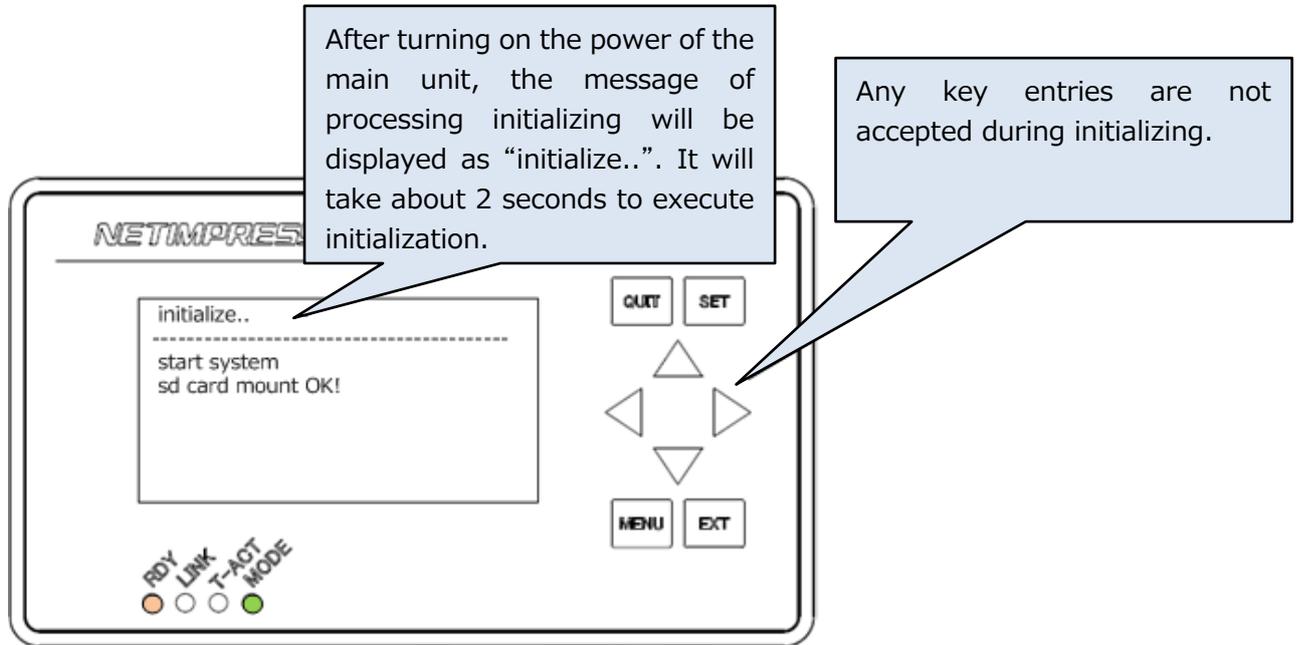
- Function of each key when operating NETIMPRESS air as a stand-alone

QUIT	<ul style="list-style-type: none"> ● QUIT button is used when you want to stop the operation. ● After the QUIT, it backs to the main page.
SET	<ul style="list-style-type: none"> ● SET button is used when you want to set and execute the settings.
MENU	<ul style="list-style-type: none"> ● MENU button is used when you want to display the menu window.
EXT	<ul style="list-style-type: none"> ● EXT button is not used for programming function.
▲	<ul style="list-style-type: none"> ● Arrow key is used when you want to scroll the mode setting menu or the command setting menu. ● This is also used when selecting item.
▼	<ul style="list-style-type: none"> ● Arrow key is used when you want to scroll the mode setting menu or the command setting menu. ● This is also used when selecting item.
◀	<ul style="list-style-type: none"> ● This is used when selecting item.
▶	<ul style="list-style-type: none"> ● This is used when selecting item.

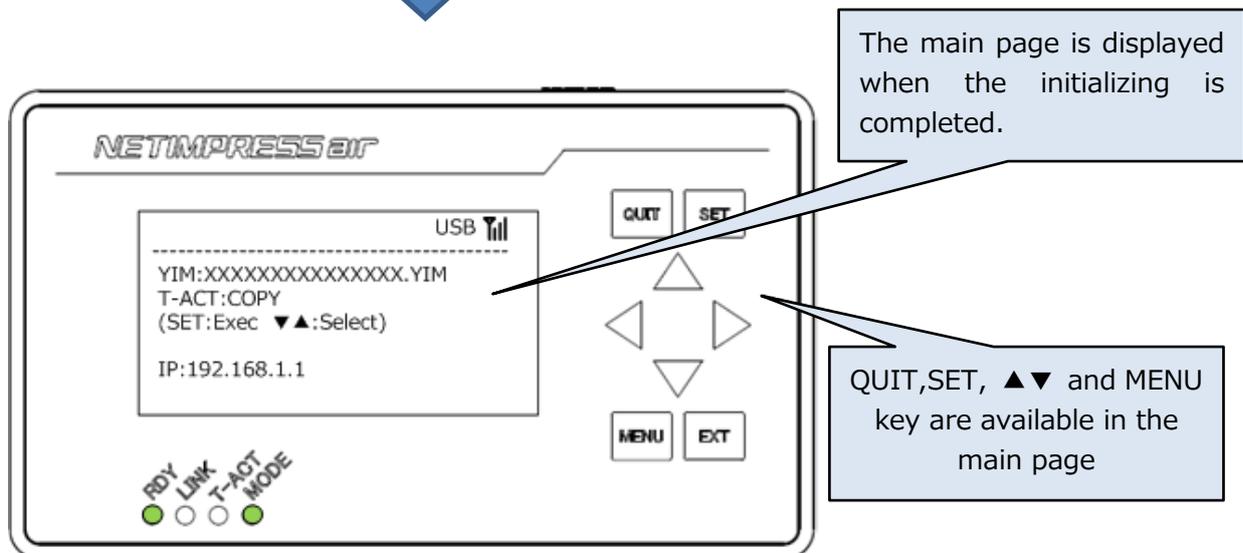
7.1.1. Operation for executing the target action

This chapter describes the operation for executing the target action.

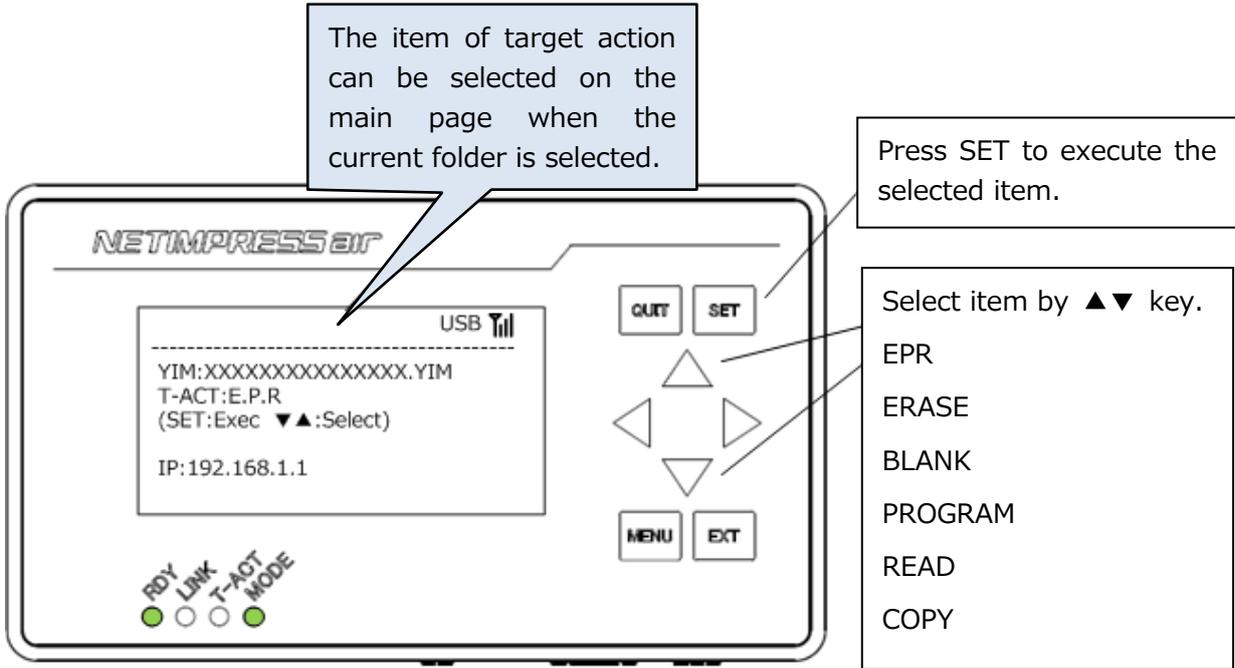
(1) Turn on the power of main unit, and display the main page on the LCD.



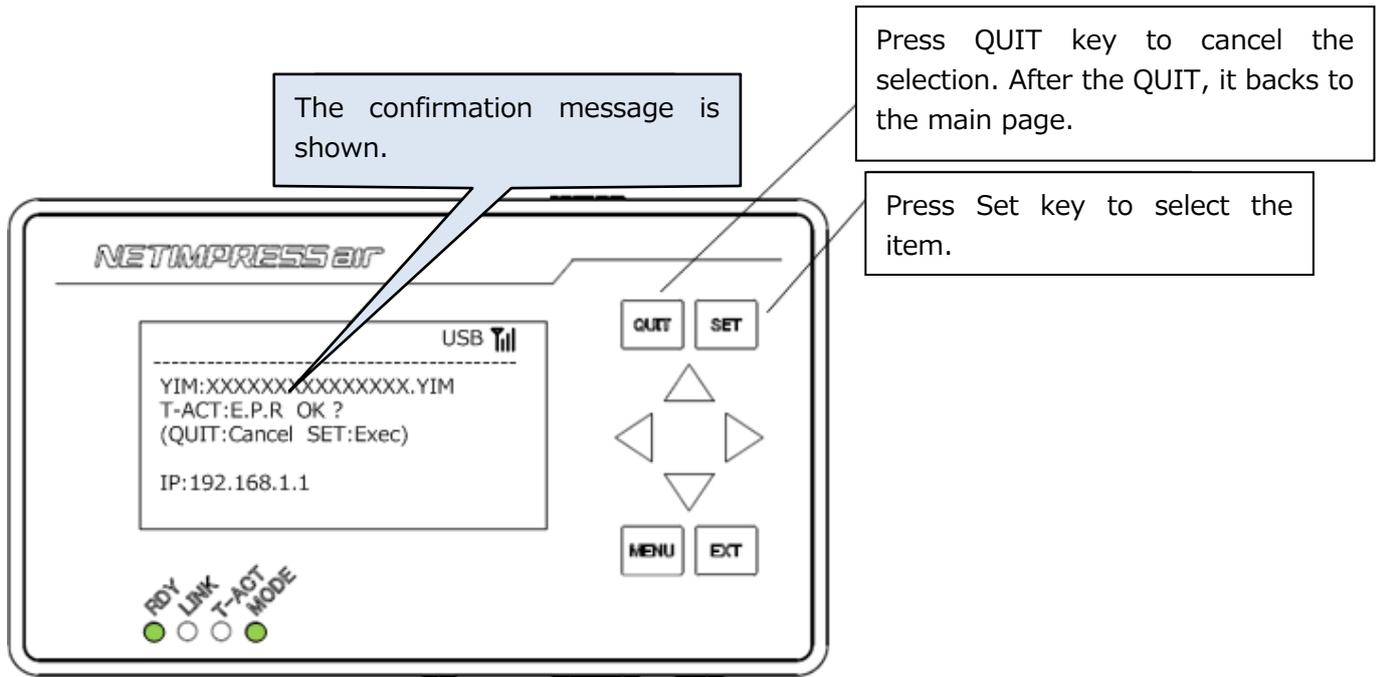
! Initialize...Any key entries are not accepted while **Initialize** is displayed on the LCD (Key entry is disabled.)



(2) Select an executing item for the target action, and then press the **SET** key.

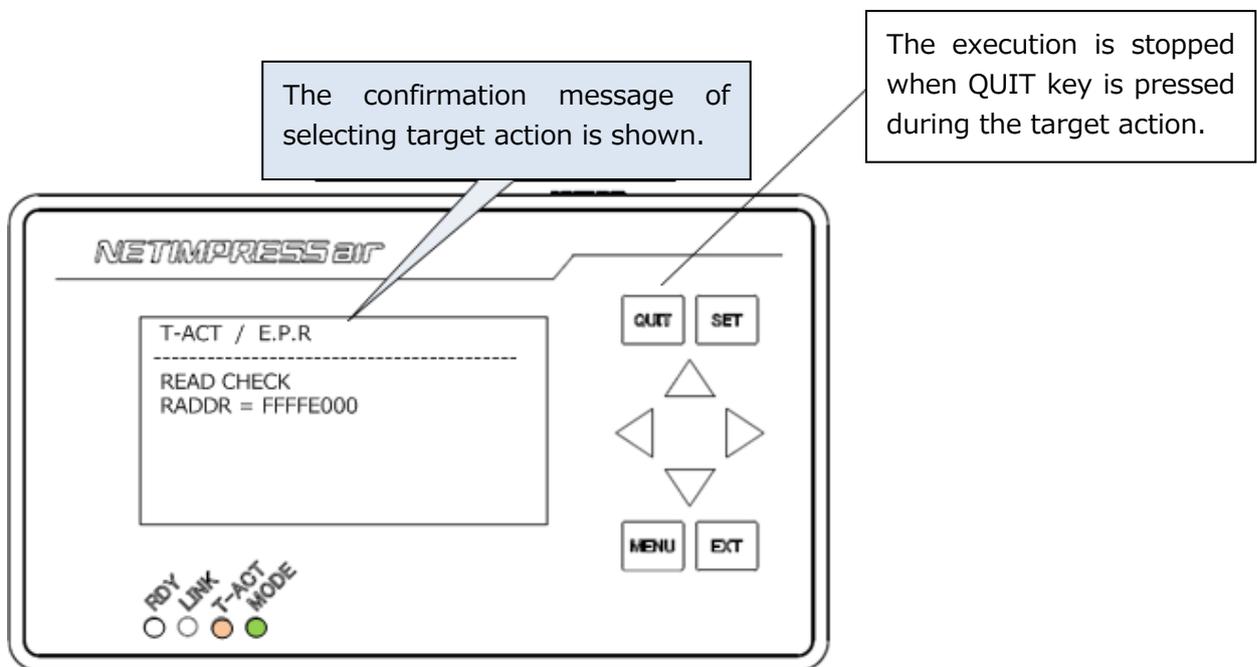


(3) Press the **SET** key to execute the target action when the confirmation message is shown.



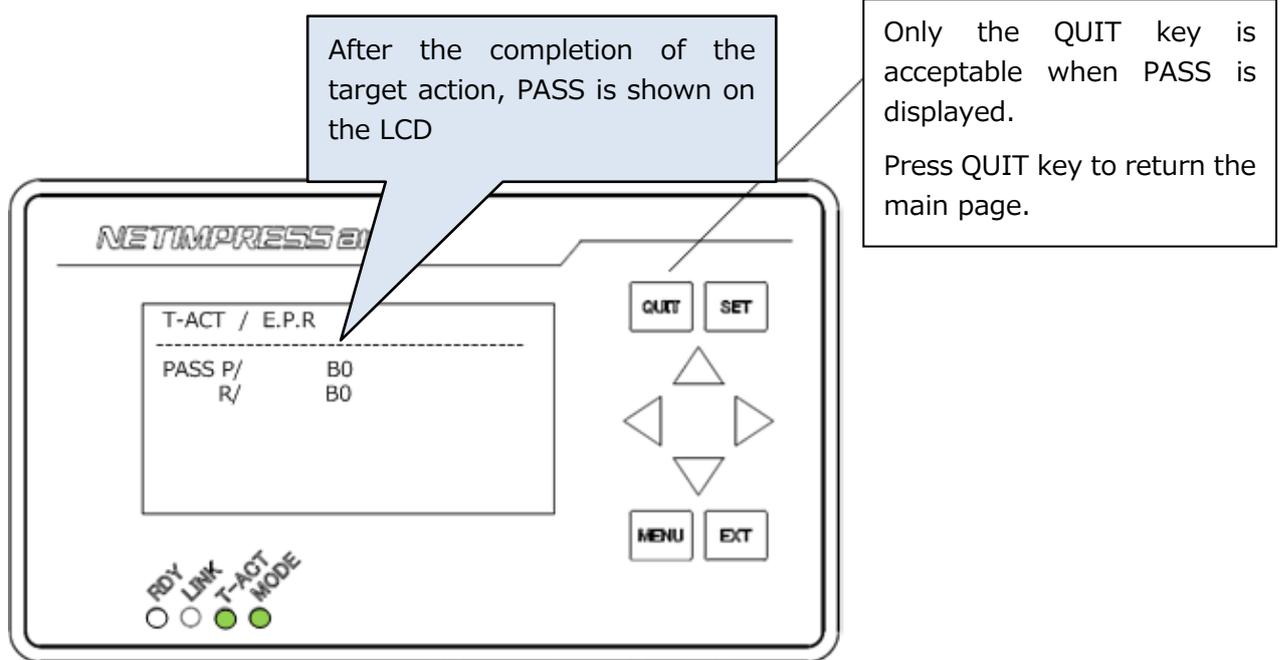
! When the confirmation message is shown on LCD, only the **QUIT** key and the **SET** key are acceptable. Keys other than the **QUIT** key and the **SET** key are disabled.

(4) The following page is displayed during executing the target action.



! Only the **QUIT** key is acceptable during executing the target action. Keys other than the **QUIT** key is disabled.

(5) After the completion of the target action, **PASS** is shown on the LCD.



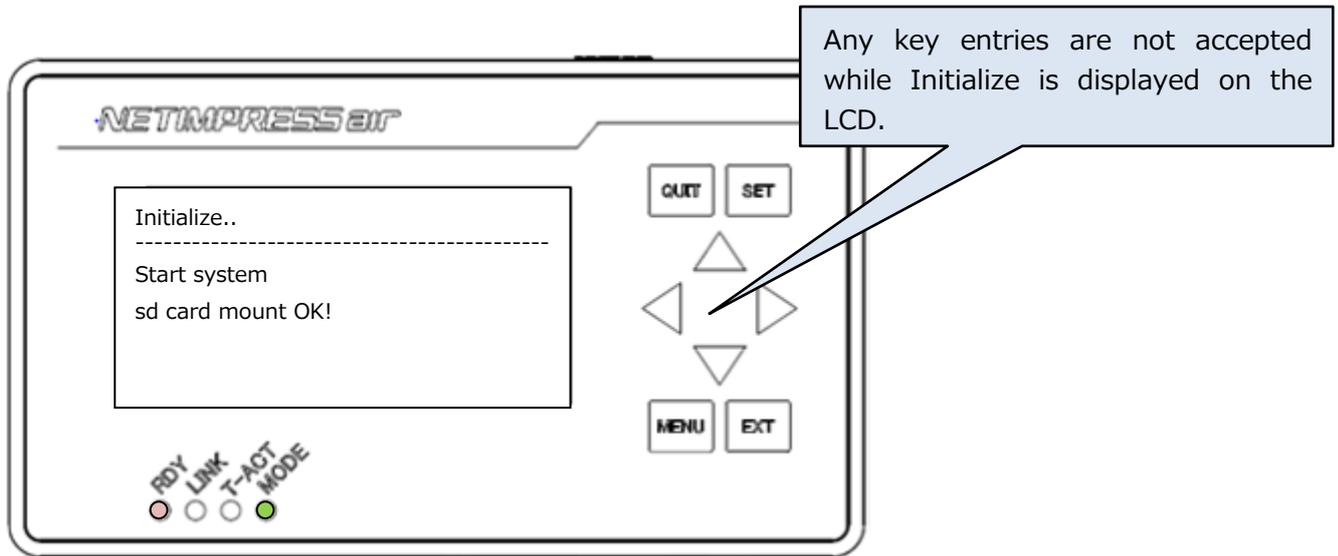
Only the **QUIT** key is acceptable when **PASS** is displayed. Any keys other than the **QUIT** key is disabled.

7.1.2. Operation for executing Items in MENU

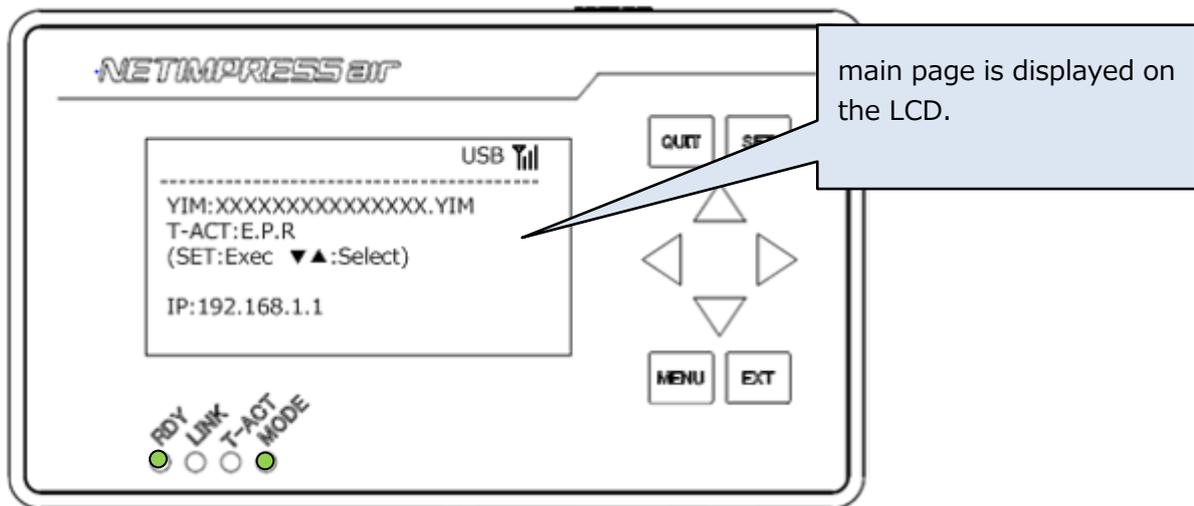
This chapter describes the operation for executing items in MENU.

➔ See Chapter 7.4 for the operation of each MENU item.

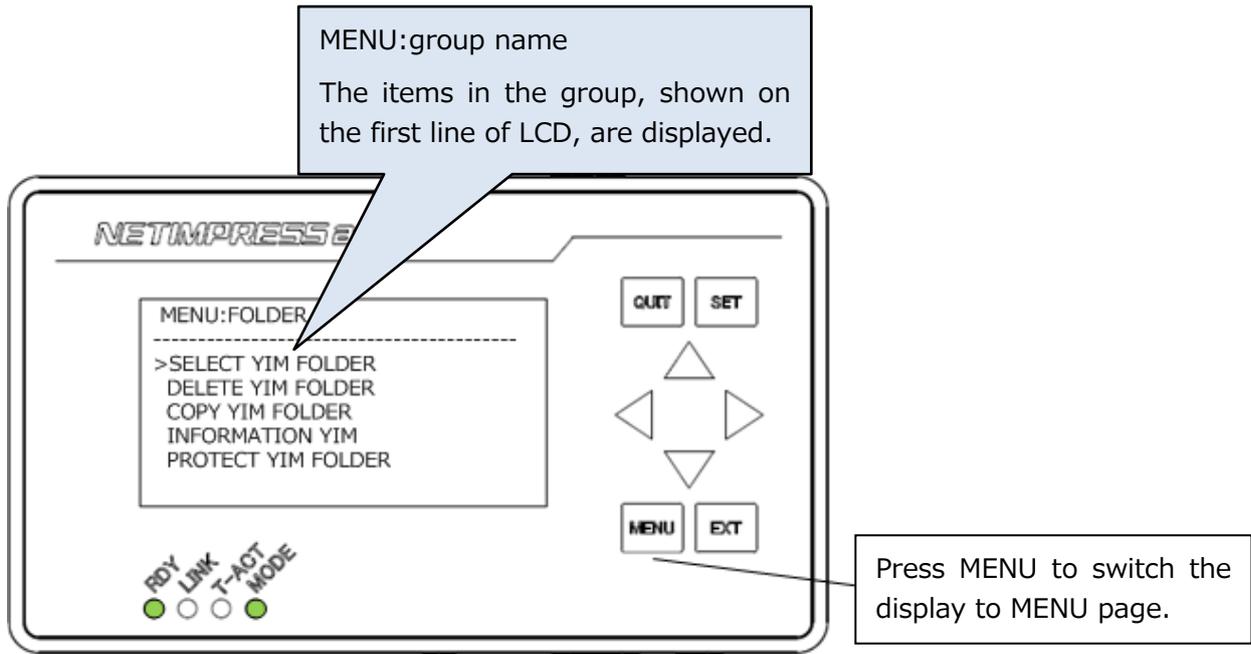
(1) Turn on the power of main unit, and display the main page on the LCD.



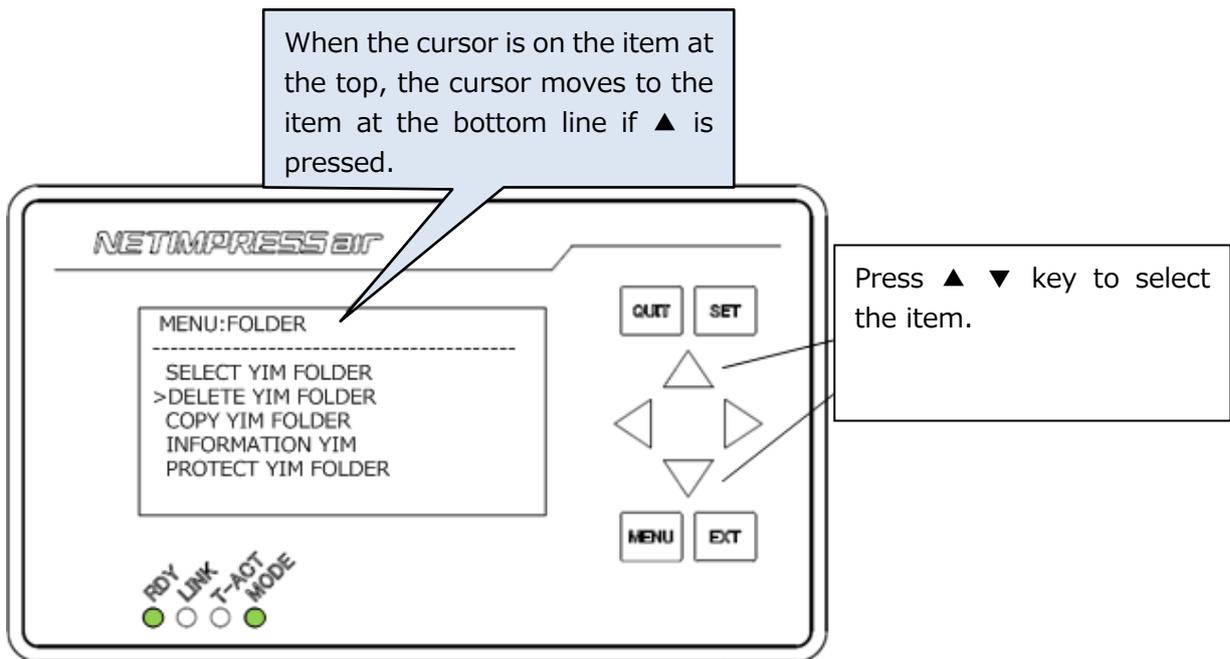
! Initialize...Any key entries are not accepted while **Initialize** is displayed on the LCD (Key entry is disabled.)



(2) Press the **MENU** button.

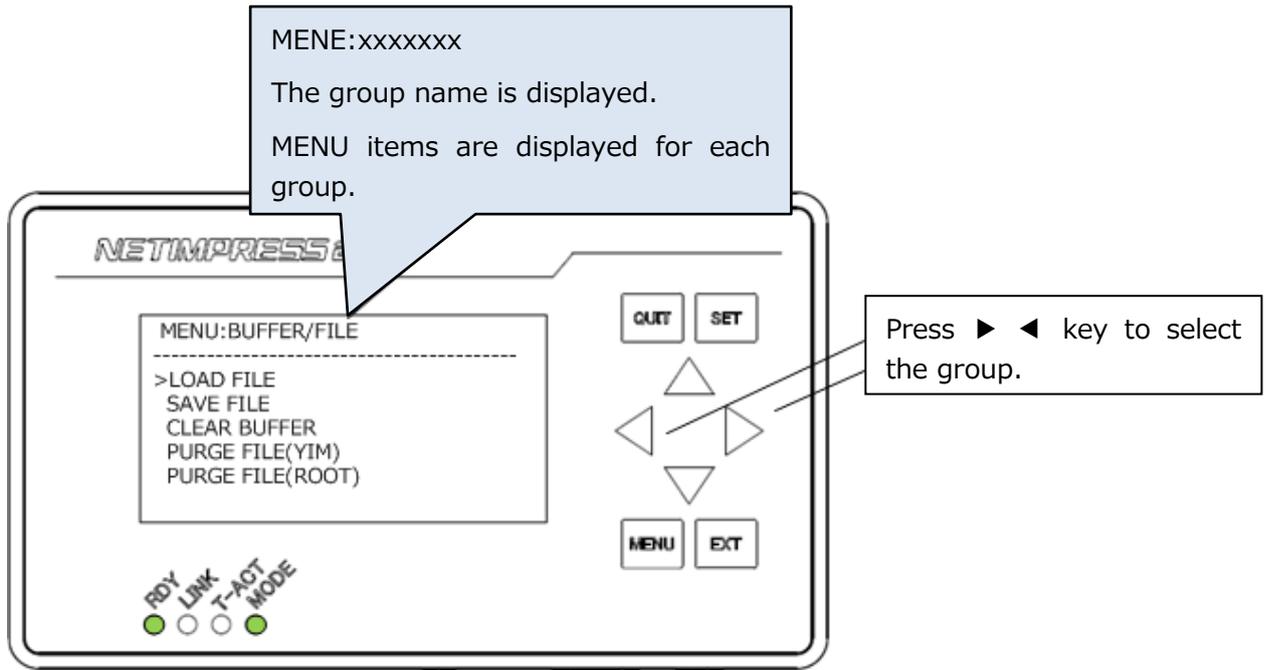


(3) Select an item in the group with the arrow key.



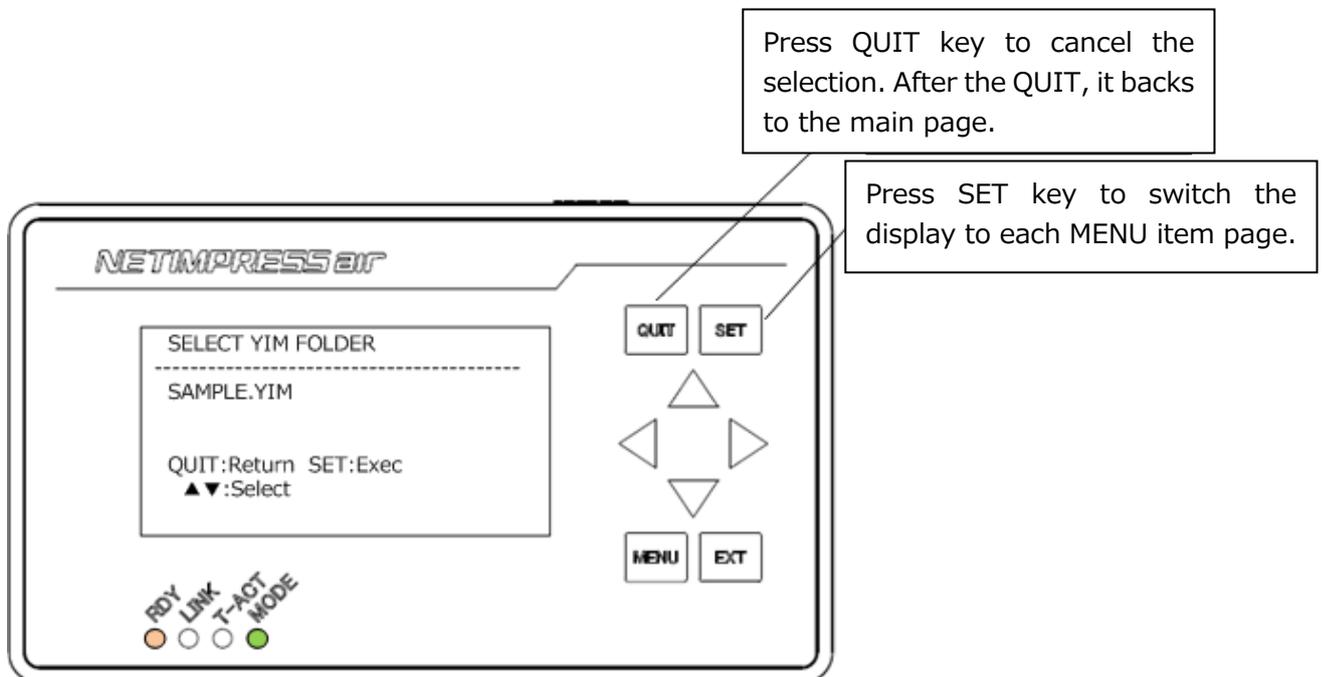
The QUIT key, the SET key, and the arrow key, that is ▲▼▶◀, are acceptable for selecting the item in MENU. Any Keys other than the QUIT key, the SET key, and the arrow key are disabled.

(4) Change the group using the arrow key.



! The QUIT key, the SET key, and the arrow key, that is ▲▼▶◀, are acceptable for selecting the item in MENU. Any Keys other than the QUIT key, the SET key, and the arrow key are disabled.

(5) Press the SET button to execute selected item. For detailed operations, see the chapter for each item.



7.1.3. Wireless LAN setting

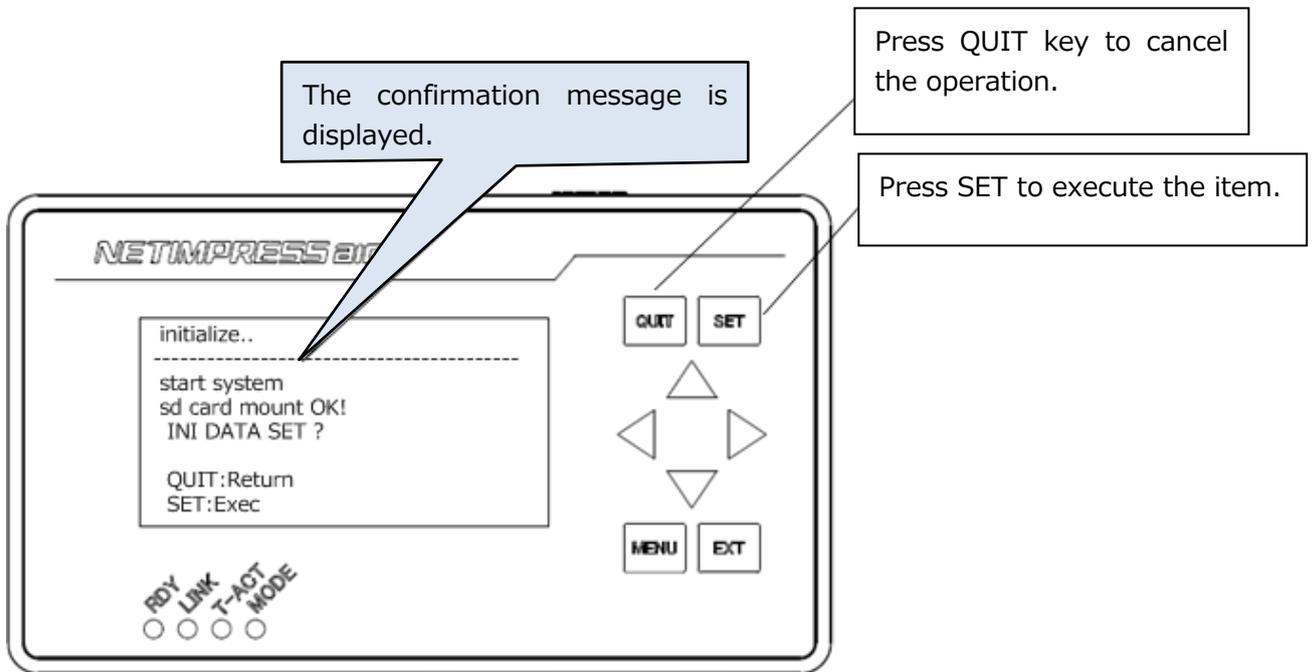
This chapter describes how to set up Wireless LAN by NETIMPRESS air as a stand-alone.

By placing file of Wireless LAN settings (extension: .ini) in the SD card, Wireless LAN settings can be made by NETIMPRESS air as a stand-alone.

➡ See Chapter 8.1.4 details about ini file.

Place the file in the root directory of the SD card first, and then turn on the power of the main unit.

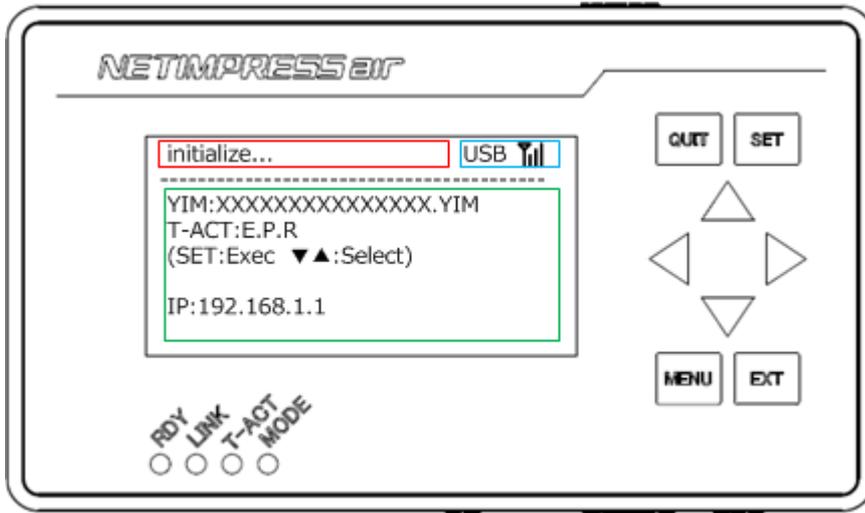
If the setting of ini file and setting currently set the main unit differ, the confirmation message will be shown for changing the setting of main unit to the setting of ini file.



7.2. Display

This chapter describes the display of NETIMPRESS air for each operation.

NETIMPRESS air displays 8 lines and 21 characters for each line on its LCD.



1st line	<ul style="list-style-type: none"> ● The action currently executed is displayed here. ● On the main page, the status of communication I/F (USB/Wireless LAN) is displayed. ● USB is displayed when PC and NETIMPRESS air are connected by USB correctly. ● The status of Wireless LAN communication is displayed as follows: <table border="1" data-bbox="568 1352 1385 1680"> <thead> <tr> <th></th> <th>COMMUNICATION STATE</th> <th>Wireless intensity</th> </tr> </thead> <tbody> <tr> <td>▮▮▮</td> <td>Good</td> <td>100%~60%</td> </tr> <tr> <td>▮▮</td> <td>Average</td> <td>59%~40%</td> </tr> <tr> <td>▮</td> <td>Bad</td> <td>39%~20%</td> </tr> <tr> <td>▮</td> <td>Very bad</td> <td>19%~1%</td> </tr> <tr> <td>▮</td> <td>Not connected</td> <td>0%</td> </tr> </tbody> </table>		COMMUNICATION STATE	Wireless intensity	▮▮▮	Good	100%~60%	▮▮	Average	59%~40%	▮	Bad	39%~20%	▮	Very bad	19%~1%	▮	Not connected	0%
	COMMUNICATION STATE	Wireless intensity																	
▮▮▮	Good	100%~60%																	
▮▮	Average	59%~40%																	
▮	Bad	39%~20%																	
▮	Very bad	19%~1%																	
▮	Not connected	0%																	
2nd line	<ul style="list-style-type: none"> ● This line is used for delimiter (Fixed) 																		
3 rd to 8 th line	<ul style="list-style-type: none"> ● Here is the sub display when each process is executing. The display contents are changed depending on the executing action. 																		

7.3. Programming Execution

This chapter describes how to execute programming by NETIMPRESS air as a stand-alone.

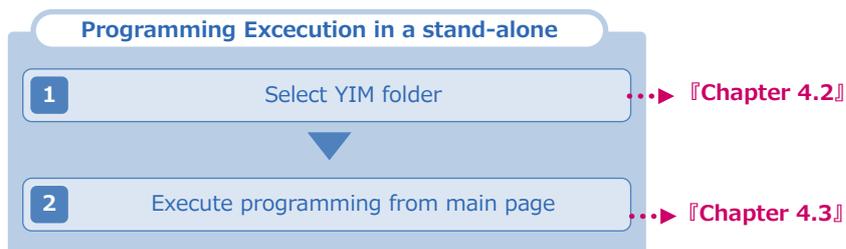


It is necessary that setting up the environment of YIM folder and connection with the target system.

Executing the programming after setting up the programming environment.



See Chapter 1.3 for setup the programming environment.



7.4. Operation For Items in MENU

This chapter describes the operation and setting for each item in MENU.

➡ See Chapter 7.1.2 for selecting item in menu.

7.4.1. Selecting YIM folder

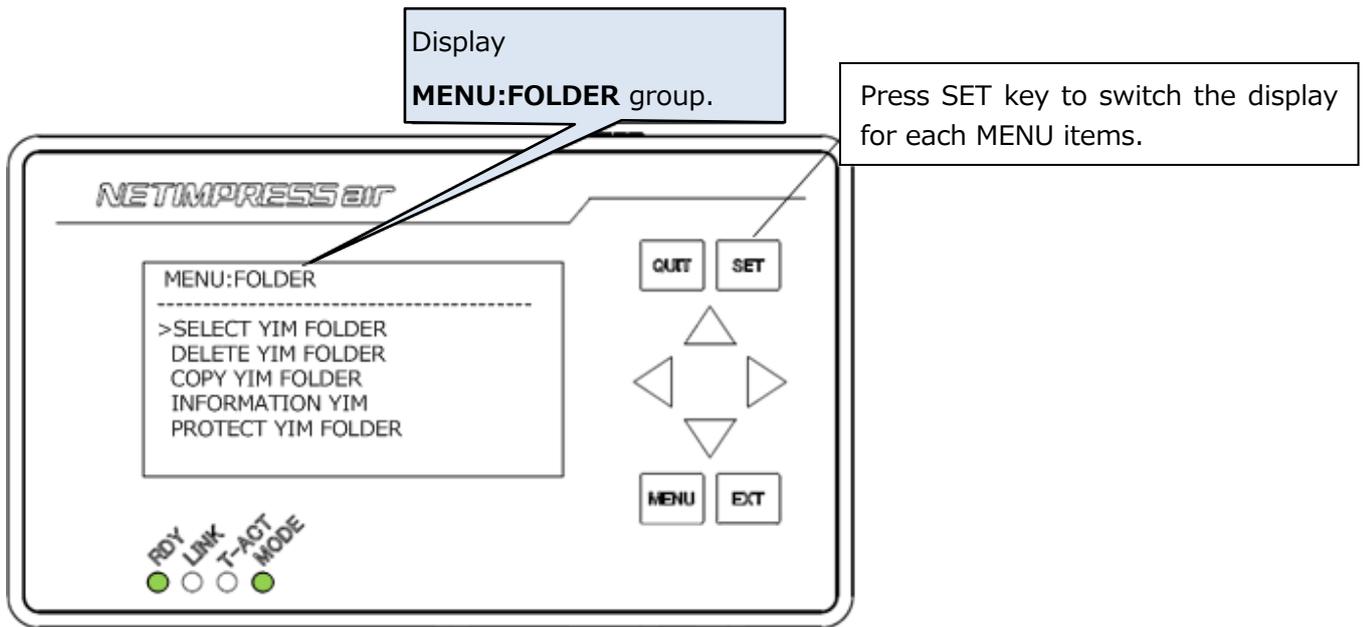
Set the selected YIM folder to the current folder.

It is needed to make setting of the current folder for executing programming.

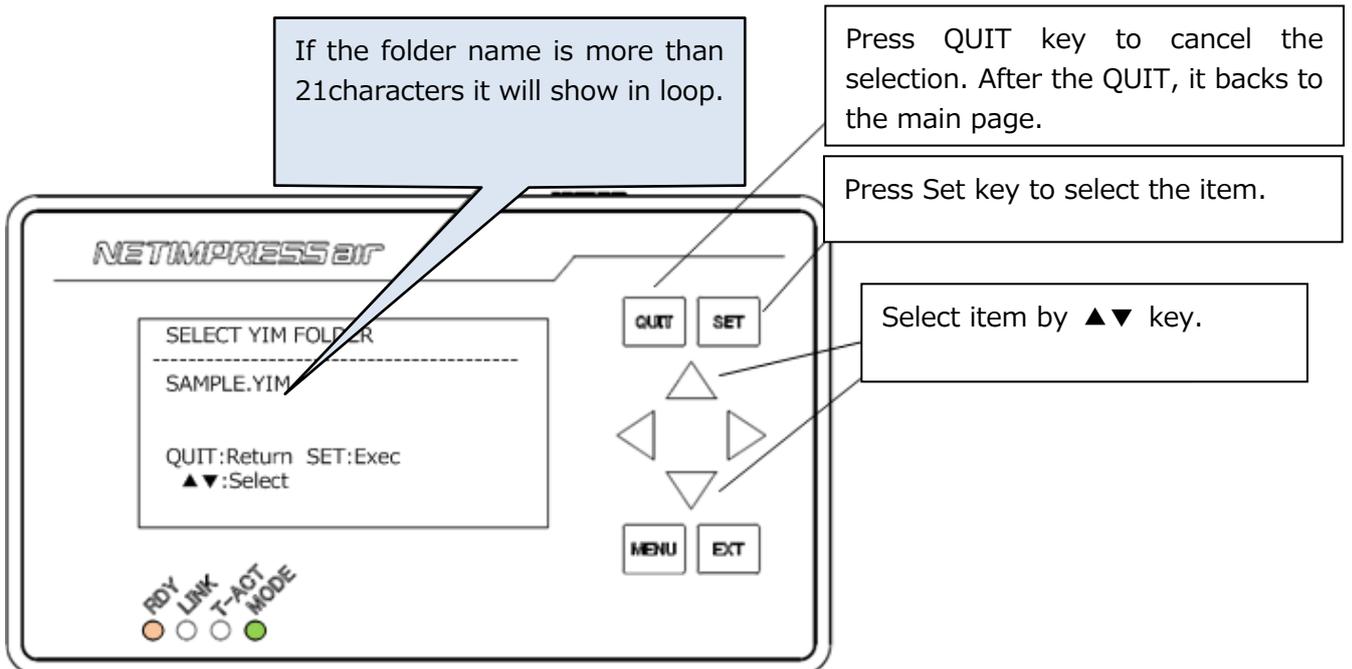
! You can copy YIM folder via the card reader of PC. However, an error occurs if you select a YIM folder using the definition program license, which is not registered for the programmer, the YIM folder cannot be set to the current folder.

If you do so, the information of the current folder is cleared and the folder is deselected.

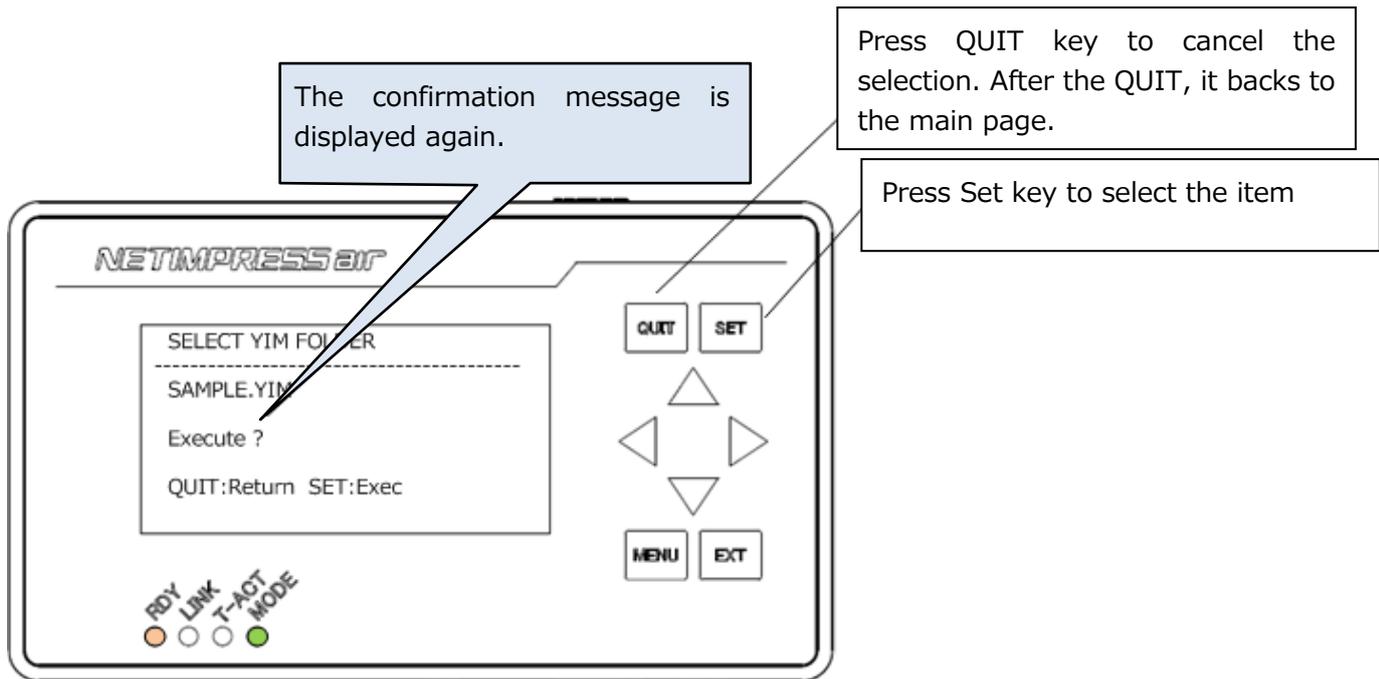
(1) Display the **MENU:FOLDER** group. Set the cursor to **SELECT YIM FOLDER**, and then press the **SET** key.



(2) Select a folder to set the current folder using the arrow key, and then press the **SET** key.



(3) Press the **SET** key again to execute selected item.



7.4.2. Deleting YIM folder

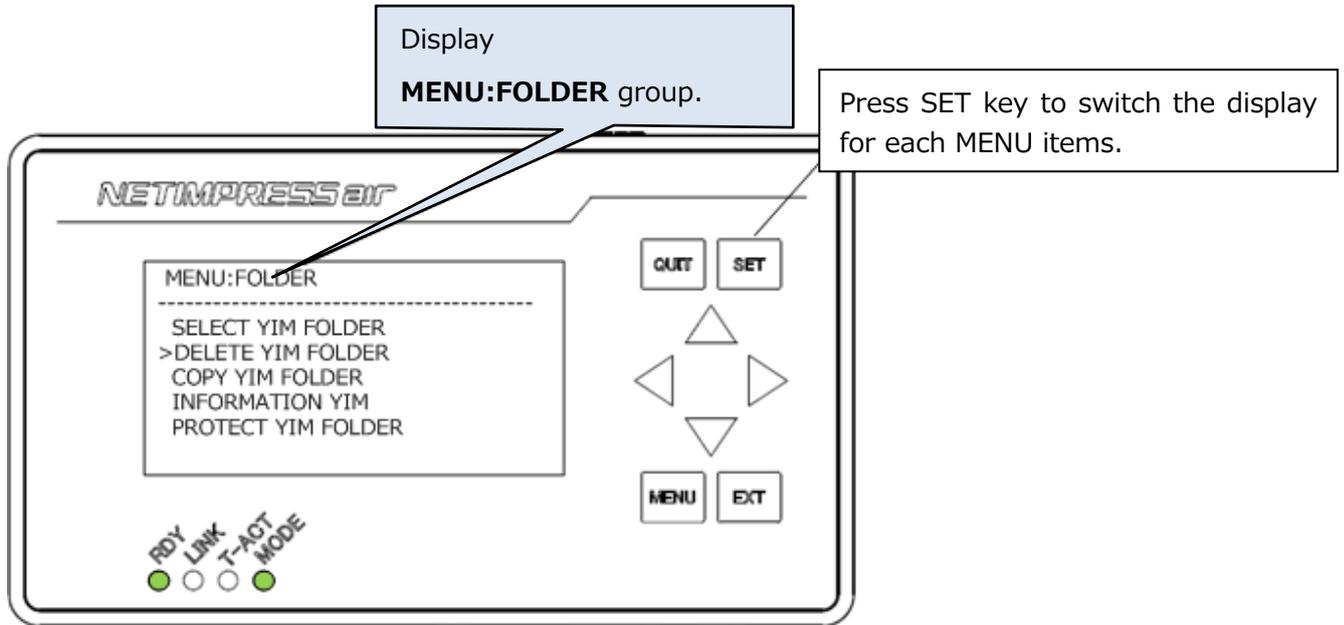
Delete a YIM folder.

When you delete YIM folder which is set to the current folder, the setting of current folder is cleared.

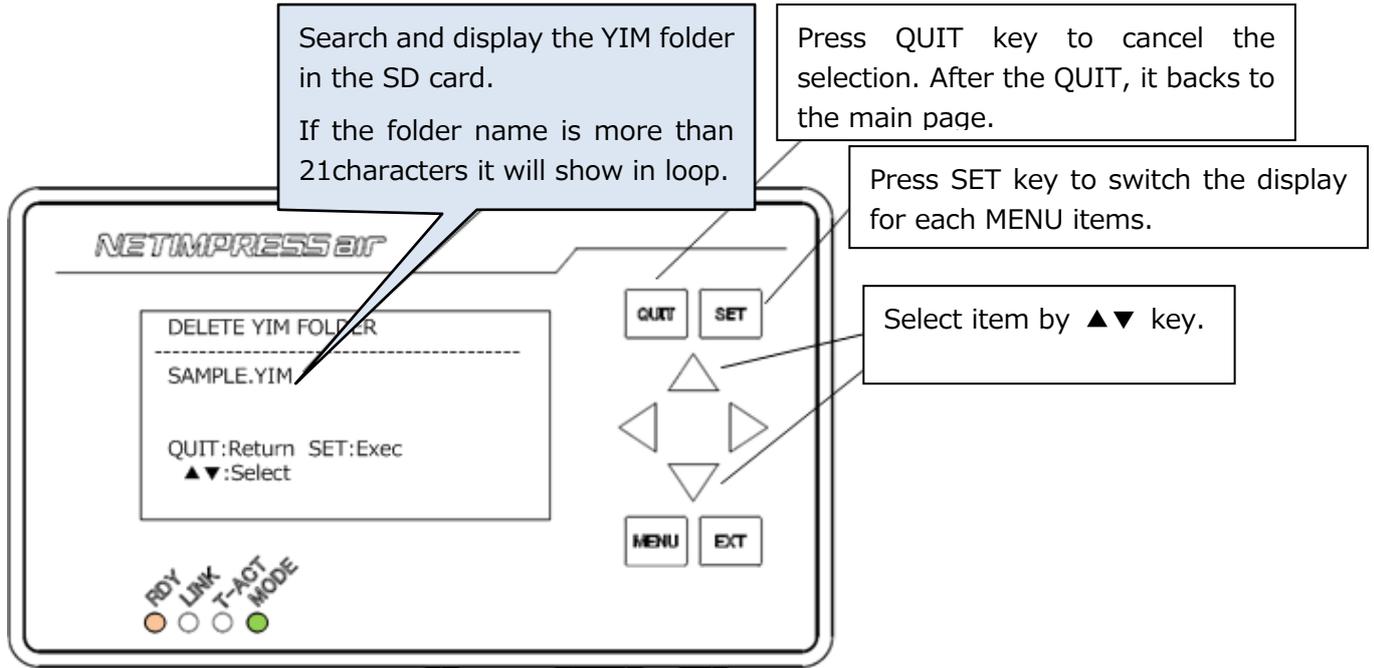


Note that the YIM folder, which you execute deletion, is not restored.

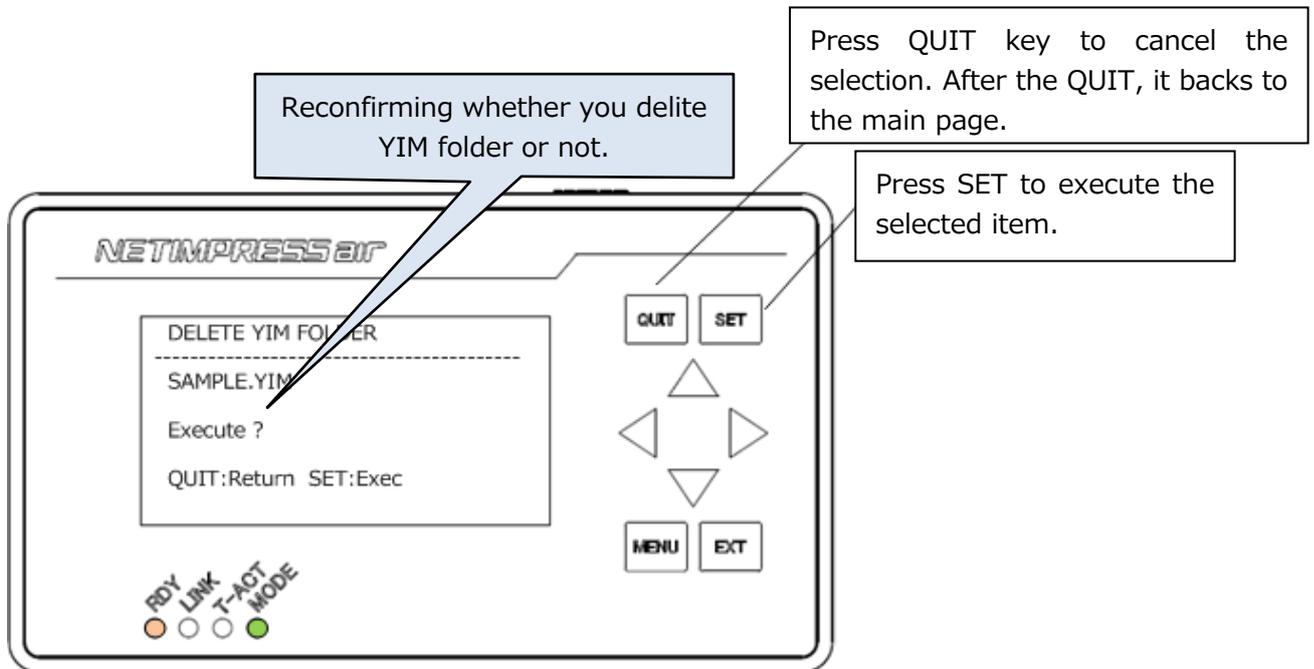
(1) Display the **MENU:FOLDER** group. Set the cursor to **DELETE YIM FOLDER**, and then press the **SET** key.



(2) Select a folder to delete using arrow keys, and then press the **SET** key.



(3) Press the **SET** key again to execute selected item.



7.4.3. Copying YIM folder

Copy the current YIM folder into the SD card.

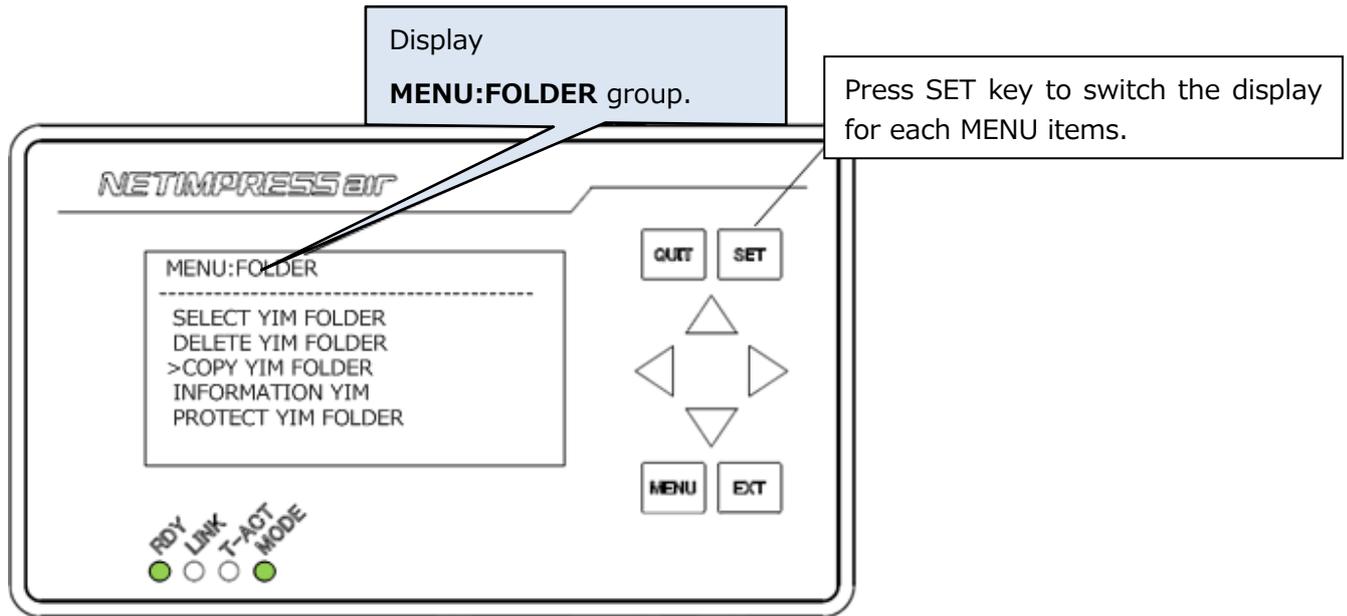
This function is used to back up the current YIM folder information.



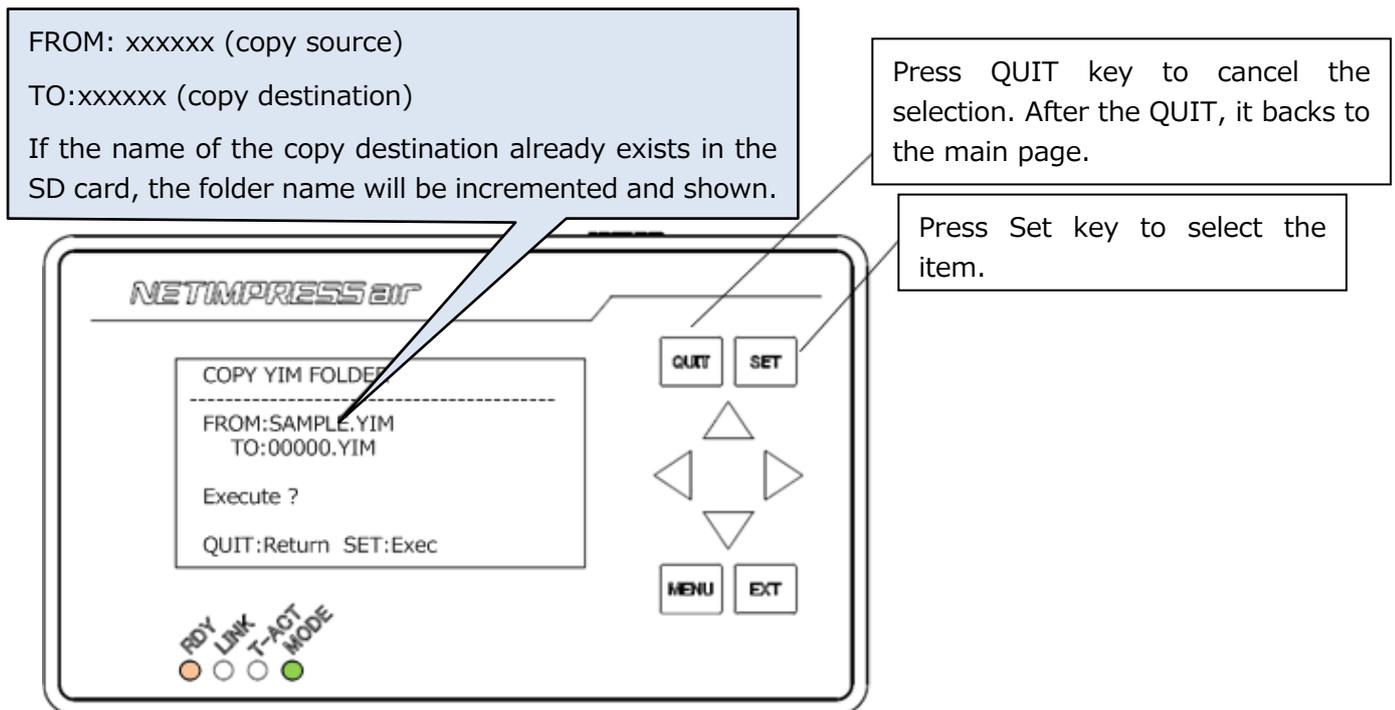
When operating NETIMPRESS air as a stand-alone, the folder is copied to the SD card with specific name. The folder name will be shown on the LCD.

The setting of current folder is not made, it results in an error.

(1) Display the **MENU:FOLDER** group. Set the cursor to **COPY YIM FOLDER**, and then press the **SET** key.



(2) Press the **SET** key to execute selected item.



7.4.4. Displaying the information of YIM folder

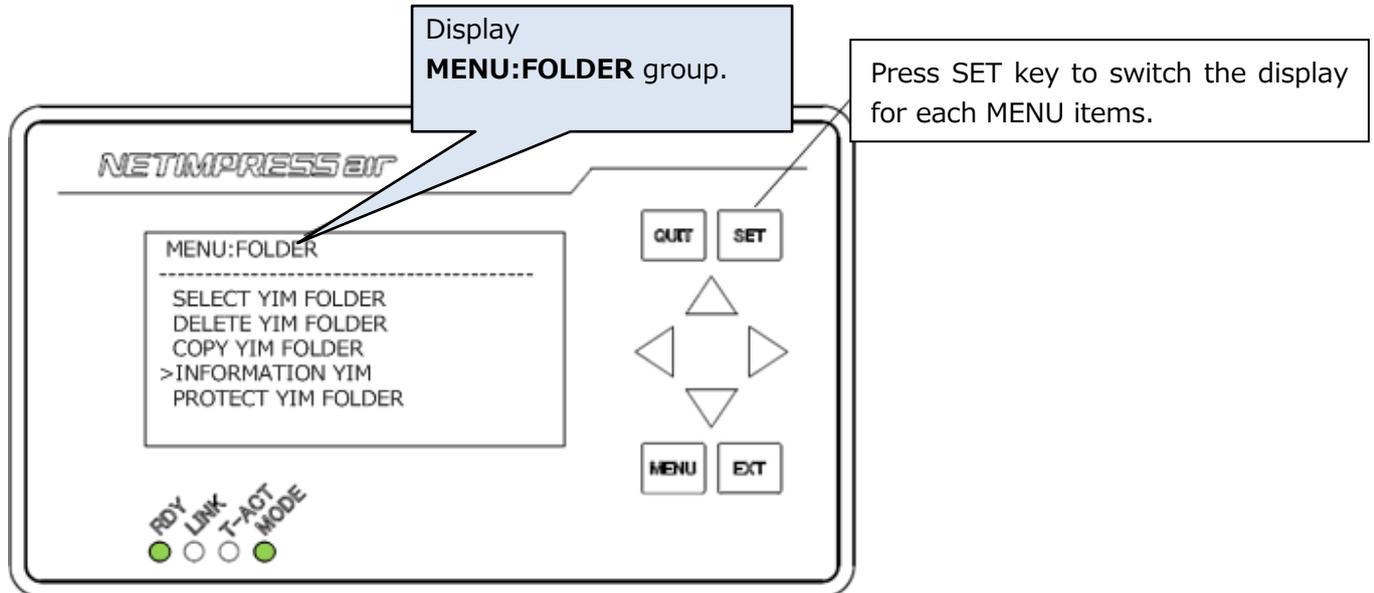
Use this function for checking the information set in the current folder.

Display the information of: the version of parameter, the area of executing target action, and the buffer area.

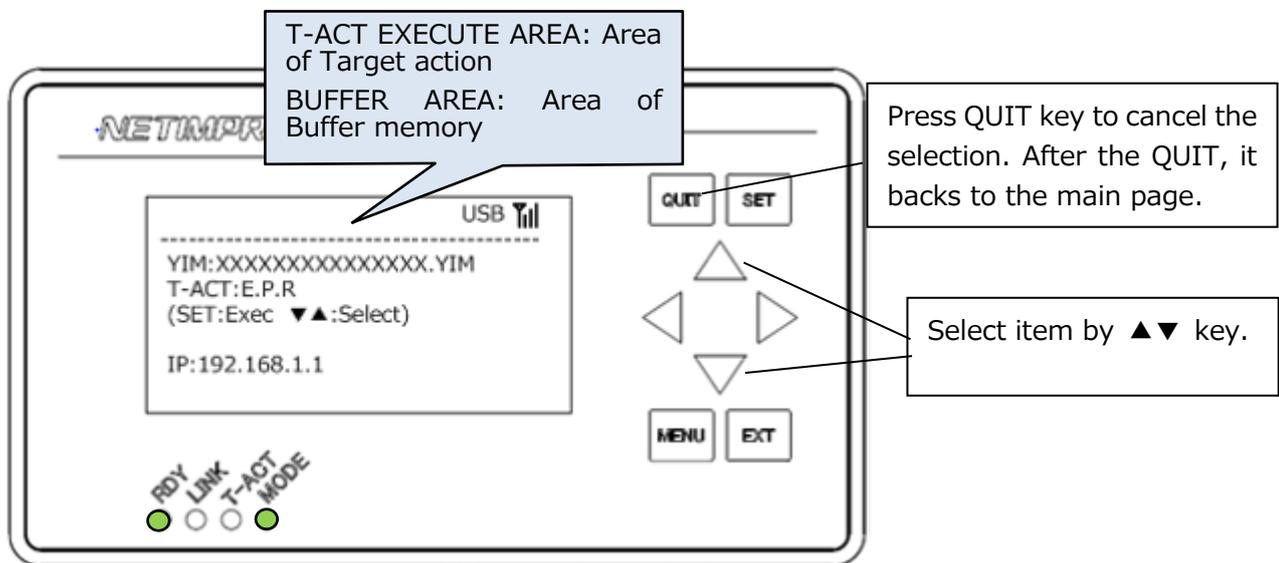


No Data is displayed on the LCD when the setting of the current folder is not made.

(1) Display the **MENU:FOLDER** group. Set the cursor to **INFORMATION YIM**, and then press the **SET** key.



(2) Select an item using the arrow key.



CM	Definition Program name
Ver	Definition program version
MP	MP: Micom pack name
Ver	Parameter version

7.4.5. Setting inhibition of accessing the YIM folder

Set the inhibition of accessing the current YIM folder. Use this function for controlling the access for the folder.

When set the **PROTECT**, the following operation is inhibited: deletion of setting folder, operation of the file in YIM folder (such as copying a file and the file deletion), operation for buffer memory (such as clearing, loading the file and saving the file).

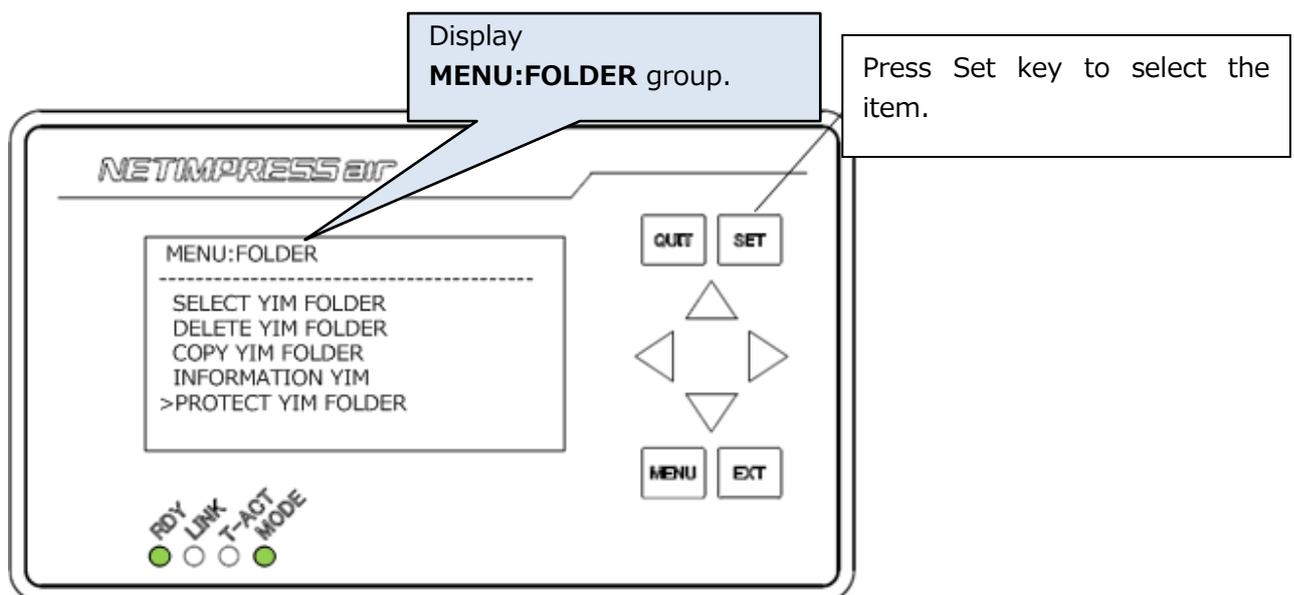


This setting is effective only when operating by NETIMPRESS air. When accessing the specified folder from PC via the card reader, the setting of the inhibition is ineffective.

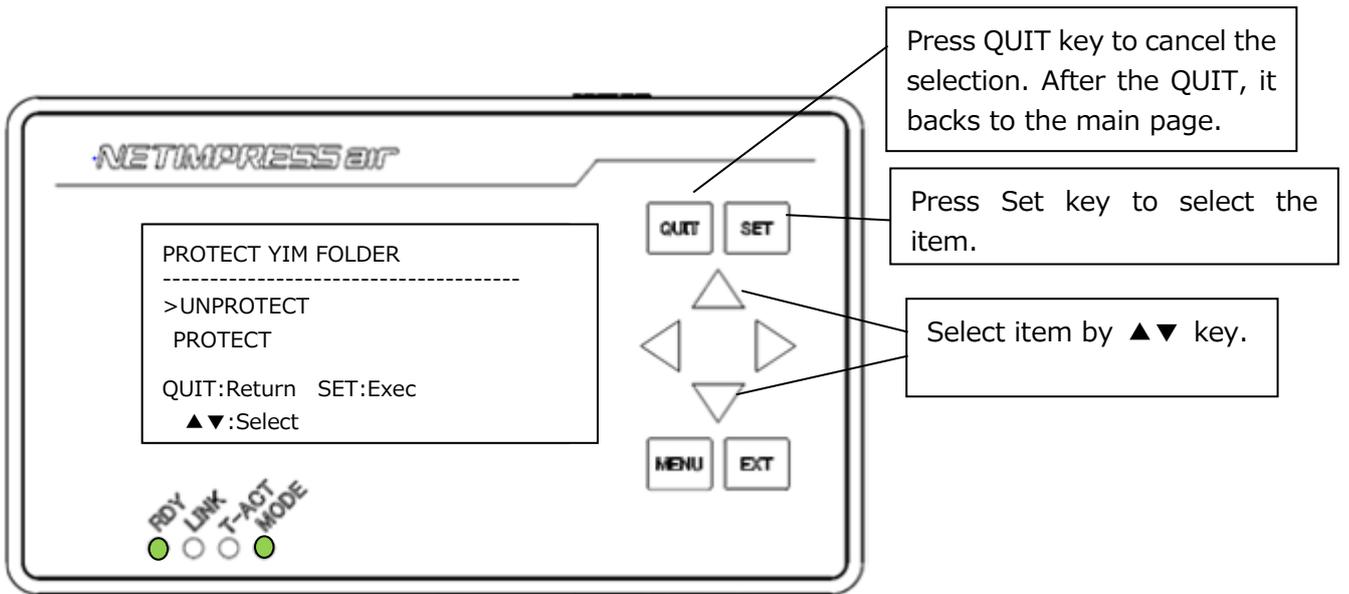
When the current folder is changed with the inhibition setting, you cannot delete the folder which you have set the inhibition setting.

The setting of current folder is not made, it results in an error.

(1) Display the **MENU:FOLDER** group. Set the cursor to **PROTECT YIM FOLDER**, and then press the **SET** key.



(2) Select a setting item by using arrow key, and then press the **SET** key.



7.4.6. Loading object data into buffer memory

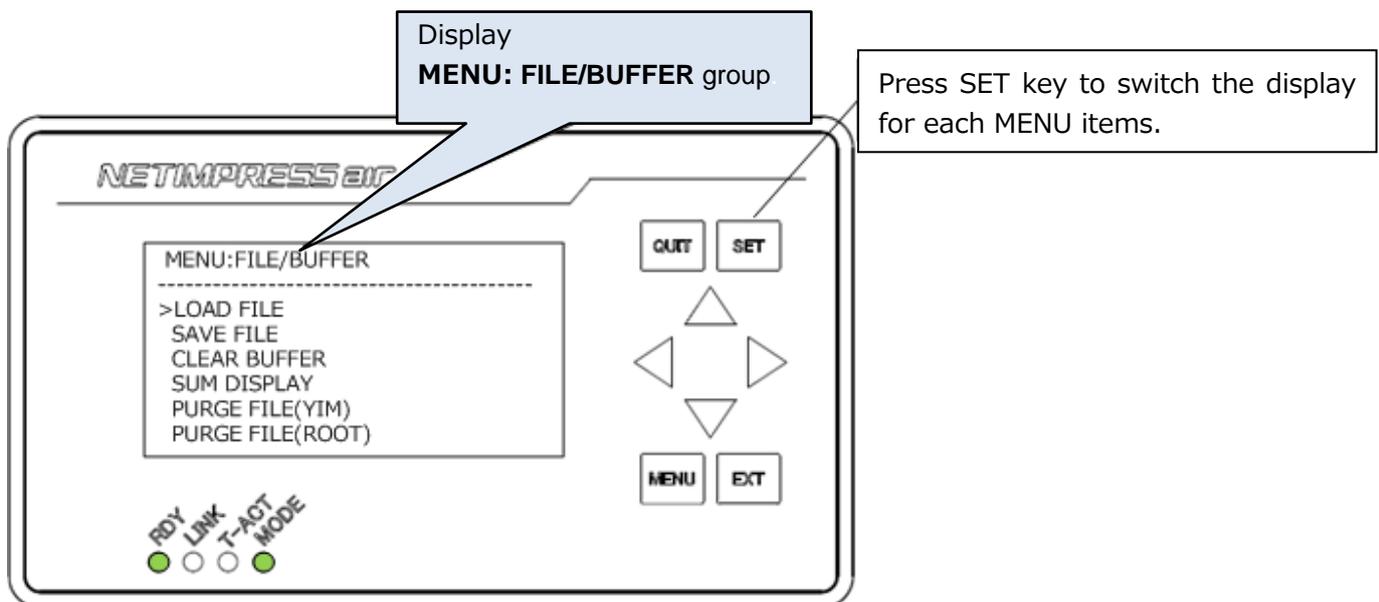
Load the file saved in the current folder into the buffer memory. The following formats are supported: the binary, Intel HEX, and Motorola S format.

In this operation, you can change the programming data with saving the object data into the current folder.

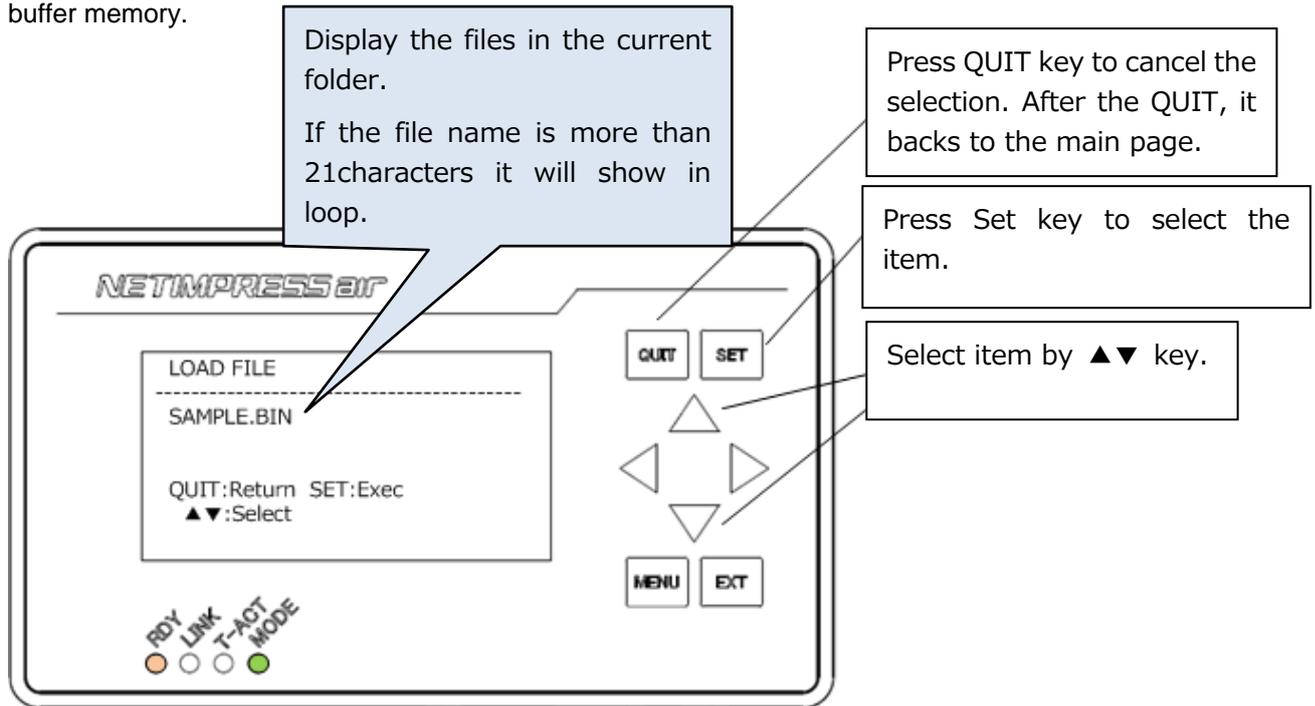


The selection of current folder is not made, it results in an error.

(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **LOAD FILE**, and then press the **SET** key.



(2) Select a file in the current folder using the arrow key. Press the SET key to execute loading the file to the buffer memory.



7.4.7. Saving data in buffer memory to file

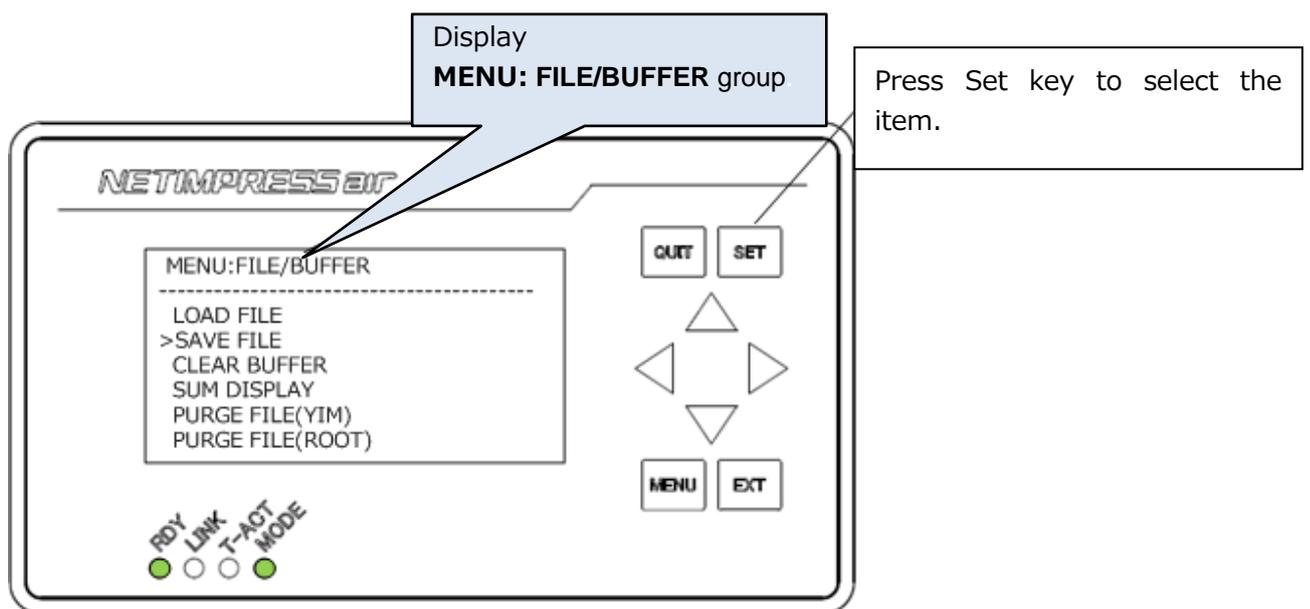
Save the data in the buffer memory to the file in current folder.

This is used for making a backup of the buffer memory.



The selection of current folder is not made, it results in an error.

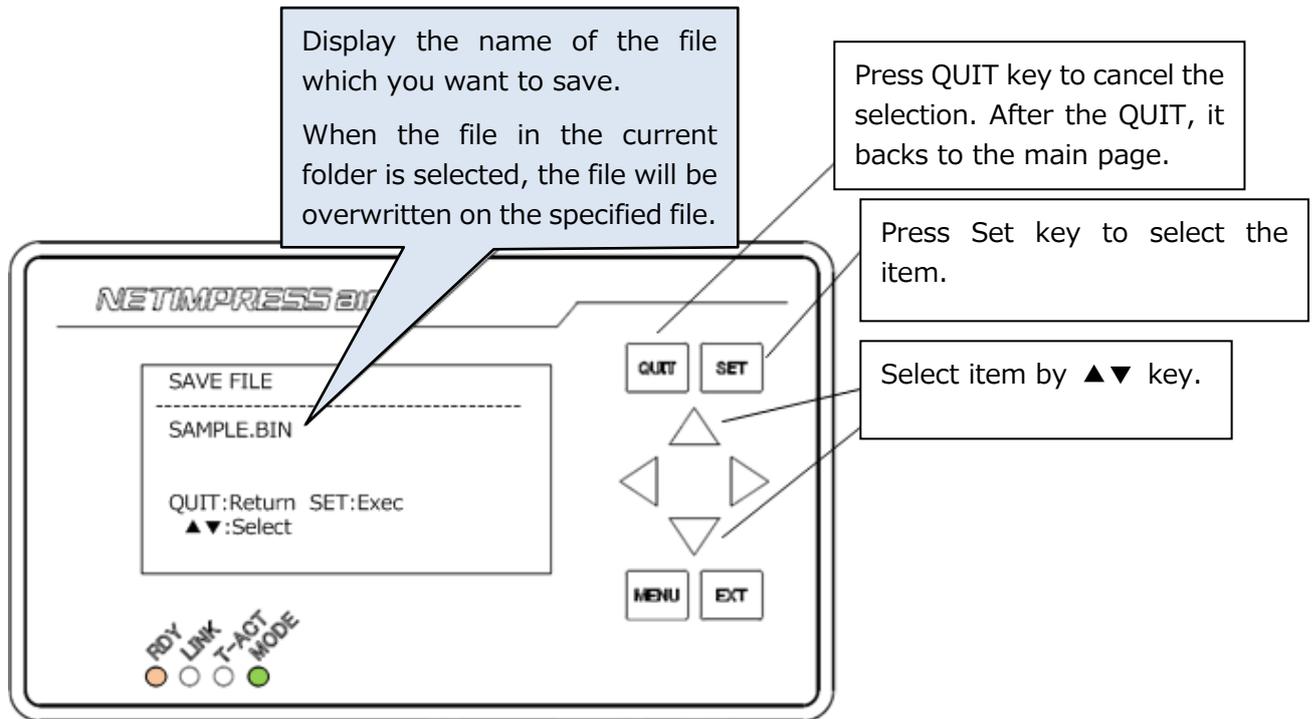
(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **SAVE FILE**, and then press the **SET** key.



(2) Select a file of destination to save using with arrow key. Press the SET key to read out the information from the buffer memory, and the information is saved into the specified file.

When you select the file in the current folder, the data is saved in the same format to the selected file, such as Motorola S, intel HEX and binary. (Automatic identification: Motorola S → S file / intel HEX → HEX file / the others → the binary)

When you select the file name, such as RAMxxx.BIN, RAMxxx.S, RAMxxx.HEX, the file is created and saved with the specified name.



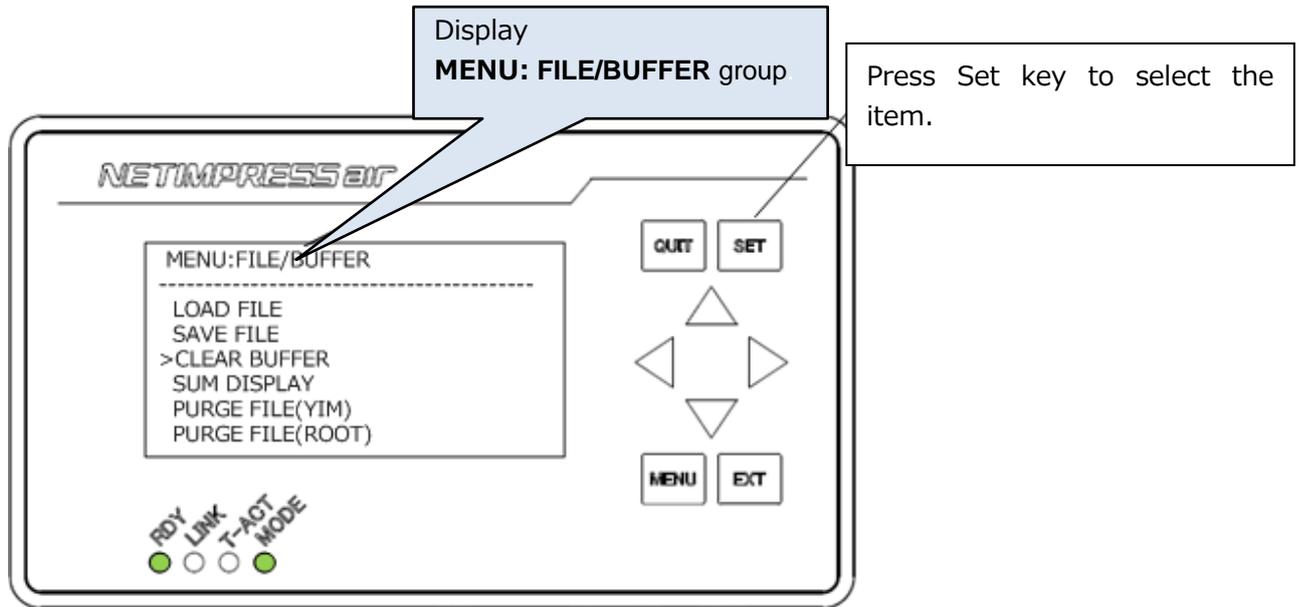
7.4.8. Clear buffer memory

Rewrite all the data of buffer memory into 0xFF.

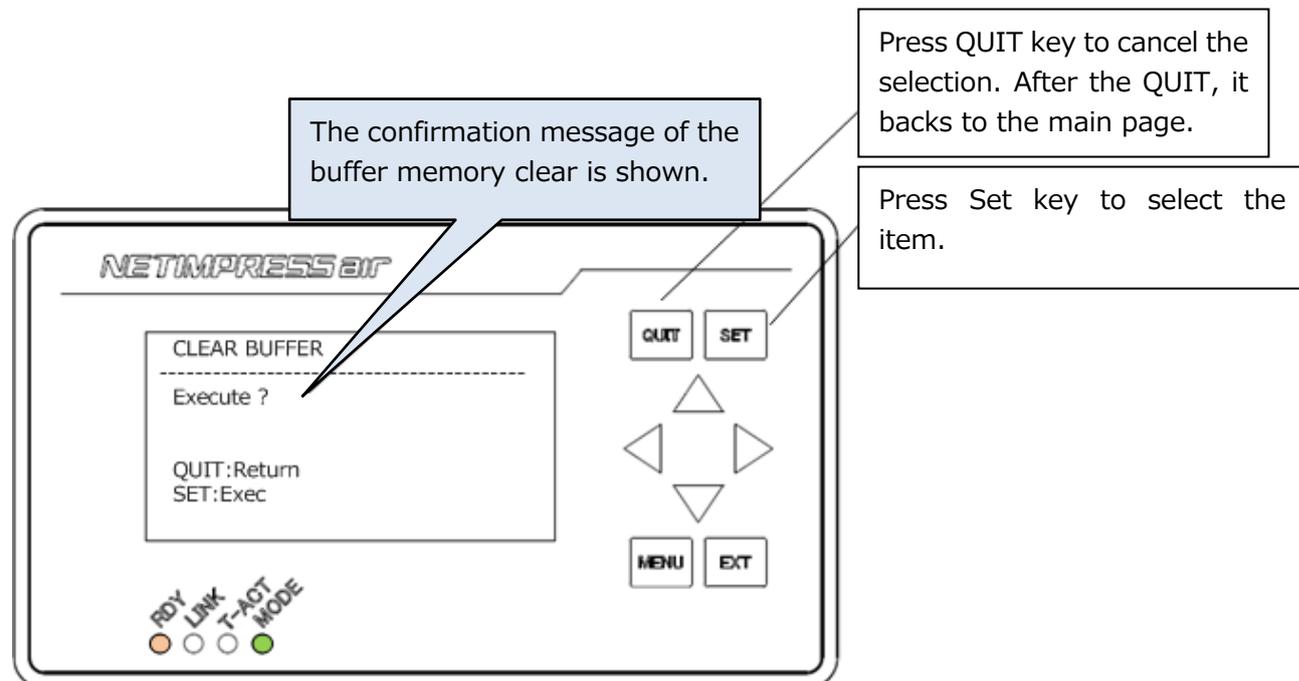
The previous buffer memory is cleared for setting the new data to the buffer memory.

! The selection of current folder is not made, it results in an error.

(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **CLEAR BUFFER**, and then press the **SET** key.



(2) Press the **SET** key to clear the information of the buffer memory.



7.4.9. Outputting the SUM value calculation

Execute the SUM value calculation of the buffer memory, and then output to show the result on the LCD. The SUM calculation method and the output setting for LCD can be changed by the setting of parameter for SUM calculation/display.

Display the SUM value of the area for the target action and the buffer memory.



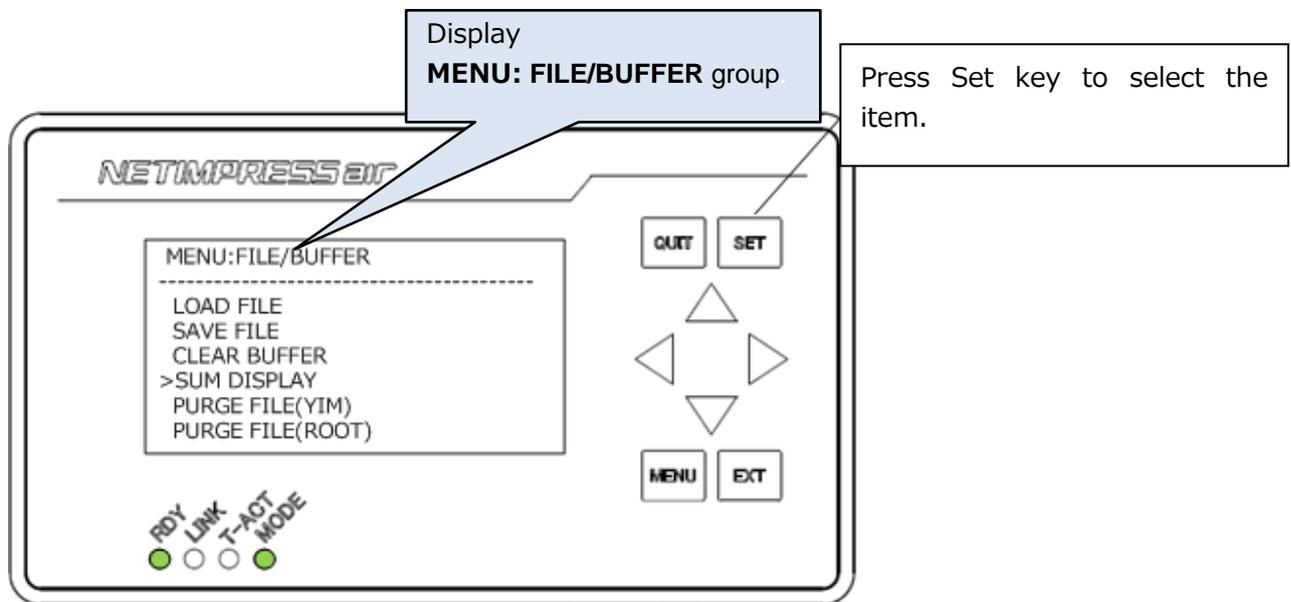
The selection of current folder is not made, it results in an error.

When the SUM value of the target action and the buffer memory are not matched, the setting of the area for the target action and the buffer memory may differ.

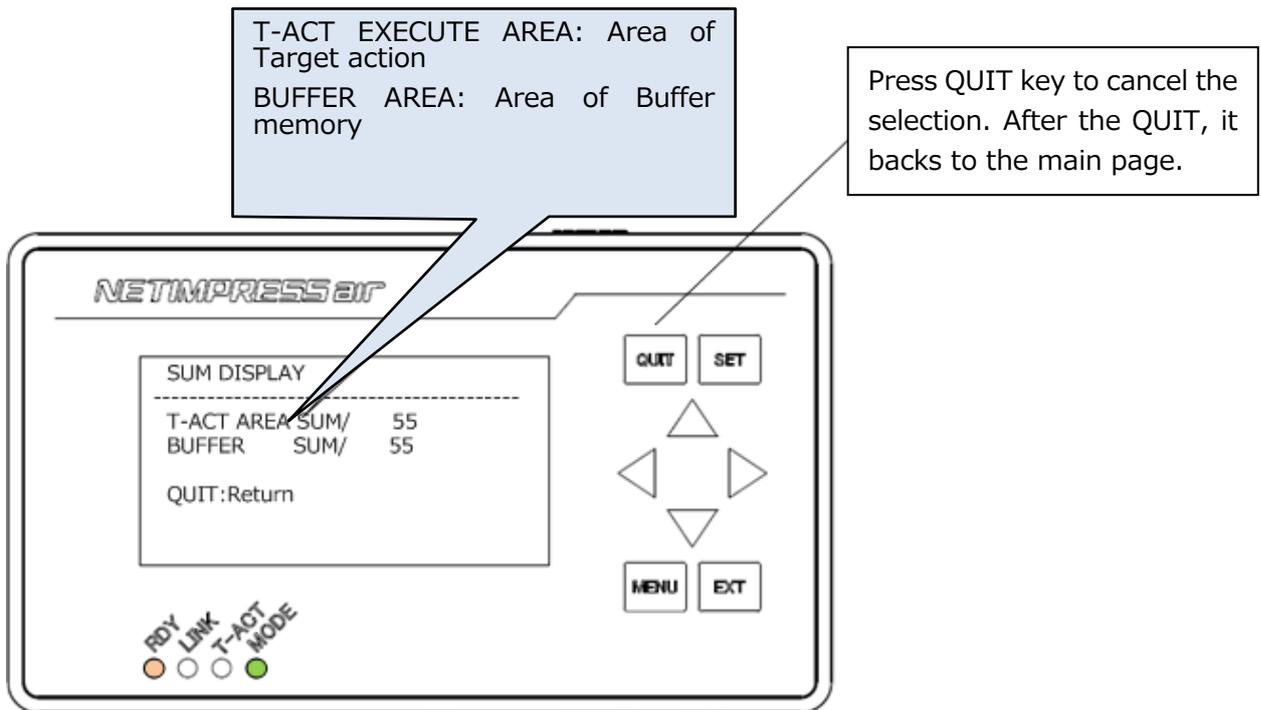


See Chapter 7.4.14 for changing the parameter of SUM value calculation/display.

(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **SUM DISPLAY**, and then press the **SET** key.



(2) Execute the SUM value, and then display the result.



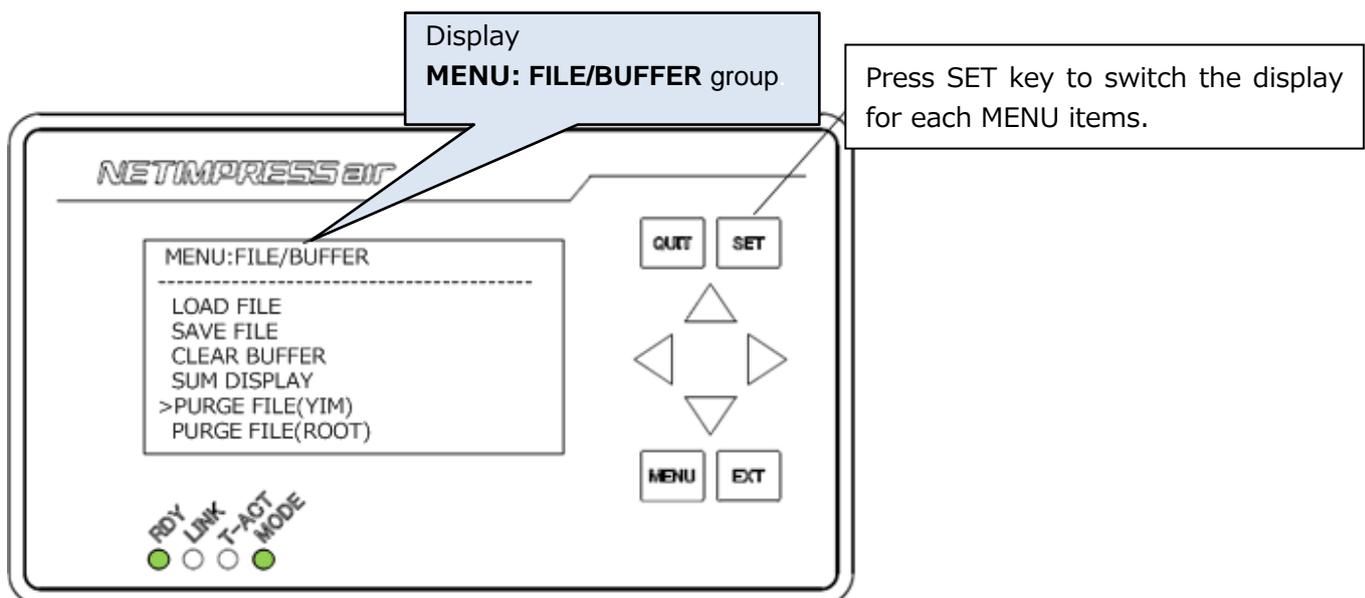
7.4.10. Deleting file in current folder

Delete a file in the folder selected the current folder.

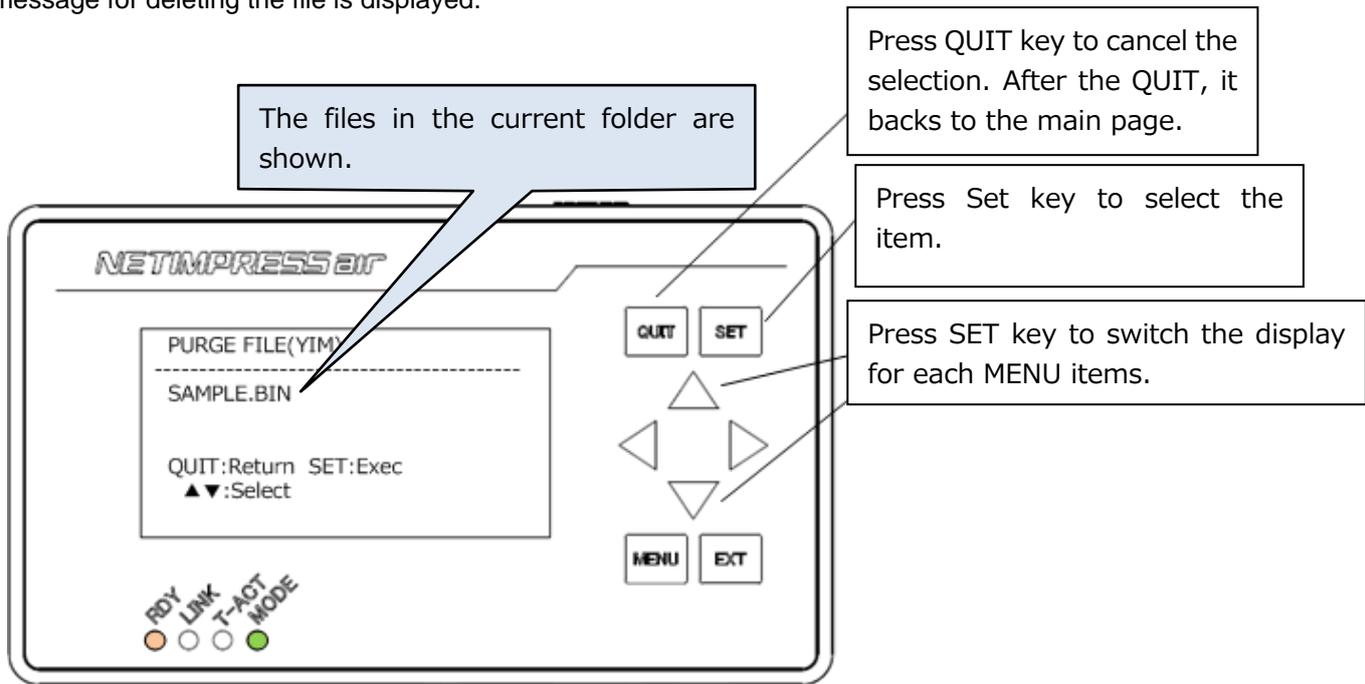


The selection of current folder is not made, it results in an error.

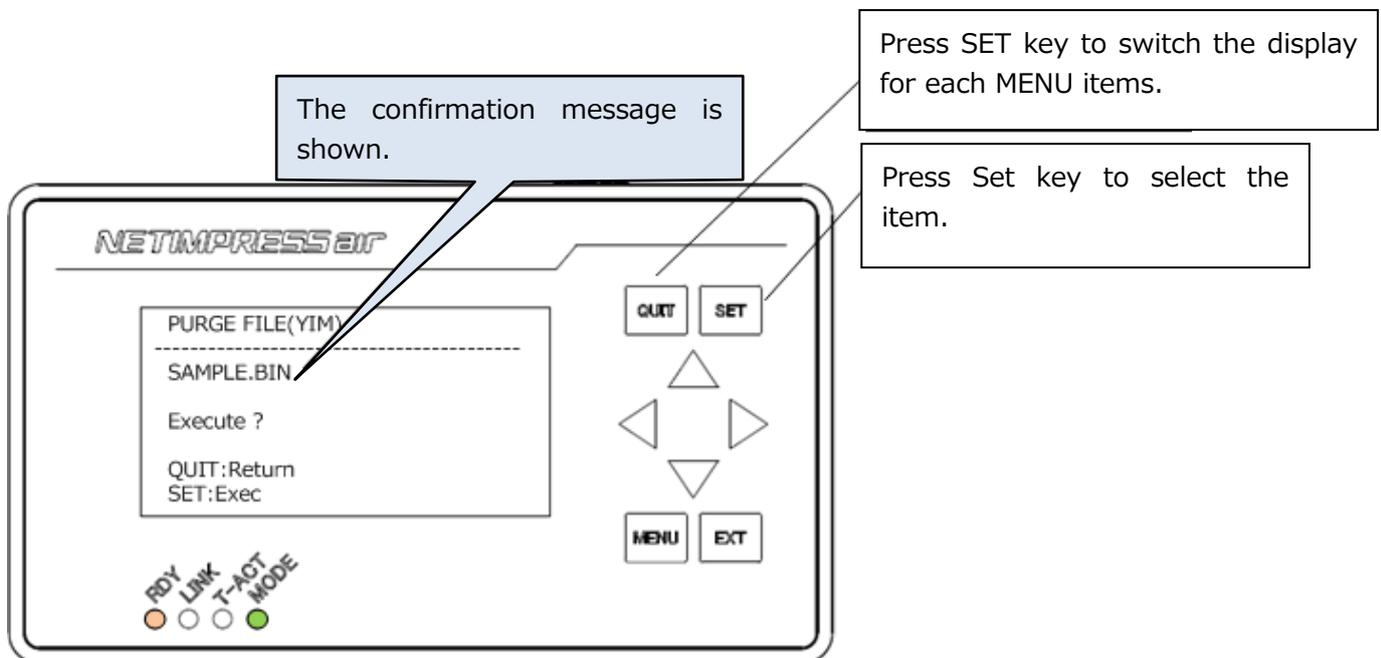
(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **PURGE FILE(YIM)**, and then press the **SET** key.



(2) Select a file in the current folder using the arrow key. Press the **SET** key, and then the confirmation message for deleting the file is displayed.



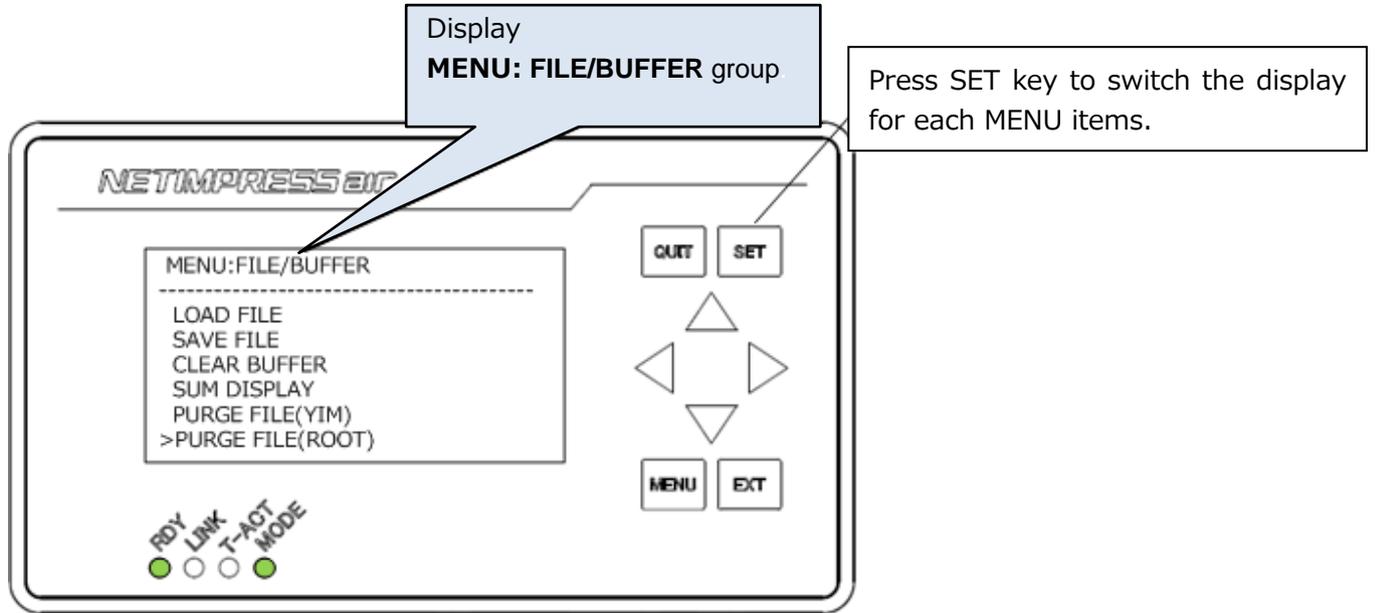
(3) Press the **SET** key again to execute deleting the file.



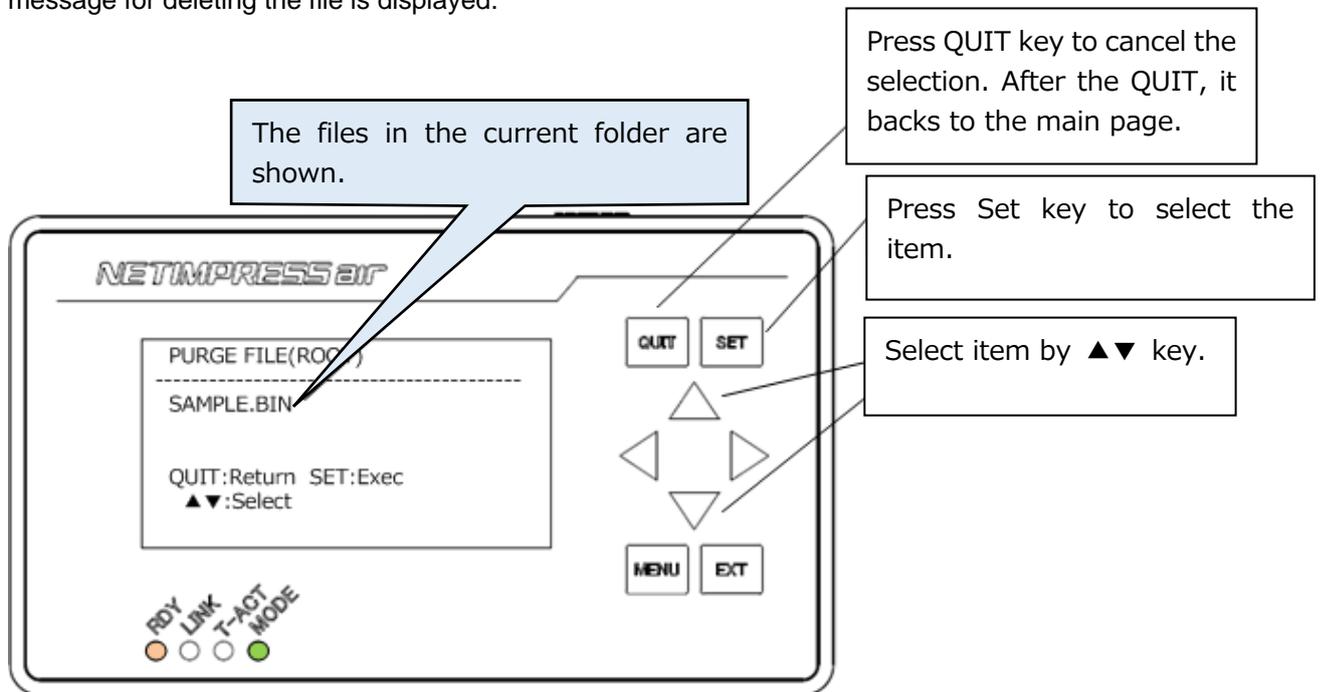
7.4.11. Deleting file on root directory

Delete the file on the root directory of SD card.

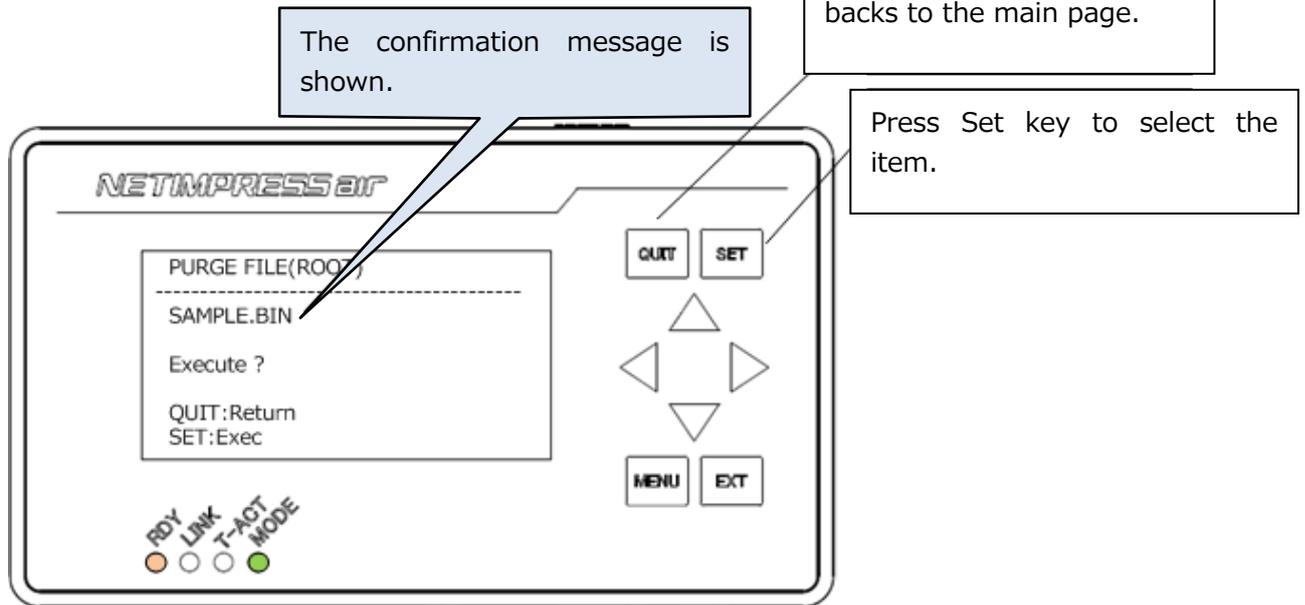
(1) Display the **MENU:FILE/BUFFER** group. Set the cursor to **PURGE FILE(ROOT)**, and then press the **SET** key.



(2) Select a file in the current folder using the arrow key. Press the **SET** key, and then the confirmation message for deleting the file is displayed.



(3) Press the **SET** key again to execute deleting the file.



7.4.12. Saving parameter in current folder

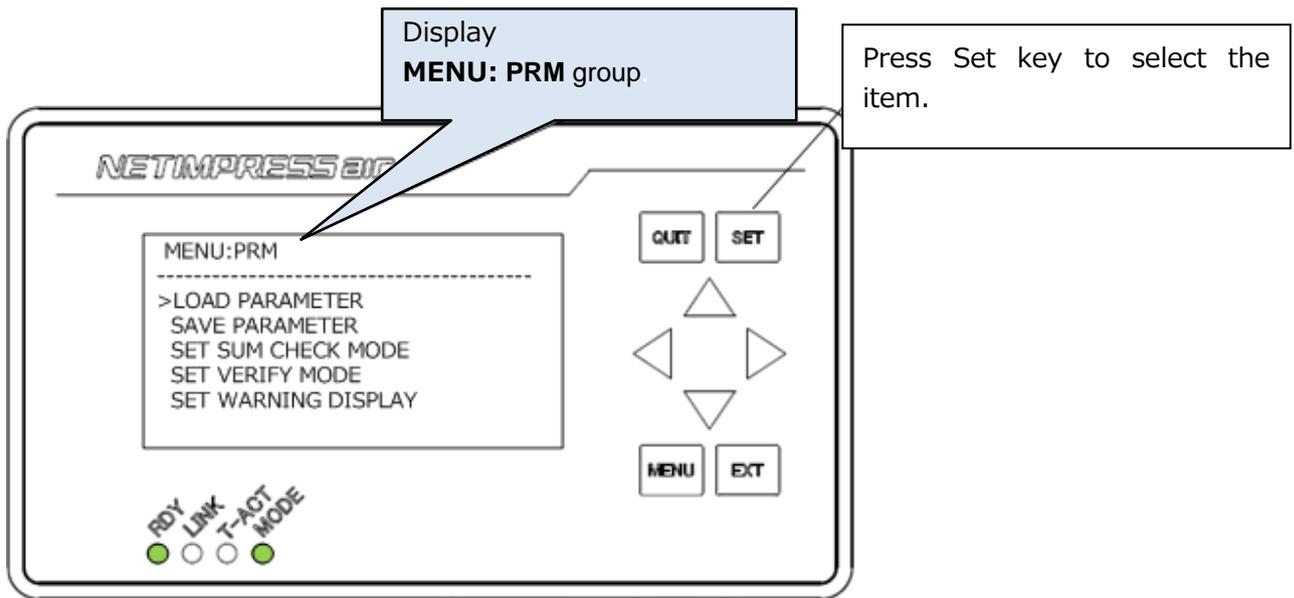
Modify the parameter of current folder. By placing the modified parameter in the current folder, the information of the current folder can be changed from NETIMPRESS air as a stand-alone.



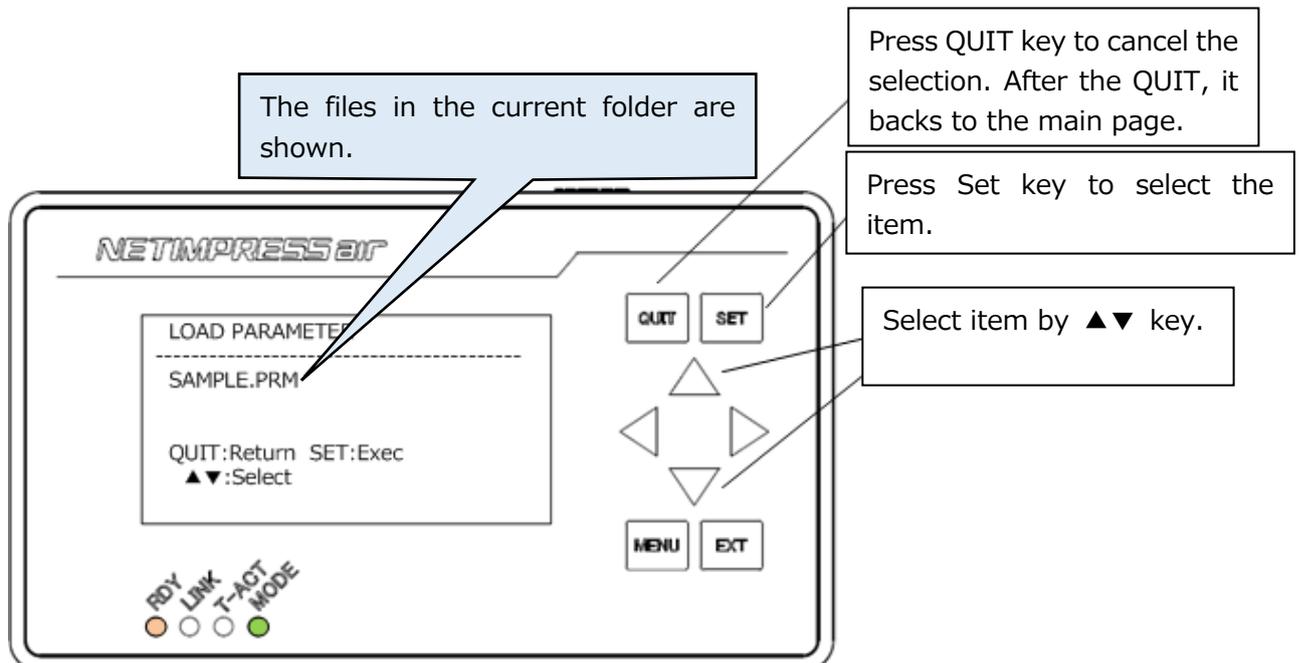
The selection of current folder is not made, it results in an error.

When load the parameter file in Micom-pack which differs from the parameter file currently loaded, the buffer memory clear may execute.

- (1) Display the **MENU:PRM** group. Set the cursor to **LOAD PARAMETER**, and then press the **SET** key.



- (2) Select a file in the current folder using the arrow key. Press the **SET** key to change the setting of PRM file.



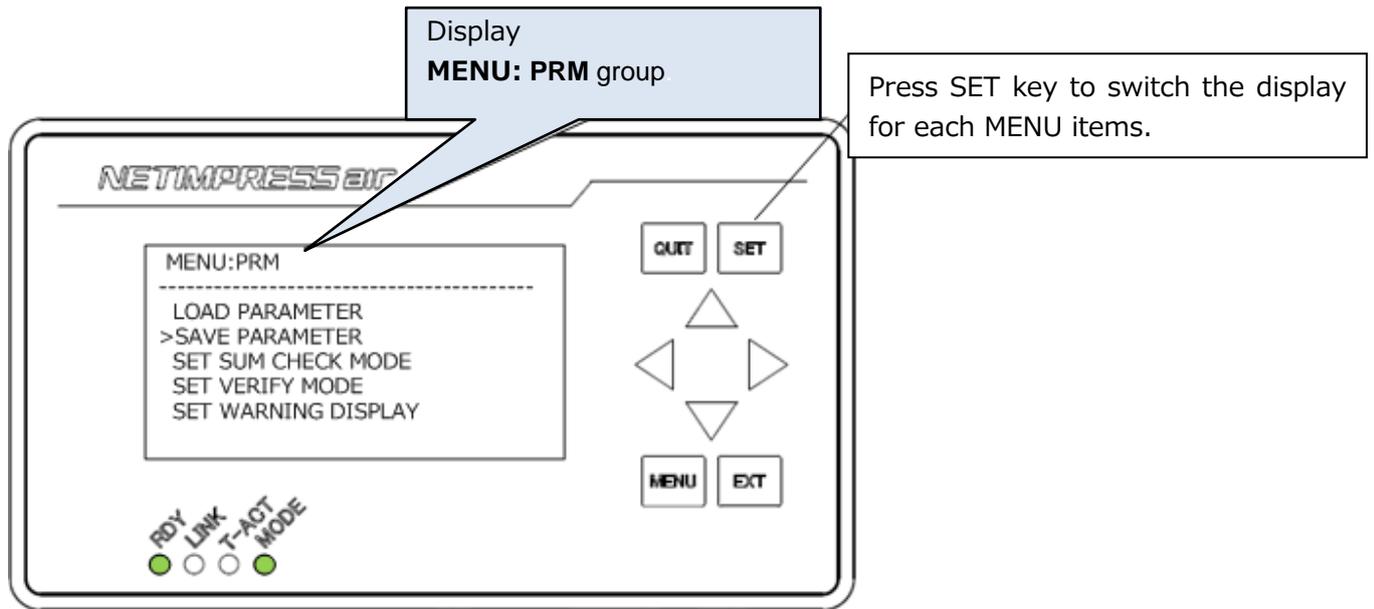
7.4.13. Saving parameter in current folder

Back up the parameter saved in the current folder.

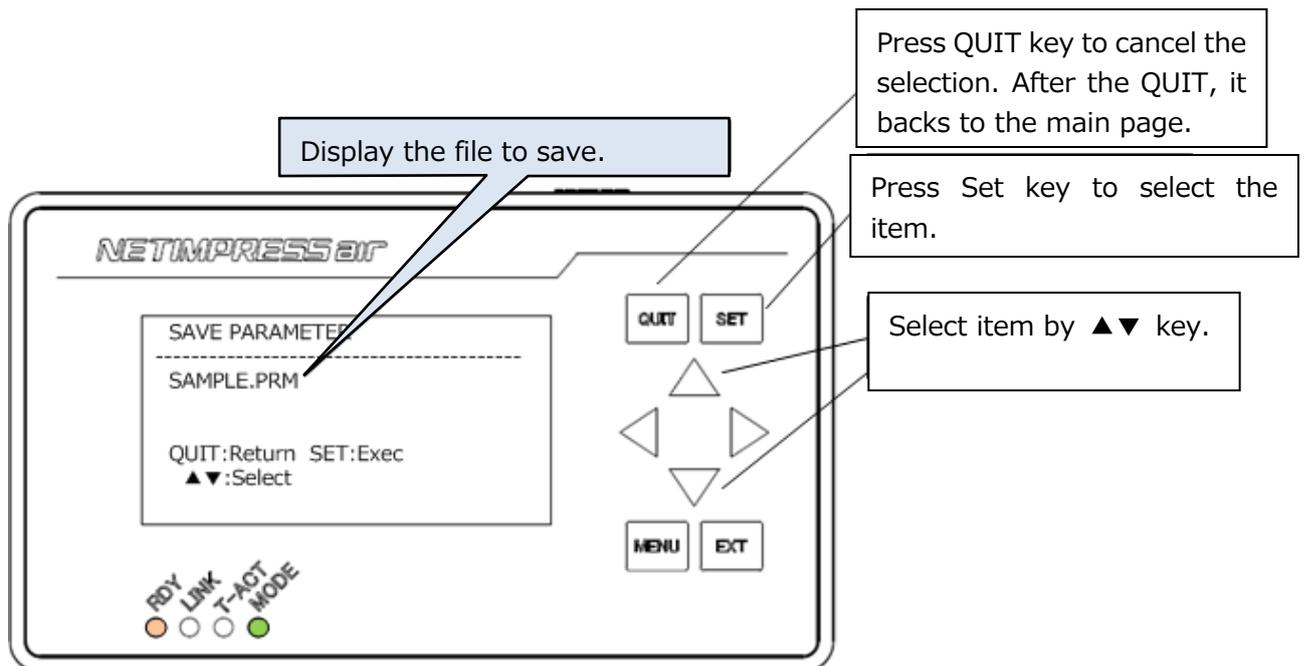
! When you select PRM file placed in the current folder, the selected file overwrite the current folder.

The setting of the current folder is not made, it results in an error.

(1) Display the **MENU:PRM** group. Set the cursor to **SAVE PARAMETER**, and then press the **SET** key.



(2) Select a file in the current folder using the arrow key. Press the **SET** key to execute saving the selected file to PRM file. When you chose the greatest number for the file name, a new file is created and saved. The file name is shown as RAMxxx.PRM(xxx means the number).



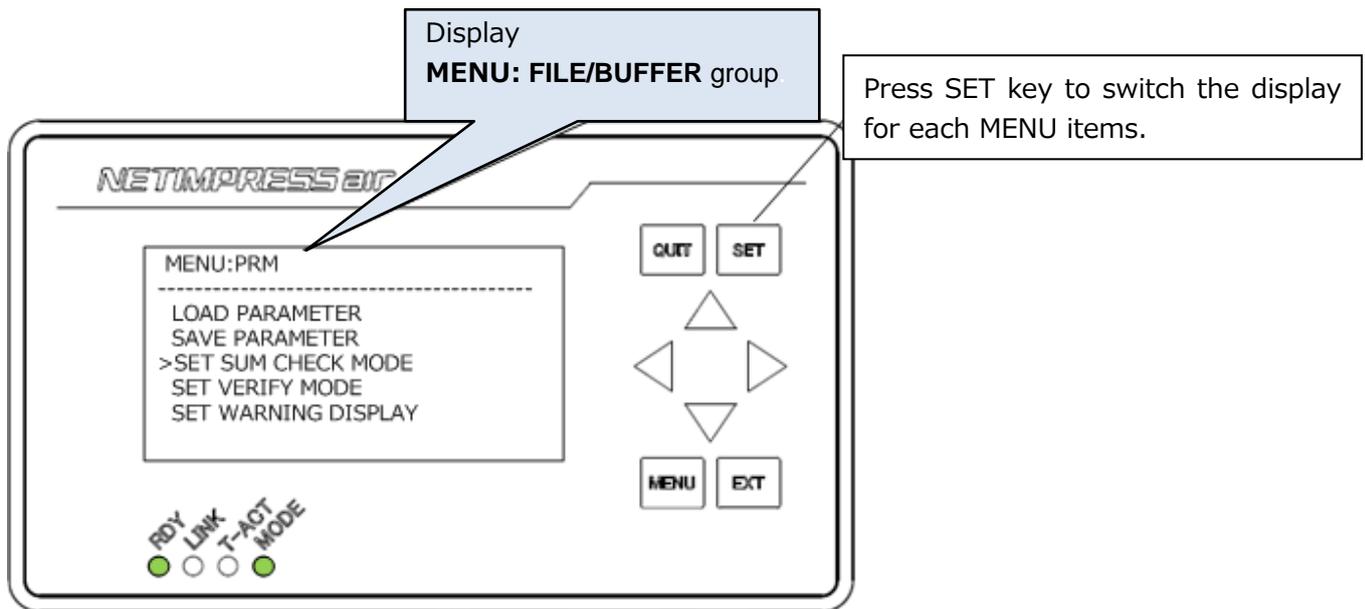
7.4.14. Changing the SUM calculation/display

Change the check SUM calculation and display method of the calculation results when following operation is executed.

- When the **INFORMATION YIM** is executed from the **FOLDER** group on the **MENU**.
- When the **SUM Check** is executed from AZ990 (NETIMPRESS air Connect).
- When the target action is executed.

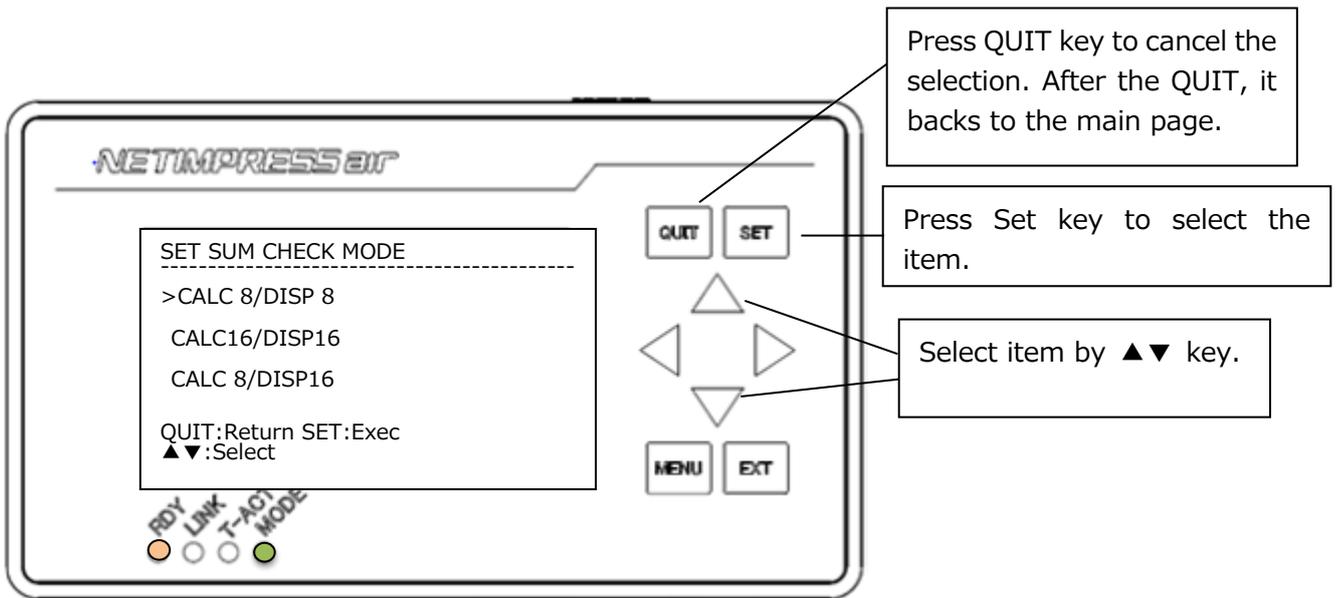
! The selection of current folder is not made, it results in an error.

(1) Display the **MENU:PRM** group. Set the cursor to **SET SUM CHECK MODE**, and then press the **SET** key.



(2) Select an item using the arrow key. Press the SET key to execute selected item.

CALC 8 / DISP 8	<ul style="list-style-type: none"> ● Calculate SUM value with 8bit addition ● Display in 8bit
CALC 16 / DISP 16	<ul style="list-style-type: none"> ● Calculate SUM value with 16bit addition ● Display in 16bit
CALC 8 / DISP 16	<ul style="list-style-type: none"> ● Calculate SUM value with 8bit addition ● Display in 16bit



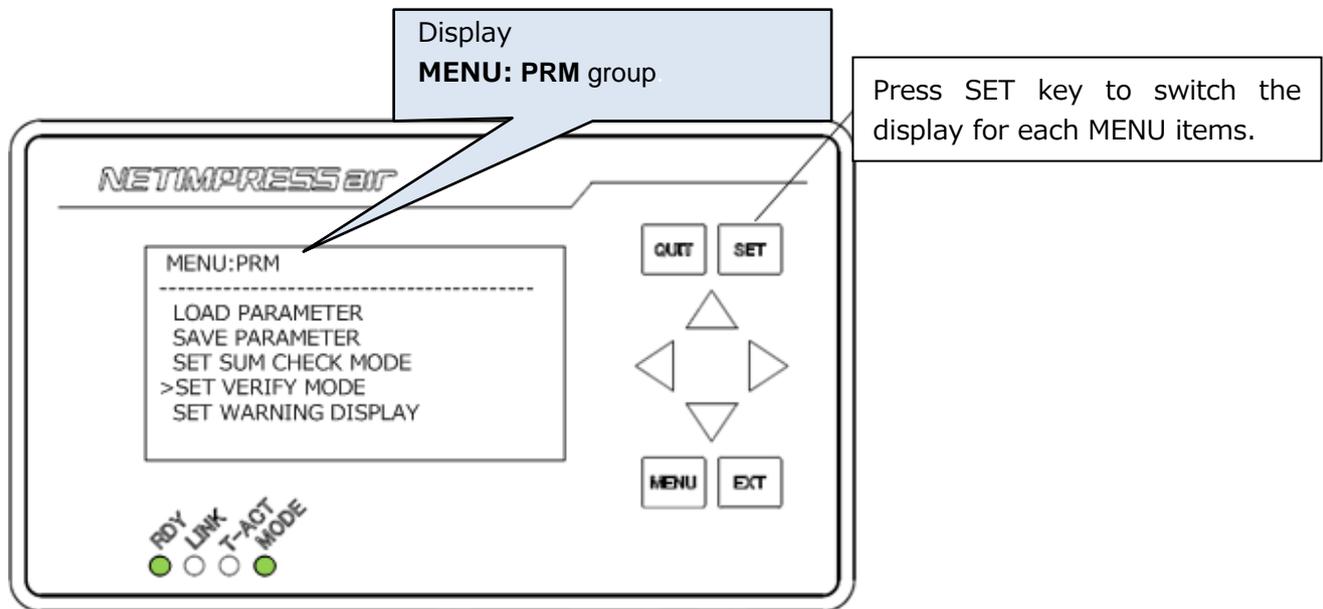
7.4.15. Change verify mode

Change the mode of the verify when executing verify during the target action.

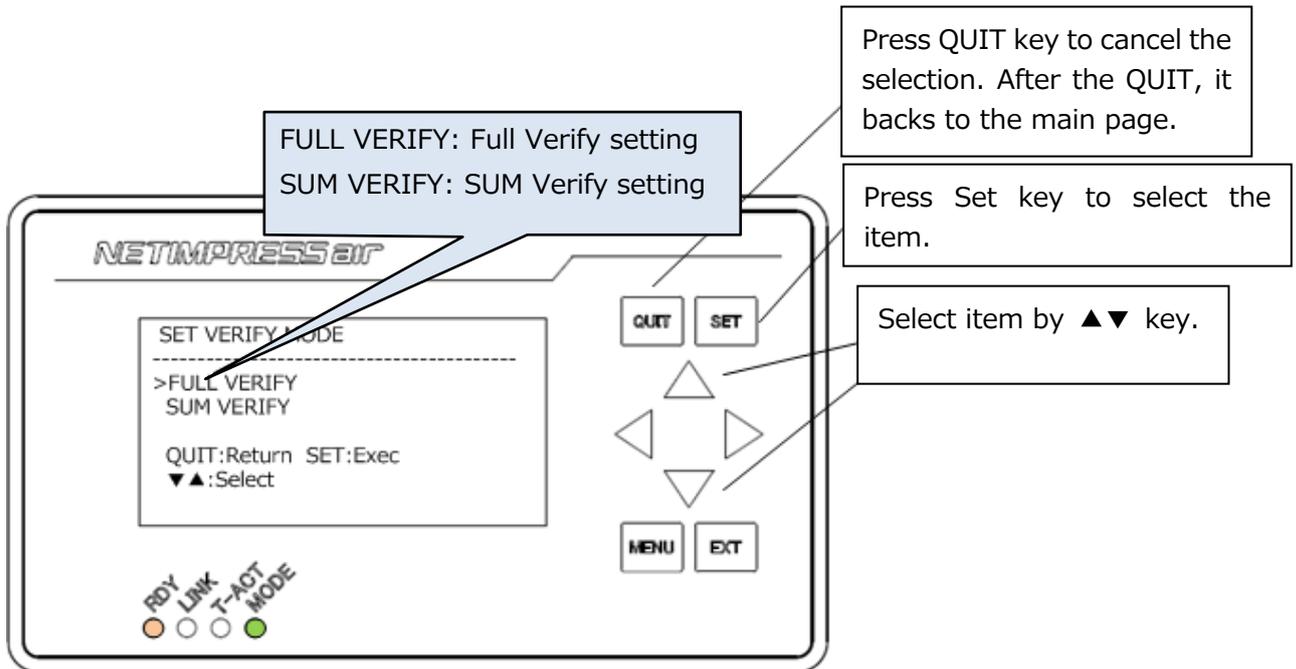
Choose one of the following: **FULL VERIFY**, **SUM VERIFY**

Verify	<ul style="list-style-type: none"> ● Check the programmed data by reading out from the target flash ROM. ● Full-verify: Execute compare all the read out ROM data and programed data in the buffer memory of the current folder. ● SUM-verify : Compare SUM value of read out ROM data and SUM value of data in the buffer memory.
--------	---

(1) Display the **MENU:PRM** group. Set the cursor to **SET VERIFY MODE**, and then press the **SET** key.



- (2) Select an item using the arrow key.
- (3) Press the **SET** key to execute selected item.



7.4.16. NO/OFF the warning message

NETIMPRESS air has a function to show the warning message when the situation is as follows. Set ON/OFF of output the warning message.

1. When the operation, which loading a data to an area other than the buffer memory area, is executed during downloading the data to the buffer memory.
2. When the following areas are different: the area of executing the target action and all area of hte device executed the target action.

(When the area of executing the target action is specified partial area programming.)



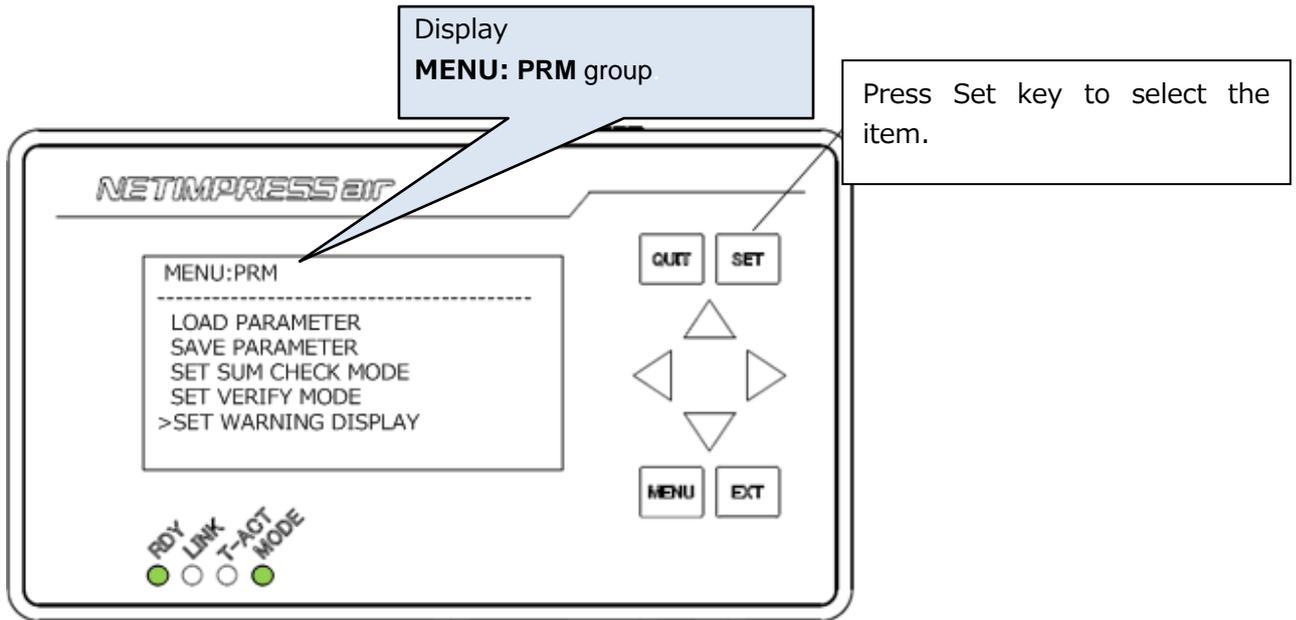
If **OFF** the setting of warning message, NETIMPRESS air does not output the warning message when the situation is as above.

The selection of current folder is not made, it results in an error.

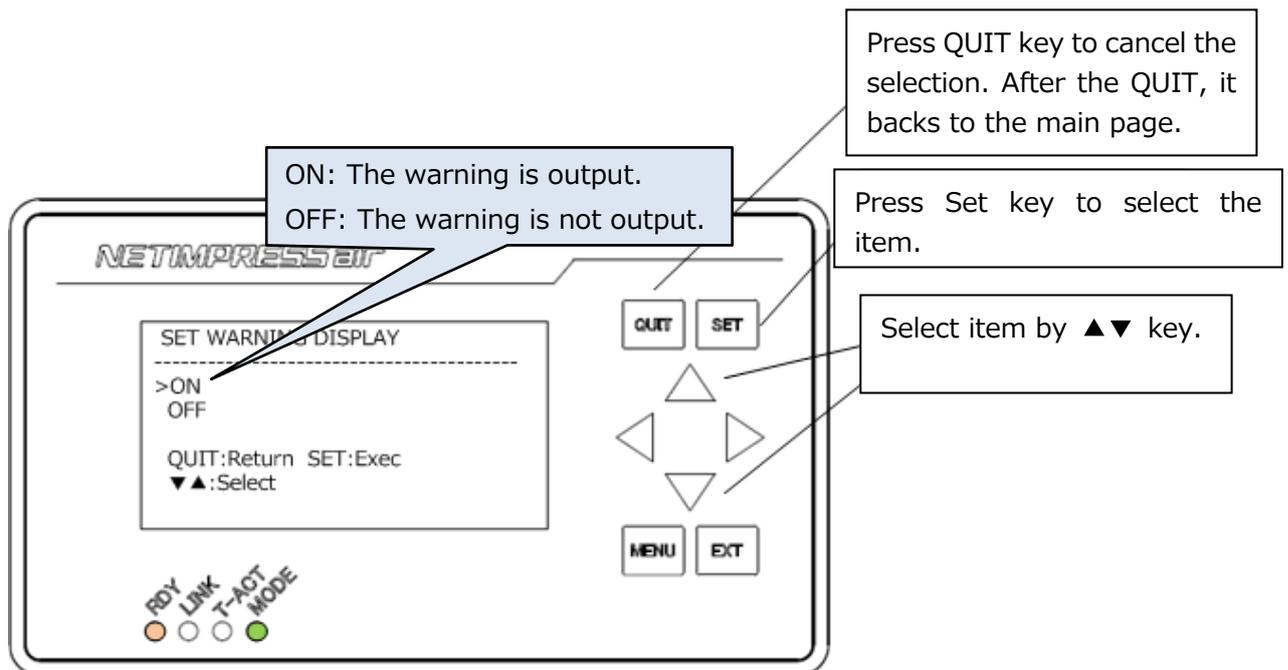


If **ON** the setting of warning message, the warning is output when the setting area of the target action is partial and the downloaded object data include the data out of the buffer memory area.

(1) Display the **MENU:PRM** group. Set the cursor to **SET WARNING DISPLAY**, and then press the **SET** key.

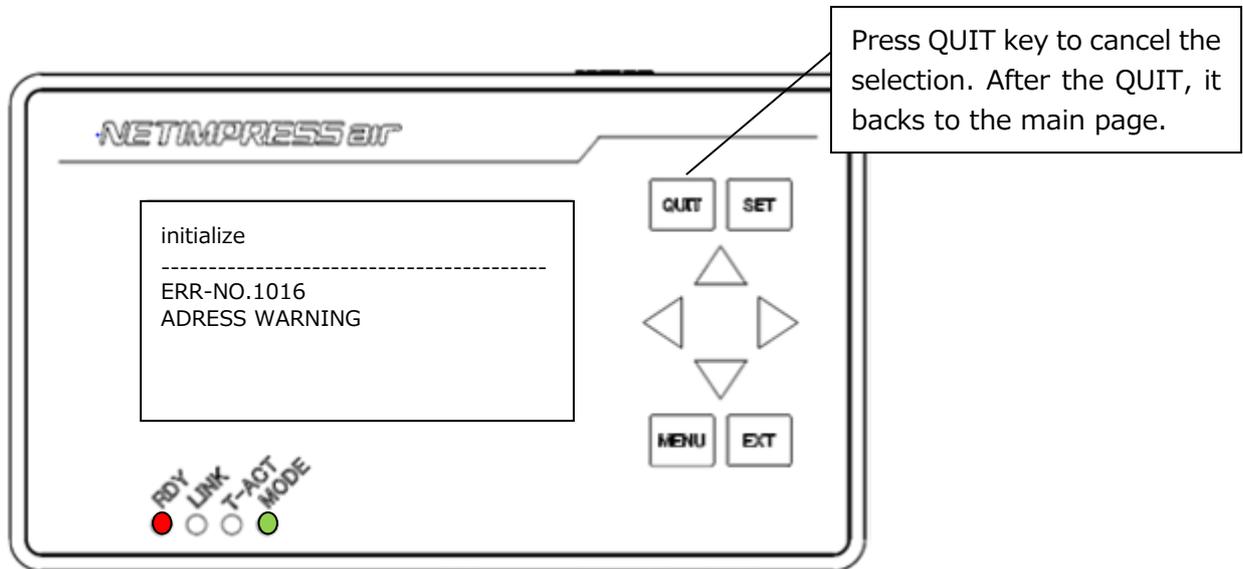


(2) Select an item using the arrow key, and press SET key.

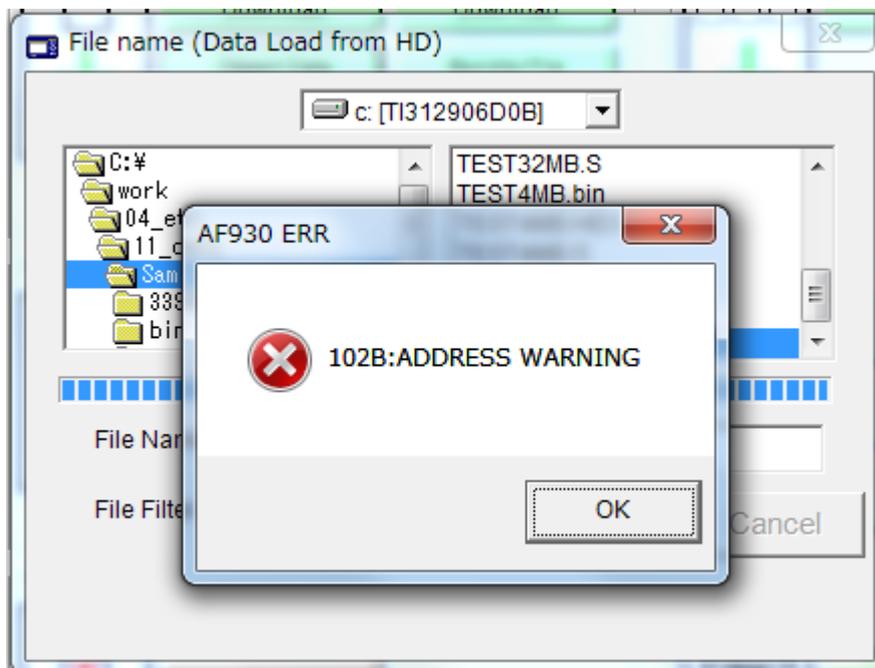


※ When the warning is set to ON

When the area for executing the target action, set to the current folder, is specified the partial area, the warning message is shown at starting-up check of NETIMPRESS air.



When the object data, downloaded via AZ990, is out of the buffer area, the warning message is shown.



7.4.17. NO/OFF execution log setting

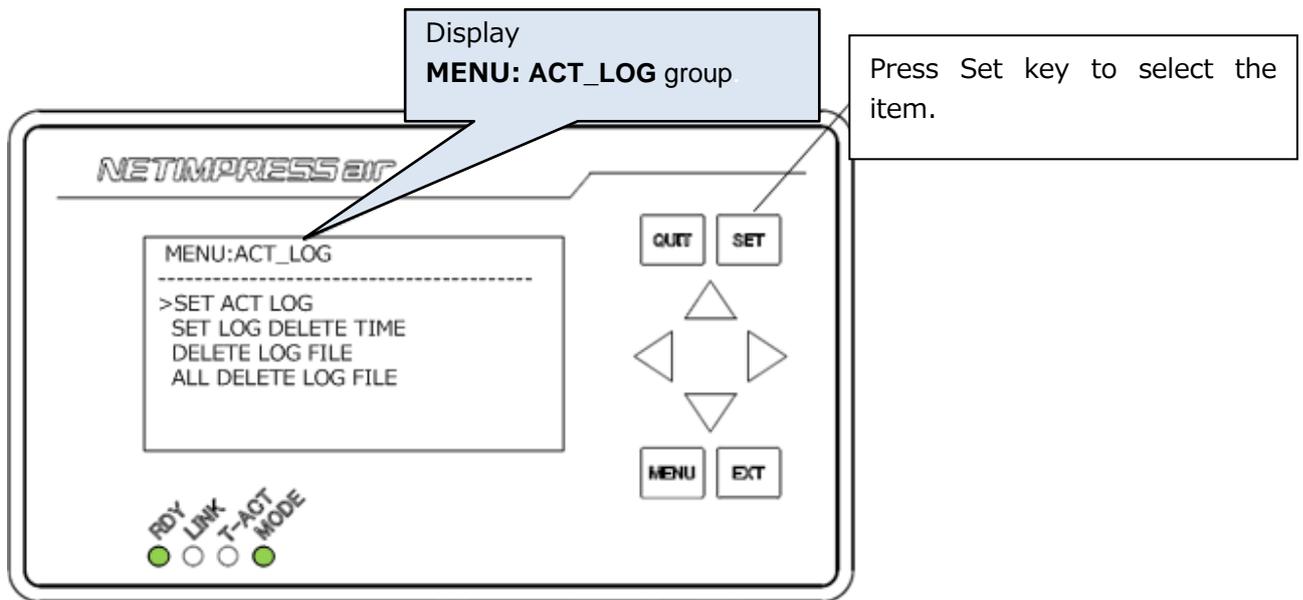
NETIMPRESS air has a function to output the data of executing target action as a log file. Set this function **ON** to save the executed command and results as a log.

If the setting is **OFF**, the log is not saved.



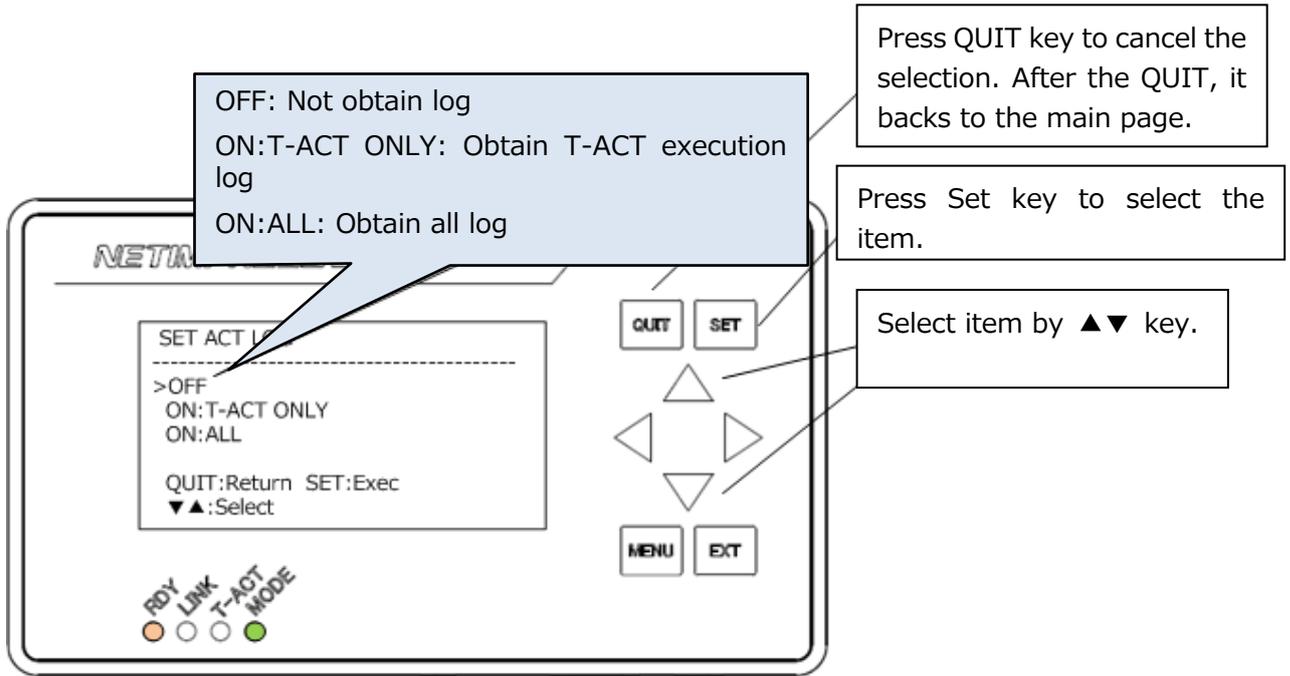
When the setting is **ON**, the access to the SD card for saving log data is increased. It takes time to access a file depend on how many log files are saved in NETIMPRESS air. In such case, after the previous operation, it may take time to execute the next operation.

(1) Display the **MENU:ACT_LOG** group. Set the cursor to **SET ACT LOG**, and then press the **SET** key.



(2) Select an item using the arrow key. Press the **SET** key to execute selected item.

OFF	<ul style="list-style-type: none"> ● Log is not obtained.
ON:T-ACT ONLY	<ul style="list-style-type: none"> ● Save the execution log only for the target action.
ON:ALL	<ul style="list-style-type: none"> ● Save all results of the function which can be executed by NETIMPRESS air.



7.4.18. Set how long execution log is retained

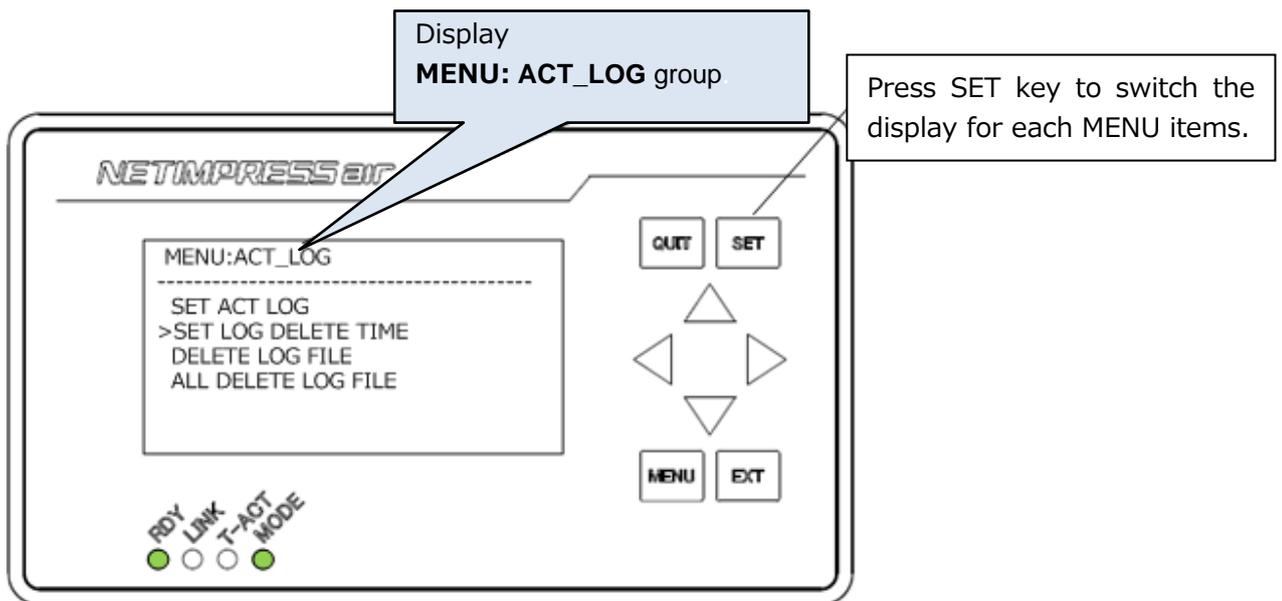
Set how long the execution log is retained. Delete the files automatically according to the setting.

Automatic deletion is executed when starting up NETIMPRESS air and creating a new log file.



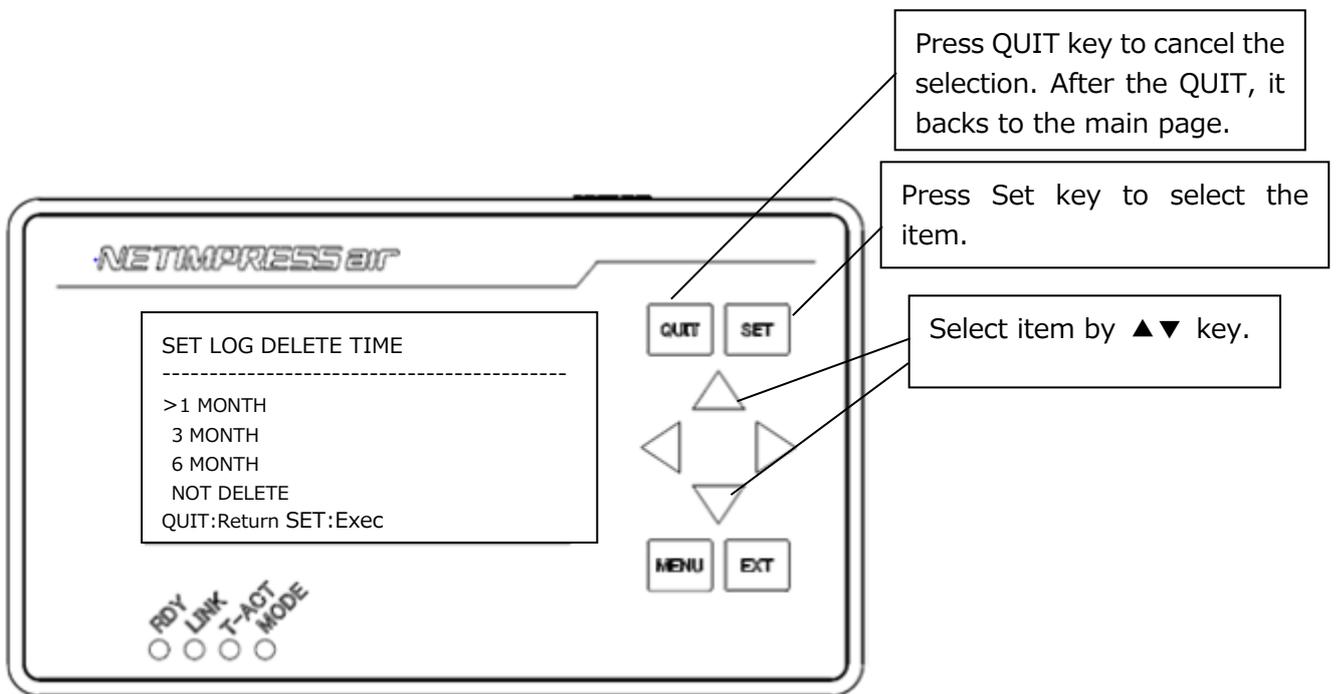
When this setting is ON, it may take time to be received response if there are many old log files in NETIMPRESS air.

(1) Display the **MENU:ACT_LOG** group. Set the cursor to **SET LOG DELETE TIME**, and then press the **SET** key.



(2) Select an item using the arrow key, and press SET key.

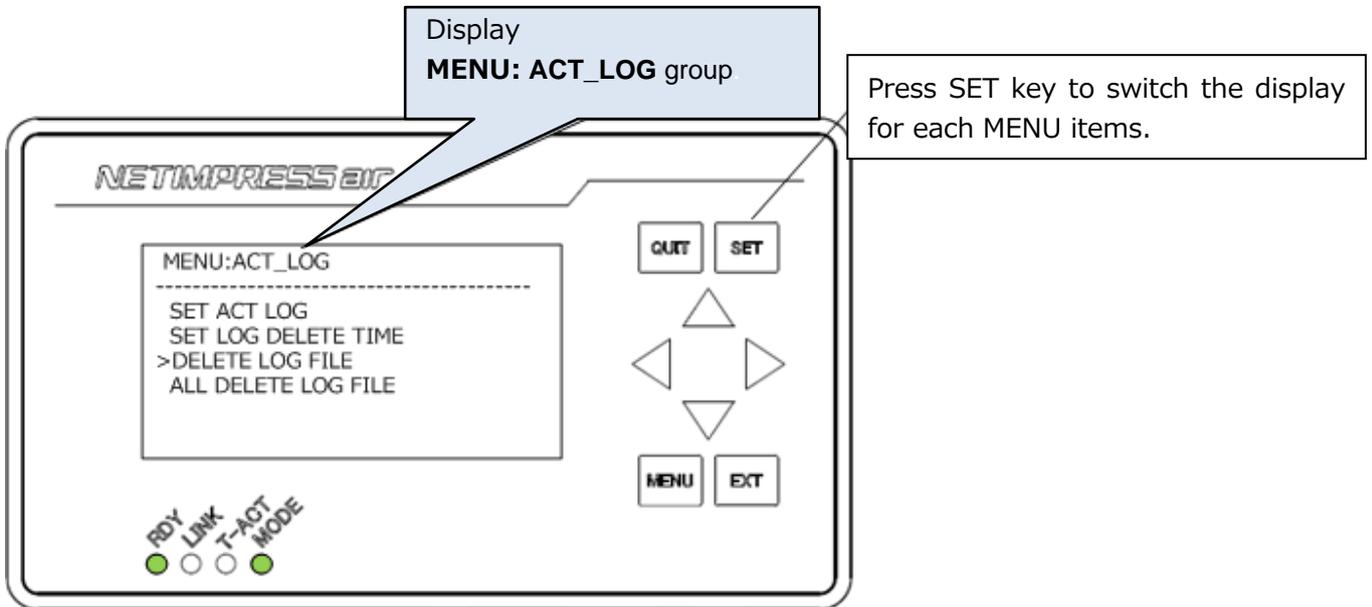
1 MONTH	<ul style="list-style-type: none"> Delete all log files which were created more than one month ago.
3 MONTH	<ul style="list-style-type: none"> Delete all log files which were created more than 3 months ago.
6 MONTH	<ul style="list-style-type: none"> Delete all log files which were created more than 6 months ago.
NOT DELETE	<ul style="list-style-type: none"> Not delete log files automatically.



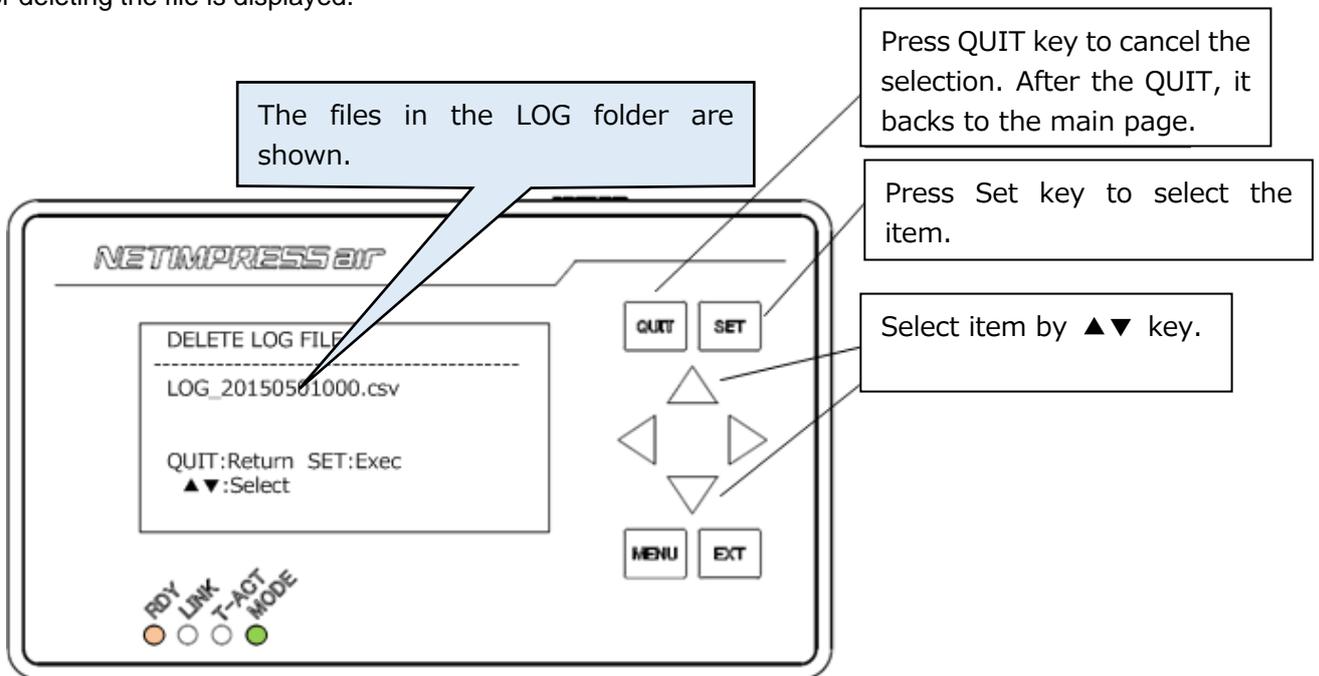
7.4.19. Deleting execution log file

Delete an executing log file.

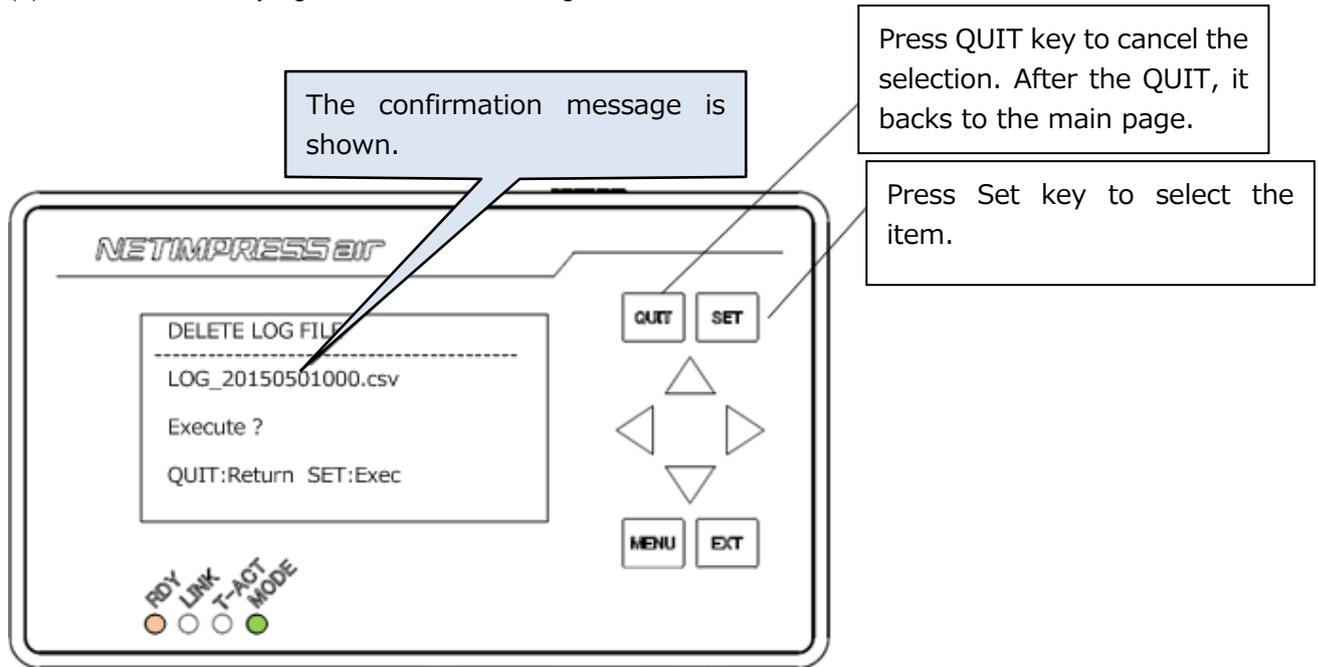
- (1) Display the **MENU:ACT_LOG** group. Set the cursor to **DELETE LOG FILE**, and then press the **SET** key.



- (2) Select a file in the LOG folder using the arrow key. Press the **SET** key, and then the confirmation message for deleting the file is displayed.



(3) Press the **SET** key again to execute deleting the file.

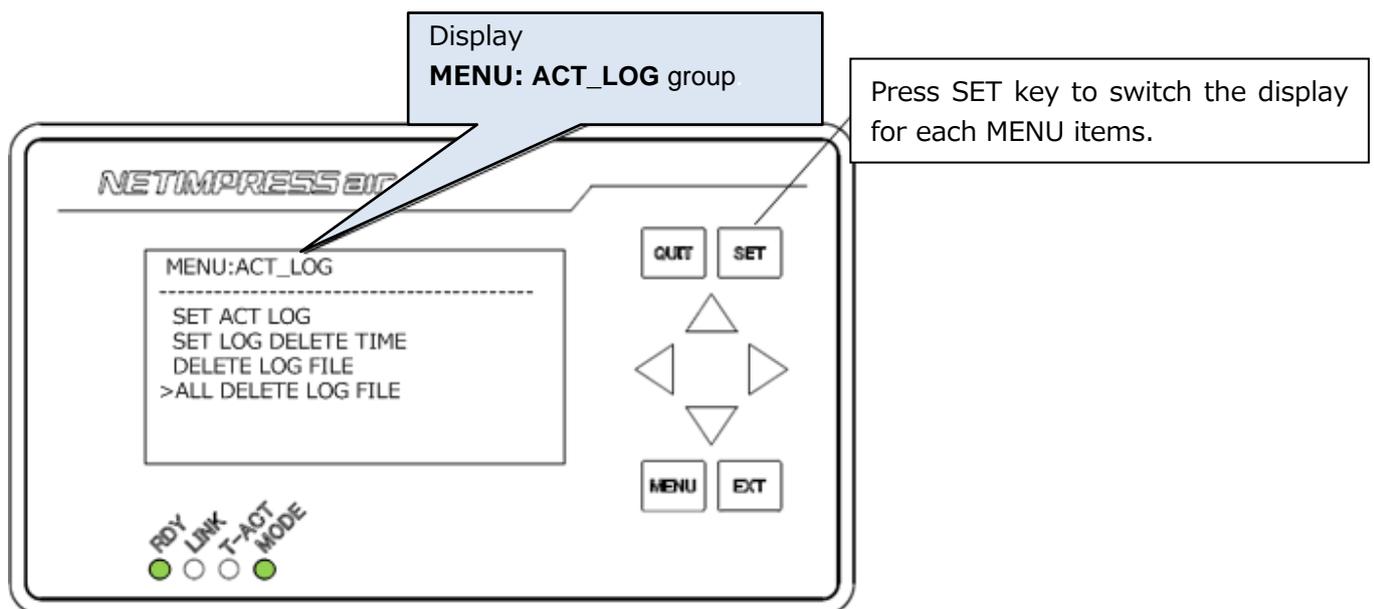


7.4.20. Deleting all execution log files

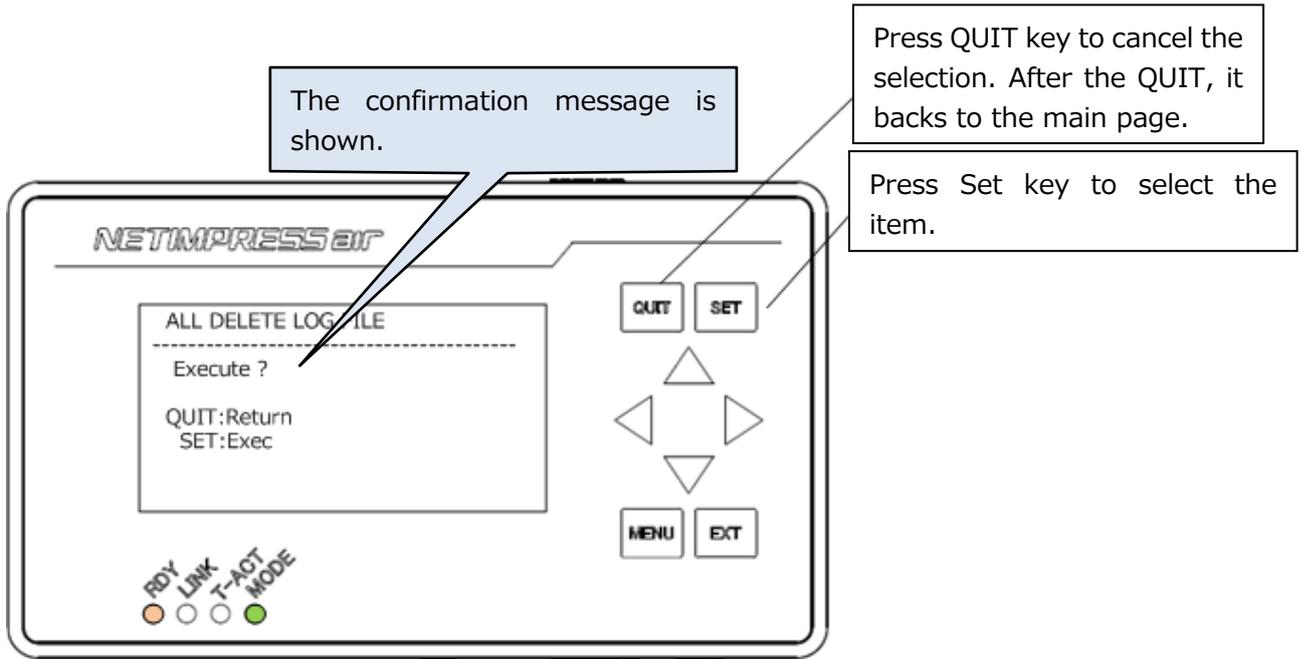
Delete all log files in the log folder.

! When the setting of obtaining log is **ON:ALL**, obtaining all data, and then a new log file is made after all log deletion. Therefore, after this action, a log file must exist in NETIMPRESS air/the SD card.

(1) Display the **MENU:ACT_LOG** group. Set the cursor to **ALL DELETE LOG FILE**, and then press the **SET** key.



(2) Press the **SET** key to execute selected item.



7.4.21. Adding definition program license

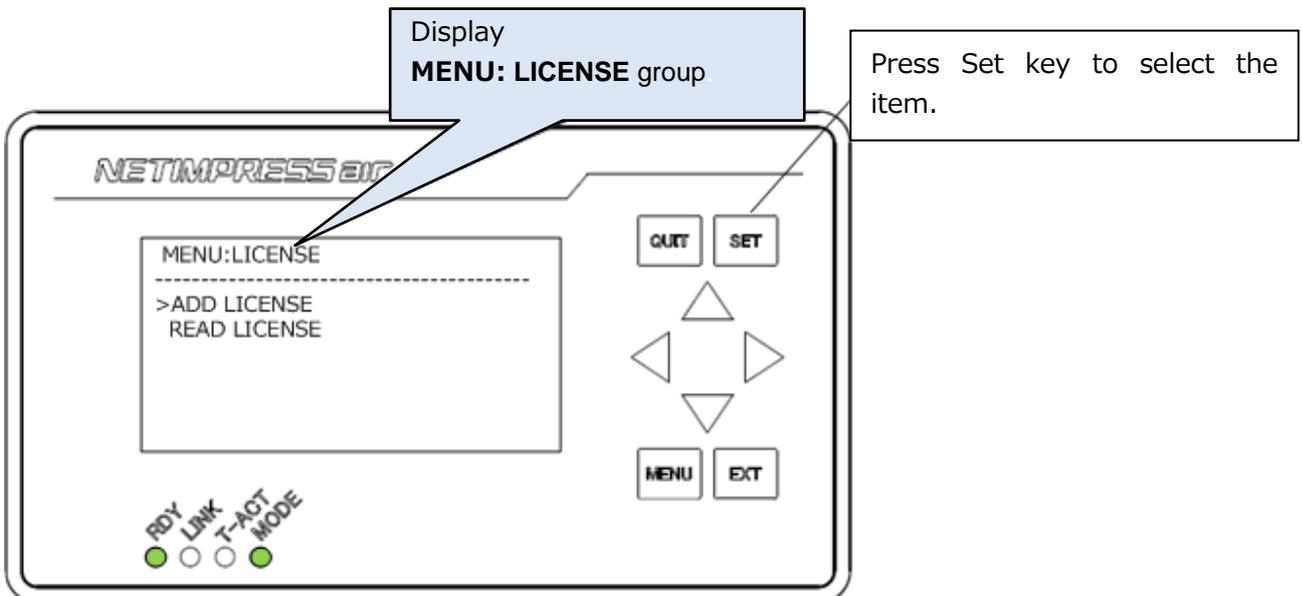
The definition program license can be added into the SD card, by executing this function placing the file with extension **.ALC** in the root directory of the SD card.

When two or more files (extension: ALC) exist in the root of SD card, all definition program licenses can be registered by executing this operation.

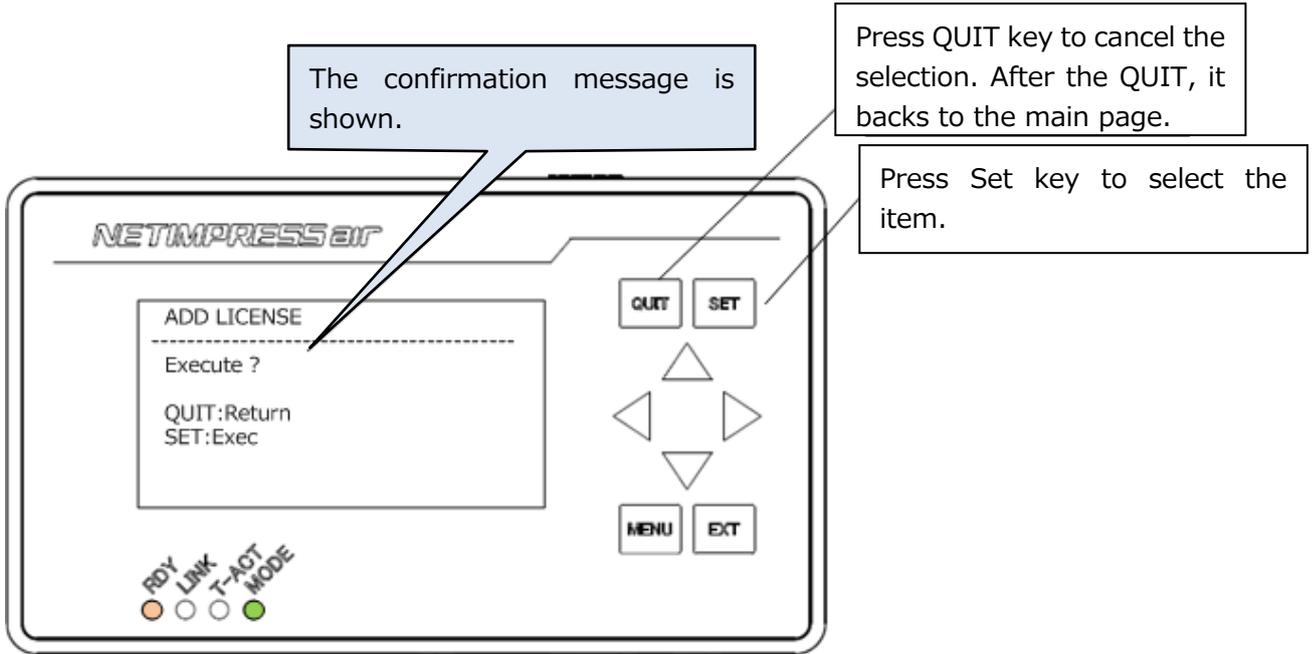


When the error occurs during the execution of this operation, with two or more files are placed, the definition program license is saved until immediately before the error.

(1) Display the **MENU:LICENSE** group. Set the cursor to **ADD LICENSE**, and then press the **SET** key.



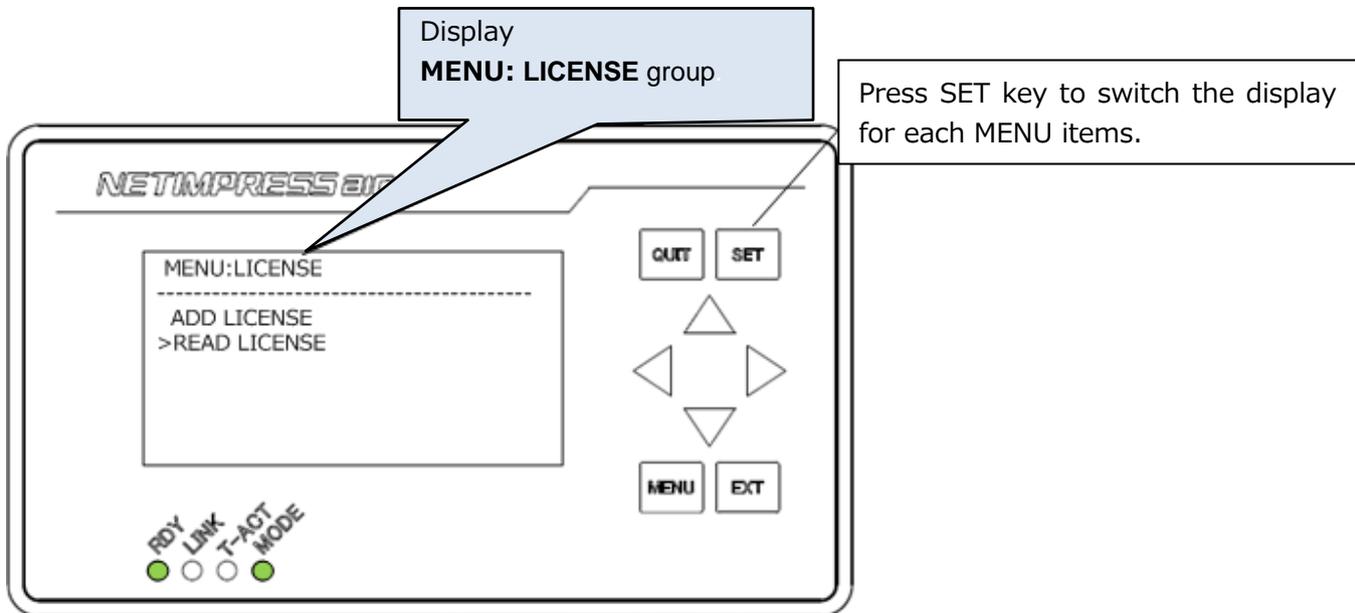
(2) Press the **SET** key to execute selected item.



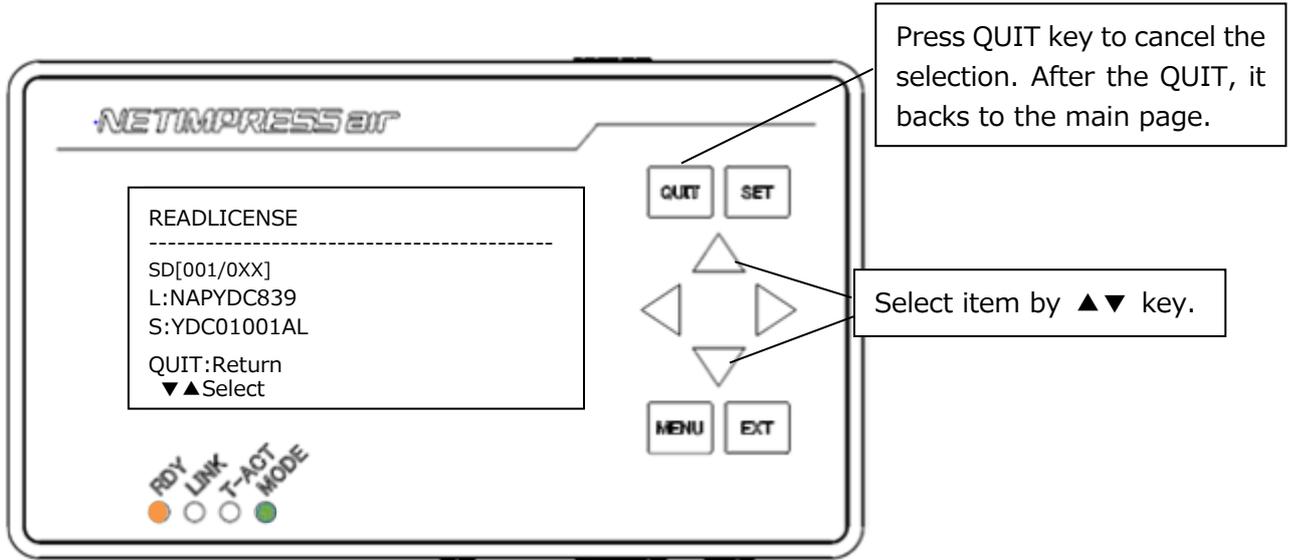
7.4.22. Display information of registered definition program license

The information of the registered definition program license is shown.

(1) Display the **LICENSE** group. Set the cursor to **LICENSE**, and then press the **SET** key.



(2) When more than one license is registered, select the license using the arrow key.

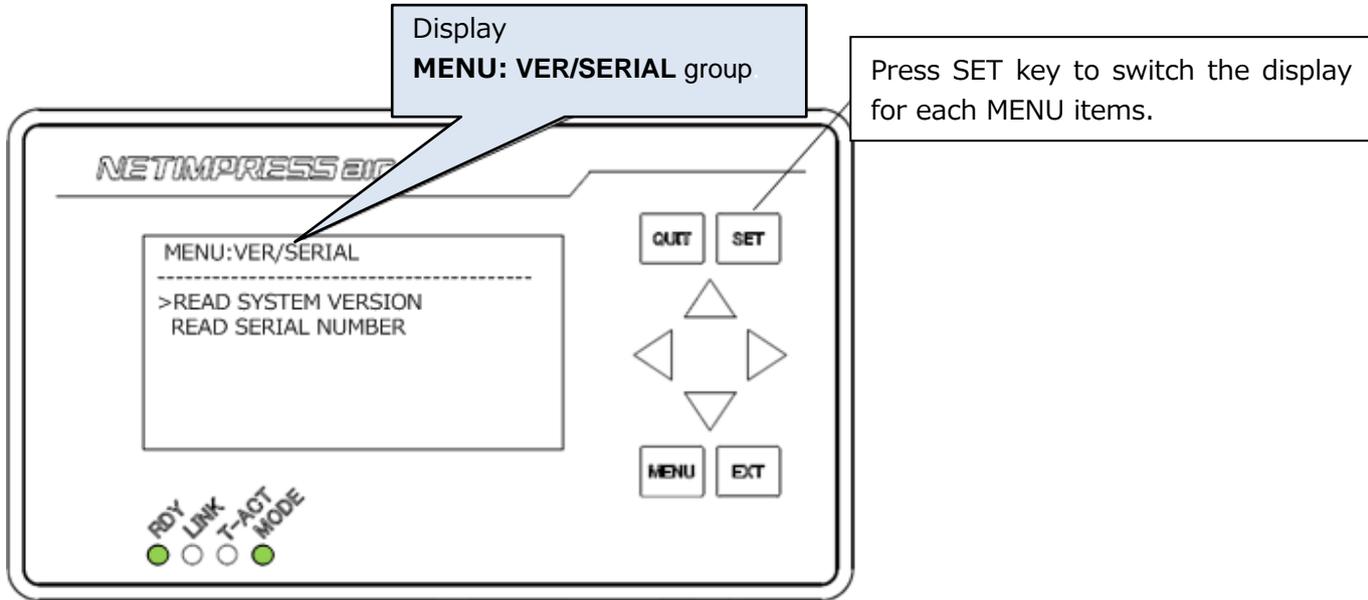


LCD: Third line	<ul style="list-style-type: none"> ● SD[YYY/XXX] : SD[YYY/XXX] shows the information of definition program license in the SD card. XXX shows the total number of the definition program license. YYY shows the registration number of the definition program license. ● HD[YYY/XXX] : HD[YYY/XXX] shows the information of license (Logger license) registered in NETIMPRESS air. ※ YYY shows the registration number of registered order to the SD card/NETIMPRESS air. This is not the information, particularly related to the definition program license.
LCD: Fourth line	<ul style="list-style-type: none"> ● The name of definition program license currently in use is shown here.
LCD: Fifth line	<ul style="list-style-type: none"> ● The support serial information of the definition program license currently in use is shown here.

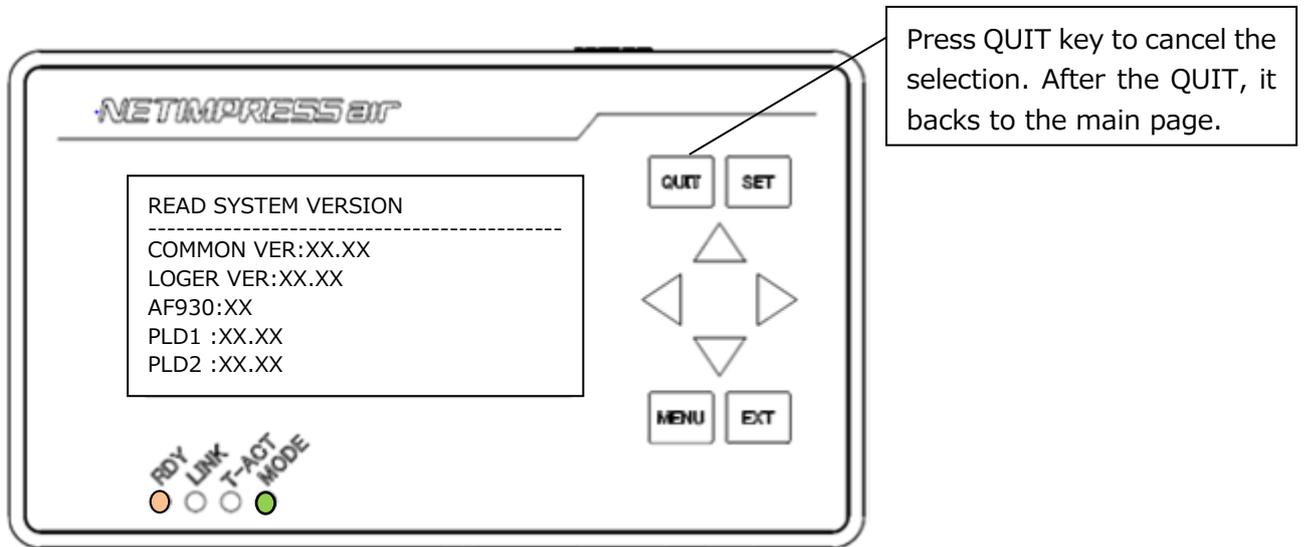
7.4.23. Display to check the system version of NETIMPRESS air

Display the version of NETIMPRESS air and the firmware on the LCD.

- (1) Display the **MENU:VER/SERIAL** group. Set the cursor to **READ SYSTEM VERSION**, and then press the **SET** key.



- (2) The information of system version is displayed on LCD.

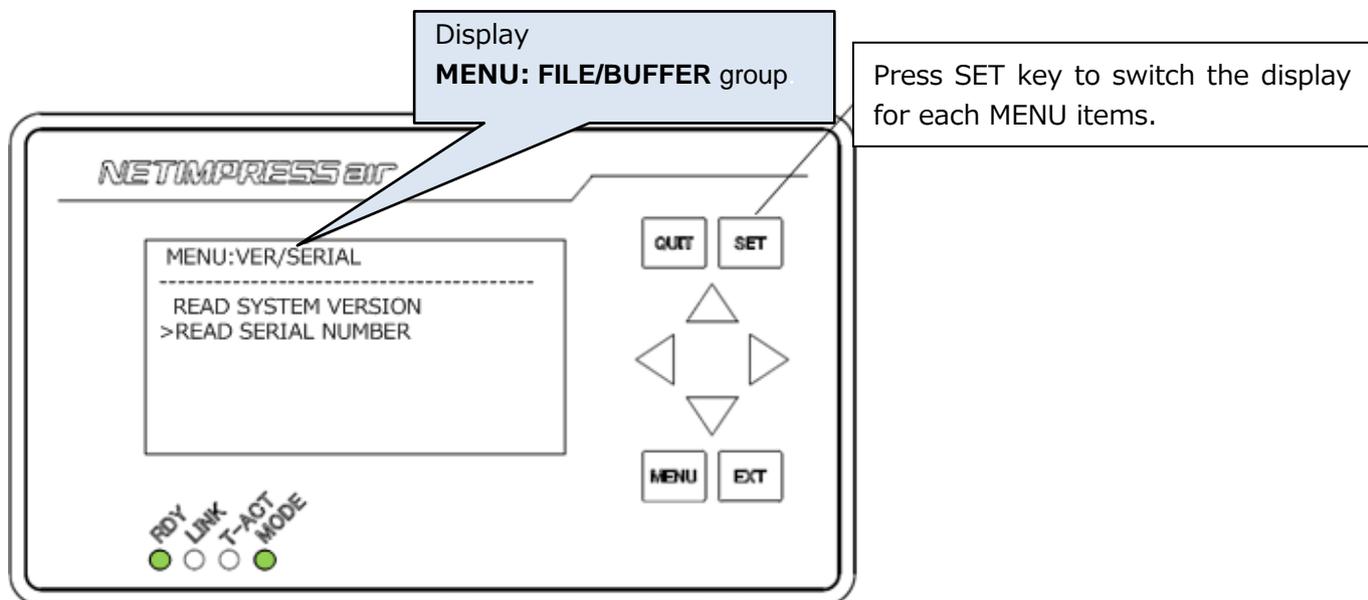


AF930	<ul style="list-style-type: none"> The revision information of the hardware is shown here.
PLD1	<ul style="list-style-type: none"> The version information of PLD1 in the hardware is shown here.
PLD2	<ul style="list-style-type: none"> The version information of PLD2 in the hardware is shown here.
COMMON VER	<ul style="list-style-type: none"> The version information of firmware for common part of NETIMPRESS air is shown here.
LOGGER VER	<ul style="list-style-type: none"> When the logger function (optional) is selected, the version information of firmware for logger, is shown here. The setting of logger function is not made, it will be a blank.

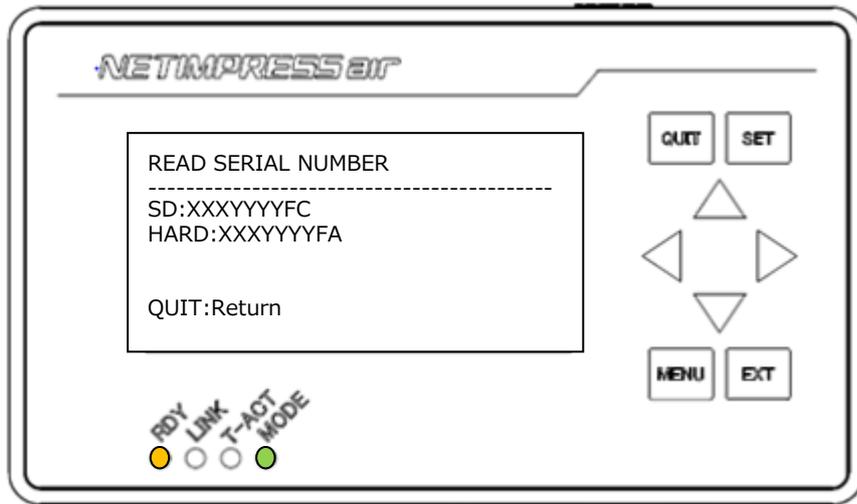
7.4.24. Display serial number of the SD card/main unit

Display the serial number of the SD card and the main unit on the LCD. The serial number can be used to register the definition program license, and when you contact us.

(1) MENU: Display the **MENU:VER/SERIAL** group. Set the cursor to **READ SERIAL NUMBER**, and then press the **SET** key.



Display the serial number of the SD card and the main unit on the LCD.



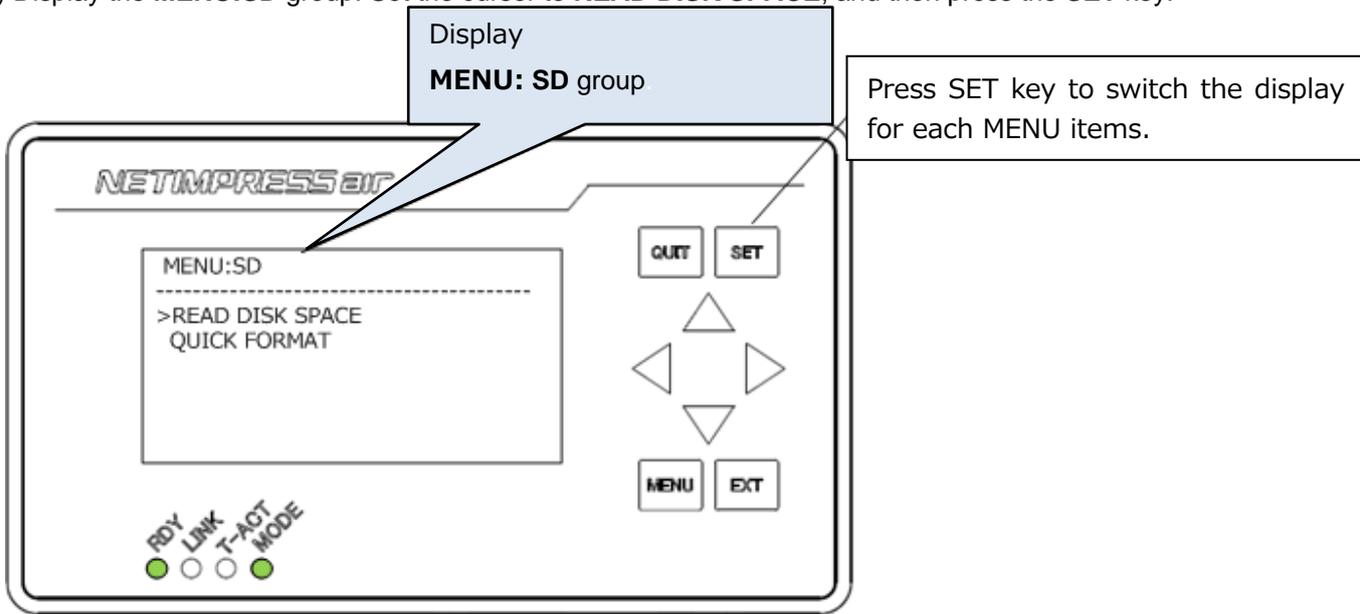
SD:	<ul style="list-style-type: none">• The serial number of the SD card is shown here.
HARD:	<ul style="list-style-type: none">• The serial number of NETIMPRESS air is shown here.

7.4.25. Display free space of the SD card

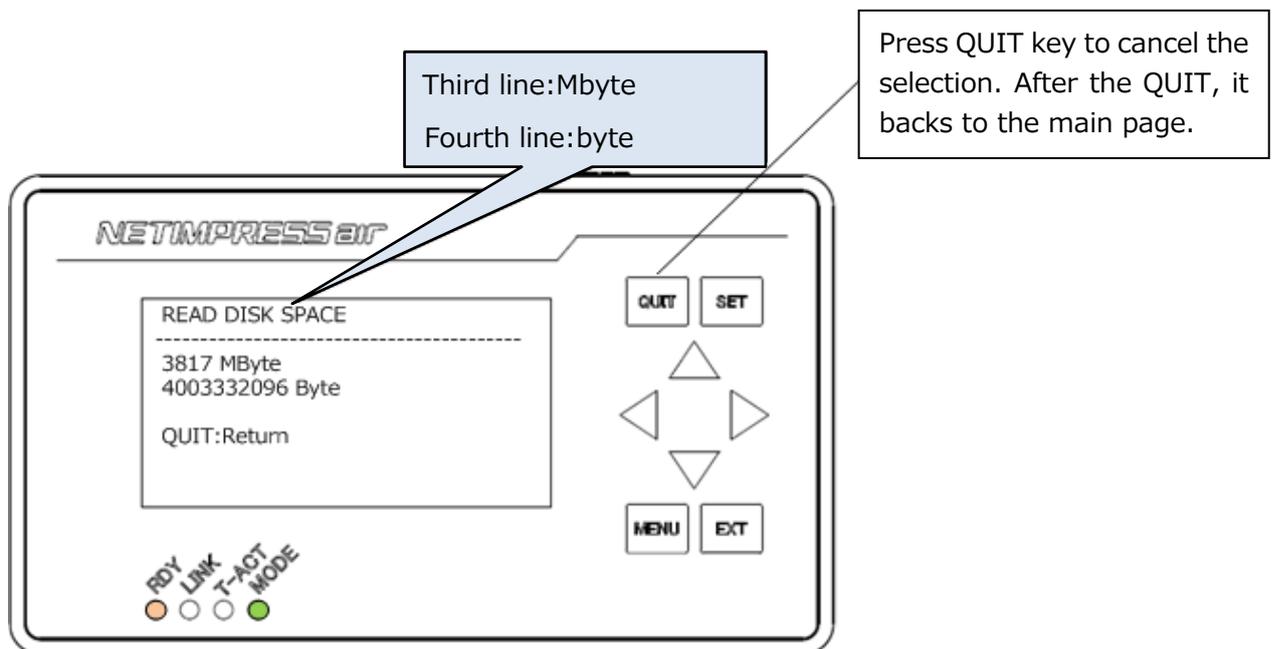
The free space of the SD card is shown on the LCD.

! The free space of the SD card shown on the PC and NETIMPRESS air may differ. This is because the file in the SD card is operated at the time inserting the SD card into NETIMPRESS air, and the free space of the SD card may increase/decrease.

(1) Display the **MENU:SD** group. Set the cursor to **READ DISK SPACE**, and then press the **SET** key.



(2) The free space of the SD card is shown on the LCD.



7.4.26. Quick format

Perform the quick format for The SD card inserted NETIMPRESS air.

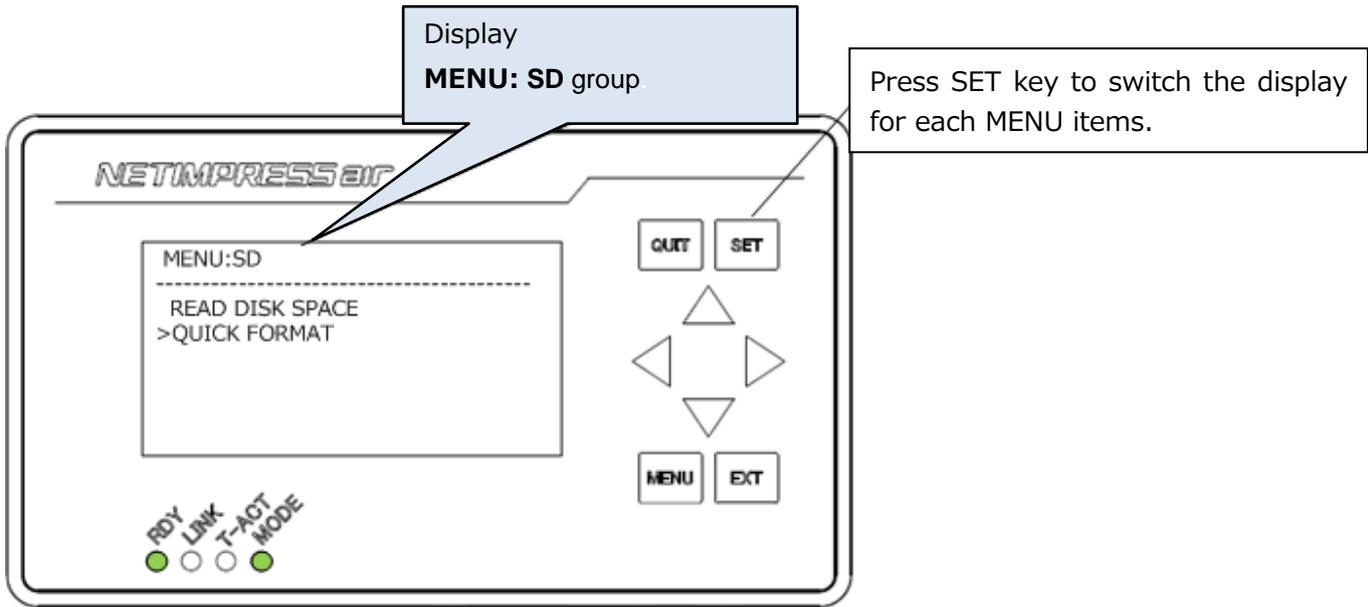


All the folders and files in the SD card are deleted by executing formatting it. Please note that it cannot be restored.

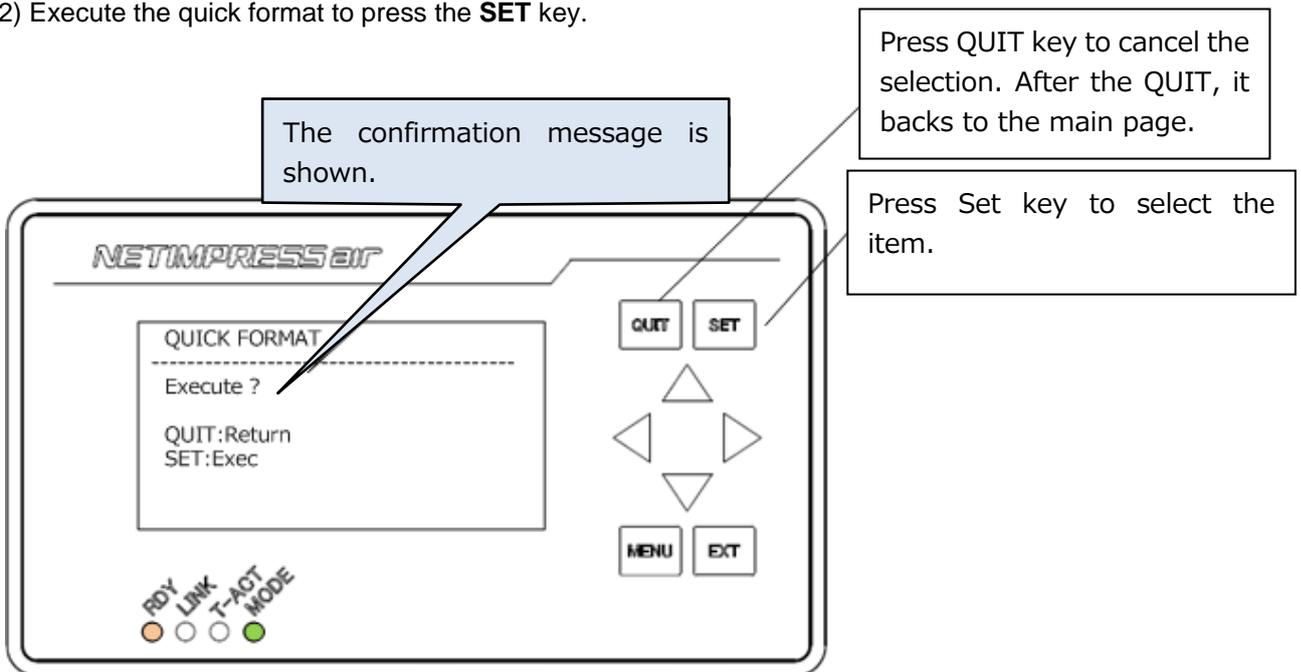
The format is not selectable.

When the execution log setting is ON, new LOG folder is created after execution of quick format.

(1) Display the **MENU:SD** group. Set the cursor to **QUICK FORMAT**, and then press the **SET** key.



(2) Execute the quick format to press the **SET** key.



7.4.27. Updating firmware of logger

This function is used when you use the option of logger function. Execute updating the firmware, before you use the logger function at the first time or when the firmware for the logger is updated.

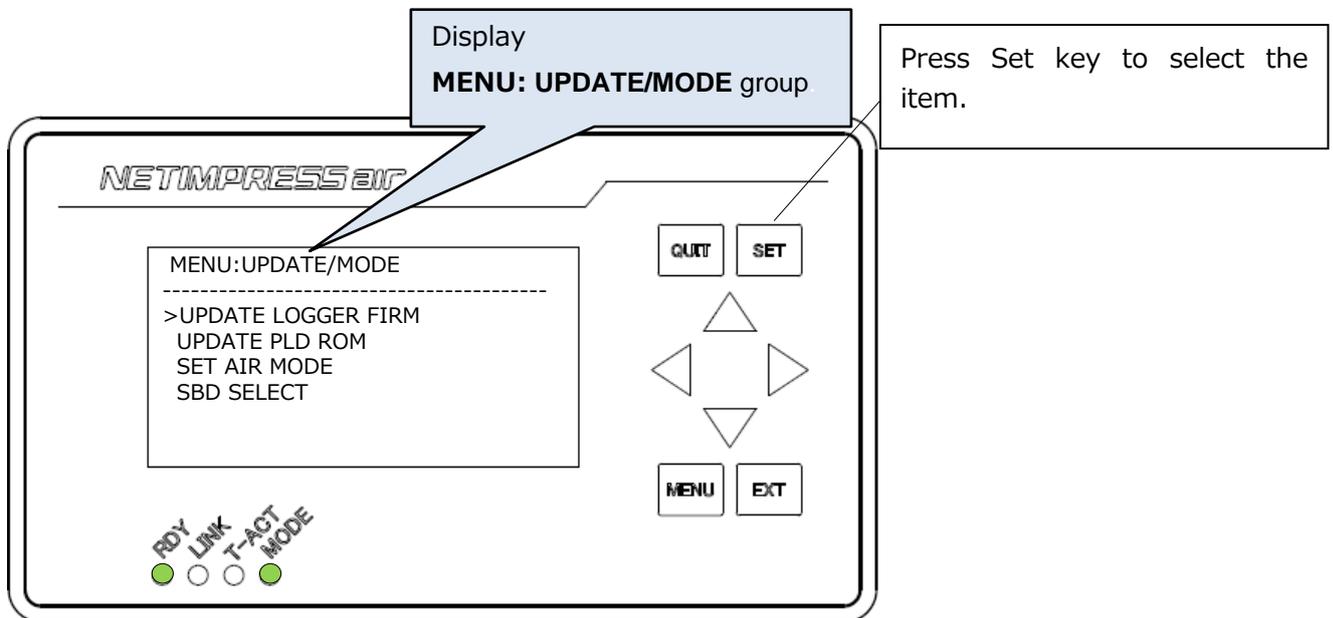


Make sure that definition program license is registered to NETIMPRESS air before operating this function. If the definition program license is not registered, the execution of updating will be an error.

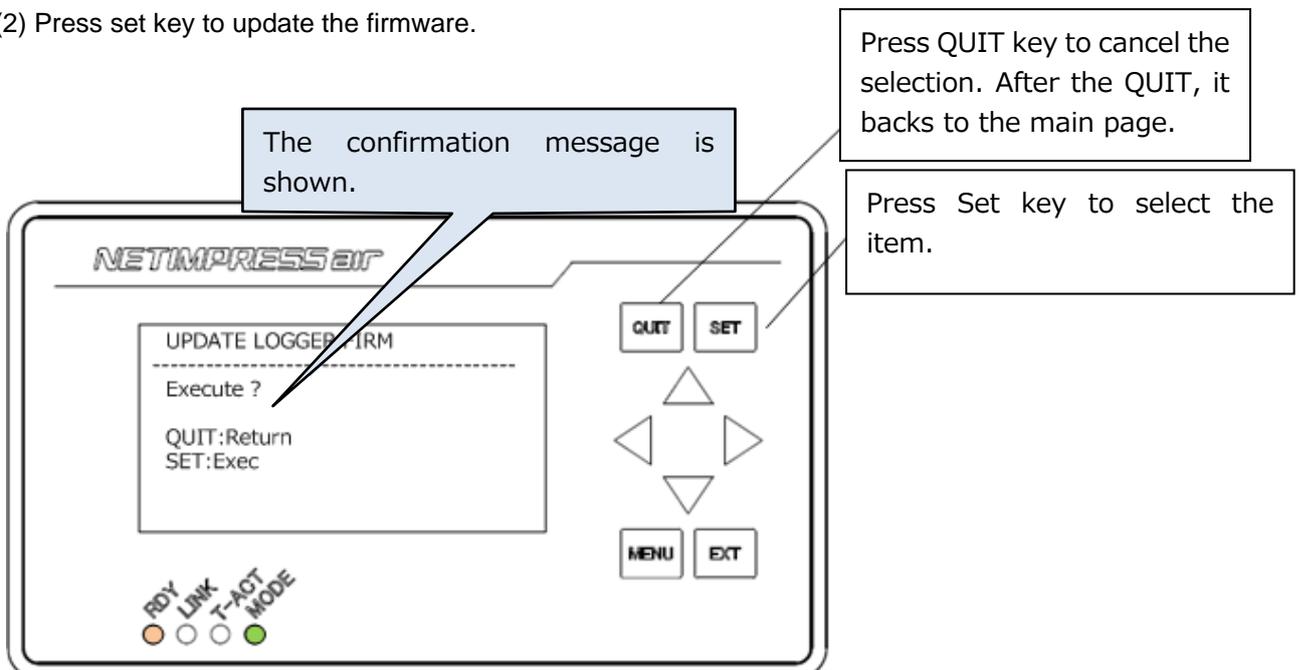
The SD card is necessary for executing update from NETIMPRESS air as a stand alone. Prepare the SD card and update file before operate this function.

Make sure that the power supply for NETIMPRESS air is enough.

(1) Display the **MENU:UPDATE/MODE** group. Set the cursor to **UPDATE LOGGER FIRM**, and then press the **SET** key.



(2) Press set key to update the firmware.



7.4.28. Updating PLD

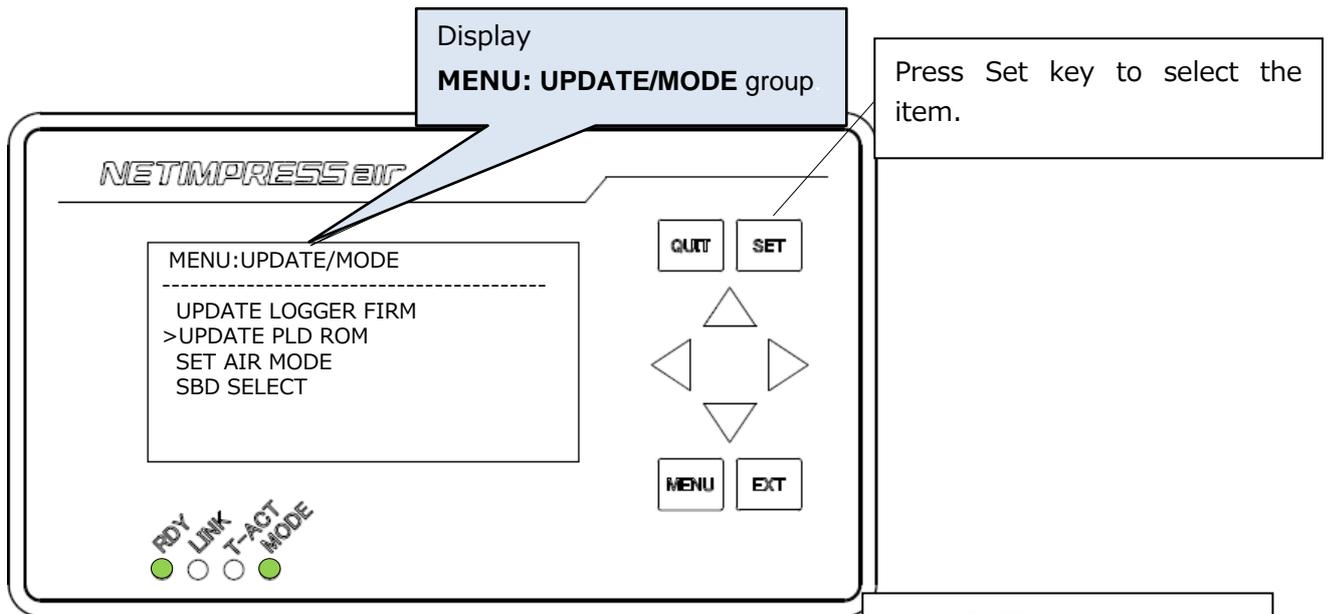
Update the PLD of NETIMPRESS air.



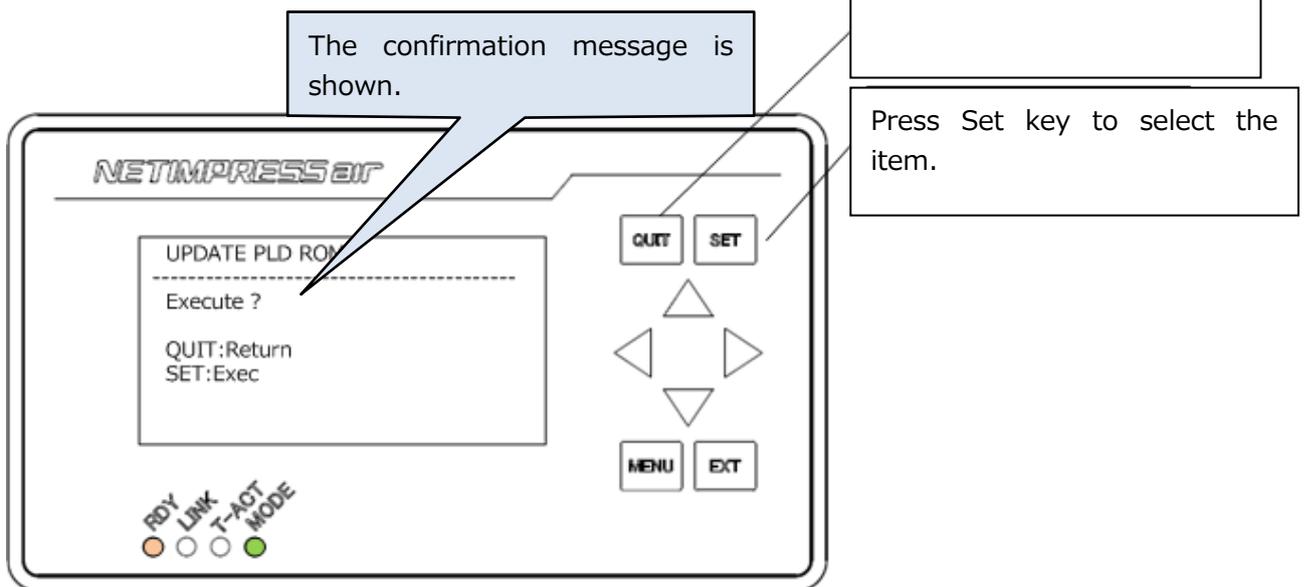
The SD card is necessary for executing update from NETIMPRESS air as a stand alone. Prepare the SD card and update file before operate this function.

Make sure that the power supply for NETIMPRES air is enough.

(1) Display the **MENU:UPDATE/MODE** group. Set the cursor to **UPDATE PLD ROM**, and then press the **SET** key.



(2) Press set key to update PLD.

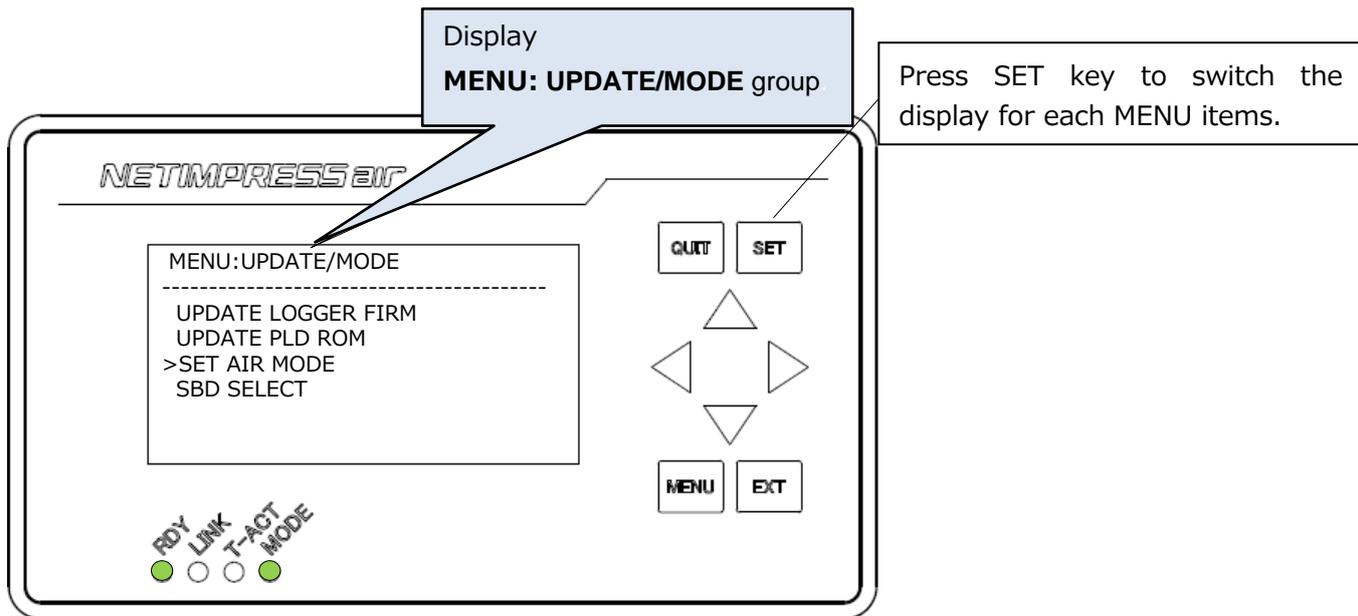


7.4.29. Options

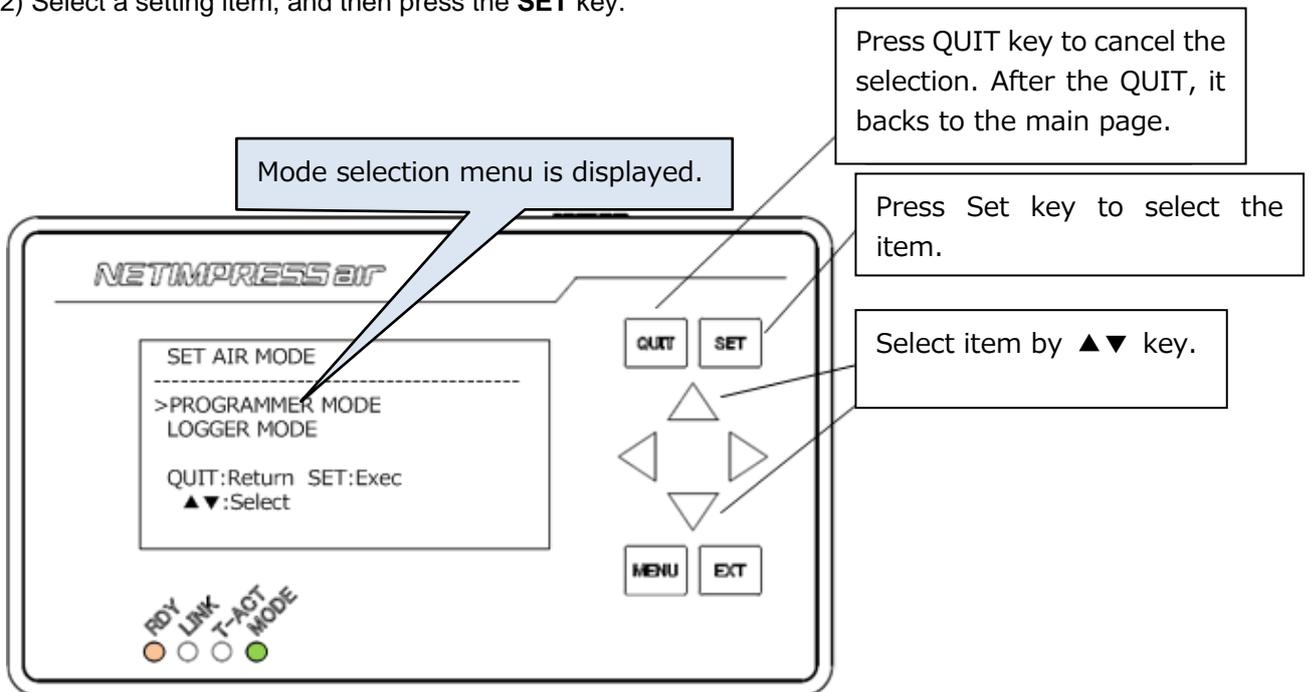
The CAN logger function can be added as an option for NETIMPRESS air other than the programming function for target system.

This function is used for switching the programming mode and the logger mode when NETIMPRESS air is operated as a stand alone. When NETIMPRESS air is operated connected with PC software, the internal operation mode is automatically changed to the programming mode/the logger mode.

- (1) Display the **MENU:UPDATE/MODE** group. Set the cursor to **SET AIR MODE**, and then press the **SET** key.



- (2) Select a setting item, and then press the **SET** key.



PROGRAMMER MODE	<ul style="list-style-type: none"> ● This mode is used when NETIMPRESS air is used as a standalone programmer. ● When starting up NETIMPRESS air with the programmer mode, standalone operation is available.
LOGGER MODE	<ul style="list-style-type: none"> ● This mode is used when NETIMPRESS air is used as a standalone logger. ● When starting up NETIMPRESS air with the logger mode, the operations described in the operation manual for logger is available. <p>➔ See a manual "Operation manual for Logger".</p>

7.4.30. Changing mode of input/output for SBD signal

When the SBD signal, assigned to the target interface of NETIMPRESS air, is not used by K-Line communication with the target, the signal is output in accordance the execution control of NETIMPRESS air.

By changing the setting for **Start/End Output**, send the signal of T-ACT starting/ending execution etc. by SBD signal.

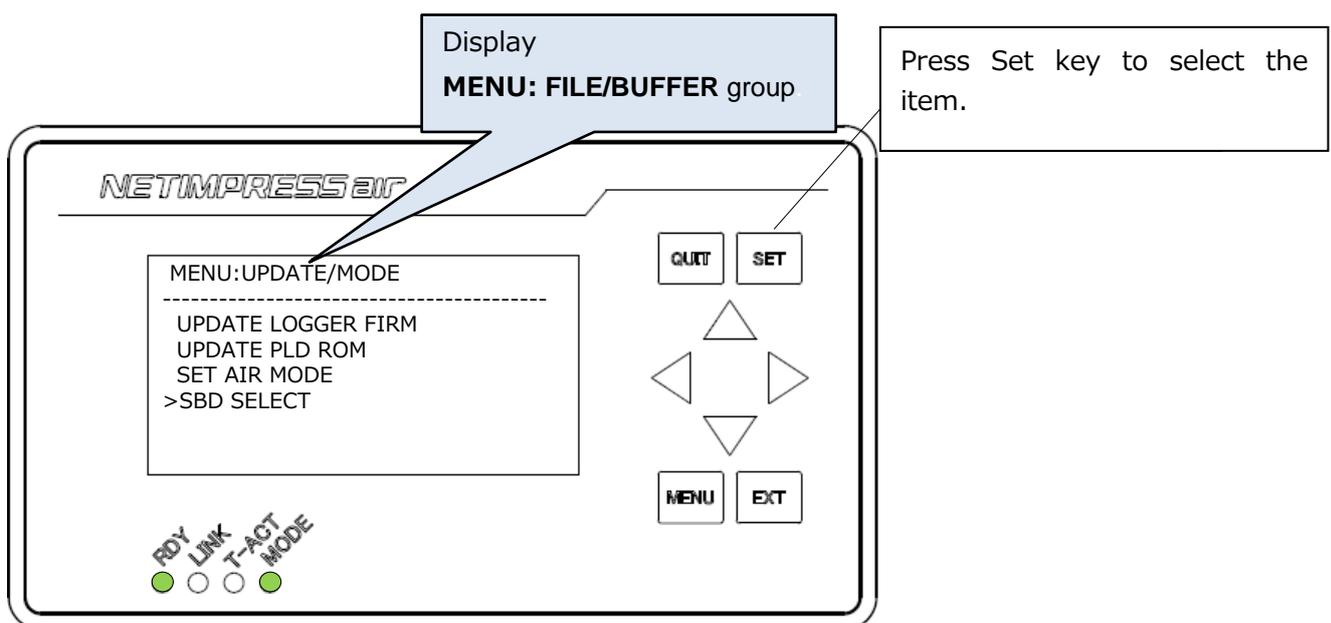


SBD signal mode cannot be used together with K-Line communication.

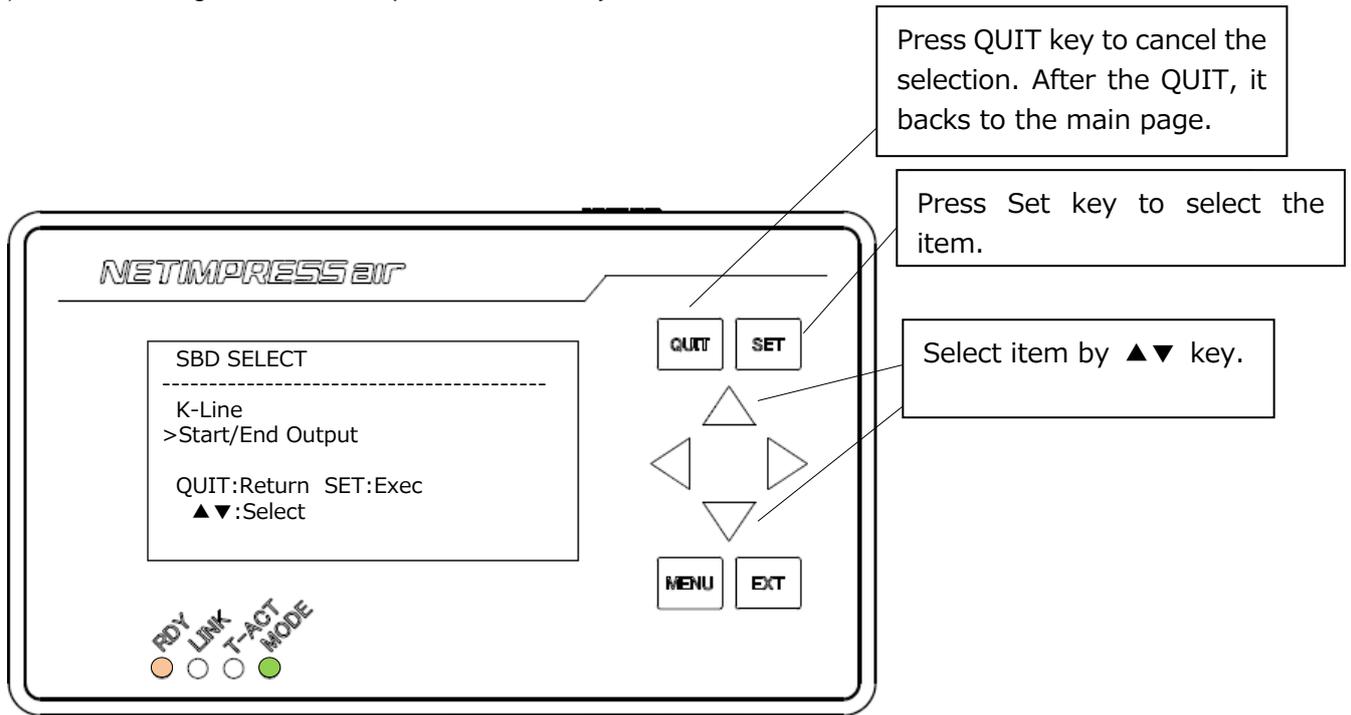
Set the K-Line (default), if you do not use SBD signal mode as notice of execution control.

When setting is **Start/End Output**, you receive the notice of starting/ending whenever executing command during communication with air Connect. The signal outputs in the default period, the response may be delayed upon connecting air Connect.

(1) Display the **MENU:UPDATE/MODE** group. Set the cursor to **SBD SELECT**, and then press the **SET** key.

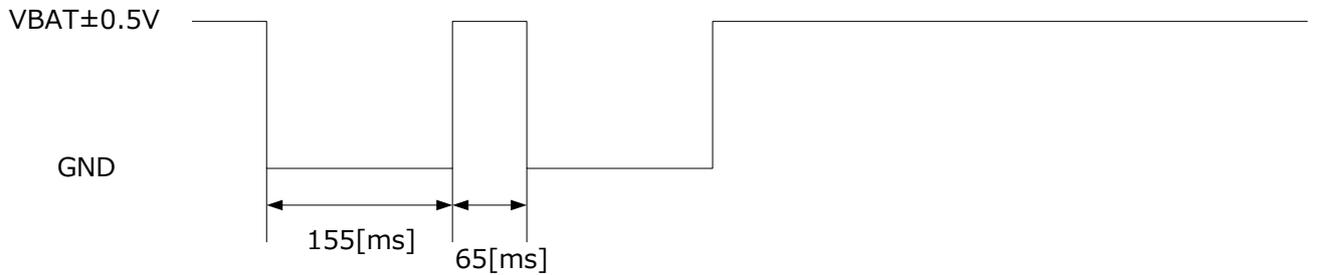


(2) Select a setting item, and then press the **SET** key.



【SBD output control : When selecting Start/End Output 】

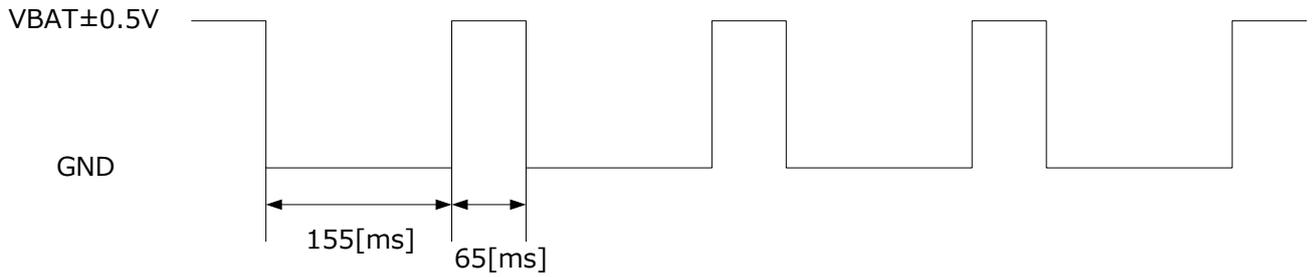
● Control: Starting



● Control : Completed successfully



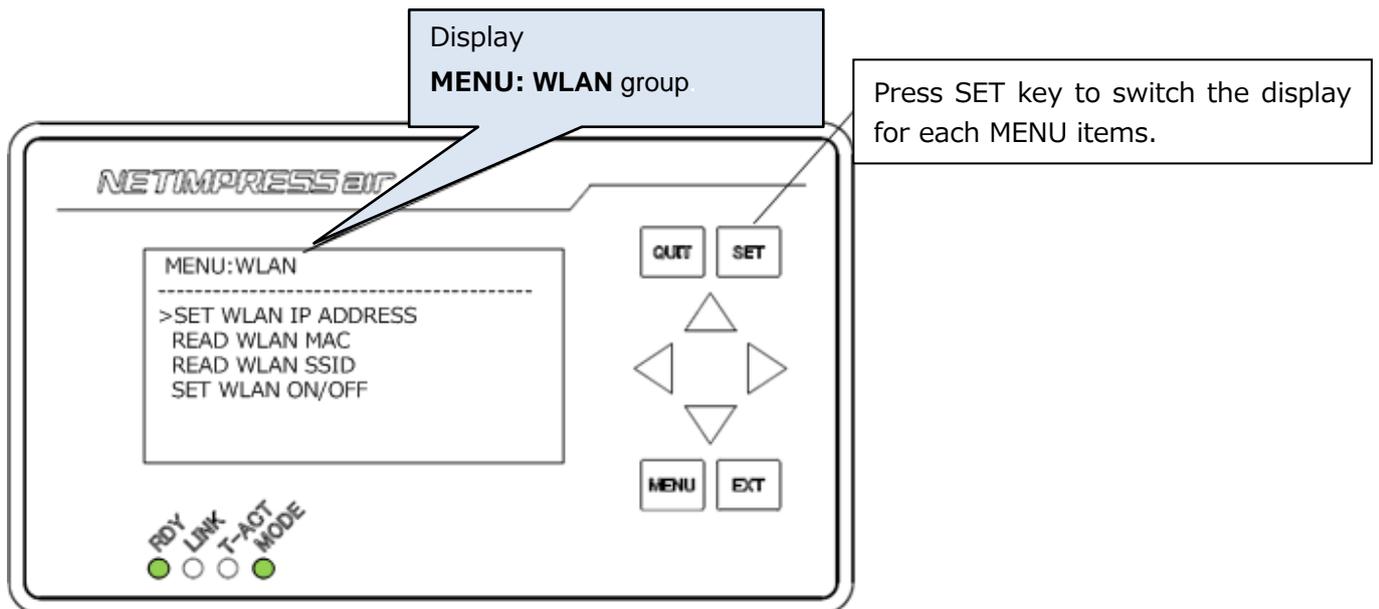
- Control : Abnormal end



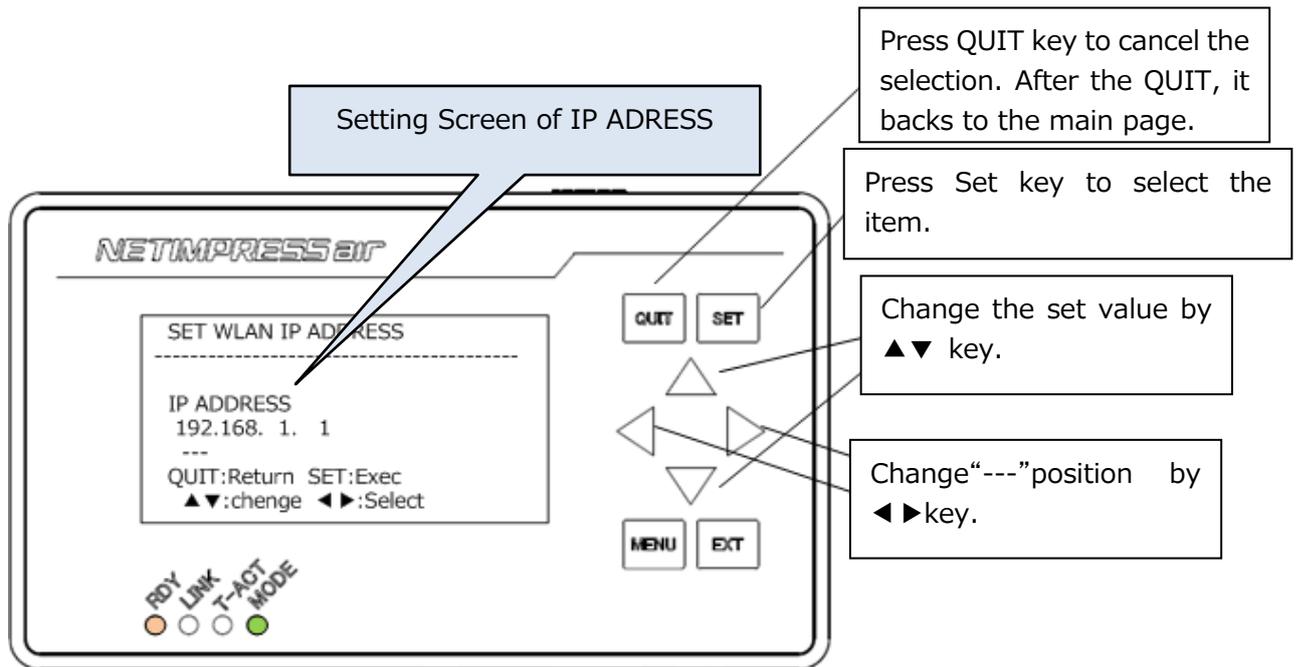
7.4.31. Setting IP address of Wireless LAN

This mode is available when using NETIMPRESS air equipped with Wireless LAN. The following settings can be changed: IP address of Wireless LAN, subnet mask, gateway, and port number on the NETIMPTRSS air.

- (1) Display the **MENU:WLAN** group. Set the cursor to **SET WLAN IP ADDRESS**, and then press the **SET** key.



(2) Select a value shown with “---” with the arrow key. Move a selected point by the arrow key. The item is changed as IP ADDRESS ⇔ SUBNET MASK ⇔ GATE WAY⇔ PORT, with long pressing the arrow key.



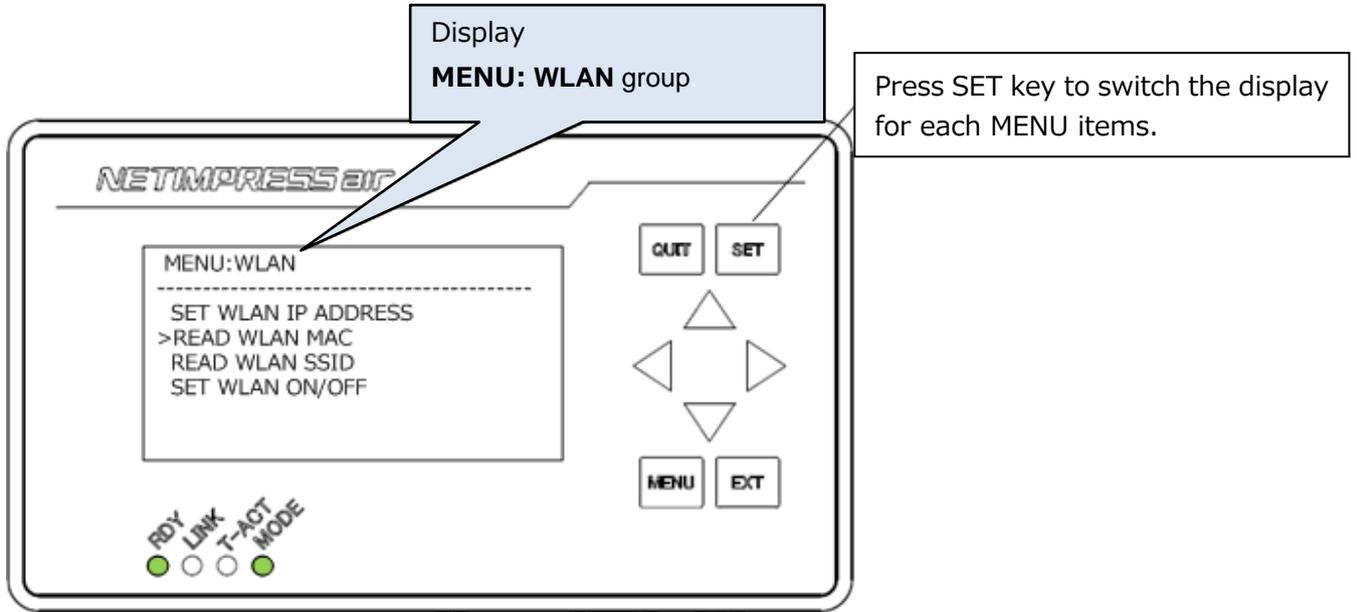
✓ The settings, such as SSID of Wireless LAN and security etc., can be changed by reading the setting file when starting up NETIMPRESS air.

➡ See Chapter 8.1.4 for changing the setting of IP address and Wireless LAN by using a file.

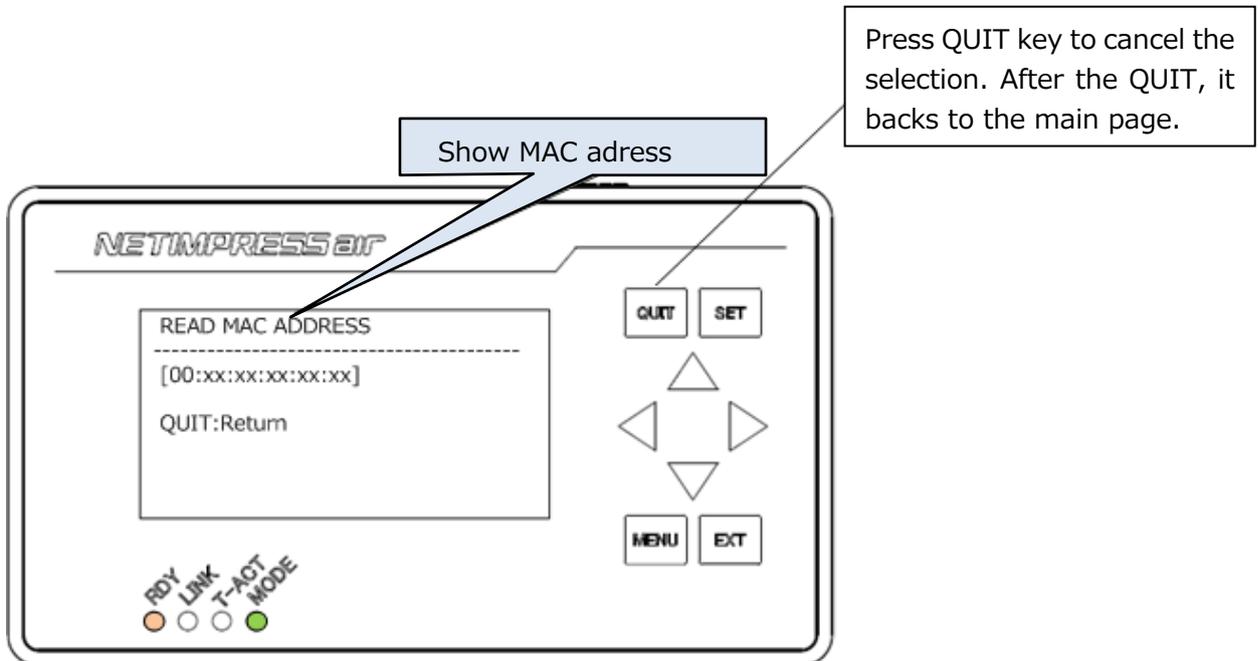
7.4.32. Display MAC address of Wireless LAN

This mode is available when using NETIMPRESS air equipped with Wireless LAN. For this function, MAC address of Wireless LAN is displayed on the LCD.

- (1) Display the **MENU:WLAN** group. Set the cursor to **READ WLAN MAC**, and then press the **SET** key.



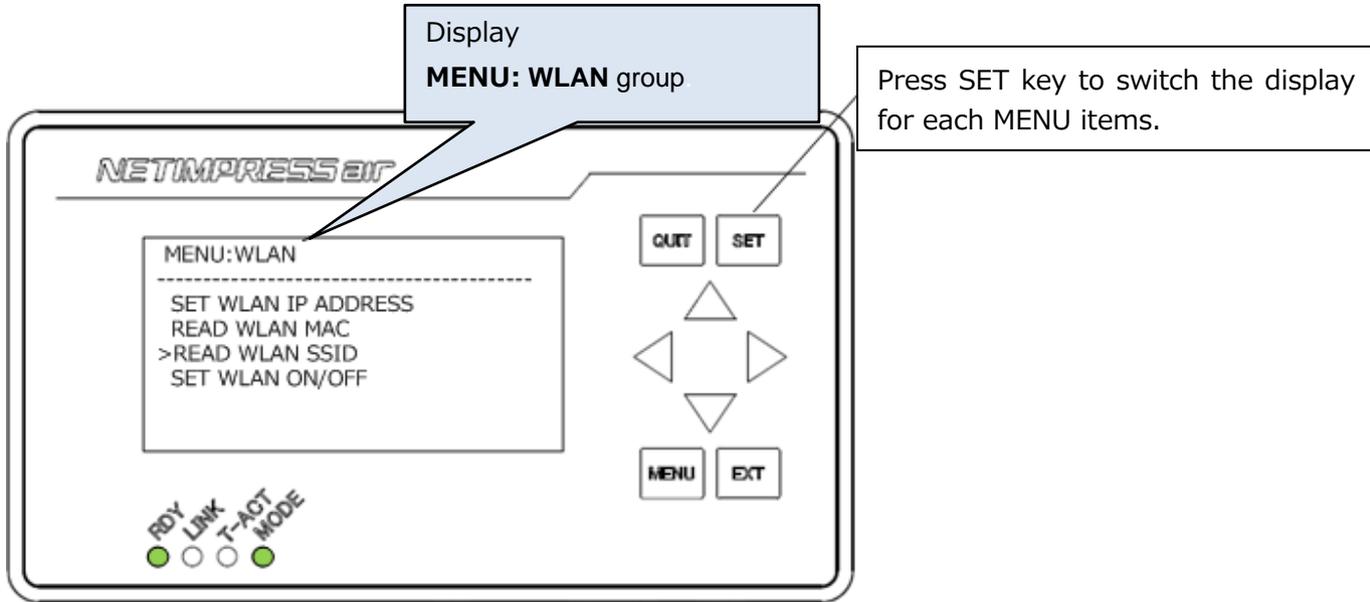
- (2) MAC address is displayed on LCD.



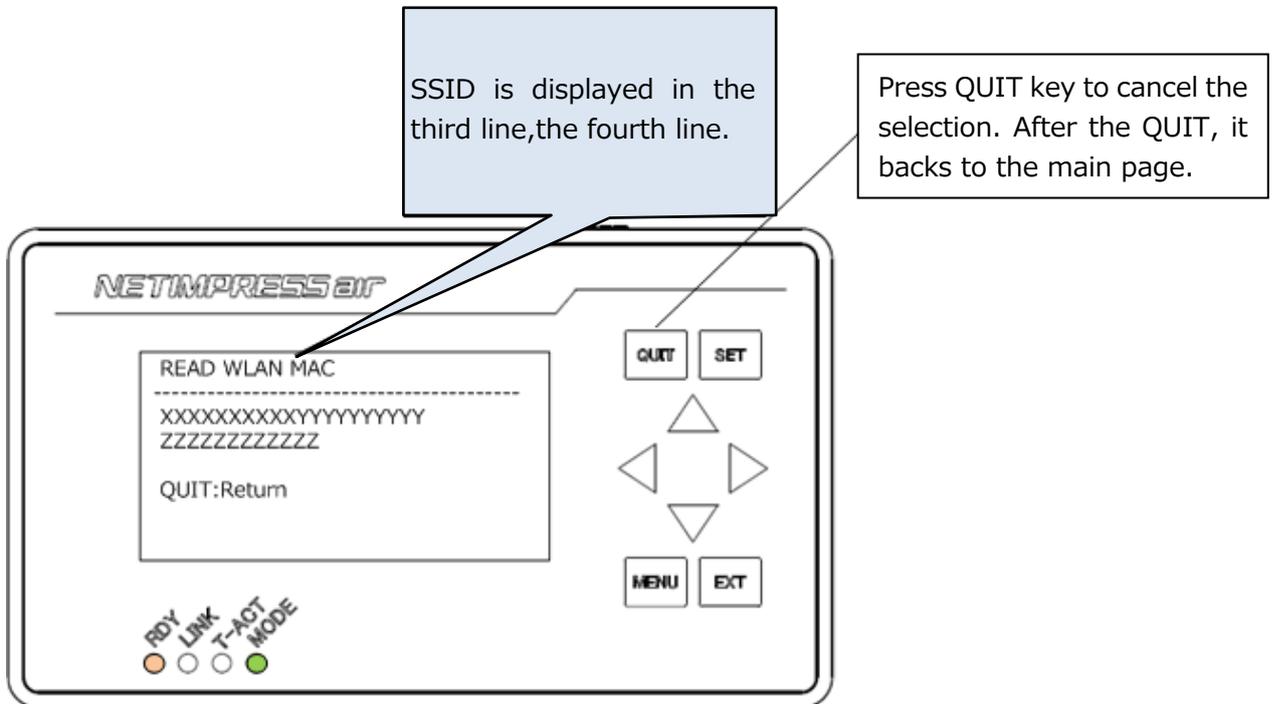
7.4.33. Display SSID of Wireless LAN

This mode is available when using NETIMPRESS air equipped with Wireless LAN. For this function, SSID of Wireless LAN is displayed on the LCD. Use this function for checking the SSID when making connection by ad hoc mode.

- (1) Display the **MENU:WLAN** group. Set the cursor to **READ WLAN SSID** and then press the **SET** key.



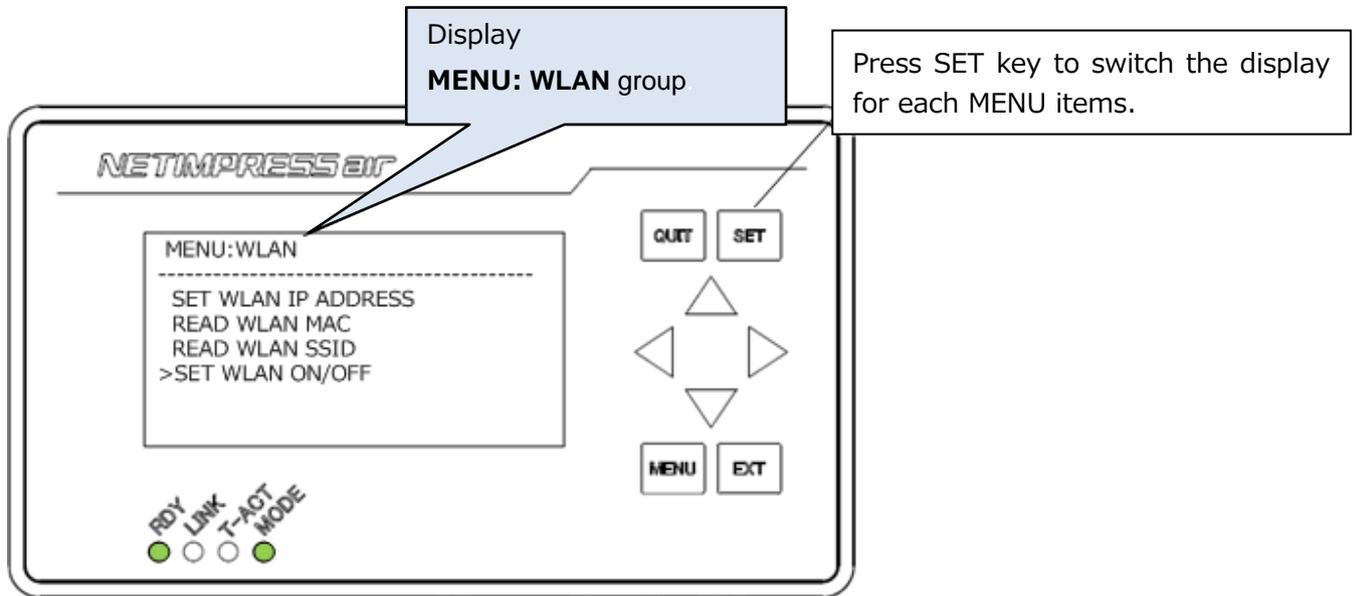
- (2) SSID is displayed on LCD.



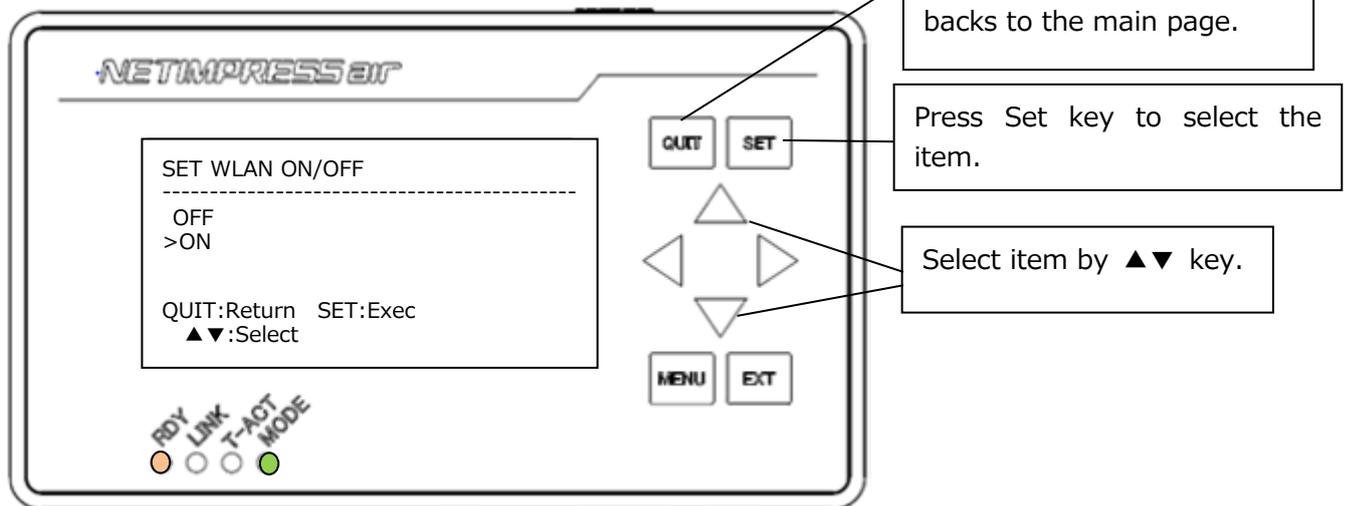
7.4.34. Selecting ON/OFF of Wireless LAN

This mode is available when using NETIMPRESS air equipped with Wireless LAN. For this function, ON/OFF of Wireless LAN can be selected. If you set OFF, Wireless LAN cannot be used.

- (1) Display the **MENU:WLAN** group. Set the cursor to **SET WLAN ON/OFF**, and then press the **SET** key.



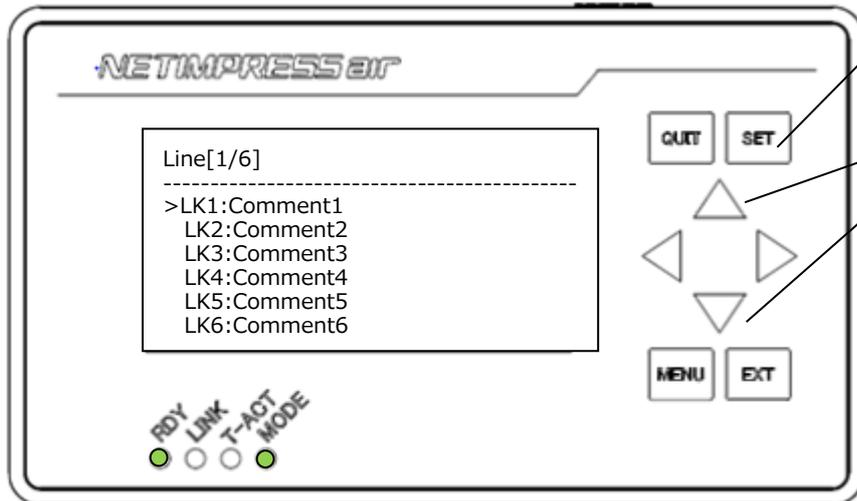
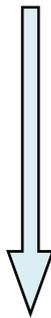
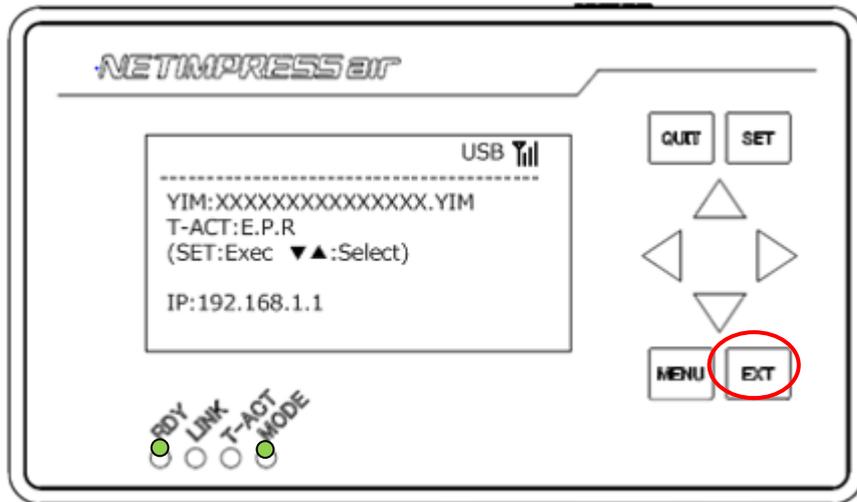
- (2) Select **ON/OFF** with the arrow key, and then press the **SET** key.
NETIMPRESS air will restart after pressing the **SET** key.



7.5. Sequence Control

The EXT key on the NETIMPRESS air can be assigned a command sequence operation. Create CSB file to assign the command sequence.

CSB file can be edited by text editor.

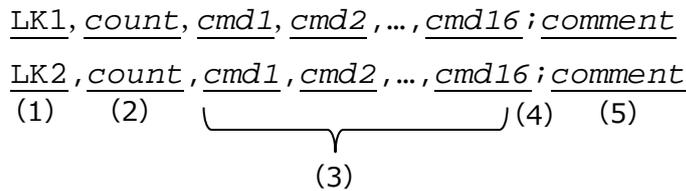


Save CSB file giving any name with the extension **.CSB**.

Only one CSB file can be placed in the root directory of the SD card.

7.5.1. CSB format

The format of CSB is as follows. Place the ';' between commands.



(1)KEY No. (3 characters) *You can specify 6 commands (LK1 to LK6).

LK1 describes the commands following it.

LK2 describes the commands following it.

.

LK6 describes the commands following it.

(2)count (2 characters)

Show the number of the executing commands. Decimal notation is used, after "09" is "10", therefore, the Maximum is 16.

When specify 00, no command is executed.

(3) *cmd1, cmd2, ..., cmd16*

Describe the executing command.

Command code

Command code	Description
F0 (XXXXXXXX YYYYYYYY)	T-ACT Execution Address Setting (XXXXXXXX : First address, YYYYYYYY : Last address) These settings can be omitted. When omitted, the address becomes the entire flash ROM area.
F2	Clear buffer
FF1 (XXXXXXXX.YYY)	Load file (XXXXXXXX.YYY: the name of loading file)
FF5 (XXXXXXXX YYYYYYYY)	Load and save address setting (XXXXXXXX : First address, YYYYYYYY : Last address) These settings can be omitted. When omitted, the address becomes the entire flash ROM area.
D8	Copy (T-ACT)
D9	Blank (T-ACT)

DC	Erase (T-ACT)
DD	Program (T-ACT)
DE	Read (T-ACT)
DF	E.P.R. (T-ACT)
FB0 (XXXXXXXXX.YIM)	Switching the current YIM folder (YIM folder name : XXXXXXXXX.YIM)



Maximum number of commands in CSB fail is 16 commands.

(4) Command delimiter “;”

Shows the command delimiter between 3 and 5.

(5) Comment (Any characters + CRLF)

Describe the comment. This comment is shown at LKx: Comment on the LCD.



Make sure to write Newline (CRLF) code at the end of the line.

Alphanumeric, blank, and characters below can be used for the comment. Maximum number of characters for the command is 16 characters.

% ¥ / : * ? < > | ”

7.5.2. Example of creating CBS file

Example:

[Description]

```
LK1,04,FB0(TEST1.yim),DF,FB0(TEST2.yim),DF;2file sequence EPR
```

```
LK2.01.DC;Erase
```

[Execution Sequence]

LK1 execute the following continuous commands: select TEST1.YIM, EPR, select TEST2.YIM and EPR. LK2 execute T-ACT Erase.

When select LK1, **TEST.YIM** is loaded as the current folder, and then the **EPR** is executed at the next command.

And then **TEST2.YIM** is loaded as the current folder, and the **EPR** is executed at the next command.

When selecting LK2, the flash memory of the target will be executed **Erase**.

[Usage example]

You can program into MCU and the external flash, when the circuit board which has MCU and the external flash memory.

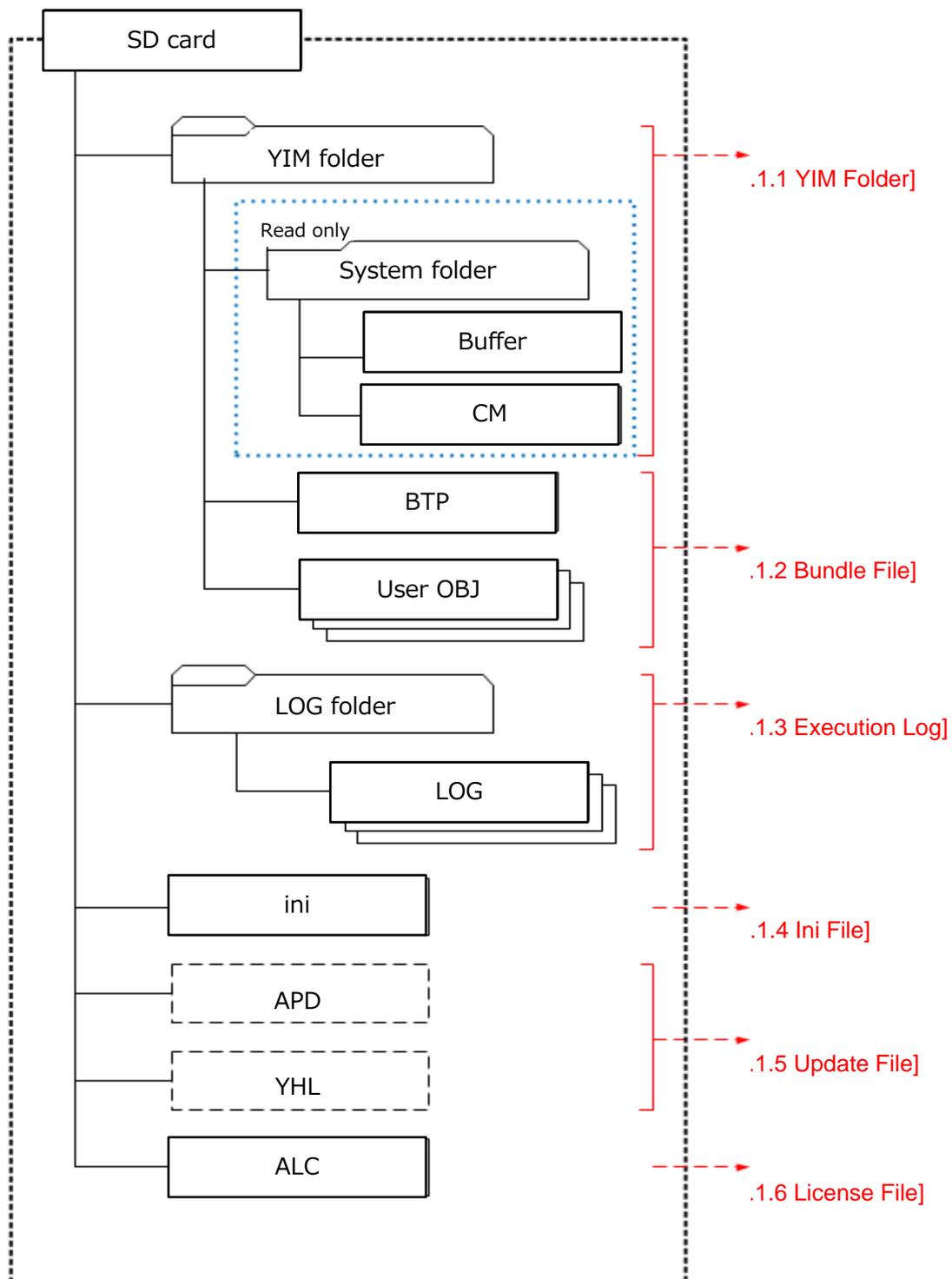
8. Appendix

This chapter describes the configuration and specifications of folder/file and the meaning of error message for NETIMPRESS air.

8.1. Configuration and specification of folder/file

The configuration and specification of the folder/file in the SD card used with NETIMPRESS air is described here.

The configuration of major folders/files in the SD card is shown on the figure below.

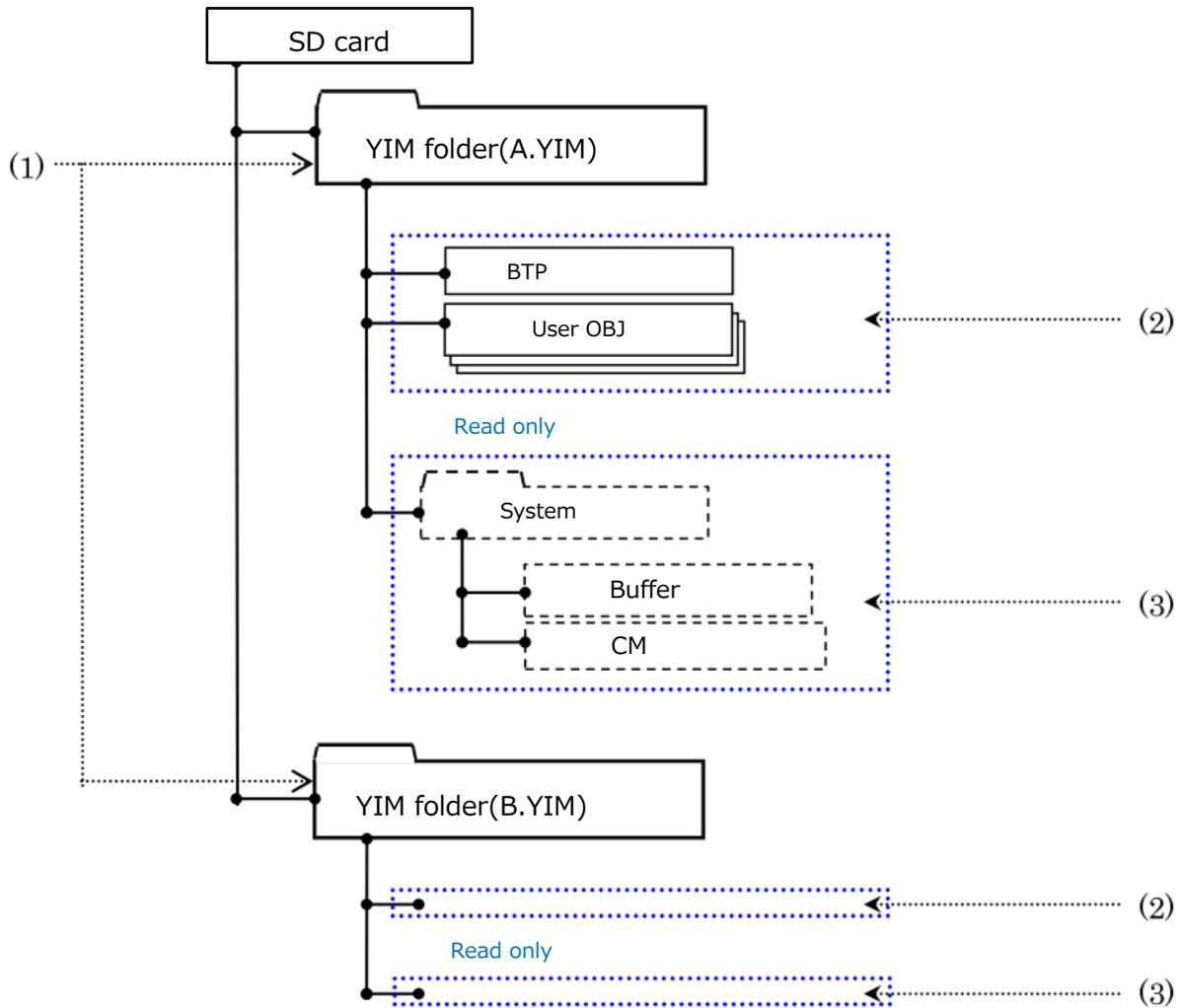


- Restrictions

<p>Number of characters for folder/file name</p>	<ul style="list-style-type: none"> ● Up to 255 characters including the path. <p> When place a bundle file in A.YIM, up to 246 characters can be set. (The path of root is C:¥, and up to 255 characters can be set.)</p>
<p>Prohibited characters for folder/file name</p>	<ul style="list-style-type: none"> ● The characters below are not acceptable to be used the name of folder/file. <p style="text-align: center;"> % ¥ / : * ? < > ” </p>
<p>Limit number of file/folder</p>	<ul style="list-style-type: none"> ● YIM folder: based on the settings FAT32 (the maximum 65534 files) ● Bundle file: based on the settings FAT32 (the maximum 65534 files) ● LOG file : the maximum 200 ffiles ● ini file: one (unavailable to multiple) ● APD file: one (unavailable to multiple) ● YHL file: one (unavailable to multiple) ● ALC file: multiple

8.1.1. YIM folder

- (1) More than one YIM folder can be stored in one SD card.
- (2) Store the BTP file (.BTP), and the bundle file (.KEY, .YSM, etc.) in YIM folder.
- (3) The buffer file (BUF.SYS) and definition program file (CM.SYS) for each YIM folder is created.



! Do not change/erase BUF.SYS file, and CM.SYS file. If you do so, programming is not executed successfully.

✓ File configuration in YIM folder can be checked by using AZ990 (NETIMPRESS air Connect). However please note that read-only area cannot be referred to.

➔ See Chapter 4.2 for details of how to create YIM folder.

8.1.2. Bundle file

There are files in YIM folder as follows: BTP file (*.BTP), KEY file (*.KEY), YSM file (*.YSM), and YDD file (*.YDD) etc.

KEY file	<ul style="list-style-type: none">● Extension of the file is .KEY.● This is a file for checking the device security.
AMK file	<ul style="list-style-type: none">● Extension of the file is .AMK.● This is included in the Micom-pack.● This is the master KEY file for checking the device security.
BTP file	<ul style="list-style-type: none">● Extension of the file is .BTP.● This is included in the Micom-pack.● This is the program file for controlling the programming of device.
Others	<ul style="list-style-type: none">● Extension: .YDD, .YCR etc.● The file is specified depending on each Micom-pack.

➔ For details of the bundle file, see a manual for each micom-pack.

● KEY file

Security feature is equipped depending on the MCU.

With the basic security feature, an encrypted data (ID code), embedded in the MCU, is sent from the programmer when the programmer accessing (read/write) the MCU, and the access will be failed if the data is not matched.

Therefore the flash memory can be accessed only when the programming contents are known. By this way, it can prevent the wrong data programming and reading.

NETIMPRESS air creates KEY file with an encrypted data (ID code) for passing the security at programming.

KEY file	<ul style="list-style-type: none"> ● This is a file for checking the security by issuing the ID code to device automatically when the programmer executed the target function. ● Value of security ID address, ID size and ID data are stored. ● KEY file has to be in the YIM folder.
----------	---

➔ See Chapter 4.3 for how to download the bundle file.

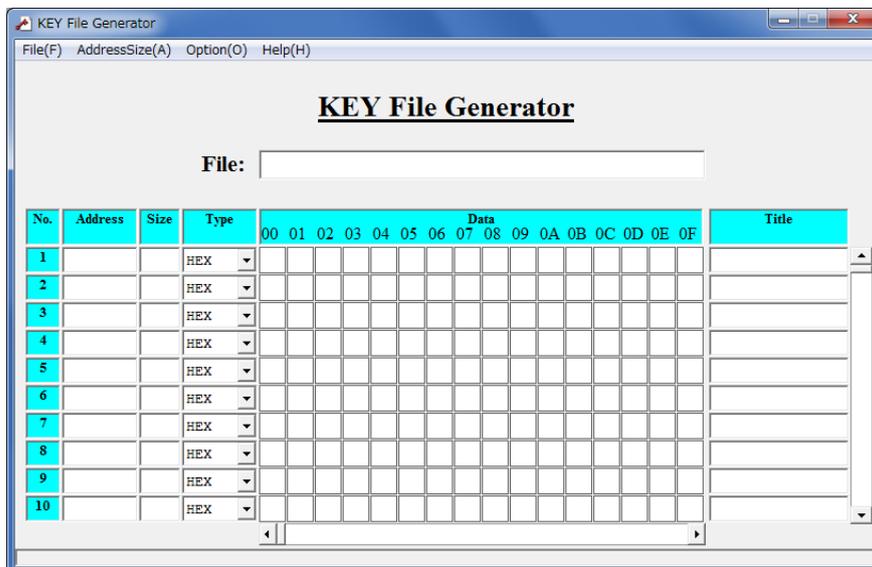


Specification of security varies depending on the MCU. For details, see the manuals of definition program and Micom-pack.

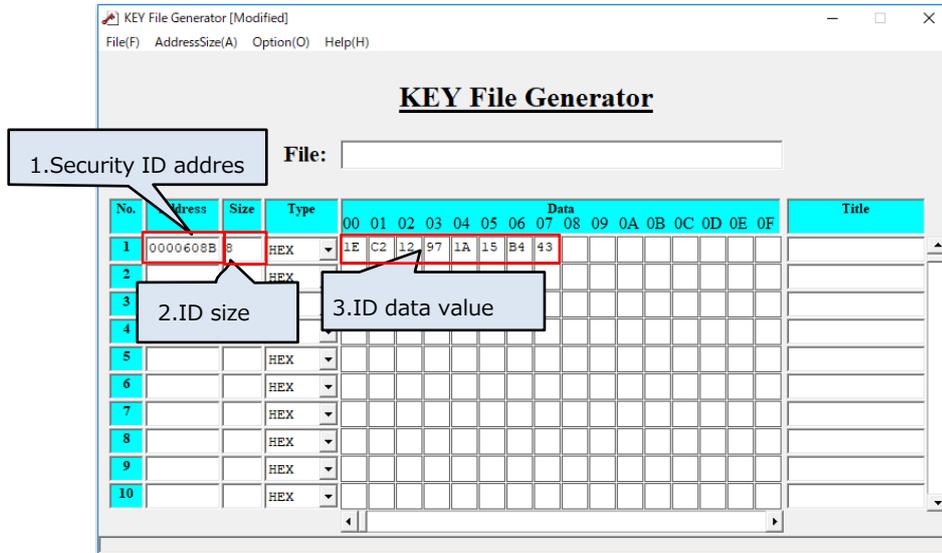
● Creating KEY file

Create the KEY file by using AZ481 (KEY file generator).

(1) Start up AZ481 (KEY file generator).

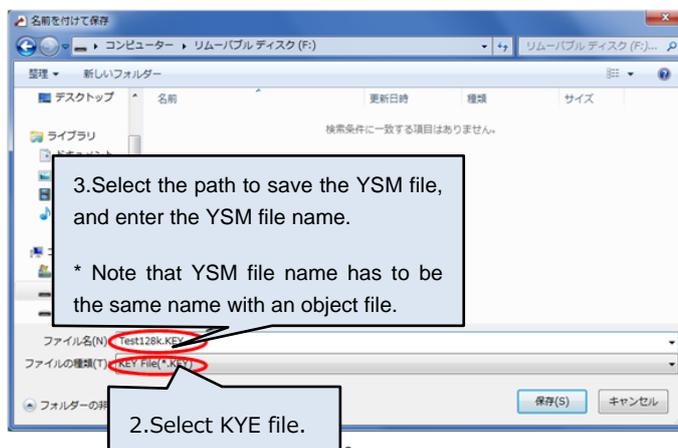
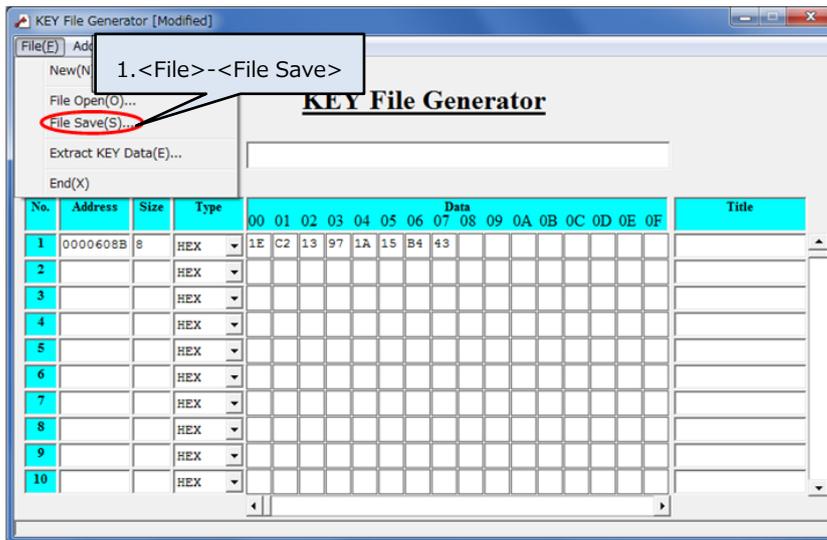


Input the value of security ID address, ID size and ID data.



(3) Save KEY file.(From the menu bar [File] menu, select <File Save>Select the KEY file (*.KEY) as a file type, and then specify a path for saving the KEY file.

Set the file name of KEY file, and then click the **Save** button.



● YSM File

By describing the SUM value of buffer memory and data of specific address in YSM file, you can check the SUM value or data of the user object whenever you execute the target action.

By using this function, you can prevent the programming of incorrect object data or the buffer memory corrupted accidentally.

This function can be used for checking the data of specified addresses. This makes it possible to check the version of a user object file also.

Create the YSM file you saved the SUM value of buffer memory, and then place it in YIM folder.

After the target action is completed, the programmer automatically compares the SUM value in the YSM file with the SUM value at when the target action was executed. If the values are not matched, it will result in an error (YSM CHECK ERROR).

Download the YSM file by using AZ990 as a bundle file.



See Chapter 4.3 for how to download the bundle file.

● Creating YSM file

This chapter explains how to create the YSM file.

(1) Start up AZ481 (KEY file generator).

(2) Create the YSM file by following the steps below.

Select **Address Sort Off** from **Option** on the menu bar.

Enter the data.

(1) Select <Option> - <Address Sort Off>

(2) Enter the data of SUM value to line 1.
 Address = 00000000 (Fixed)
 Size = 1 (Size of SUM value. Example: Size = 2 (2 byte))
 Data = SUM (Calculate SUM value by using **BufferSUM** of Basic Operation of AZ490)

1	00000000	1	HEX	00						
2	00000000	1	HEX	01						
3	00000100	6	HEX	01	02	03	04	05	06	
4	00000000	1	HEX	01						
5			HEX							
6										
7										
8										
9										
10										

(3) Enter the check flag for check/do not check the SAM value to line 2.
 Address = 00000000 (Fixed)
 Size = 1 (Fixed)
 Data = 01 or 00 Check 01/ Not check 00

(4) Set the data address and other information to check to line 3.
 Address = Data of the start address
 Size = Data size
 Data = data

(5) Enter the check flag for check/do not check the data of the line No.3 to the line No.4.
 Address = 00000000 (Fixed)
 Size = 1 (Fixed)
 Data = 01 or 00 Check 01/ Not check 00

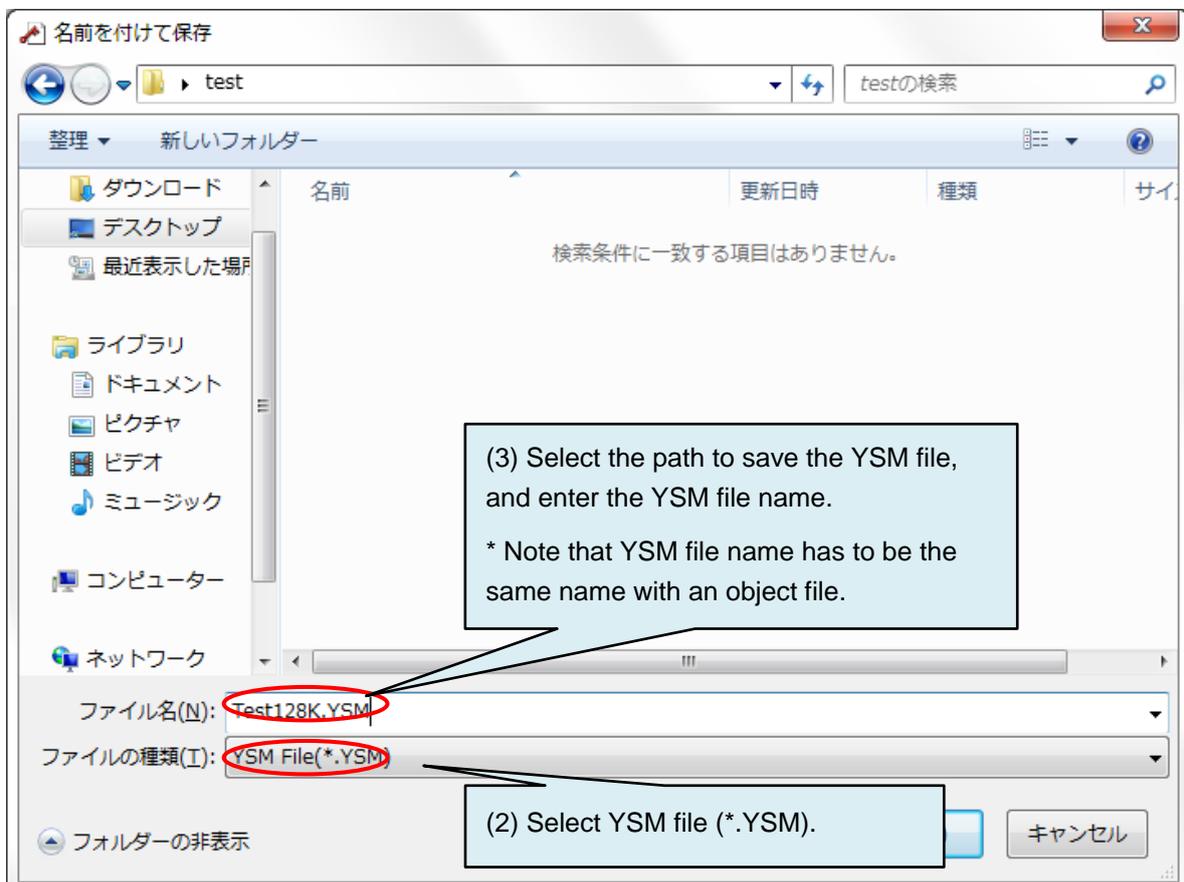
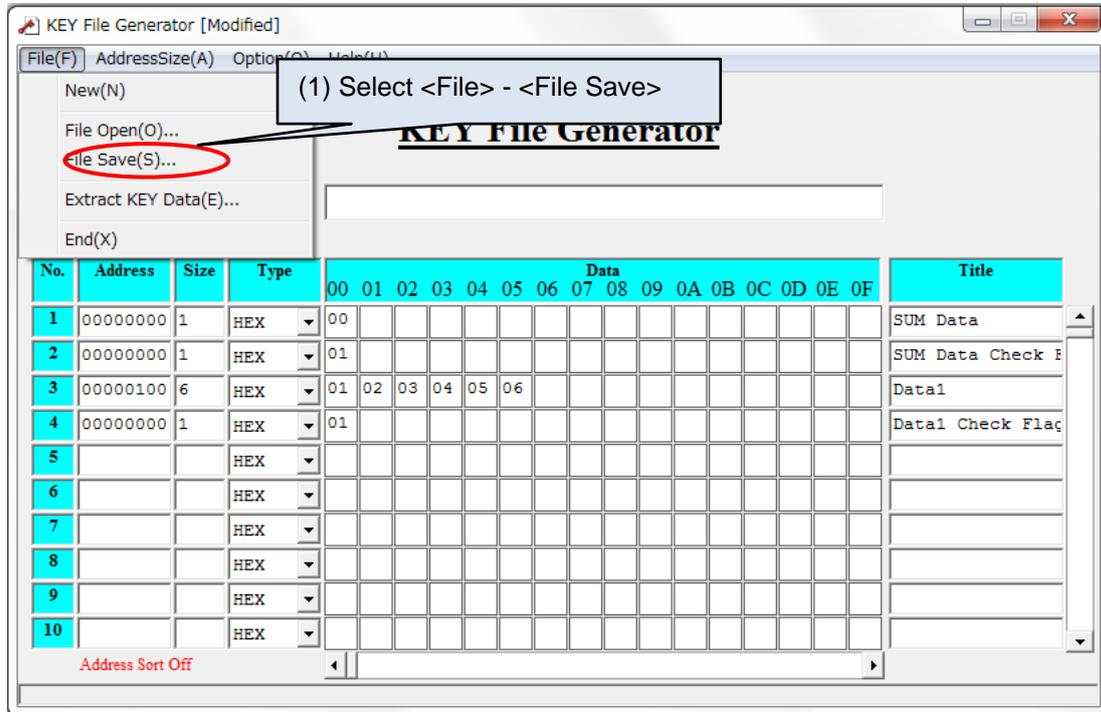
From line 3, you can add as many check data and check flag in a pair as you want up to 10 items.

(3) Click the **File Save** from the **File** on the menu bar to save YSM file. Select **YSM file (.YSM)** as the file format and enter the path for saving YSM file.

Set the file name of YSM file, and then click the **Save** button.



Note that YSM file name has to be the same name with the user object file.



8.1.3. Execution log

When the execution log function is ON, the log folder will be created underneath the SD card, and then a log file is created in it.

- Log file

Extension	<ul style="list-style-type: none"> ● File is saved with the format .ini.
File name	<ul style="list-style-type: none"> ● LOG_YYYYMMDDXXX.csv ● YYYY: year, MM: month, DD: day, XXX: the file number when the file is split
Data size	<ul style="list-style-type: none"> ● One LOG file holds up to 512 kbyte data. ● An execution log of target action can be saved 4000 times for each file. ● If the data exceeds 512kbyte for one file, a new file will be created.
Number of files	<ul style="list-style-type: none"> ● Maximum 200 files ● If the file exceeds 200 files in the folder, the oldest date file is deleted when the new log file is created.

8.1.4. ini file

ini file is the file for setting Wireless LAN. The setting of the Wireless LAN can be changed to the setting in ini file, when starting up NETIMPRESS air by describing the Wireless LAN settings into ini file.

Only one ini file can be placed in the root directory of the SD card.



Ini file becomes invalid if there are multiple files.

Extension	● Save the file with the format .ini .
File name	● Desired name with extension.ini.
Description format	● Setting item = 'setting value'

- Example for ini file description :

[HPARAM]

```
IP_ADDRESS = '192.168.1.50' // IP address
SUBNET_MASK = '255.255.0.0' // Subnet mask
GATEWAY = '192.168.0.254' // Default gateway
PORT = '0x1000' // Port number.
```

[WLAN]

```
WID_BSS_TYPE = 'BSS-STA' // BSS-STA、IBSS-STA
WID_CURRENT_CHANNEL = '1' // Select from 1 to 13
WID_11I_MODE = 'NONE' // NONE / WEP-64 / WEP-128 / WPA-TKIP / WPA2-AES
WID_SSID = 'NKA_FINAL' // SSID
WID_WEP_KEY_VALUE = '' // WEP key
WID_11I_PSK = '' // PSK
```

Parameter of setting IP address

Setting item	Contents and Value
[HPARAM]	● This is the parameter which is necessary to be set at the top of IP_ADDRESS etc.
IP_ADDRESS	● Set the IP address
SUBNET_MASK	● Set the Subnet mask
GATEWAY	● Set the gate way
PORT	● Set the port number of main unit

Parameter of WLAN setting

Setting item	Contents and Value
[WLAN]	This is the parameter which is necessary at the top of WLAN setting.
WID_BSS_TYPE	Setting of connection mode <ul style="list-style-type: none"> ● BSS-STA (Infrastructure) ● IBSS-STA(ad hoc)
WID_CURRENT_CHANNEL	Setting of connection mode <ul style="list-style-type: none"> ● Set number (from 1 to 13)
WID_11I_MODE	Encryption mode <ul style="list-style-type: none"> ● NONE:No encryption ● WEP-64:WEP64bit ● WEP-128:WEP128bit ● WPA-TKIP:WPA-PSK (TKIP) ● WPA2-AES:WPA-PSK (TKIP)
WID_SSID	Set any alphanumeric characters (1 to 32 characters).
WID_WEP_KEY_VALUE	This is used when selecting WEP-64 or WEP128 : Any alphanumeric characters. <ul style="list-style-type: none"> ● WEP-64:5 characters ● WEP-128:13 characters
WID_11I_PSK	This is used when selecting WPA-TKIP or WPA2-AES : Any alphanumeric characters. <ul style="list-style-type: none"> ● 8 to 63 characters

8.1.5. Update file

There are two formats for the update file: firmware update file (.APD) and PLD update file (.YHL). The firmware update file is used for executing update of firmware on AZ990.

PLD updating file, placed in the SD card, is used for executing update with NETIMPRESS air as a stand alone.

The file format is the binary format.

8.1.6. License file

License file is used when registering the definition program license to the SD card/NETIMPRESS air. License file can be downloaded from our website.

8.2. Error Message

8.2.1. Main unit

Error Code	Error message	Description
0x1002	NO LICENSE	No license is found.
0x1003	GROUP CODE ERR	Group code is different.
0x1004	CM FILE NOT FOUND	CM file does not exist.
0x1006	COM ID VER UNEXPECTED ERR	Version of the common part is old.
0x1007	CM ID VER UNEXPECTED ERR	Version of the specific part is old.
0x1008	FUNCTION NOT SUPPORT	Function is not supported.
0x1009	DEVICE FUNCTION NOT SUPPORT	T-ACT command is not supported.
0x1010	HPARAM CONST ERR	Hardware parameter is abnormal.
0x1013	HPARAM INI FORMAT ERR XX	Parameter name and parameter value at xx line of ini file is abnormal.
0x1015	PARAMETER ERR XX	Error when the definition program license program cannot be downloaded successfully.
0x1016	ADDRESS WARNING	Programming area is set smaller than whole area of target flash.
0x1020	S FILE FORMAT ERR	S format error (Object file is abnormal)
0x1021	HEX FILE FORMAT ERR	HEX format error (Object file is abnormal)
0x1022	FORMAT ERR(REC TYPE)	Record type error (Object file is abnormal)
0x1023	FORMAT ERR(ADDRESS)	Address field error (Object file is abnormal)
0x1024	FORMAT ERR(CHECK SUM)	Checksum error (Object file is abnormal)
0x1025	FORMAT ERR(CRLF)	CRLF code error (Object file is abnormal)
0x1026	FORMAT ERR(SIZE)	Record size error (Object file is abnormal)
0x1027	FORMAT ERR(S5)	S5 record check error (Object file is abnormal)
0x1028	FORMAT ERR(ASCII)	Binary conversion disabled data error (Object file is abnormal)

0x1029	DATA FORMAT ERR	Communication data format error (communication is abnormal)
0x102A	CM FORMAT ERR	Error when the definition program cannot be downloaded successfully.
0x102B	ADDRESS WARNING	Data, loaded into the buffer in the current YIM, includes data in an area other than target ROM.
0x1066	FULL PATH ERR	The length of folder/file name is exceeds its limit.
0x1067	PATH LENGTH ERR	The length of folder/file name is exceeds its limit.
0x106D	DOS FILE SIZE ERR	There is abnormal file in the SD card. Formatting is necessary.
0x106E	FILE SYSTEM ERR	System of the SD card is abnormal. Formatting is necessary.
0x1070	FILE READ ONLY ERR	Access is made to the read-only file.
0x1072	FILE NOT EXIST	The specified file is not found.
0x1073	FILE EXIST	File name you specified is already exists. Overwrite is not acceptable.
0x1074	FOLDER NOT EXIST	YIM folder, which is specified at the software number, does not exist in the SD card.
0x1075	FOLDER EXIST	The specified folder already exists.
0x1090	YSM CHECK ERR	YSM checksum error
0x1091	YSM CHECK ERR	YSM check buffer error
0x1092	YSM FILE FORMAT ERR	Format of YSM file is abnormal.
0x1093	YSM NOT FOUND	No YSM file is found.
0x10D0	CSB NOT FOUND	No CSB file is found.
0x10D1	MORE 2 CSB FILES	Two or more CSB files exist.
0x10D2	CSB FILE FORMAT ERR xxxx	CSB file format error
0x10A1	ETHER SEND TIMEOUT	WLAN sending time-out occurred. (WLAN communication error)
0x10A3	ETHER RECV TIMEOUT	WLAN receiving time-out occurred. (WLAN communication error)

0x10A4	ETHER ERR	WLAN communication is disconnected. (WLAN communication error)
0x10A6	USB RECV ERR	USB sending time-out occurred. (USB communication error)
0x10A7	USB SEND ERR	USB receiving time-out occurred. (USB communication error)
0x10A8	USB NOT CONNECT	USB is not connected (USB communication error)
0x10A5	NEXT COMMAND NOT RECV	Correct response cannot be received by WLAN communication. (WLAN communication error)
0x1108	DEVICE INITIALIZE COM ERR	Target cable check error when start up NETIMPRESS air.
0x1109	DEVICE ERR xx	Error while T-ACT executing.
0x110A	DEVICE ILLEGAL REPLY xx	Received abnormal data while communicating with the taeget system.
0x110C	SUM VERIFY ERR	Received abnormal data while communicating with the taeget system.
0x110E	BTP NOT FOUND	BTP file is not found.
0x 110F	MORE 2 BTP FILES	Two or more BTP files exist.
0x 1110	BTP FORMAT ERR	BTP file format error
0x 1111	KEY NOT FOUND	No KEY file is found.
0x 1112	MORE 2 KEY FILES	Two or more KEY files exist.
0x 1113	KEY FORMAT ERR	KEY file format error
0x 1114	KEY ERR	KEY check error
0x1118	VBAT TOO LOW XXXX	Error when the power suply of the target have a problem or the input voltage of NETIMPRESS air is low.
0x 1120-113F	xxxxx	Error occurs in the definition of the specific part.
0x1151	YIM PROTECTED	YIM folder is protected.

0x1180	YIM NOT REGISTER	YIM undefined error
0x1181	CM NOT REGIST	No definition program is found in the YIM folder set to the current directory.
0x1182	BUF NOT REGISTER	The buffer in the YIM folder set to the current directory is abnormal.
0x141F	INI FILE ERR	Format of ini file is abnormal.
0x1420	INI FILE NOT EXIST	No ini file is found.
0x1421	MORE 2 INI FILES	Two or more ini files exist.
0x1422	INI FILE OPEN ERR	ini file cannot be opened.
0x1603	ALC NOT FOUND	No license file is found.
0x1604	ALC FORMAT ERR	Format of the license file is not correct.
0xF000	FS_ERR_IO	Error when switching the SD cards during running NETIMPRESS air.
0xF001	FS_ERR_FHDL	Error when the file is broken or the SD card cannot be recognized. *1
0xF002	FS_ERR_FS	
0xF003	FS_ERR_NOMEM	
0xF004	FS_ERR_NEED_CHECK	
0xF005	FS_ERR_BAD_DEV	
0xF006	FS_ERR_PERMIT	Fail to access a file due to file attribute or user protection attribute.
0xF007	FS_ERR_BAD_FS_NAME	Error when the file is broken or the SD card cannot be recognized. *1
0xF008	FS_ERR_TOO_MANY	
0xF009	FS_ERR_EXIST	
0xF010	FS_ERR_BUSY	

0xF011	FS_ERR_TOO_LONG	Error when the file is broken or the SD card cannot be recognized. *1
0xF012	FS_ERR_NOT_FOUND	
0xF013	FS_ERR_BAD_MODE	
0xF014	FS_ERR_SHOULD_CLOSE	
0xF015	GRP_FS_ERR_BAD_OFF	
0xF016	FS_ERR_NO_SPACE	Error for capacity lack of the SD card.
0xF017	FS_ERR_BAD_NAME	Error when the file is broken or the SD card cannot be recognized. *1
0xF018	FS_ERR_BAD_DIR	
0xF019	FS_ERR_BAD_TYPE	
0xF020	FS_ERR_XFS	
0xF021	FS_ERR_BAD_PARAM	
0xF022	FS_ERR_TOO_BIG	Error when the file is broken or the SD card cannot be recognized. *1
0xF023	FS_ERR_SEM	
0xF024	FS_ERR_NOT_SUPPORT	
0xF025	ERR_SD_READ_ERROR	
0xF026	ERR_SD_WRITE_ERROR	

*1 This error message appears if the file in the SD card is broken or failed to access the SD card. Check if NETIMPRESS air operates correctly by removing and inserting the SD card again, or deleting file/folder, you accessed when the error occurred, from PC.

*2 Execute unmounting for error release. Remove and insert the SD card to NETIMPRESS air to unmount.

8.2.2. AZ990

Error Code	Description	Details
63:NEW FILE ERR	Log file setting is not correct	Log file setting of universal command is not correct.
100:File not found.	File is not found.	Check if the file exists.
101:File access error.	Fail to access file.	The file may be corrupted. Check if the file is saved correctly in the SD card.
102:File format error.	Format of file is abnormal.	Check the format of file.
103:Irregular parameters	Parameter file is abnormal	Check the parameter file.
104:Con not use double byte character to filename	Error of using double-byte characters	Double-byte character cannot be used for the file name. Check the file name.
110:Can not Connected to AF930. 01	Connection is abnormal	Check the connection with host PC.
111:AF930 Time Out. xx	Communication Time out	Check the connection with host PC. Check the communication of NETIMPRESS air and Target system.
112:Invalid data.	Data setting error	Enter a correct value.
113:Can not Communication Break	Disconnect Ether communication error	Fail to execute forced termination of Ether communication.
114:Not IP Address	Error when entering IP address	Set IP address.
115:The search name is not defined	Search file name error	Enter the file name to be searched.
116:File Name Error	File name error	File name is not correct. Check the file name.
117:Folder Name Error	Folder name error	Folder name is not correct. Check the file name.
118:Folder not found.	Folder error	Folder does not exist. Check the file name.
119:YIM Folder Load Error.	YIM folder loading error	Error occurs during loading YIM folder.
120:Device function error.	Error for executing target action	Error occurs during running the target action.
121:Command Not Support	Unsupported command	The command is not supported.
122:YIM Folder System Error	YIM folder system error	System of YIM folder is not correct.
123:Folder Path Error	Save destination folder path error	Folder of save destination does not exist.

124:YIM Folder Name Error.	Folder name error	YIM folder is not selected.
125:YIM Folder Save Error.	Error when saving YIM folder.	Error occurs during saving YIM folder.
126:Log file access error.	Error when accessing log file	Error occurs during accessing log file.
127:Time Set Error	Error for setting the time	Error occurs during setting the time on NETIMPRESS air.
128:Log Function Set Error	Setting log conditions error	Error occurs during setting log conditions.
131:Time Parameter Error	Error of parameter for setting the time	The time is not set up correctly.
133:Format error.	Error for communication data format	Format of data sent to host PC is abnormal. Contact our support center.
140:Remote2.ini File Format Error	Remote2.ini file error	Format of Remote2.ini file is not correct. Contact our support center.
150:WLAN set Error	Wireless LAN setting error	Failed to obtain Wireless LAN setting of NETIMPRESS air.
151:WLAN get Error	Error for obtaining Wireless LAN setting	Failed to obtain Wireless LAN setting of NETIMPRESS air.
160:Folder Name Error	Error for name of Batch Download folder	The name of the folder specified to be executed Batch Download is incorrect.
161:Folder Not Found.	Error for specifying Batch Download folder	The folder specified to be executed Batch Download does not exist.
162:Folder Format Error.	Format of Batch Download folder error	The configuration of the folder specified to be executed Batch Download is incorrect.
163:File Not Found.	Batch Download file placing error	No Definition program file/parameter file is found in prescribed part of the specified folder for Batch Download.
164:File Count Error.	Batch Download file placing error	More than one definition program file/parameter files is found in prescribed part of the specified folder for Batch Download.
165:File Name Error.	Error for name of Batch Download file	The name of the file in the folder specified to be executed Batch Download is incorrect.
181:File Drop Error.	File drop error	File is dragged & dropped on to the folder/file list window.

182:Folder Name Error.	Folder name error	The folder is not YIM folder which is dragged & dropped onto the folder/file list window.
200:Current Module Undefined.	Setting of current folder error	The setting of current folder is not made or definition program license is not downloaded in the current folder. Check if a file is set to the current folder and the definition program file is downloaded in the current folder.
201:Module not found.	YIM folder selection error	YIM folder does not exist.
202:Download File Unmatching.	Parameter file error	The parameter file to be loaded is not correct. Check the parameter file is correct.
203:Module Name is too long.	File name error	File name is too long. Check the file name is correct.
204:YIM Folder Full	YIM folder is full in the SD card.	YIM folder cannot be created any further. Delete YIM folder which is not necessary in the SD card.
205:Control File Full	File full	File cannot be created in root of the SD card any further. Delete files which are not necessary.
206:Current Module File Full	Current folder is full of files	File cannot be created in the current folder any further. Delete files which are not necessary.
207:YIM folder is not selected.	Unselection YIM folder error	YIM folder is not selected. Select YIM folder.
900:This function is not support.	Execution function error	This function is not supported.
901:Folder is not selected.	YIM folder is not selected	Select the YIM folder before executing the function.
1066:Full Path Error!	Full path error	The full path of file/folder is not correct, or file/folder does not exist in the path.
1202:The number of files is over!	Error for number of files	The number of files is exceeds its limit.
1203:The number of files and folders is over!	Error for number of file/folder	The number of files/folders is exceeds its limit.
Not Execute	Unselection YIM folder execution error	Even though YIM folder is not selected, the status of selecting YIM folder is wanted to obtain.

Busy	Running other commands	Other commands are currently running. Execute a command after the command currently executing is completed.
xxx:FILE CLOSE ERR	File close error (S2)	Error occurs during closing a file.
xxx:S FORMAT ERR	Motorola S format error	Format of a S file is not correct.
xxx:HEX FORMAT ERR	Intel HEX format error	Format of a HEX file is not correct.
xxx:FORMAT ERR	Format error	Format of file is not correct.
xxx:ERR UNKOWN	Unexpected error (S2)	Unexpected error is occurred.
Other command executing	Running another commands	Another command is running.
Parameters are not set into AF930	Parameter modification is not reflected.	The modified parameter is not sent to NETIMPRESS air. Click ths Set Parameter button to reflect the parameter.
Buffer Area(FUNC F5) Data Data Error	Setting error	Buffer memory range is not set up correctly.
Target Action Address Data Error	Setting error	Target action executing range is not set up correctly.
Flash ROM First Address Data Error	Setting error	Start address of flash memory is not set up correctly.
Flash ROM Last Address Data Error	Setting error	Last address of flash memory is not set up correctly.
ROM Block Address Data Error	Setting error	Address set to block configuration is not set up correctly.
ROM Block Size Data Error	Setting error	Block size of block configuration is not set up correctly.
~ is access error!	File access error	Failed to access file.
This file is NOT Motorola S recode file or Intel HEX file	File format error	Format is not Motorola S or Intel HEX file.
~ is not accessible	File access error	Failed to access file.
Wrong File	Parameter error	Format of parameter file is not correct.
FOLDER IS EXIST	File name error	Folder which has the same name exists.

Invalid Password, try again	Password error	Password is not correct.
U1:COMMAND FILE NOT FOUND	File name error	File mane is not correct.
Writer Time Error	Error for obtaining the time set in NETIMPRESS air	Error occurred during obtaining the time set to NETIMPRESS air. There is a problem in the connection or the setting time. If the time set to NETIMPRESS air has problem, contact our support center.



NETIMPRESS air Operation Manual for Programmer

DTS INSIGHT CORPORATION

URL : http://www.dts-insight.co.jp/en/support/support_netimpress_air/

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