

Administrator Console Operating Instructions Model No. WJ-ND300

Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

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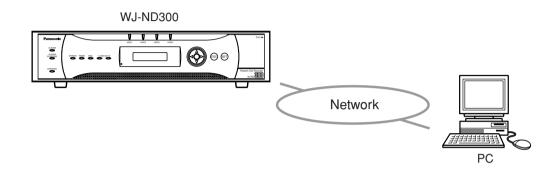
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The WJ-ND300 Administrator Console is the exclusive setup tool for the Network Disk Recorder WJ-ND300. By using this software, it is possible to perform the settings of the network disk recorder using a PC via a network. It is also possible to download the setting values and save it as a setup file, and upload the edited setup file to the network disk recorder.

This software is applicable for version 2.0 or later of the WJ-ND300.



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System Requirement

It is recommended to install this software on a PC that meets the following system requirements.

OS:	Microsoft [®] Windows [®] 2000 Professional SP4
	Microsoft [®] Windows [®] XP Professional or Home Edition SP2
	Note: It is required that Microsoft .NET Framework 1.1 is installed on the PC being used to
	activate this software. (If Microsoft .NET Framework 1.1 is not installed on a PC, it will
	be installed automatically when installing this software.)
CPU:	Pentium [®] 4 1.4 GHz or faster
Memory:	512 MB or more
CD-ROM drive:	Required for the installation of this software
Hard disk drive:	Approx. 160 MB of available disk space for installation
Monitor:	1 024 x 768 pixels or more, 16-bit HIGH color or better
Network Interface:	10/100 Mbps Network interface card must be installed

Adobe[®] Reader: Adobe[®] Reader should be installed on a PC to read these operating instructions. When the Adobe[®] Reader is not installed on the PC, download the latest Adobe[®] Reader from the Adobe web site and install it.

Notes:

- This software must be installed or started by the administrator. Otherwise, any problems will not be covered by the warranty.
- In these operating instructions, the settings are performed on Windows XP as examples.

Preparations

It is necessary to complete the connections between a PC and the network disk recorder and perform the network settings of the PC and the network disk recorder respectively.

Connections

There are 2 methods to connect a PC and the network disk recorder:

- · Connecting a PC and the network disk recorder directly
- · Connecting a PC to the network disk recorder via a hub or a router

When connecting a PC to the network disk recorder, the required hardware and cables are different depending on the system configuration. Prepare before starting connection.

Refer to the Setup Instructions (PDF) of the network disk recorder for descriptions of how to perform the network settings.

Performing the network settings of the network disk recorder

Use the buttons on the front panel of the network disk recorder or a web browser on the connected PC to conform to the network settings to the network environment of the PC.

Refer to the Setup Instructions (PDF) of the network disk recorder for further information about the network settings.

Performing the network settings of a PC

Change the TCP/IP setting of the PC on which this software is to be installed to conform to the network settings of the network disk recorder.

It is required to set the IP address of the PC to "192.168.1.XX (a number from 2 to 254)" to access the network disk recorder.

Refer to the Installation Guide (book) and the Setup Instructions (PDF) of the network disk recorder for descriptions of how to perform the network settings of a PC.

Installing This Software

Install this software as follows after completing the network settings of the network disk recorder and PC.

Step 1

Insert the provided CD-ROM into the PC disk drive.

Step 2

Double click "setup.exe" in the "Admin" folder. The confirmation window will be displayed.

Step 3

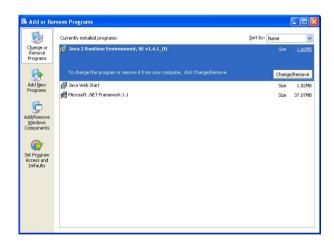
Click the "OK" button and follow the installation wizard to install this software.

The "WJ-ND300 Administrator Console" folder will be created (C:\Program Files\Panasonic\WJ-ND300 Administrator Console) and the necessary files will be copied in it.

When installation is complete, the application will be added to "Programs" in "Start" and the shortcut will be created on the desktop.

Important:

Do not edit, remove, or move the directory path of the files above. Otherwise, this software may not function properly.



Notes:

 If Microsoft .NET Framework 1.1 is not installed on a PC, it will be installed automatically when installing this software.

It is possible to check with "Control Panel" whether Microsoft .NET Framework 1.1 is installed on a PC or not.

Open the "Change or Remove Programs" window by selecting "Add or Remove Programs" in "Control Panel".

The installed applications will be displayed in list form.

Check if "Microsoft .NET Framework 1.1" is on the list or not.

• When re-installing this software is needed, the existing software must be uninstalled first.

Uninstalling This Software

If required, uninstall this software as follows.

Step 1

Open "Add or Remove Programs" in "Control Panel". The "Add or Remove Programs" window will be displayed.

Step 2

Select "WJ-ND300 Administrator Console" and click the "Remove" button.

Step 3

Follow the uninstall wizard.

Start the Software

Start the software as follows.

Screenshot 1

Start just after the PC is started up.



Step 1

Select "WJ-ND300 Administrator Console" from the "Start" menu ("Start" - "All Programs" - "Panasonic" -"WJ-ND300 Administrator Console") or double click the shortcut icon of "WJ-ND300 Administrator Console" on the desktop.

The software will start up.

Important:

Log in to the PC as an administrator before starting the software.

Screenshot 2

The login window will be displayed.

Login		
Password(<u>P</u>):	*****	
	OK	CANCEL

Step 2

Enter the password. The default password is "12345". Refer to page 22 for how to change the password.

Step 3

Click the [OK] button.

Screenshot 3

The version selection window will be displayed.

New	
Select version	
© √2.XX(2)	
• <u>V3.XX(3)</u>	
ОК	Cancel

Step 4

Select the version of the setup file to be created.

Step 5

Click the [OK] button.

Screenshot 4

The top page of the operation window will be displayed.

🗑 WJ-ND300 Administrator Console	1 A2	
WJ-ND300	System - Basic Setup -	
Advanced Cama Came User Keg Maintenace System Recoding Event Schedule Basic Setue Time Date	Language Password Lock Betop Password Lock Password Menitor Display 4 Screene Satup GO TO LAST before Buzen(Error) Shutdown Time	(0FF ()
Quick Setup Menu	SET	CLEAR

Step 6

Perform the settings for each item.

Step 7

Click the [SET] button after completing the settings.

Step 8

Close the window by clicking the *k* button at the top right of the window to exit the software.

Note:

It is possible to check version of the setup menu by displaying the "Product Information" page of "Maintenance" on the setup menu (Advanced) using a web browser.

Refer to the Setup Instructions (PDF) of the network disk recorder.

About the Operation Window

	🕼 WJ-ND300 Administrator Console		
Tool bar ——	🔫 🕾 ൙ 🗋 🖪 🗠	9.8	
	WJ-ND300	System - Basic Setup -	
	Advanced	Language	JAPANESE
Menu tabs ——	Camera Comm User Mng. Maintenance System Recording Event Schedule	Password Lock Setup Password Lock	OFF
	Basic Setup	Password	*****
	<u>Time Date</u>	Monitor Display	
		4 Screens Setup	SETUP
		GO TO LAST before	30s 💌
		Buzzer(Error)	2s 💌
		Shutdown Time	10s 💌
	Quick Setup Menu	SET	CLEAR

Main area

Tool bar

[Upload]: The setup file created/edited using this software will be uploaded to the network disk recorder by clicking this button. (page 16)



[Download]: The setting values will be downloaded from the network disk recorder by clicking this button. (page 14)



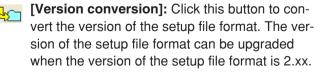
[Open]: Click this button to open the saved setup file. (page 19)



[New]: Click this button to create a new setup file. (page 21)



[Save As]: Click this button to save the created/edited setup file. (page 20)





[**Password]:** Click this button to change the login password. (page 23) **Menu tabs:** It is possible to display the respective settings page of the clicked menu tab.

Refer to page 11 for further information about each menu.

It is possible to display the top page of "Quick Setup Menu" by clicking the "Quick Setup Menu" link text at the bottom left of the window.

(When "Quick Setup Menu" is displayed, the "Advanced Setup Menu" link text will be displayed at the bottom left of the window. It is possible to display the top page of "Advanced Setup Menu" by clicking it.

Main area: The setting items of the selected menu will be displayed in this area.

SET : Click this button to apply the edited settings.

CLEAR : Click this button to cancel to apply the edited settings.

Note:

When the version of the WJ-ND300 in use is 3.xx or later, this icon will not be displayed.

The following setting items can be operated using this software.

The tables below show the available setting items when using this software and when using a web browser respectively.

Refer to the Setup Instructions (PDF) of the network disk recorder.

Quick Setup Menu

Settings menu	This software	Web browser
Display Setup	Only the settings relating to time & date is operable. It is impossible to set the clock.	Operable
Camera Setup	Operable It is impossible to perform the set- tings of the connected cameras.	Operable
Rec & Event Setup	Operable	Operable
Network Setup	Operable	Operable

Advanced Setup Menu

	Settings menu	This software	Web browser
Syster	n		
	Basic Setup	Operable	Operable
	Time & Date	Only the settings relating to time & date is operable. It is impossible to set the clock.	Operable
Recor	ding		
	REC Setup	Operable	Operable
	Emergency REC	Operable	Operable
Event			
	Basic Setup	Operable	Operable
	Terminal Setup	Operable	Operable
	Site Alarm Setup	Operable	Operable
	Command Alarm Setup	Operable	Operable
Sched	ule		
	Time Table	Operable	Operable
	Program	Operable	Operable
	Special Days	Operable	Operable

Settings menu	This software	Web browser
amera		
NW Camera Setup	Operable	Operable
	It is impossible to perform the set-	
	tings of the connected cameras.	
Group Setup	Operable	Operable
Sequence Setup	Operable	Operable
comm		
Basic Setup	Operable	Operable
DNS Setup	Operable	Operable
DDNS Setup	Operable	Operable
Proxy Setup	Operable	Operable
SNMP Setup	Operable	Operable
NTP Setup	Operable	Operable
FTP Setup	Operable	Operable
Mail Setup	Operable	Operable
Panasonic Alarm Protocol	Operable	Operable
lser Mng.		
Basic Setup	Operable	Operable
User Regist.	Operable	Operable
	"Administrator Edit" and "User	
	Edit/Delete" are operable on the	
	"User Regist." window.	
Host Regist.	Operable	Operable
	"Host Edit/Delete" is operable on the	
	"Host Regist." window.	
User Level	Operable	Operable

Settings menu	This software	Web browser
enance		
Product Information	Operable Temperature inside the unit will not be displayed.	Operable
Disk Information	Only "Warning for Disk Life Time" is operable. It is impossible to display informa- tion of HDD such as available disk space of the built-in HDD or HDD of the extension unit.	Operable
Partition Information	Not operable	Not operable
Network Information	Not operable	Not operable
Disk End Mode	Operable	Operable
HDD Capacity Warning	Operable	Operable
Data Delete	Only "HDD Auto Delete" is operable. It is impossible to delete data in the recording area manually.	Operable
Save/Load	Not operable	Operable
Config	Not operable	Operable

It is also possible to download the setting values and save it as a setup file.

Important:

- It is impossible to download the setting values while starting up the network disk recorder or during performing the system check of the network disk recorder.
- When trying to download the setting values, entering the Administrator password of the administrator of the network disk recorder will be required. Refer to the Setup Instructions (PDF) for further information.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.

🐨 WJ-NDS00 Administrator Console		
🖚 🗈 💣 🗋 🛢 🔩	- 9.8	
WJ-ND300	System - Basic Setup -	
Advanced	Language	JAPANESE
Canvera Cenvin User Ming Maintenance System Recording Event Schedule Easte: Softwar Time: Date	Paseword Lock Setup Paseword Lock Paseword Monitor Diplay 4 Sciences Setup GO TO LAST leftne Burzze(Enro) Shutdown Time	OFF
Quick Setup Menu	SET	CLEAR

Step 1

Click the [Download] button on the tool bar.

Screenshot 2

The "Download" window will be displayed.

Download	
Recorder	
Address(<u>A</u>)	192.168.1.250
HTTP Port Number(P)	80
Administrator Password())	
□ Use a Proxy Server(<u>U</u>)	
HTTP Proxy Server	
Address(D)	
Port Number(<u>N</u>)	80
OK	CANCEL

Step 2

Enter the address of the network disk recorder from which the setting values are to be downloaded.

Step 3

Enter the HTTP port number of the network disk recorder.

Step 4

Enter the Administrator password of the network disk recorder.

Step 5

When using a proxy server, check the "Use a Proxy Server" checkbox and enter the address and the port number.

Step 6

Click the [OK] button after completing the settings.

Screenshot 3

The "Download" window will be displayed.

Down load	
Download Setup Data from Recorder	
Address(<u>A</u>)	192.168.1.250
Start Download(D)	CANCEL

Step 7

After confirming that the displayed address is correct, click the [Start Download (D)] button. Downloading of the setting values will start.

Screenshot 4

The "Download Completed" window will be displayed when download is completed.





Important:

When download is started while the setup file is being edited, the following window will be displayed.

Confirm	
2	The setup data will not be saved if you continued. Are you sure you want to continue?
	Yes No

When the [Yes] button is clicked, the setup file currently being edited will be overwritten by the setting values to be downloaded.

When the setup file currently being edited is to be saved, click the [No] button to cancel downloading of the setting values. Save the edited setup file first and then start the download.

Upload the Setup File

It is also possible to upload the created/edited setup file to the network disk recorder.

Important:

- When trying to upload the setup file, entering the Administrator password of the network disk recorder will be required. Refer to the Setup Instructions (PDF) for further information.
- When the camera settings ("Camera" "NW Camera Setup") are changed, there may be possibilities that images from the camera cannot be displayed. At the default setting, the setting values of "NW Camera Setup" are set as a masked item. (The setting values will not be uploaded.)
- When the network settings ("Comm" "Basic setup") are changed, connection error may occur on the network disk recorder.

At the default setting, the setting values of "Basic setup" are set as a masked item. (The setting values will not be uploaded. Refer to the next page for further information.)

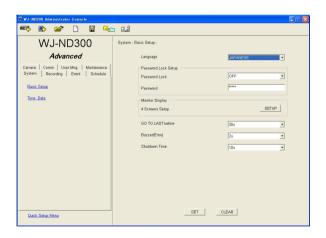
- Do not upload the setup file to the same network disk recorder from two or more PCs simultaneously using this software. Otherwise, an error may occur on the network disk recorder.
- When the setting for "Line Speed" ("Comm" "Basic setup" "Line Speed") is changed, the network disk recorder will restart.
- It is impossible to upload the setup file during starting up the network disk recorder or while performing the system check of the network disk recorder.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.



Click the [Upload] button on the tool bar.



Screenshot 2

The "Upload" window will be displayed.

Upload	
Recorder	192.168.1.250
Address(<u>A</u>)	192.166.1.290
HTTP Port Number(<u>P</u>)	80
Administrator Password()	
☑ Mask Setup Data(<u>M</u>)	Property Settings
🗆 Use a Proxy Server(<u>U</u>)	
HTTP Proxy Server	
Address(<u>D</u>)	
Port Number(<u>N</u>)	80
	CANCEL

Step 2

Enter the address of the network disk recorder to which the setup file is to be uploaded.

Step 3

Enter the HTTP port number of the network disk recorder.

Step 4

Enter the Adminisrator password of the network disk recorder.

Step 5

When any settings of the following items are not to be uploaded, check the "Mask Setup Data" checkbox and click the [Property Settings] button.

When all of the settings are to be uploaded, go to step 8 after confirming that the "Mask Setup Data" check box is not checked.

Screenshot 3

The "Mask Setup" window will be displayed.

Mask Setup
Select Item
🔽 Camera - NW Camera Setup
🖵 Camera - Group Setup
🔽 Comm - Basic Setup
🖵 Comm - DNS Setup
🗖 Comm - DDNS Setup
OK CANCEL

Step 6

Check the checkbox next to the setup item not to be uploaded.

Note:

At the default setting, the setting values of the "Camera"– "NW Camera Setup" and "Comm" – "Basic Setup" are set as a masked item.

Step 7

Click the [OK] button.

Screenshot 4

The "Mask Setup" window will be closed.

Upload	
Recorder	
Address(<u>A</u>)	192.168.1.250
HTTP Port Number(P)	80
Administrator Password())	
☑ Mask Setup Data(<u>M</u>)	Property Settings
🗆 Use a Proxy Server(<u>U</u>)	
HTTP Proxy Server	
Address(<u>D</u>)	
Port Number(<u>N</u>)	80
01	CANCEL

Step 8

When using a proxy server, check the "Use a Proxy Server" checkbox and enter the address and the port number.

Step 9

Click the [OK] button after completing the settings.

Screenshot 5

The "Upload" window will be displayed.

Upload	
Upload Setup Data to Recorder	
Address(<u>A</u>)	192.168.1.250
Start Upload(U)	CANCEL

Step 10

After confirming that the displayed address is correct, click the [Start Upload (U)] button. Uploading of the setup file will start.

Screenshot 6

The "Upload Completed" window will be displayed when upload is completed.



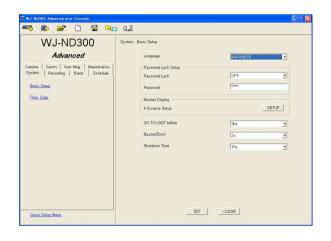
Step 11 Click the [OK] button.

Open the Setup File

Open the saved setup file as follows.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.



Step 1

Click the [Open] button on the tool bar.

Screenshot 2

The "Open" window will be displayed.



Step 2

Select the desired setup file and click the [Open] button. The setup file will open and the operation window will be displayed.

Important:

When opening a setup file while other setup file is being edited, the following window will be displayed.

Confirmation	
?	The setup data will not be saved if you continued. Are you sure you want to continue?
	Yes No

When the [Yes] button is clicked, the newly opened setup file will overwrite the setup file currently being edited.

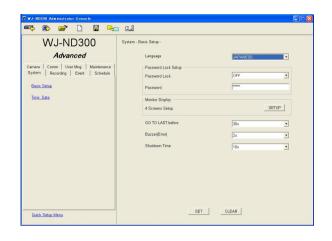
When the setup file currently being edited is to be saved, click the [No] button to cancel to open the setup file. Save the edited setup file first and then open the desired setup file.

Save the Setup File

Save the edited setup file as follows.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.

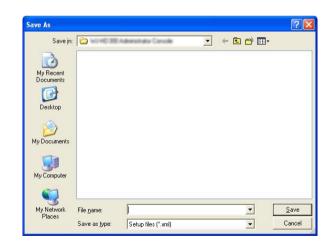


Step 1

Click the [Save As] button on the tool bar after editing the setup file.

Screenshot 2

The "Save As" window will be displayed.



Step 2

Designate the file name and the directory where the file is to be saved.

Step 3

Click the [Save] button to save the setup file. The setup file will be saved.

Notes:

- The setup file will be saved as an xml format file (extension: xml).
- The following characters cannot be used for a file name.

Important:

Do not edit the setup file using any other software such as a text editor. Otherwise, it may be impossible to open or upload the setup file with this software.

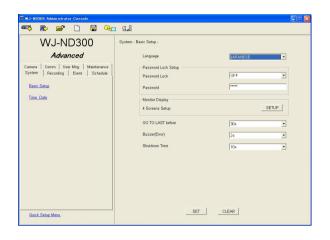
Any problem occurring which is caused by the edited setup file using other software is not covered by the warranty.

Create a Setup File Newly

Create a setup file newly as follows. The default setting values will be applied for a newly created setup file.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.



Step 1

Click the [New] button on the tool bar.

Screenshot 2

The version selection window will be displayed.

New		
_ Se	lect version	
	© √2.XX(2)	
	• <u>V3.XX(3)</u>	
	ОК	Cancel

Step 2

Select the version of the WJ-ND300 currently in use.

Step 3

Click the [OK] button. A new setup file will be created and the top page of the operation window will be displayed.

Important:

When creating a new setup file while the other setup file is being edited, the following window will be displayed.

When the [Yes] button is clicked, the newly opened setup file will overwrite the setup file currently being edited (with the default setting values).

When the file currently being edited is to be saved, click the [No] button to cancel creation of a new setup file. Save the edited setup file first and then create a new setup file.

Confirm	ation 🛛 🕅	
?) The setup data will not be saved if you continued. Are you sure you want to conti	
	<u>Y</u> es	

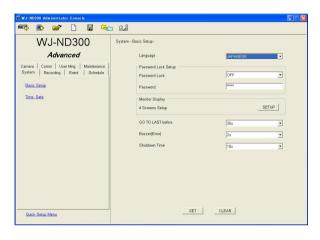
Convert the Version of the Setup File Format

It is possible to convert the version of the setup file format.

Version conversion is available only when the version of the WJ-ND300 in use is 2.xx.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.



Step 1

Click the [Version conversion] button on the tool bar.

Screenshot 2

The version conversion window will be displayed.

Convert	
Convert C Upgrade	
∨2.xx> ∨3.xx	
OK	Cancel

Screenshot 3

The confirmation window will be displayed.

Confirma	ation	
?	If once the file is upgraded, it is impossible to downerade the file to the previous version. Are you sure you want to execute? To cancel to start upgrading the file, click "No".	
	Yes No.	

Screenshot 4

When version conversion is completed, the following window will be displayed.



Step 2

Select "Upgrade".

Step 3

Click the [OK] button.

Step 4

Click the [Yes] button. Version conversion will start.

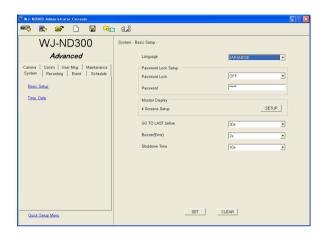
Step 5

Click the [OK] button.

Change the login password as follows.

Screenshot 1

Operate using the buttons on the tool bar on the operation window.



Step 1

Click the [Password] button on the tool bar.

Screenshot 2

The "Change Password" window will be displayed.

Change Password	
Old Password(<u>O</u>)	
New Password(<u>N</u>)	
Confirm New Password(<u>C</u>)	
OK	CANCEL

Step 2

Enter the current password in the "Old Password (O)" box.

Step 3

Enter the desired password to be used as a new password in the "New Password (N)" box. Enter up to 8 alphanumeric characters.

Step 4

Enter the new password in the "Confirm New Password (C)" box for confirmation.

Screenshot 3

When the password is changed successfully, the following window will be displayed.



Step 5

Click the [OK] button.

Step 6

Click the [OK] button on the displayed confirmation window.

At startup

Message	Cause	
Cannot load language data.(Label.txt is dam- aged.) Will show in English text.	The initial display setup file is broken. The broken part of the file will be displayed in English. Re-install this software to fix this problem.	
Starting failure. The registry value may be changed. Please reinstall.	It may be possible that the registry values have been changed Re-install this software to fix this problem.	

When downloading/uploading

Message	Cause It may be possible that the entered address is incorrect, con- nection to the network disk recorder has been disconnected, or no reply from the network disk recorder. Check if the entered address is correct or not. If the entered address is correct, check the connection of the network disk recorder. If it is possi- ble to monitor live images using a web browser, it may be pos- sible that timeout has occurred because the processing perfor- mance of the recorder has temporarily slipped. Check if alarm signals are being supplied continuously or not, and retry uploading.		
Communication error.			
Memory error.	Processing failed because of memory shortage. Close other applications and retry. If it fails again, restart the PC.		
File error.	Check whether the write protection is applied for the folder in which this software is to be installed or not. Check also the available disk space. If this error occurs continuously, restart this software.		
Incorrect password.	The entered Administrator Password of the network disk recorder is incorrect. Enter the correct Administrator Password.		
Upgrade the setup menu of the WJ-ND300 to version 2.0 or later.	The setup file is about to be uploaded/downloaded to the WJ- ND300 whose setup menu version is older than version 2.0. Upgrade the setup menu of the WJ-ND300 to version 2.0 or later.		
Since WJ-ND300 series differs from the version of a setup under edit, it cannot upload.	The setup file whose version is 2.xx is about to be uploaded to the WJ-ND300 whose setup menu version is 3.xx, or vice versa.		

When opening a file

Message	Cause It is impossible to open the file because the file is corrupted.	
Cannot open setup file.		
Cannot open setup file. (Incorrect type (NTSC/PAL).)	It is impossible to open a file of this type since the television system (NTSC/PAL) is different.	

Troubleshooting

Before asking for repairs, check the symptoms with the following table.

Contact your dealer if a problem cannot be solved even after checking and trying the solution or a problem is not described below, and when having a problem with installations.

Symptom	Cause/solution	Reference pages
	Is the Ethernet cable firmly connected to the 10/100 BASE-T port? Confirm the cable is firmly connected.	-
	• Is the connection indicator of the 10/100BASE-T port lit? When it is not lit, connection to a LAN is not estab- lished or a network is not working correctly. Confirm that the connection indicator of the 10/100BASE-T port is lit. Refer to a system administrator if it is not lit.	_
	• Is the valid IP address set? Refer to a system administrator for further informa- tion.	Operating Instructions/ Setup Instructions
Cannot access from this software.	 Are you accessing the wrong IP address? Check the connection as follows: >ping "IP address of this unit" If there is a reply from this unit, the connection is nor- mal. If not, check the settings of the IP address and the subnet mask. 	_
	Is the same IP address provided to other devices? Refer to a system administrator for further informa- tion.	Operating Instructions/ Setup Instructions
	 Are there contradictions between the address and the network subnet to be accessed? Or is "Use Proxy Server" for the settings of the browser checked? When accessing this unit in the same subnet, entering the address of this unit in the "Don't Use Proxy For These Addresses" box is recommended. 	Operating Instructions/ Setup Instructions

Symptom	Cause/solution	Reference pages
Cannot login.	Are the correct password entered? Confirm the correct password.	23
The installer started up at startup of this software, or the message window saying that it is necessary to re- install this software was dis- played.	 It may be possible that the initial setup files have been removed, edited, or moved from their original directo- ry path. Re-install this software following the displayed instruc- tions, or re-install after uninstalling the software. 	6, 7

For U.S., Canadian and Puerto Rican fields:

Panasonic System Solutions Company, Unit Company of Panasonic Corporation of North America Security Systems www.panasonic.com/security For customer support, call 1.877.733.3689

Executive Office: Three Panasonic Way 2H-2, Secaucus, New Jersey 07094 Zone Office Bastern: Three Panasonic Way, Secaucus, New Jersey 07094 Central: 1707 N. Randal Road, Elgin, IL 60123 Southern: 1225 Northbrook Parkway, Suwanee, GA 30024 Western: 6550 Katella Ave., Cypress, CA 90630

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Panasonic Sales Company Division of Panasonic Puerto Rico Inc. San Gabriel Industrial Park 65th Infantry Ave. KM. 9.5 Carolina P.R. 00985(809)750-4300

For European and other fields:

Matsushita Electric Industrial Co., Ltd.

Osaka, Japan http://panasonic.net/