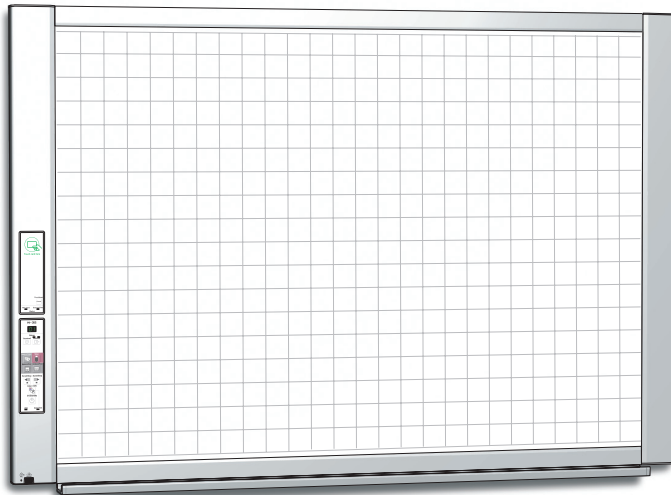


PLUS

N-32 Series Network Manual



Thank you for your purchase of the PLUS Network board.
Please read this N-32 Series Network Manual carefully before use
to take full advantage of the functions of this product. Also read the
separate User's Manual as appropriate. After you have finished read-
ing the manuals, please keep them for future reference.

Introduction

This manual is for the network board (model name: N-32S/N-32W/N-324), providing how to use this product on a network.

For using the network board, refer to the separate “N-32 Series User's Manual”.

- **Via wired LAN you can:**
 - print out scanned images to a FTP supported network printer.
 - use the IC card to store images on a specific folder on an FTP server.(multiple save location setting information can be registered)
 - use the IC card to send the mail with the image attached to the specified address.

Cautions on using networks

About the network connection environment

- The required operating environment is subject to change without notice. Also, PLUS does not guarantee all operations.
- Even if all required operating environment conditions are met, it may happen that operations do not work properly or that some problems arise. Depending on the communications status, displays may be delayed and communication errors may occur.

Disclaimer

- PLUS will accept no responsibility whatsoever for any consequences of problems of communication impediments in connected devices due to the network functions.
- PLUS will accept no responsibility whatsoever for impediments incidental to usage of or the inability to use the network functions (loss of business profits, losses due to interruption of activities, etc.).
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- (4) Notwithstanding Section (3), this company will not be responsible for any claims of loss or profit or other matters deemed to be the result of using this unit.
- (5) Since printer connected with the network board is based on the use as a peripheral device for the PLUS network board, we do not warrant direct connection with a computer.
- (6) Manuals with incorrect collating or missing pages will be replaced.

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Meaning of the Terms Used in this Manual

- Main unit (or set): This refers to the network board.
- USB memory: refers to USB flash memory.
- USB memory storage: means the saving of sheet surface data using MEMORY (i.e., the USB port) of the operation panel.
- Memory for computer storage: indicates a temporary saving location of the image that has been read.
- “copy”: Both “print” and “USB memory saving” mean to “copy.”
- “Sheet surface”: refer to the drawing portion.
- “Scroll” or “move”: indicates feeding of the sheet
- Network: The communications network on which devices are interconnected in net fashion for communication (exchange of data) between the devices. For this network board, the “network” indicates the LAN below.
- LAN (Local Area Network): A closed communications network for communicating within a restricted area, such as within a company.
- FTP (File Transfer Protocol): The protocol (communications rules) used when transferring files on a TCP/IP network.
- SMTP (Simple Mail Transfer Protocol): This is the protocol used when transferring e-mail on TCP/IP networks.
- LDAP (Lightweight Directory Access Protocol): This is the protocol for accessing the service that centrally manages information on network users on TCP/IP networks (the directory service).

Setting before using a network

Simple Network Settings (via USB)

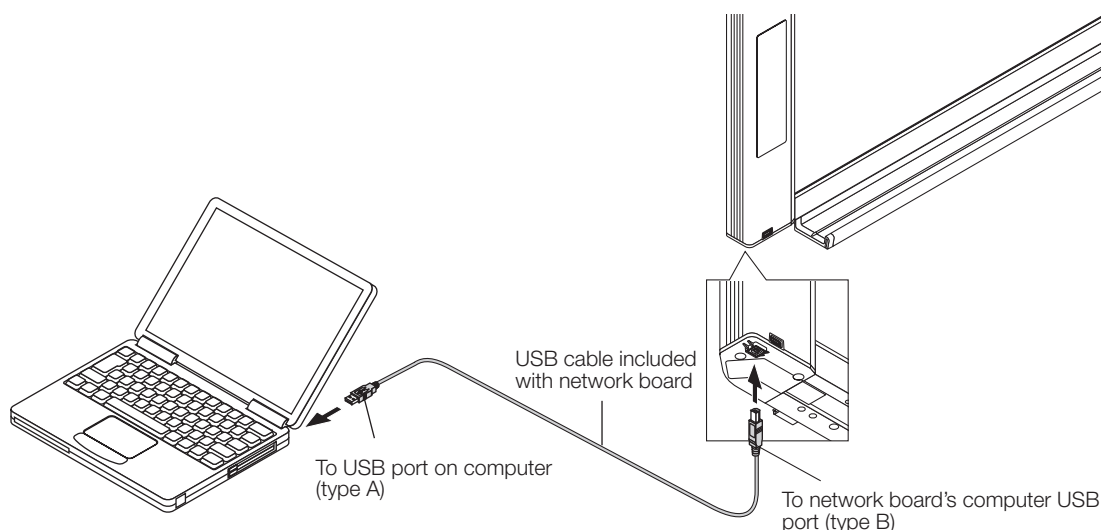
Upon purchase (by default), the network board's IP address and subnet mask are not yet set. When first connecting the network board to a network to use it, use the simple network settings to set the network board's IP address on the network following the procedure below.

Notice

- When making network settings, following the instructions of the network administrator.
- It is not possible to format the computer storage memory from the computer.
- Do not press operation buttons on the network board while the computer storage memory is being accessed from the computer. Doing so will result in increased time for response between the computer and network board, and operations may not be possible.

1 Turn on the network board's power and connect the network board's computer USB port for (type B) to the computer using a USB cable.

- The standard driver is installed automatically and the network board is recognized by the computer as a removable device.



2 Start up Explorer, and in this open the network board (removable device).

When this unit's device (the model name is displayed) is double-clicked, this unit's memory for computer storage opens.

3 Use a program on the computer (Notepad, etc.) to open the "setting.ini" file in the "setup" folder.

- 1 Double-click the "setup" folder to open it.
- 2 Open the "setting.ini" file (text format) located in this folder using Notepad or another program on the computer and directly overwrite the contents of the settings file.
 - The only characters that can be input are numbers and periods.
Do not insert any spaces. If so, the file will be identified as corrupt when the network board is started and the settings will be reset to the defaults.

Setting before using a network

Contents upon purchase and when network settings are reset

Version:04.00.00.05.00.00.52 Displays the firmware version of the network board
 MAC Address Displays the MAC address of the network board
 Terminal Name Displays the terminal name of the network board

 DHCP=off Input the DHCP
 IP Address= Input the IP address.
 Subnet Mask= Input the subnet mask.
 Default Gateway= Input the default gateway if necessary.

Item	Item name	Setting	Default
Firmware version	Version	Cannot be changed	
MAC address	MAC Address	Cannot be changed	
Terminal name	Terminal Name	Cannot be changed	
DHCP	DHCP	Off: Manual On: Auto	On
IP address	IP Address	Any value	Blank
Subnet mask	Subnet Mask	Any value	Blank
Default gateway	Default Gateway	Any value	Blank

Example of setting

(To manually assign an IP address)

DHCP=off
 IP Address=192.168.11.120
 Subnet Mask=255.255.255.0
 Default Gateway=192.168.11.1

(To automatically assign an IP address)

DHCP=on
 IP Address=
 Subnet Mask=
 Default Gateway=

4

Save the “setting.ini” settings file, overwriting the previous file.

Save to location: “setup” folder on network board (removable disk)

File name: setting.ini

- We recommend making a note of changed settings for future reference.
- When the contents of setting.ini are saved, this unit restarts.

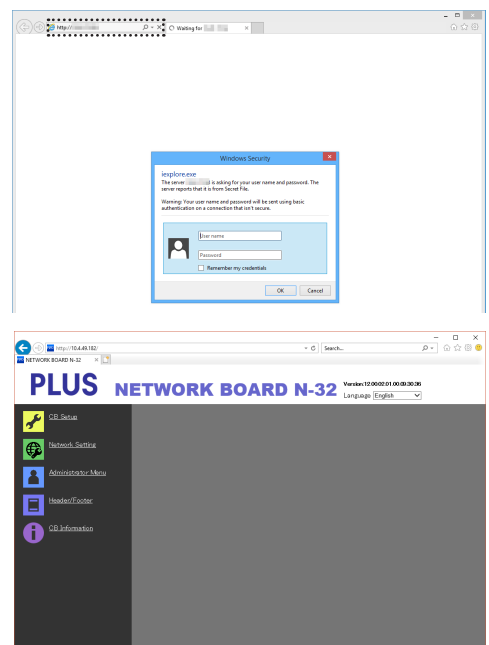
5

Check the connection.

- 1 Connect one end of the LAN cable to the LAN port of the lower side of the network board and connect the other end of the LAN cable to a network device such as a router and a switching hub.
- 2 Launch a web browser (ex.: Internet Explorer) on a computer connected to network.
- 3 In the address field, input the IP address that was set or the terminal name of the network board, and then press the [Enter] key.

When the network board has been correctly connected to network, the user authentication screen appears.

- No password is set upon purchase.
 Input “admin” in alphanumeric characters in the User Name field and click [OK].



continued on next page

Setting before using a network

If the network board's top screen does not open

- Have you made a mistake inputting the IP address that was set?
- Is the network board's LAN terminal properly connected to a LAN port on the network?
- When using a proxy server, add the network board's IP address to the "Exceptions" in the proxy's settings to set so that the proxy is not used.

If DHCP is set to [Off], the problem may be caused by the following:

- Is the IP address that was set being used by another device?
- If multiple units of this network board are connected, are they connected to the network with the same IP address?
- Is the IP address that was set within the automatic acquisition range of the DHCP of the router, etc.?

Making Detailed Settings (via LAN)

Use this procedure to make the network board device settings ("CB Setup"), network settings, etc., with the network board connected to a local area network (hereafter referred to as "LAN" or "the network") using a computer's web browser.

Access authority is required to make the detailed settings.

Register the administrator following "Administrator Menu – User Settings" on page E-20 .

Notice

- When connecting the network board to the network, be sure to consult the network administrator before making the settings.

Note

- Depending on the network being used, the display speed and button response may be slow and operations may not be performed. If this happens, consult your network administrator. Also, the network board may not respond if buttons are operated successively. In this case, wait awhile then operate again. If there is no response after a while, turn off the network board's power, then turn the power back on.
- If the top screen does not display with a web browser, press the [Ctrl] + [F5] keys to refresh the web browser's screen.
- The network board uses JavaScript and cookies. Set the web browser so that these functions will operate.
- The network board performs automatic page reading (redirecting). Set the web browser so that this function will operate.
- With SSL enabled on HTTP, a security certificate warning is displayed when this website is accessed by the Web browser. In this case, select "Continue to this website (not recommended)" to continue your operation.

Setting before using a network

Basic Setting Operations

Here we explain how to display and close the settings screens, using the Internet Explorer web browser as an example.

Preparations:

1. Use a LAN cable to connect the network board's LAN terminal to the LAN port on the switching hub.
2. Turn on the network board's power.

1

Launch the web browser on the computer connected to the network.

"Page cannot be displayed" may in some cases appear, but simply continue to the next step.

2

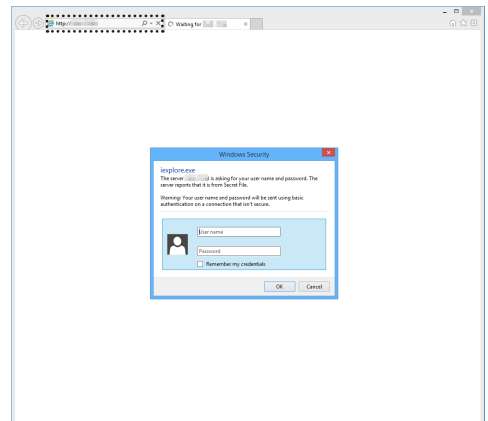
Input the network board's IP address.

In the web browser's URL field, input the IP address that was set, and then press the [Enter] key. Entry must be in alphanumeric characters. When the network board has been correctly connected to network, the user authentication screen appears. Input the User Name and Password, and then click [OK].

- No password is set upon purchase. Input "admin" in alphanumeric characters in the User Name field and click [OK].

Note

- The user name and password are case sensitive. Be sure to input them properly.
- The account is locked after three incorrect password attempts. To unlock, unplug the power cord from the power outlet then plug it back in.



Connecting the network board to the network upon purchase

Upon purchase, the network board's IP address and subnet mask are not yet set. Be sure to check the section "Simple Network Settings (via USB)" (see page E-4) and set the IP address, etc.

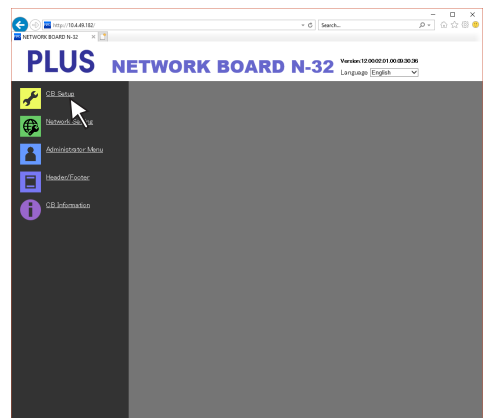
3

From the menu, click the desired setting item.

The page you required is displayed.

See the description on each appropriate page.

- CB Setup (page E-9)
- Network Setting
 - Board/Printer Setting (page E-11)
 - Dedicated IC Card Setting (page E-13)
 - Generic NFC Card Setting (page E-14)
 - Mail Address Maintenance (page E-17)
 - External Authentication Setting (page E-18)
 - SSL Setting (page E-19)
- Administrator Menu
 - User Setting (page E-20)
 - Security Setting (page E-21)
 - Memory Management (page E-21)
- Header/Footer (page E-22)
- CB Information (page E-22)

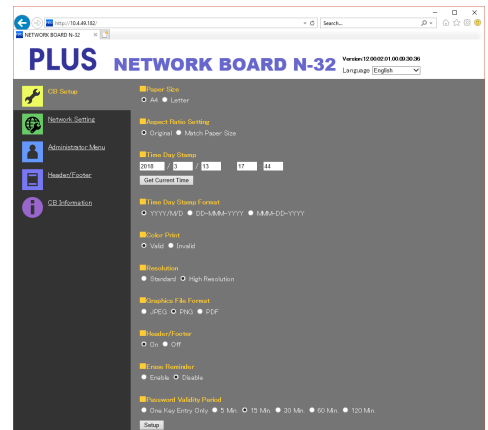


Setting before using a network

4

Make the changes or settings.

The screen at the right is an example of what may be displayed, here showing the “CB Setup” page.



Selecting and inputting

Radio buttons

One of the selection items can be selected. When ☐ is clicked, it switches to ☒.



Input boxes

When a box is clicked, the arrow cursor switches to the “|” character input cursor. Input characters in the same way as you would on a computer.

- The characters that can be input are restricted according to the item's type of setting. (See page "E-11"- "E-15", E-18, E-20)



Browse and Upload buttons

See “Header/Footer”. (Page E-22)



Setup button

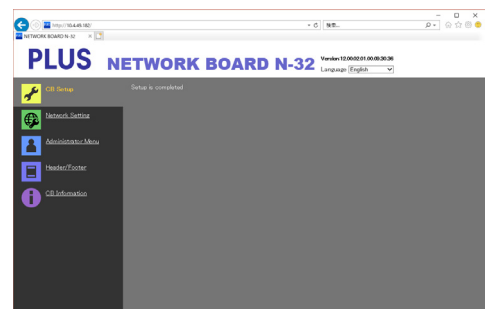
When clicked, the settings/changes are sent to the network board, overwriting previous settings.

Once overwriting is completed, the “CB Setup” page switches to the “Setup is completed” character display.

- If the IP address in the network settings, etc., has been changed, the network board reboots. (See page E-12.)

Setup

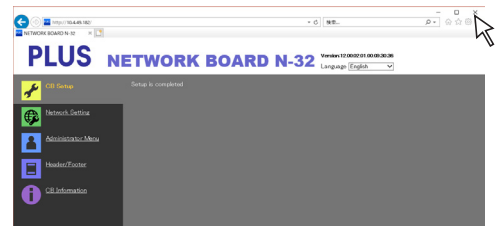
After making settings or changes, be sure to click the “Setup” button to overwrite the previous settings on the network board.



5

Close the web browser.

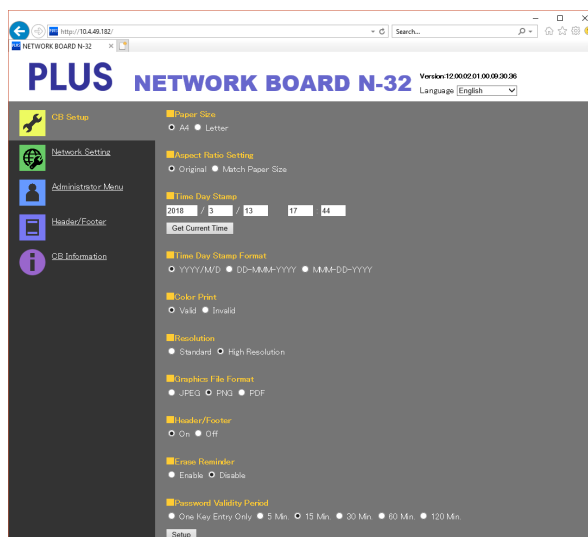
Click the web browser's close button ([X]) to close it.



Setting before using a network

CB Setup

This is the page where the network board's various functions are set and changed. The settings are the same as on "Table of Function Numbers and Settings" in the section on making the settings operating the network board's buttons.



Copyboard Setting Item	Setting/Description	Default
Paper size	Select the printing paper size.	Letter/A4 (North America/Other)
Aspect Ratio Setting	Select the aspect ratio for printing.	Match to printing paper size
Time Date Stamp	Set the network board's date and time. Input as follows: Year: 4 digits, Month: 2 digits (Ex.: 03 for March), Day: 2 digits (Ex.: 06 for the 6th), Hours: 2 digits in 24-hour mode (Ex.: 14 for 2 pm, 06 for 6 am), Minutes: 2 digits (Ex.: 00 for 0 minutes) • Do not insert spaces. If the date and time setting values are incorrect, an error message is displayed. Get Current Time: When the "Get Current Time" button is clicked, the display switches to the computer's current time. This eliminates the need to make the current date and time setting.	
Time Day Stamp Format	Select the format in which the date and time are displayed. Example: YYYY/M/D 2018/1/23 01:23 DD-MMM-YYYY 23-Jan-2018 01:23 MMM-DD-YYYY Jan-23-2018 01:23	MMM-DD-YYYY/ DD-MMM-YYYY (North America/Other)
Color Printing	Color printing can be set to Valid or Invalid.	Valid
Resolution	Select the resolution at which scanned images are saved.	Standard
Graphics File Format	Select the format in which scanned images are saved.	PDF
Header/Footer	Set whether or not to output the header/footer information registered on the network board.	Disable (Off)
Erase Reminder	Set the erase reminder function.	Disable

continued on next page

Setting before using a network

Copyboard Setting Item	Setting/Description	Default
Password Validity Period	<ul style="list-style-type: none">• This sets the time for which the password. The password is issued or shown when the Show password button on the smartphone application (MTG Pocket ^(Note 1)), at which time the password is displayed on the display window on the copyboard's control panel.• When set to "One Key Entry Only", only one command is only accepted once after the password is issued. To perform remote control again, issue a new password by pressing the Show password button.	15 minutes
Setup	When the [Setup] button is clicked, the above settings/changes are sent to the network board, overwriting previous settings. Once overwriting is completed, the "CB Setup" page switches to the "Setup is completed" character display.	

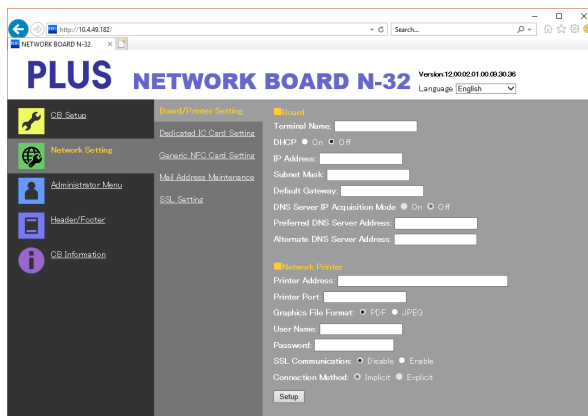
(Note 1) MTG Pocket is an app for smartphone, which allows you to remotely operate the copyboard from your smartphone and import images of writing on the board. The "MTG Pocket" operating instructions can be viewed from the application's help file and on the following PLUS website: http://www.plus-vision.com/en/product/mtg_pocket/

Setting before using a network

Network Setting — Board/Printer Setting

Follow the instructions in the chart to set Network Board and Network Printer.

Network Printer setting will enable to use some FTP supported printer. Some printer may not be compatible.



Board/Printer Setting Item		Setting/Description	Default
Board	Terminal Name	Input the Terminal Name of the network board on the network. • The terminal name must be 15 alpha numeric characters or less. Available symbol is “- (Hyphen)” only. A combination of numbers cannot be used.	Model name - last 6 digits ^(Note4) (Example: N32-ABCDEF)
	DHCP	Select to assign an IP address automatically or manually. On: The DHCP server on the network automatically assigns an IP address, Subnet Mask, and Default Gateway. Off: Assigns an IP address, Subnet Mask, and Default Gateway manually.	On
	IP Address ^(Note1)	Assign the IP address of the network board manually. If connecting to a network using the DHCP of a router, change to an IP address outside of range of automatic acquisition.	Blank
	Subnet Mask ^(Note1)	Set the Subnet Mask of the network board manually.	Blank
	Default Gateway ^(Note1)	Set the Default Gateway of the network board manually.	Blank
	DNS server IP acquisition method ^(NOTE 2)	Select whether to acquire the DNS server's IP address automatically or manually. On: Assigned automatically by the DHCP server. Off: Set manually.	On
	Preferred DNS server ^(NOTE3)	Set the preferred DNS server address.	Blank
	Alternate DNS server ^(NOTE3)	Set the alternate DNS server address.	Blank
Network Printer	Printer IP Address	Set IP address which is displayed in the Network setting field of FTP supported network printer or “PrinterServer for PLUS Copyboard”.	Blank
	Printer Port	Set port number which is displayed in the Network setting field of FTP supported network printer or “PrinterServer for PLUS Copyboard”.	Blank
	Graphics File Format	Set graphic format in which image is sent to FTP supported network printer or “PrinterServer for PLUS Copyboard”. When using “PrinterServer for PLUS Copyboard”, select JPEG.	PDF
	User Name	This is a user name which was registered in the Network setting field of FTP supported network printer or “PrinterServer for PLUS Copyboard”. The User Name must be 32 alphanumeric characters or less. See List of Available Symbols.	Blank

continued on next page

Setting before using a network

Board/Printer Setting Item		Setting/Description	Default
Network Printer	Password	This is the password which was registered in the Network setting field of FTP supported network printer or "PrinterServer for PLUS Copyboard" The Password must be 32 alphanumeric characters or less. See List of Available Symbols	Blank
	SSL Communication	Select Enable or Disable for SSL in FTP communication with FTP supported network printer. When using "PrinterServer for PLUS Copyboard", select Disable.	Disable
	Connection Method	Select Implicit or Explicit for FTPS communication with FTP supported network printer.	Implicit
Setup		<ul style="list-style-type: none"> When Board is set or changed When the [Setup] button is clicked, the above settings/changes are sent to the network board, overwriting previous settings. Once overwriting is completed, the display switches to the "Setup is completed. Rebooting. Wait for a while." character display. During rebooting, the network board's display window LEDs flash in circular motion. Wait until they turn off. After rebooting, the web browser will not be updated automatically. When Network Printer is set or changed When the Network Printer is set or changed, "Setup is completed" is displayed. Rebooting will not be done. 	—

(NOTE1) This cannot be input when the IP acquisition method is set to auto.

(NOTE2) This cannot be set automatically when the IP acquisition method is set to manual.

(NOTE3) This cannot be input when the DNS server IP acquisition method is set to auto.

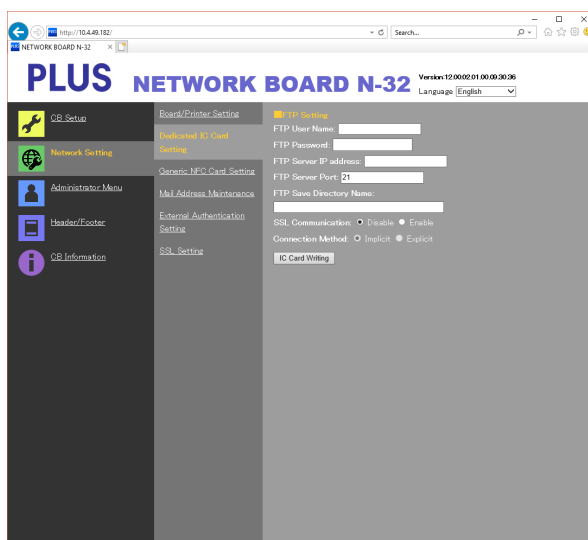
(NOTE4) The initially set server name is not displayed in the Web browser. Check the setting.ini file. (Refer to page E-4.)

(NOTE5) For more information about setting up your FTP supported network printer, consult your printer manufacturer.

Setting before using a network

Network Setting — Dedicated IC Card Setting

Write the FTP server settings onto the dedicated IC card.



Dedicated IC Card Setting Item		Setting/Description	Default
FTP Setting	FTP User Name	This is the user name registered on the FTP server. This is required for the network board to log in to the FTP server and save image files. • Input 32 alphanumeric characters or less. See List of Available Symbols.	Blank
	FTP Password	This is the password registered on the FTP server. This is required for the network board to log in to the FTP server and save image files. • Input 32 alphanumeric characters or less. See List of Available Symbols.	Blank
	FTP Server IP Address	Input the FTP server's IP address.	Blank
	FTP Server Port	This is the FTP server's standard control port number. Normally use with this number. If the FTP server's port number has been changed, change this following the instructions of the network administrator.	21
	FTP Save Directory Name	Input the name of the subfolder in the FTP server folder in which image files are saved. • Input 200 alphanumeric characters or less. See List of Available Symbols.	Blank
	SSL Communicatio	Select Enable or Disable for SSL in FTP communication.	Disable
	Connection Method	Select Implicit or Explicit for FTPS connection method.	Implicit
IC Card Writing (Note 1)		Writes the current visible save location setting information to the IC card.	—

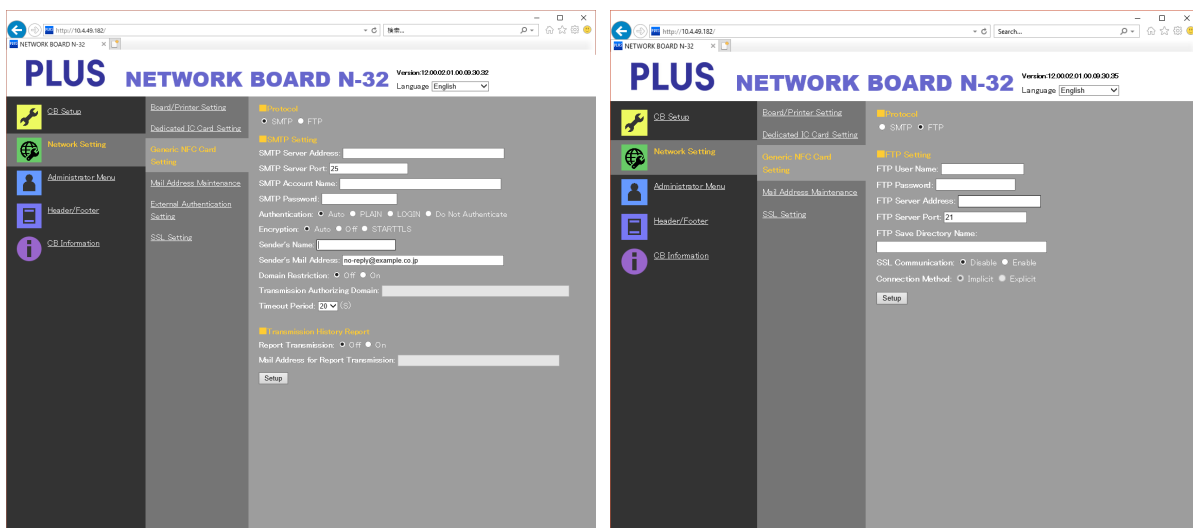
(Note 1)

- For writing to IC card, see "Writing Save Location Setting Information to IC Card" on page E-23.

Setting before using a network

Network Setting — Generic NFC Card Setting

Select SMTP or FTP as the transmission protocol for scanned images when using generic NFC cards and make the various settings according to the selection.



Generic IC Card Setting Item		Setting/Description	Default
Protocol		Select SMTP or FTP as the transmission protocol for sending scanned images. The contents of the setting items switch according to the selection. (Note 1)	SMTP
SMTP Setting	SMTP Server Address	Set the SMTP server address to be used for sending mail. • Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	SMTP Server Port	This is the SMTP server standard control port number. Set the port number according to the usage environment.	25
	SMTP Account Name	This is the user name registered on the SMTP server. It is required for this unit to log in to the SMTP server and send mail. • Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	SMTP Password	This is the password registered on the SMTP server. It is required for this unit to log in to the SMTP server and send mail. • Input a maximum of 32 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	Authentication	Select the method of authentication of the SMTP server. When Auto is selected, the setting switches automatically between no authentication, plain and login. Set the method of authentication according to the usage environment.	Auto
	Encryption	Make the SMTP encryption settings. When Auto is selected, the setting switches automatically between encryption/no encryption.	Auto
	Sender's Name	Set the name of the sender displayed when this unit sends mail. • Input a maximum of 15 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank

continued on next page

Setting before using a network

Generic IC Card Setting Item		Setting/Description	Default
SMTP Setting	Sender's Mail Address	Set the mail address displayed when this unit sends mail. Depending on the server, it may not be possible to send mail if this is not the same as the account name. Set it according to the usage environment. <ul style="list-style-type: none"> Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used. 	no-reply@example.co.jp
	Domain Restriction	Make the settings to restrict recipient mail address domains. If "On" is set, the domains to which sending of mail is allowed can be sent can be set.	Off
	Transmission Authorizing Domain	Set the domains to which sending of mail is allowed. Multiple domains can be registered. To register multiple domains, input the domains separated by commas (","), (Example: example.jp,example.com) <ul style="list-style-type: none"> Input a maximum of 256 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used. 	Blank
	Timeout Period	Set the timeout period for communications with the SMTP server. Set this according to the usage environment.	20
Transmission History Report	Report Transmission	Set whether or not to send transmission history reports. If "Yes" is set, a transmission history report is sent each time an e-mail with attached image is sent.	off
	Mail Address for Report Transmission	Set the recipient mail address for the transmission history reports. <ul style="list-style-type: none"> Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used. 	Blank
FTP Setting	FTP User Name	This is the user name registered on the FTP server. This is required for the network board to log in to the FTP server and save image files. <ul style="list-style-type: none"> Input 32 alphanumeric characters or less. See List of Available Symbols. 	Blank
	FTP Password	This is the password registered on the FTP server. This is required for the network board to log in to the FTP server and save image files. <ul style="list-style-type: none"> Input 32 alphanumeric characters or less. See List of Available Symbols. 	Blank
	FTP Server IP Address	Input the FTP server's IP address.	Blank
	FTP Server Port	This is the FTP server's standard control port number. Normally use with this number. If the FTP server's port number has been changed, change this following the instructions of the network administrator.	21
	FTP Save Directory Name	Input the name of the subfolder in the FTP server folder. Image files are saved in a subfolder with the mail address account name registered on this unit under the folder set here. ^(Note1) <ul style="list-style-type: none"> Input 200 alphanumeric characters or less. See List of Available Symbols. 	Blank
	SSL Communication	Select Enable or Disable for SSL in FTP communication.	Disable
	Connection Method	Select Implicit or Explicit for FTPS connection method.	Implicit
Setup		When the [Setup] button is clicked, the above settings/changes are sent to the main unit, overwriting the previous settings. Once overwriting is completed, the display on the Generic IC Card Setting page switches to "Setup is completed".	—

continued on next page

Setting before using a network

- **Title and text of e-mail to be sent (The title and text cannot be changed.)**

- E-mail with image attached**

- Title: MESSAGE FROM N-32

- Text: This is an automatically generated email, please do not reply.

- Transmission history report**

- Title: Report form N-32

- Text: MAIL ADDRESS = "recipient mail address of e-mail with image attached"

- DATE = "date e-mail with image attached was sent"

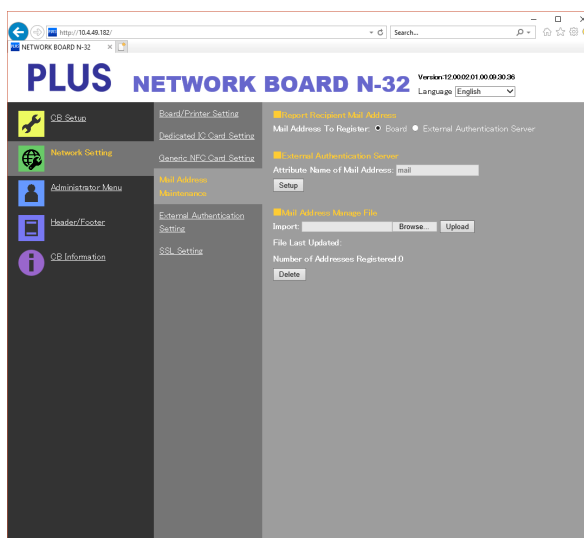
- ATTACHED FILE NAME = "file name of attached image"

(Note1) For the management of recipient mail addresses, see "Mail Address Maintenance" (E-17).

Setting before using a network

Network Setting — Mail Address Maintenance

Set the method of managing recipient mail addresses.



Mail Address Maintenance Item		Setting/Description	Default
Report Recipient Mail Address	Mail Address To Register	Select whether to read the mail addresses from the management file registered on the board unit or to acquire them from an external authentication server. (NOTE 1) (NOTE 2)	Board
External Authentication Server		Set the attribute name of the mail address to be inquired about on the external authentication server.	mail
Setup		When the [Setup] button is clicked, the above settings/changes are sent to the main unit, overwriting the previous settings. Once overwriting is completed, the display on the mail address management page switches to "Setup is completed".	—
Mail Address Management File	Import	When the [Browse] button is clicked, the file browsing screen opens. Select the mail address management file (NOTE 1) and set it.	—
	Upload	The selected mail address management file is sent to the main unit. When the [Upload] button is clicked, sending starts. • If it is already registered in the main unit, it is overwritten.	—
	File Last Updated	Displays the mail address management file's last modified date.	Blank
	Number of Addresses Registered	Displays the number of registered recipient mail addresses.	0
Delete		When the [Delete] button is clicked, all the registered recipient mail addresses are deleted.	—

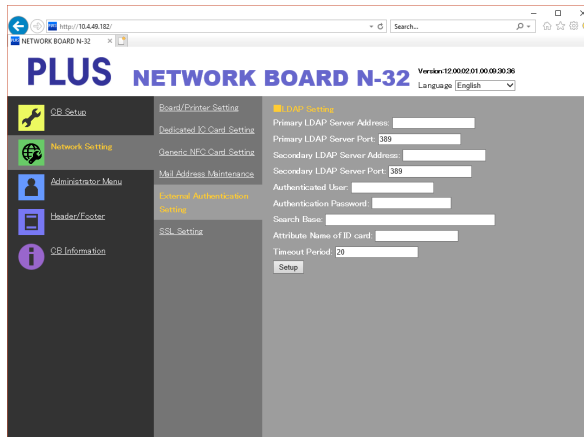
(NOTE 1) For the contents of the mail address management file, see the "1.Creating the e-mail address management file." on page E-23.

(NOTE 2) If "FTP" is selected for Generic IC Card (E-14) protocol, "Board" is the only selectable item. "External Authentication Server" cannot be selected.

Setting before using a network

Network Setting — External Authentication Setting

Make the settings of the LDAP server for acquiring mail addresses from the external authentication server. (Note 1)



External Authentication Setting Item		Setting/Description	Default
LDAP Setting	Primary LDAP Server Address	Set the address of the primary LDAP server. • Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	Primary LDAP Server Port	This is the port number of the primary LDAP server. • Set the port number according to the usage environment.	389
	Secondary LDAP Server Address	Set the address of the secondary LDAP server. • Input a maximum of 64 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	Secondary LDAP Server Port	This is the port number of the secondary LDAP server. • Set the port number according to the usage environment.	389
	Authenticated User	This is the user name for authentication on the LDAP server. • Input a maximum of 32 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	Authentication Password	This is the password for authentication on the LDAP server. • Input a maximum of 32 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used.	Blank
	Search Base	Set the entry to be the starting point for searching (the search base). • Input a maximum of 256 characters.	Blank
	Attribute Name of ID Card	Set the attribute name housing the card ID. • Input a maximum of 64 characters.	Blank
	Timeout Period	Set the timeout time [seconds] for communications with the LDAP server.	20
Setup		When the [Setup] button is clicked, the above settings/changes are sent to the main unit, overwriting the previous settings. After overwriting, a test for connecting to the LDAP server is performed. If the connection is successful, the display on the external authentication server page switches to "Setup is completed".	—

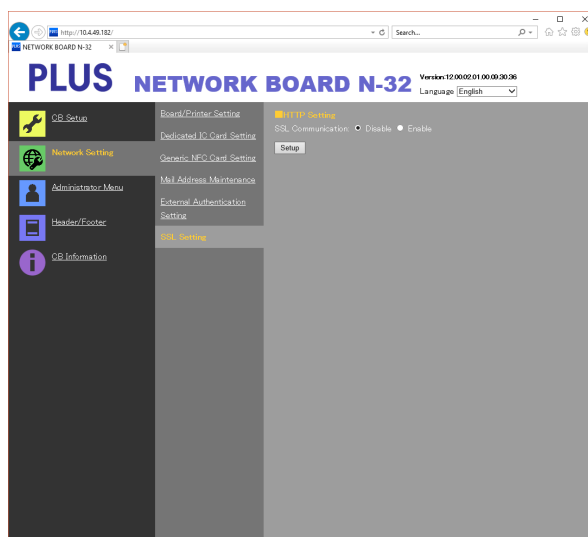
(Note 1) This page is not displayed if FTP is set as the protocol in the generic IC card settings.

Setting before using a network

List of Available Symbols

Available for all items		!	#	\$	%	()	+	-	.	/	;
	=	@	[\]	^	_	`	{	}	~	
Unavailable for username, password, and FTP folder name	:											
Unavailable for FTP folder name only	?	*										
Available for Transmission Authorizing Domain only	,											

Network Setting — SSL Setting

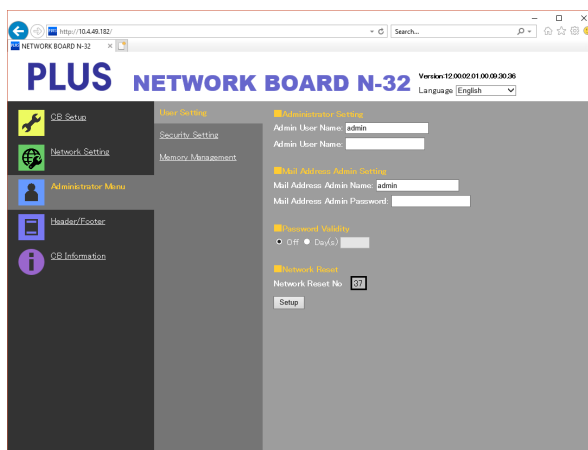


SSL Setting Item		Setting/Description	Default
HTTP Setting	SSL Communication	Select Enable or Disable for SSL in HTTP communication.	Disable
Setup		When the [Setup] button is clicked, the above settings/changes are sent to the network board, overwriting previous settings.	—

Setting before using a network

Administrator Menu — User Setting

Set the user name and password required for administrator verification and the number required for resetting the network settings.



User Setting Item		Setting/Description	Default
Administrator Setting	Admin User name	Set the administrator's user name. • Admin User Name must be 14 alphanumeric characters or less. See List of Available Symbols. The admin user name is case sensitive.	admin
	Admin Password	Set the administrator's password. • Input a password between 8 and 14 characters by combining upper case and lower case alphabets, numbers, and symbols. See List of Available Symbols.	None
Mail Address Admin Setting	Mail Address Admin Name	Set the user name of the mail address administrator. • Input a maximum of 14 characters (single byte letters, numbers or symbols). Refer to the table of symbols for the symbols that can be used. The system distinguishes between capital and small letters.	admin
	Mail Address Admin Password	Set the password of the mail address administrator. • Input a minimum of 8, a maximum of 14 characters, combining three of the following types of characters: single byte capital letters, single byte small letters, numbers and symbols. Refer to the table of symbols for the symbols that can be used.	None
Password Validity		Set the validity date for Admin Password and File List User Setting Password. To use days, select the radio button for day and input days.	Off
Network Reset No.		This is the number used for resetting the network settings. (See page E-25) Note: Be sure to make a note of your network reset number in case you should forget it. This number is required to reset the network settings.	—
Setup		When the [Setup] button is clicked, the above settings/changes are sent to the network board, overwriting previous settings. Once overwriting is completed, the "User Setting" page switches to the "Setup is completed." character display.	—

Caution

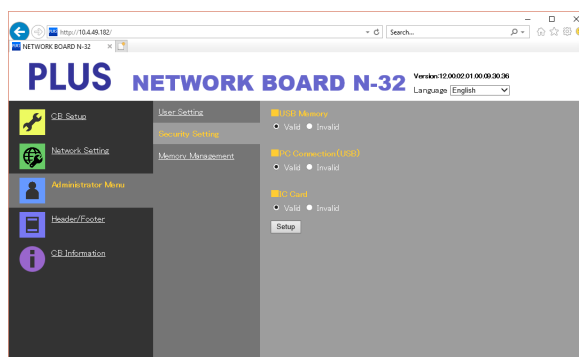
- Copy down the user settings in case you should forget them.

Admin User name	<input type="text"/>
Admin Password	<input type="text"/>
Mail Address Admin Name	<input type="text"/>
Mail Address Admin Password	<input type="text"/>
Network Reset No.	<input type="text"/>

Setting before using a network

Administrator Menu — Security Setting

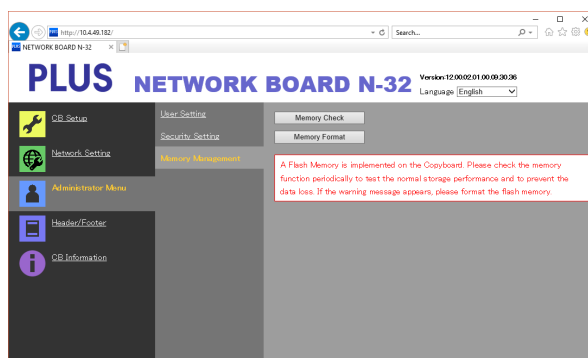
These security settings can be made to restrict access to setting items.



Security Setting Item	Setting/Description	Default
USB Memory	Set whether or not to enable or disable saving on USB memory devices.	Valid
PC connection (USB)	Set whether or not to enable or disable saving in a computer storage memory.	Valid
IC Card	Prohibits or allows the use of IC cards.	Valid
Setup	When the [Setup] button is clicked, the above settings/changes are sent to the network board, overwriting previous settings. Once overwriting is completed, the “Security Setting” page switches to the “Setup is completed.” character display.	—

Administrator Menu — Memory Management

The amount of disk space used can be checked, the disk can be checked and the disk can be formatted here.



Memory Management Item	Setting/Description	Default
Memory Check	When the [Memory Check] button is clicked, checking of the built-in memory starts. When checking is completed, the results of the check are displayed. If a warning is displayed, format the memory.	—
Memory Format	When the [Memory Format] button is clicked, the memory is formatted. Notice: <ul style="list-style-type: none"> All the recipient mail addresses data and image data of header/footer stored in the memory will be deleted. 	—

Setting before using a network

Header/Footer

This is the screen for registering headers and footers on the network board and checking the image.

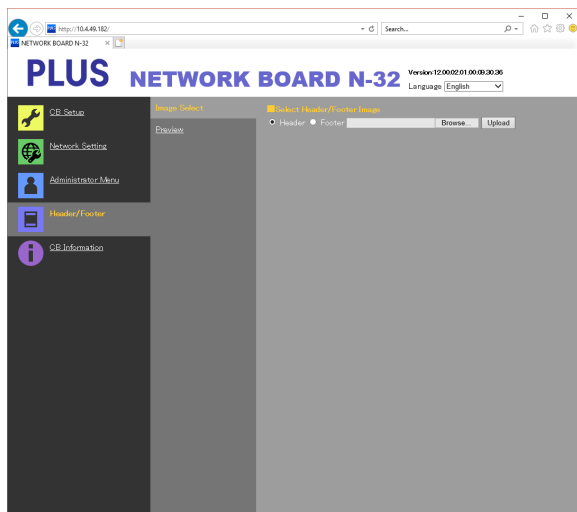
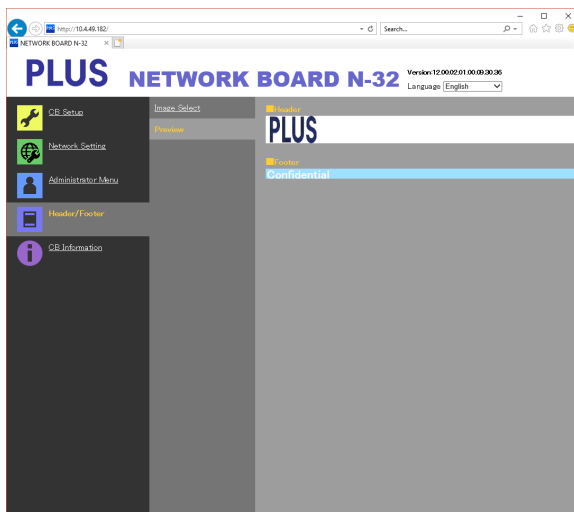


Image Select screen

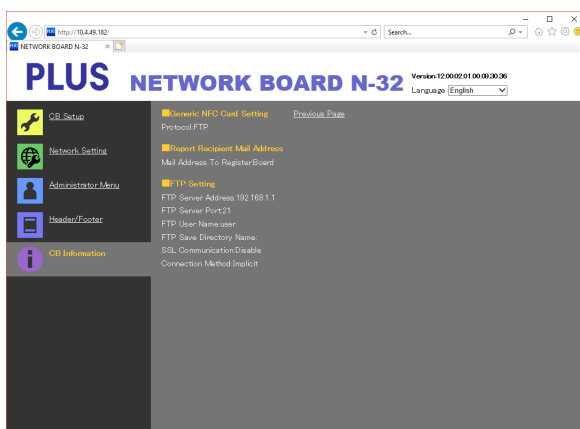
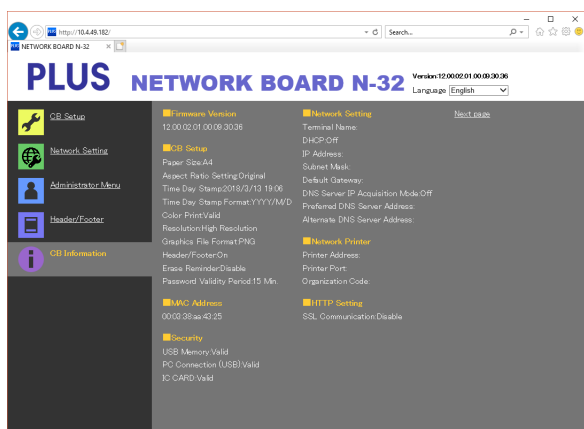


Preview screen

Image Select/Preview Item		Setting/Description	Default
Image Select	Select Header/Footer Image	Select whether the image to be registered on the network board is a header or footer. Click the radio buttons to select. • For instructions on creating images, see page E-26.	Header
	Browse	When the [Browse] button is clicked, the computer's "Browse Files" screen opens. Select the image, then click the [OK] button to set it.	—
	Upload	This uploads the selected header or footer image to the network board. When the [Upload] button is clicked, uploading starts. • If an image is already registered on the network board, that image is overwritten.	—
Preview		This displays a preview of the header or footer image registered on the network board.	—

CB Information

This displays the contents of the detailed settings made on the network board and the network board's firmware version. Note that the passwords are not displayed.



Setting before using a network

Writing Save Location Setting Information to IC Card

Use the supplied IC Card to store images on a specific folder on an FTP server. To use this function, write Save Location Setting Information such as FTP save directory name and password of scanned image to the IC Card beforehand.

1. Set the Save Location Setting Information (operation on the browser).

On the browser, select "Network Setting" – "Dedicated IC Card Setting" and set register the Save Location Setting Information.

For setting items, see page E-13.

2. Send the Save Location Setting Information to the network board (operation on the browser)

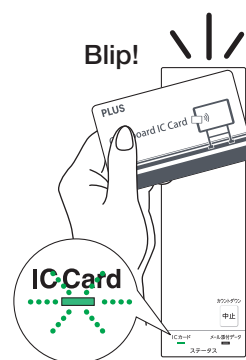
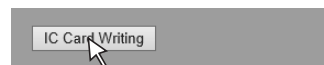
Click "IC Card Writing".

The currently viewed Save Location Setting Information will be sent to the network board.

3. Write the information to the IC Card (operation on the network board).

Make sure that the IC Card indicator on the keypad panel is flashing green.

Touch the IC Card on the "Touch the card here" part of the network board. After you hear a "blip" sound, the IC Card indicator lights green. This completes writing to the IC Card. For using the IC card, see page E-27.



Register the IC card and recipient mail address.

(When registration of mail addresses is located on the board unit)

By touching the IC card (the employee ID card you normally use, etc.), it is possible to send an e-mail with the scanned image attached to the specified mail address.

To use this function, the IC card and recipient mail address must be registered in advance using the mail address management file. The types of IC cards that can be used are Mifare and FeliCa.

1. Creating the e-mail address management file.

The file format of the mail address management file is CSV format.

Create the file using your spreadsheet program or text editor.

Register contents according to the table shown below. Fill in all the items on the table below in the numbered order, the information for 1 card on 1 line. Any file name can be used.

No.	Registration item	Contents	Remarks
1	Card ID	IC card's specific ID	An 8 to 16-character number consisting of numerals 0 to 9 and letters A to F.
2	Mail address	Recipient mail address	Within 64 characters of numbers, letters and symbols, not including <>&"', [BLANK]
3	Term of validity	Term of validity for which transmission is possible with this card	No limit if empty Date format (ex.): 20161231
4	EOL	Indicates end of line	Required

• When creating with text editor

Divide items with commas (","). Specify ".CSV" as the file extension when saving.

Example:

```
1234abcd,SendAddress1@example.com,20161231,EOL
567890ef,SendAddress2@example.com,,EOL
```

continued on next page

Setting before using a network

• When creating with a spreadsheet program

When saving the file, specify the file name, save, select CSV as the file format, then save.

The CSV file also serves as source of subfolder names in FTP server. Bold part of **SendAddress**@example.com (e-mail address) will be assigned as subfolder name, when saving scanned images in FTP server.

Example:

	A	B	C	D
1	1234abcd	SendAddress1@example.com	20161231	EOL
2	567890ef	SendAddress2@example.com		EOL
3				
4				

Note

- The IC card's specific ID is a number referred to as the UID for Mifera cards, and the IDm for FeliCa cards.
- 1 mail address can be registered for 1 IC card.
- It is not possible to register duplicate IC cards or mail addresses.
- The maximum number of items that can be registered is 5000 .

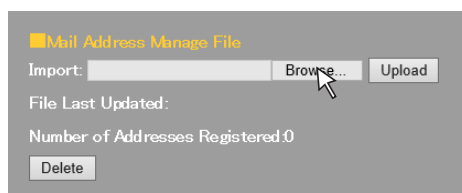
Notice

- Please contact the administrator in charge of managing the IC cards in order to use the IC card's specific ID .
- It is the customer's responsibility to properly manage mail address management files the customer has created.

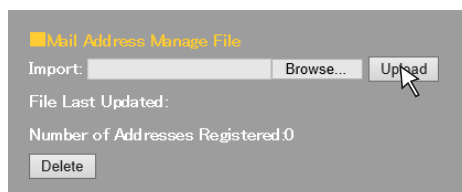
2. Sending the mail address management file to the main unit (browser operation)

(1) From the browser, access the unit on which the IC cards are to be registered and open the network-mail address management menu.

(2) Click the import [Browse] button and select the mail address management file to be registered.



(3) Click the [Upload] button.



(4) "Successfully completed" is displayed on the screen when transmission is successful.

(5) Redisplay the mail address management menu and confirm that the last modified date and the number of registered cases is correct.

Note

- Registration will take about 20 seconds when the maximum number of IC cards that can be registered (5000) has been reached.
- The last modified date displayed on the mail address management menu is the date the mail address management file was saved on the computer.

Please see page E-28 for instructions on how to use after registering the IC cards.

Setting before using a network

Resetting the Network Settings

Operate the buttons on the network board to reset the network settings to their defaults.

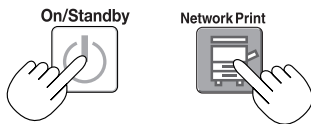
Setting items that are reset: Admin User name, Admin Password, User Name, Password, IP Address, Subnet Mask, Default Gateway, Folder for saving, FTP User Name, FTP Password, FTP Server IP Address, FTP Server Port, FTP Save Directory Name, Password Validity, Terminal Name, DHCP, Printer IP Address, Printer Port, Organization Code, FTP Print Setting, Plural Registration, ID Number, SSL Communication (FTP Setting), Connection Method (FTP Setting), SSL Communication (HTTP Setting)

Notice

- Once reset, the network settings cannot be restored.

1. While pressing the ON/Standby button, press the Network Print button.

The network board switches to the network settings reset mode and "00" flashes on the display window.

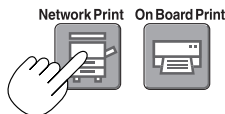


2. Press the Network Print (Increase) or On Board Print (Decrease) button to display the network reset number.

- The network reset number can be viewed when [Administrator Menu] → [User Setting] is selected with administrator authority.

The display switches as follows each time the Network Print (Increase) button is pressed: 01 → 02 → → 99 → 00 → 01

The display switches as follows each time the On Board Print (Decrease) button is pressed: 99 → 98 → → 01 → 00 → 99



3. Press the Save button to enter.

To cancel, press the ON/Standby  button.

When the reset number matches, "LA" flashes for 5 seconds on the display window, then the network board's network settings are overwritten with the default values and the network board automatically reboots.

If "LE" flashes for 5 seconds then stops flashing, remaining lit, the reset number is wrong.

- Press the ON/Standby  button to cancel, then start over from step 1.



Setting before using a network

Creating and Registering Headers and Footers

The header/footer function allows you to superimpose your company name, logo, etc., at the top or bottom of scanned images for printing or display. The date and time are printed at the top right of the header.

Creating header and footer images

Use your image software to create a JPEG file.

Create the image with the resolutions below.

Max. size for header images: 1248 × 110 dots * Image format: JPEG

Max. size for footer images: 1248 × 40 dots Image format: JPEG

* This is sometimes expressed as “pixels”.

Note

- Even for image data whose resolution is within the allowable limits, it may happen that the top and bottom of the image are not displayed.

Image display position

Images are displayed at roughly the center in the horizontal direction. In the vertical direction they are positioned next to the scanned image area. Consider this when creating images with less than the maximum size.

Suggestions on creating images

Scan the logo data with an image scanner, save this on the computer as image data, then crop or reduce its size to fit within the specified resolution and save this new data.

Use Windows Paint, etc., to paste images, input characters, etc., to create the image.

When saving, save in JPEG format with a size within the maximum size.

Registering created images on the network board

Example: Here we explain how to register a header image. Use the same procedure to register footer images.

1. Open the “Header/Footer” screen at Detailed Settings (via LAN). (See page E-22.)
2. Header/Footer Image Select
 - When a preview is selected, click “Image Select” on the submenu.

Click the “Header” radio button.

3. Select the header image you have created.
Click the [Browse] button to display the computer’s “Browse Files” screen.

Select the image file to be registered as the header, then click the [OK] button. The file name is displayed.

4. Click the [Upload] button to upload the image to the network board.

When uploading is completed, “Completed successfully” is displayed.

At this time, “HF” flashes on the network board’s display window (for 5 seconds, after which it stops flashing, remaining lit).

If “Data size is too large” is displayed, the image cannot be registered.

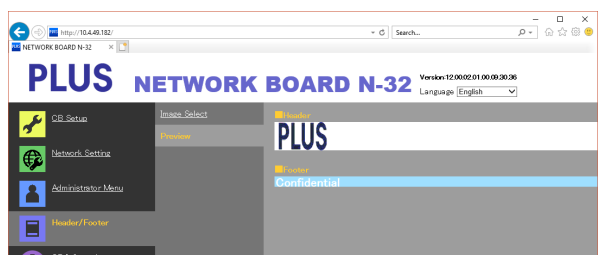
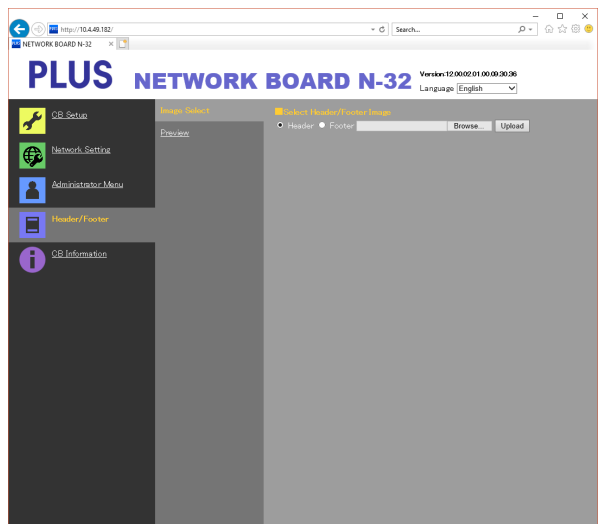
Close the web browser, then adjust the image file’s size.

Note

- When headers or footers are registered, the header/footer function is set to “Enable”.

Click “Preview” to check the registered image.

This completes registration. Close the web browser.

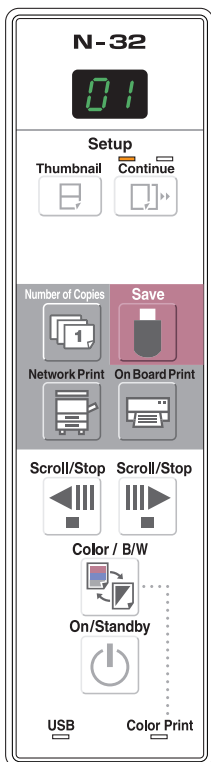
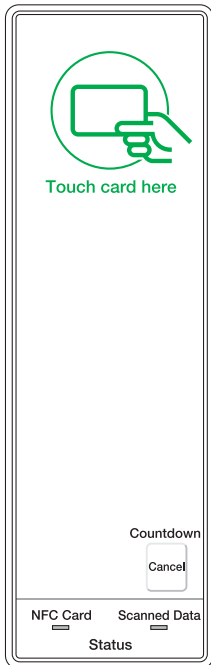


Save scanned image/Send mail/Print

Subsequent explanations assume that the LAN cable is connected, the network settings have been completed and the IC cards have been registered.

When using IC cards, the file name is the date_ time. (Example: 20160123_ 012345.pdf)

When sending mail, the same scanned image can be sent to a different mail address without rescanning it by touching a different IC card.



Preparations :

Check that the power plug is connected to a wall power outlet.

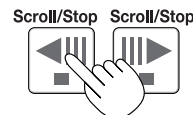
1 Press the ON/Standby button to turn on the power.



Note

- When turning on the power after the power plug has been connected or the power has been turned off (set to the standby mode), wait about 5 seconds or more before pressing the ON/Standby button.
- When the ON/Standby button is pressed and the power turns on, the display window's LEDs light.

2 Press the Scroll/Stop button or button to display the screen to be stored.



When the Send/ Stop button is pressed, the sheet screen scrolls 1 sheet's worth to the left (to the next sheet screen) and stops automatically.

When the Send/ Stop button is pressed, the sheet screen scrolls 1 sheet's worth to the right (to the previous sheet screen) and stops automatically.

To stop Sending, press the Send/ Stop button again.

Saving scanned images to an FTP server

Touch the dedicated IC card to the IC card reader/writer section of the NFC panel.



Flashes circularly during saving

1 screen's worth of scanning operation (scrolling) is performed, and when it stops, the data is saved to the FTP save destination written on the dedicated IC card.

- See page E-23 for instructions on writing the FTP settings to the dedicated IC card.



Touch card here

Countdown

Cancel

NFC Card Scanned Data

Status

N-32

01

Setup

Thumbnail

Continue

Number of Copies

Save

Network Print

On Board Print

Scroll/Stop

Scroll/Stop

Color / B/W

On/Standby

USB

Color Print

USB B
PC

USB A
MEMORY

Sending scanned images attached to e-mail messages

Touch the IC card to the IC card reader/writer section of the NFC panel.



Flashes circularly during mail sending

1 screen's worth of scanning operation (scrolling) is performed, and when it stops, an e-mail message with the data attached is sent to the registered mail address.

See page E-23 for instructions on registering IC cards and recipient mail addresses.

Once mail sending is complete, the mail attached data indicator light turns green, 30 is displayed in the display window and the number counts down every 1 second.



Sending scanned images successively to different mail addresses

Touch another IC card during the countdown.



The scanned image is sent to the registered mail address by mail.

Once mail transmission is complete, 30 is displayed in the window and the countdown starts again.

To stop during the countdown, press the stop button. The countdown stops and the data attached to the mail is deleted.

Countdown

Cancel

continued on next page

Note

- It is possible to save multiple sheet surface successively. See the separate "N-32S/N-32W/N-324 User's Manual". When successive saving is performed and the images are in PDF format, all the images will be combined into 1 file. For other image formats, the images are stored in multiple files with -1,-2 added to the end of the sequential file names. (Example: 20160123-012345-1.png, 20160123-012345-2.png)
- Depending on the network's conditions, some time may be required for authentication, data saving and mail sending.
- If the IC card indicator does not light even though the power is turned on, "Prohibited" is set at Security Settings - IC Card. (See page E-21)
- If "L1"- "L5" is displayed in the display window (for about 5 seconds), this indicates that the network settings are incorrect. (See the separate "N-32S/N-32W/N-324 User's Manual".)
- If Report Transmission at Transmission History Report is set to "ON", the transmission history report is not sent if the mail with attached image could not be sent.
- No error display appears even if sending of the transmission history report fails.
- If "Ld" flashes (for about 3 seconds) on the display window when there is an IC card reading error, either the IC card's term of validity is up (see page E-23), or you are trying to send an e-mail to a domain other than one that is allowed in the domain restrictions (see page E-15).
- If the power button is pressed during the reading operation, the reading operation is interrupted, and the image data that has been read up to that point is saved/sent by mail/printed.
- The date and time recorded for the saved files is the date and time of this unit. For the time setting, see "CB Setup" on page E-9 or the separate "N-32S/N-32W/N-324 User's Manual".

Printing out to a Network Printer

Prepare a sheet surface you want to print out and press the Network Print button.



Perform the reading operation for a one-sheet portion (while the sheet is scrolled) and the image is output to the network printer connected to a network.

- The thumbnails and consecutive printing which is possible on the printer connected to the network board is also possible on the network printer. For selecting, refer to the separate "N-32S/N-32W/N-324 User's Manual".

Note

- To print out to the printer connected to a network, select Network Setting — Board/Printer Setting and set FTP setting beforehand.
- Printers compatible with the network board are FTP supported printers

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