

OMRON

Industrial PC Platform

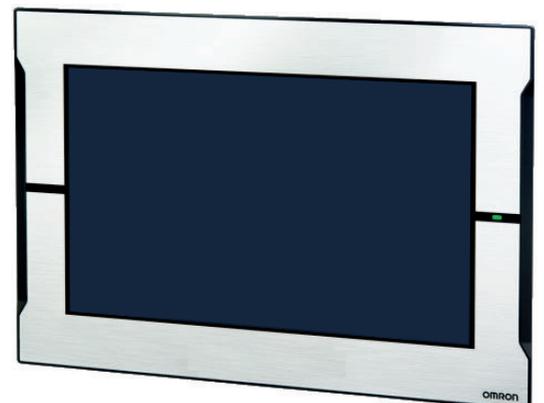
NY-series

NYE Industrial Panel PC

FHV7 Software, Setup and Operation Manual

NYE2A-20F11-□□WR1□00

NYE Industrial PC



W642-E2-01

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Introduction

Thank you for purchasing the NYE Industrial PC.

This manual contains information that is necessary to use the NYE Industrial PC (hereafter also named NYE IPC). Please read this manual and make sure you understand the functionality and performance of the NYE IPC before attempting to use it.

Keep this manual in a safe place where it will be available for reference during operation.

Intended Audience

This manual is intended for the following personnel, who must also have knowledge of software programming (a software engineer or the equivalent).

- Personnel in charge of introducing Factory Automation systems.
- Personnel in charge of designing Factory Automation systems.
- Personnel in charge of software design for Factory Automation systems.
- Personnel in charge of installing and maintaining and programming Factory Automation systems.
- Personnel in charge of managing Factory Automation systems and facilities.

Applicable Products

This manual covers following Industrial Panel PC products:

NYE2A-20F11-□□WR1□00



Additional Information

Refer to *1-4 Product Configuration* on page 1-5 for configuration details.

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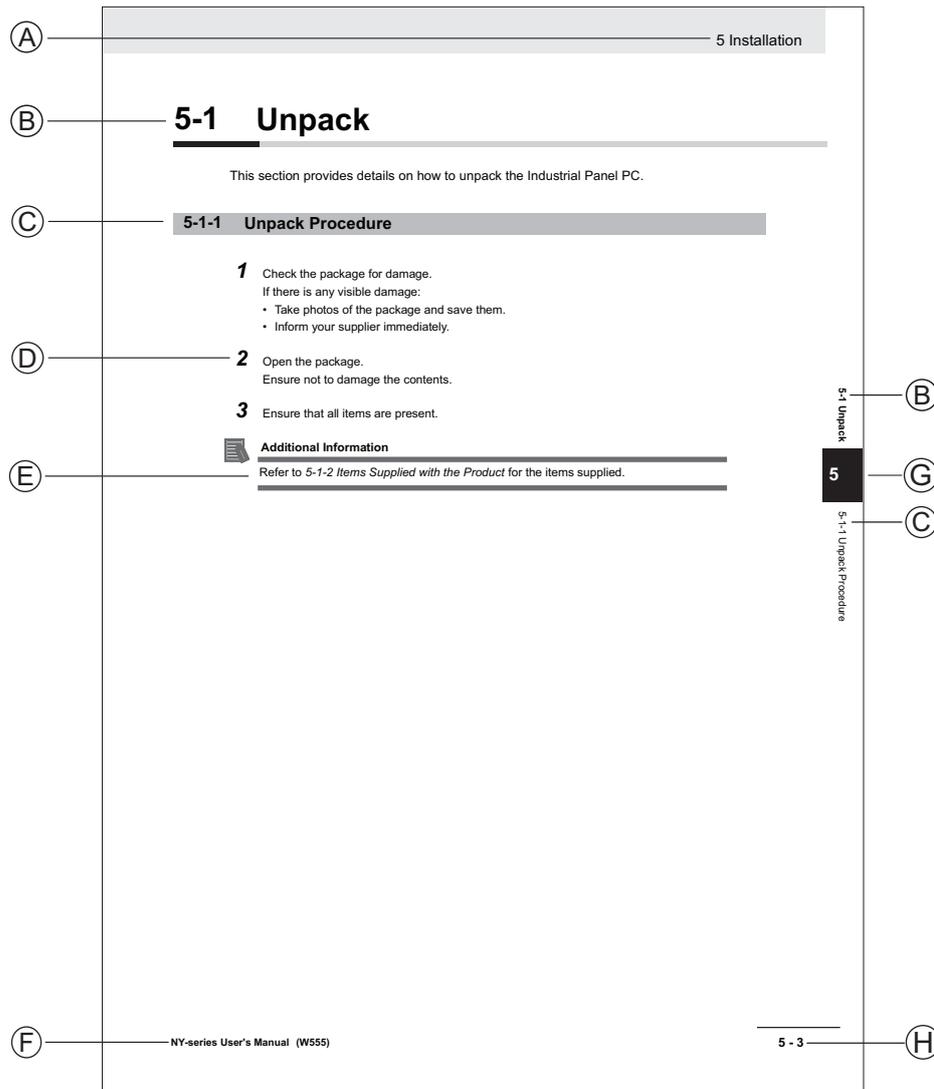
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Manual Information

This section provides information about this manual.

Page Structure

The following page structure is used in this manual.



Note: This illustration is provided as a sample. It will not literally appear in this manual.

Item	Explanation	Item	Explanation
A	Level 1 heading	E	Special Information
B	Level 2 heading	F	Manual name
C	Level 3 heading	G	Page tab with the number of the main section
D	Step in a procedure	H	Page number

Special Information

Special information in this manual is classified as follows:



Precautions for Safe Use

Precautions on what to do and what not to do to ensure safe usage of the product.



Precautions for Correct Use

Precautions on what to do and what not to do to ensure proper operation and performance.



Additional Information

Additional information to read as required.

This information is provided to increase understanding or make operation easier.



Version Information

Information on differences in specifications and functionality between different versions.

Terms and Conditions Agreement

Warranty, Limitations of Liability

Warranties

- **Exclusive Warranty**

Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

- **Limitations**

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right.

- **Buyer Remedy**

Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

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OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN

ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Application Considerations

Suitability of Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Disclaimers

Performance Data

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the

Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

Safety Precautions

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

Precautions for Safe Use

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

Precautions for Correct Use

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

Regulations and Standards

Conformance to EU Directives

The NYE Industrial PC complies with EU Directives. To ensure that the machine or device in which the NYE IPC is used complies with EU Directives, the following precautions must be observed:

- The NYE IPC must be installed within a control panel.
- The NYE IPC that complies with EU Directives also conforms to the Common Emission Standard. Radiated emission characteristics may vary depending on the configuration of the control panel used, other devices connected to the control panel, wiring, and other conditions. You must therefore confirm that the overall machine or equipment in which the NYE IPC is used complies with EU Directives.
- This is a Class A product (for industrial environments). In a residential environment, it may cause radio interference. If radio interference occurs, the user may be required to take appropriate measures.

Applicable Directive

EMC Directive

EMC Directive

OMRON devices that comply with EU Directives also conform to the related EMC standards so that they can be more easily built into other devices or the overall machine. The actual products have been checked for conformity to EMC standards.

Applicable EMC (Electromagnetic Compatibility) standards are as follows:

- EMS (Electromagnetic Susceptibility): EN 61131-2
- EMI (Electromagnetic Interference): EN 61131-2

Whether the products conform to the standards in the system used by the customer, however, must be checked by the customer. EMC-related performance of the OMRON devices that comply with EU Directives will vary depending on the configuration, wiring, and other conditions of the equipment or control panel on which the OMRON devices are installed. The customer must, therefore, perform the final check to confirm that devices and the overall machine conform to EMC standards.

Conformance to UL and CSA Standards

Some Industrial PC Platform products comply with UL and CSA standards. If you use a product that complies with UL or CSA standards and must apply those standards to your machinery or devices, refer to this manual. This manual provides the application conditions for complying with the standards. If the product is used in a manner not specified in the Instruction Sheet or in the product manuals then the protection provided by the equipment may be impaired.

Software Licenses and Copyrights

This product incorporates certain third party software. The license and copyright information associated with this software is available at https://www.fa.omron.co.jp/nj_info_e/.

Related Manuals

The following manuals are related. Use these manuals for reference.

Manual name	Cat. No.	Model numbers	Application	Description
NYE-series Industrial Panel PC Hardware User's Manual	W634	NYE□□-□□□□□□	Learning all basic information about the NYE IPC. This includes introductory information with features, hardware overview, specifications, mounting, wiring, connecting, operating and maintaining the Industrial Monitor.	An introduction to the NYE IPC is provided along with the following information: <ul style="list-style-type: none"> • Overview • Hardware • Software • Specifications • Installation • Operating Procedures • Maintenance
NY-series Industrial Panel PC FHV7 Software, Setup and Operation Manual	W642	NYE2A-20F11-□□WR1□00	Learning all software related information about the NYE IPC with FHV7 Software.	An introduction to the NYE IPC with FHV7 Software is provided along with the following information: <ul style="list-style-type: none"> • Overview • Software • Specifications • Operating Procedures • Maintenance
Vision System FH/FHV Series User's Manual	Z365	FHV7□-□□□□□□-C FHV7□-□□□□□□-S□□ FHV7□-□□□□□□-S□□-□□	When User want to know about the FH/FHV series.	Describes the soft functions, setup, and operations to use FH/FHV series.
FHV Series Smart Camera Setup Manual	Z408	FHV7□-□□□□□□-H□□ FHV7□-□□□□□□-H□□-□□	When User want to know about the hardware specifications or to setup the Smart camera FHV series.	Describes FHV series specifications, dimensions, part names, I/O information, installation information, and wiring information.
Vision System FH/FHV series Processing Item Function Reference Manual	Z341		When User confirm the details of each processing items at the create the measurement flow or operate it.	Describes the software functions, settings, and operations for using FH/FHV series.
Vision System FH/FHV Series User's manual for Communications Settings	Z342		When User confirm the setting of communication functions.	Describes the functions, settings, and communications methods for communication between FH/FHV series and PLCs. The following communications protocol are described. Parallel, PLC Link, EtherNet/IP, EtherCAT, and Non-procedure.

Terminology and Abbreviations

Industrial PC Platform

Term / Abbreviation	Description
Industrial PC Platform	An integrated range of OMRON products designed for use in any industrial application that will benefit from advanced PC technology
Industrial Monitor	An industrial monitor with a touchscreen as the user interface designed to work in industrial environments
Industrial Panel PC	An industrial PC with an integrated touchscreen monitor designed to work in industrial environments
Industrial Box PC	A box-shaped industrial PC including an OS designed to work in industrial environments
IPC	Industrial PC

Software

Term / Abbreviation	Description
BIOS	Basic Input Output System. The first software run by a PC when powered on.
Merge module	A module providing a standard method by which developers deliver shared Windows installer components and setup logic to their applications
MSDN	Microsoft Developer Network
NUI	Natural User Interface
OS	Operating System
TCP/IP	Transmission Control Protocol / Internet Protocol, a core member of the Internet protocol suite
Windows	An Operating System designed by Microsoft
UWF	Unified Write Filter is an optional feature of Windows 10. Writing to the drive is not done directly in ROM such as HDD or SSD, but in the overlay area (RAM) on the memory.

Hardware

Term / Abbreviation	Description
3D TLC	3D Triple-Level Cell flash memory
CFast	An SSD CFast storage device
CPU	A Central Processing Unit is the hardware within a computer that executes the instructions of a computer program
Ethernet	A network communication protocol used in TCP/IP network
USB	Universal Serial Bus

Revision History

A manual revision code appears as a suffix to the catalog number on the front and back covers of the manual.

Cat. No. W642-E2-01

↑
Revision code

Revision code	Date	Revised content
01	April 2024	First release



Overview

This section provides general information about the NYE Industrial PC for FHV7 operation.

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1-5	Overall Setup Procedure	1-6

1-1 Intended Use

The NYE Industrial PC is intended to be used in factory automation environments.

This is a special model with the image sensor FHV7 operating software pre-installed on a NYE industrial PC.

It can be easily installed as a monitor for FHV7 operation.

A user can control the smart camera FHV7.

1-2 Software Features

The NYE industrial PC for FHV7 operation offers the following software features:

- FHV7 operating software
 - Control of smart camera FHV7
- Software Utilities (NYE IPC standard software)
 - A software utility provides status details for diagnosing and resolving problems.

1-3 ID Information Label

The ID information label contains the product configuration and other details on the specific configuration of your Industrial PC.

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

1-4 Product Configuration

This section provides an overview of the product configurations available for the NYE IPC.

The product configuration is visible in the model-ID that is mentioned on the ID information label of the NYE IPC.

The structure of the model-ID is: NYE□□-□□□□□-□□□□□□□□.

Each item in the model-ID has a specific meaning.

NYE □□ - □□□□□ - □□□□□□□□
 1 2 3 4 5 6 7 8 9 10 11 12 13 14

Item	Description	Option / Description
1	Series name	NYE: NYE- series NYE IPC
2	CPU	2A: Intel Atom E3940 CPU
3	Memory	2: DDR3L 4 GB no ECC
4	Expansion	0: No expansion
5	Operating System / Software	F: Windows 10 IoT Enterprise 2021 LTSC - 64 bit with FHV7
6	Storage	1: 128GB, CFast 3DTLC
7	Interfaces	1: RS-232C
8	Display size (diagonal)	12: 12.1 inch model 15: 15.4 inch model
9	Aspect ratio	W: Wide
10	Touchscreen	R: Resistive
11	Frame-type	1: Panel mount
12	Front material & Color	2: Body Aluminium Black + Frontsheet Black 3: Body Aluminium Black + Frontsheet Silver
13	Build-in options	0: None
14	Customization	0: None

1-5 Overall Setup Procedure

This section gives the overall setup procedure for the Industrial PC.

This manual presents this information in the same order as the following setup procedure.

To setup the Industrial PC:

1 Familiarize yourself with the Industrial PC

- Refer to the sections Overview and Hardware of the Hardware manual.

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

- Refer to the information in this manual.

Specifically refer to the sections:

- *Section 2 System Configurations* on page 2-1
- *Section 3 NYE IPC standard software* on page 3-1

This product, which is used for FHV7 operation, does not require the **Power Button** or **Windows Shut Down** operation after the UWF setting is turned on, and can cope with a 24V power outage.

UWF is set to OFF at the time of shipment. After performing all settings, please set UWF to ON.

2 Install the IPC Hardware

Perform the procedures that are required to use the Industrial PC such as installation, and connection with peripheral devices including a UPS.

Refer to the section Installation in the Hardware manual.

3 Setup the IPC

Install and configure the operating system, the software support utilities and the UPS software.

Item	Remark	Reference
Operating system settings	Follow the procedure for 'First time startup'	The applicable Hardware Manual, see step 1.
UPS settings	Make the required UPS settings	The applicable UPS Manual

Adjust the brightness and contrast of the monitor.

4 Operate the IPC (NYE IPC standard operation)

Use the operating procedures to operate the Industrial PC.

Refer to the sections Operating Procedures in this manual and in the Hardware manual.

5 Operate the IPC (FHV7 operation).

Use the operating procedures to operate the FHV7. Refer to the sections *Section 5 Operating Procedures (FHV7 operation)* on page 5-1 in this manual.

It also describes how to change the settings of the Windows Operating System and how to enable UWF.

The setup of the Industrial PC is finished.

The section *Section 6 Maintenance* on page 6-1 contains preventive and corrective maintenance information.

Refer to the section Maintenance in this manual and in the Hardware manual.



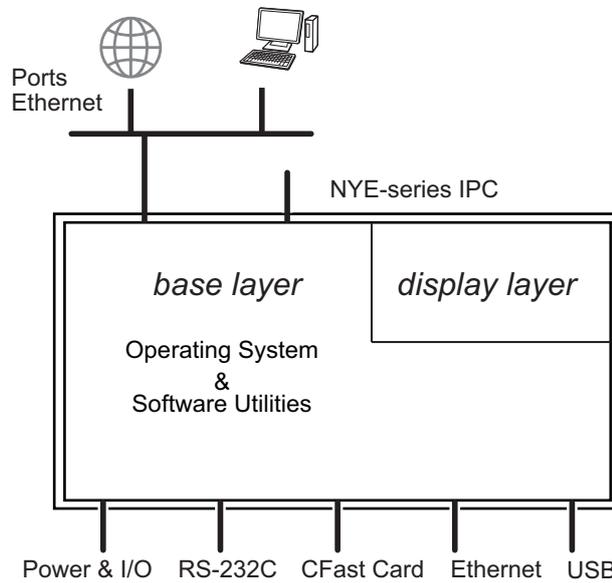
System Configurations

This section provides an overview of the system configurations for the NYE Industrial PC.

2-1 Software Configuration..... 2-2

2-1 Software Configuration

The NYE Industrial PC supports the following software configurations.



The operating system is the foundation for your software environment. The operating system manages the IPC hardware and supplies an interface for the users.

Refer to *3-1 Windows Operating System* on page 3-2 for details.

Support software is a collection of software utilities to support and extend the functionality of your Industrial PC.

Refer to *3-2 Overview IPC Support Software for Windows* on page 3-3 for details.

3

NYE IPC standard software

This section provides software information for the NYE Industrial PC.

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3-1 Windows Operating System

This section provides an overview of Windows Operating System information.

3-1-1 Determine Your Version of the Windows Operating Systems

This section provides methods to find version details of your Windows Operating System.

Windows 10

To determine your version of the Windows Operating System:

- 1** Select the **Search** Button.
- 2** Enter *System Information* in the search box.
- 3** Select **System Information** in the pop-up that appears.
An overview of your System Information will appear, including the Windows Operating System details.

3-2 Overview IPC Support Software for Windows

This section gives an overview of the software utilities available for NYE Industrial PC's with a Windows operating system.

Product	Software utility
Industrial Panel PC	Industrial PC Support Utility Industrial PC Tray Utility ^{*1*2}

*1. Included in the Industrial PC Support Utility installer

*2. Together with the Industrial PC Tray Utility also Microsoft .NET Framework 4.6 is installed.

Select and download the required utility from [the OMRON website](#).



Additional Information

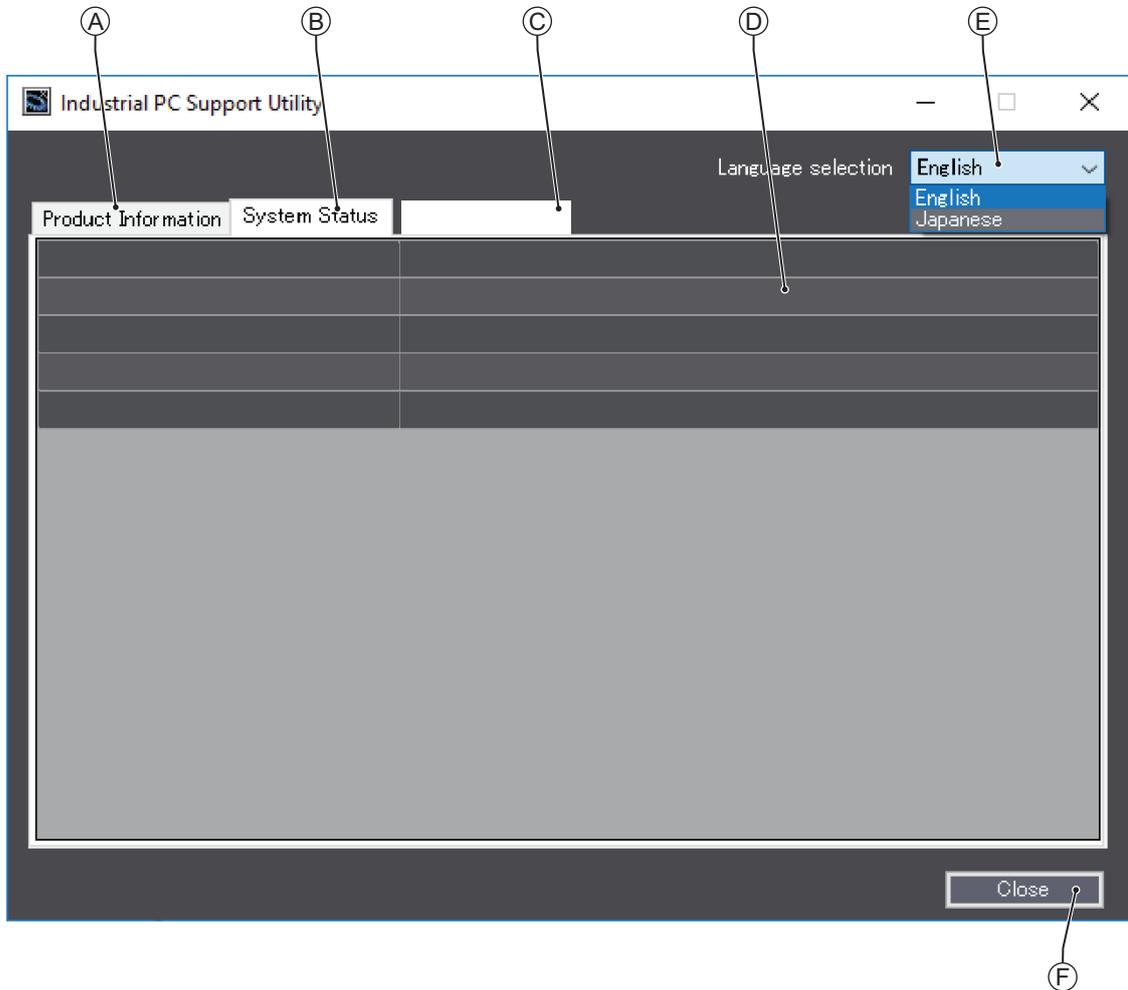
An internet connection is required to install support software.

3-3 Industrial PC Support Utility

This section provides an overview of the Industrial PC Support Utility.

3-3-1 Industrial PC Support Utility Overview

The Industrial PC Support Utility is a software utility to assist in diagnosing and resolving problems of the NYE Industrial PC.



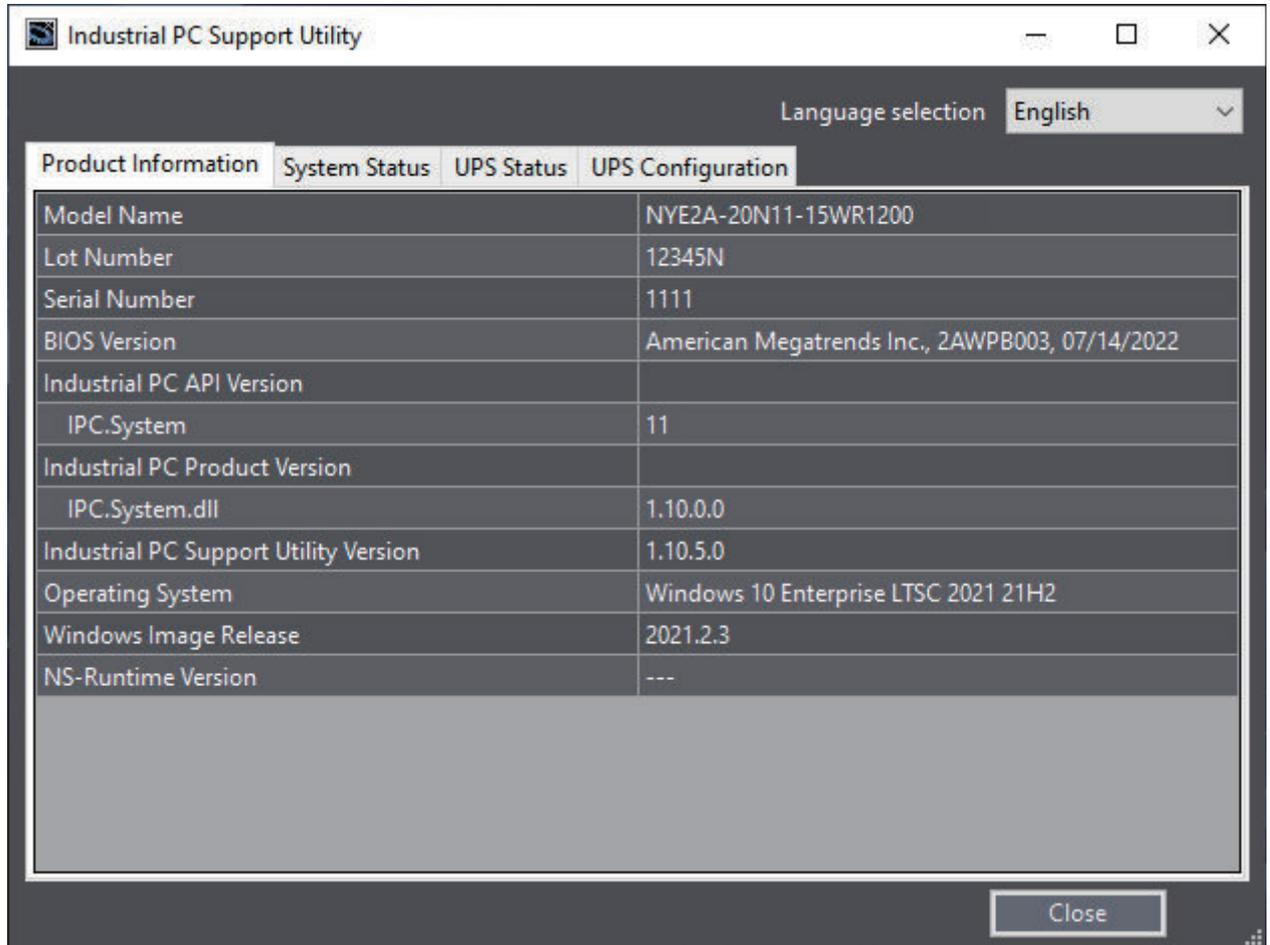
The screen above is an example only, the actual content can differ per model.

Item	Description	Details
A	Production Data Tab	Select to display Production Data details in the Tab details area (D). Refer to 3-3-2 <i>Product Information Tab</i> on page 3-6 for details.
B	System Status Tab	Select to display System Status details in the Tab details area (D). Refer to 3-3-3 <i>System Status Tab</i> on page 3-7 for details.
C	Optional other Tabs	Optional other Tabs
D	Tab details	Details of the selected Tab page.
E	Language Selector	Select to display and choose the UI language of the Industrial PC Support Utility.
F	Close Button	Close the Industrial PC Support Utility.

3-3-2 Product Information Tab

The Production Data tab displays generic NYE Industrial PC information.

Examples are Model name, Lot number, Serial number and software versions (Industrial PC Support Utility and Industrial PC System API).



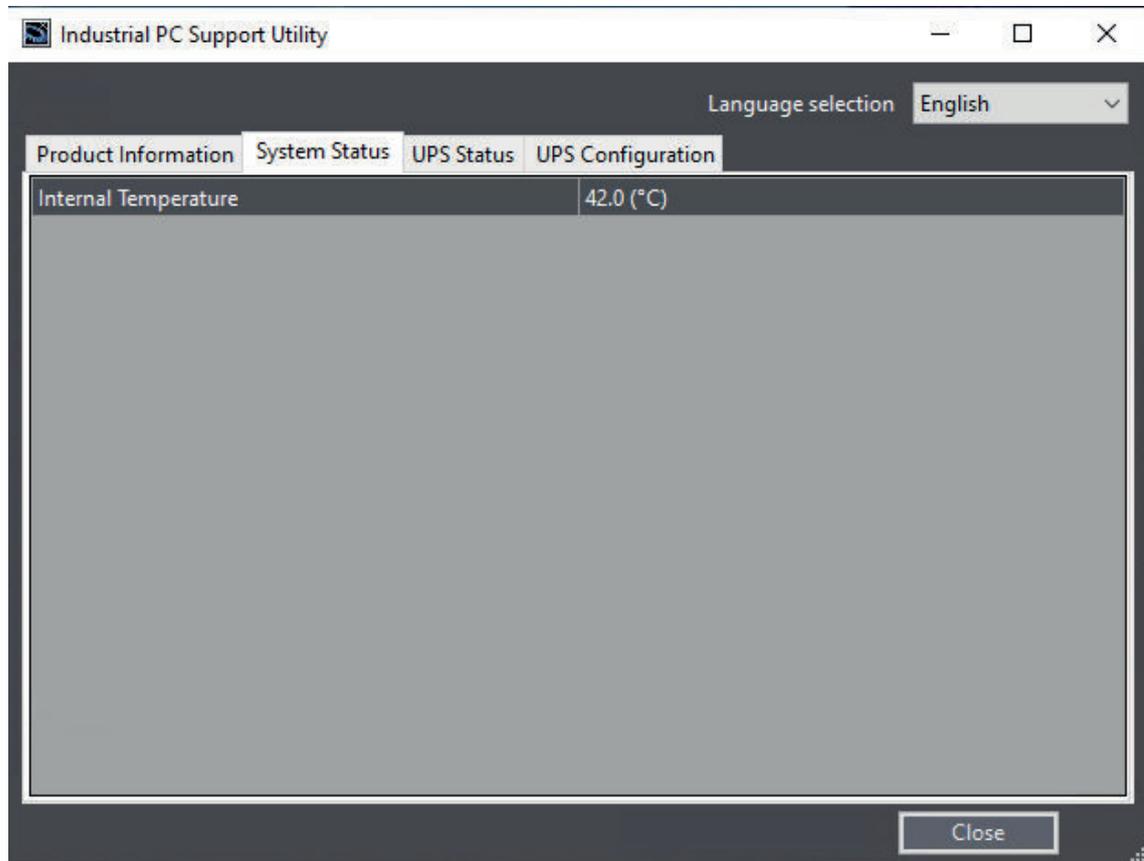
- Model Name is the configuration code of this model.
Refer to *1-4 Product Configuration* on page 1-5 for details.

Item	Displayed information
Model Name	The model number of the Industrial PC
Lot number	The lot number of the Industrial PC
Serial number	The serial number of the Industrial PC
BIOS Version	The BIOS version of the Industrial PC
Industrial PC API Version	The version of API installed in Windows
IPC.System	The API for the Industrial PC system
Industrial PC Product Version	The product version of the library installed in Windows
IPC.System.dll	The library for the Industrial PC system
Industrial PC Support Utility Version	The version of the Industrial PC Support Utility
Operating System	The installed Operating System
Windows Image Release	The date of the Windows Image
NS-Runtime Version	The version of the NS Runtime software

3-3-3 System Status Tab

The System Status tab displays the actual states and diagnostic information like the internal temperature with a refresh rate of 2 seconds.

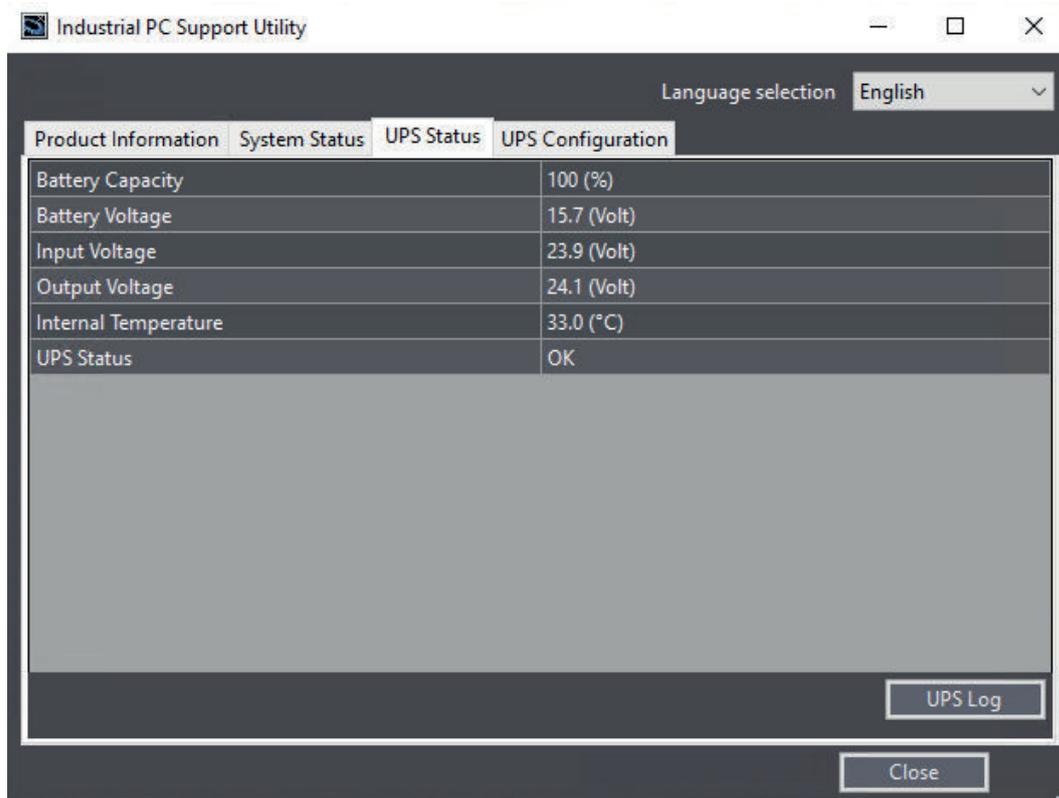
A status that requires attention is indicated with a red bar.



Item	Description
Internal Temperature	The average CPU temperature.

3-3-4 UPS Status Tab

The UPS Status tab displays status details about the UPS and the PAL Utility when applicable.



Item	Description
Battery Capacity	The percentage of remaining Battery capacity. *1 This parameter can trigger messages 'Battery Low' and 'Battery Weak'.
Battery Voltage	The voltage of the UPS Battery. *1 This parameter can trigger messages 'Battery Under Charge' and 'Battery Over Charge'.
Input Voltage	The actual UPS input voltage. *1 This parameter can trigger the message 'UPS Input Fail'.
Output Voltage	The actual UPS output voltage. *1 This parameter can trigger the message 'UPS Output Low Voltage', 'UPS Output High Voltage'.
Internal Temperature	The UPS internal temperature. *1 This parameter can trigger the message 'UPS Over temperature'.
UPS Status	The status of the UPS. Refer to <i>UPS Status</i> on page 3-9 for details.

*1. --- is displayed when the UPS Status is 'Disconnected' or 'PAL Utility is Running'.

Select button UPS Logs to display the 'UPS Logs'-window.

Select your UPS loggings and then select 'Download' to download the logging.

UPS Status

The UPS Diagnostics tab displays the UPS status.

The status with the highest priority is displayed in the notification window of the Industrial PC Tray Utility.

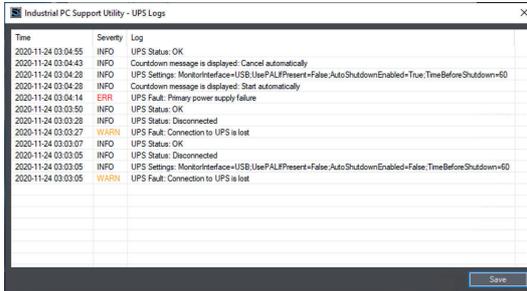
Refer to *3-4 Industrial PC Tray Utility* on page 3-14 for details.

Following statuses are available:

Category	Message	Description
Normal	OK	UPS is ON (running state)
	OFF	UPS is OFF (idle state)
	Disconnected	No USB connection between UPS and IPC
	PALRunning	PAL utility is installed and running on the IPC
Warning	ConnectionLost	Connection to UPS is lost
	BatteryLow	Battery low threshold exceeded
	BatteryWeak	Battery is weak
	BatteryLost	Battery is disconnected
	UPSOverload	Overload is detected
	UPSOverloadTimeout	Overload timeout
	UPSOutputShort	Short-circuit detected at output
	BatteryUnderCharge	Battery is undercharged
	UPSOverTemperature	Temperature is too high
	UPSOutputLowVoltage	Output voltage is too low
	Sc20gConflict	SC20G wear detected
Error	BatteryOverCharge	Battery is overcharged
	UPSInputFail	Primary power supply failure
	UPSBypass	Error during bypass operation
	UPSBoost	Boosting power
	UPS Buck	Bucking power
	UPSOutputOverVoltage	Output voltage is too high
	UPSDcBusVoltage	DC bus voltage error
	FanFail	Fan error
	TransformerFail	Transformer error
	BatteryLifeOver	Battery is at end-of-life
	BmsOverCurrent	BMS overcurrent
	BmsInternalError	BMS internal error
	ChargerFail	Charger failure
	BmsOverVoltage	BMS cell overvoltage
	BmsUnderVoltage	BMS cell undervoltage
BatteryMisconnect	Battery is not connected correctly	

UPS Log

Select button **UPS Logs** to display the UPS log file.



Select **Save** to save the log file to the location of your choice.

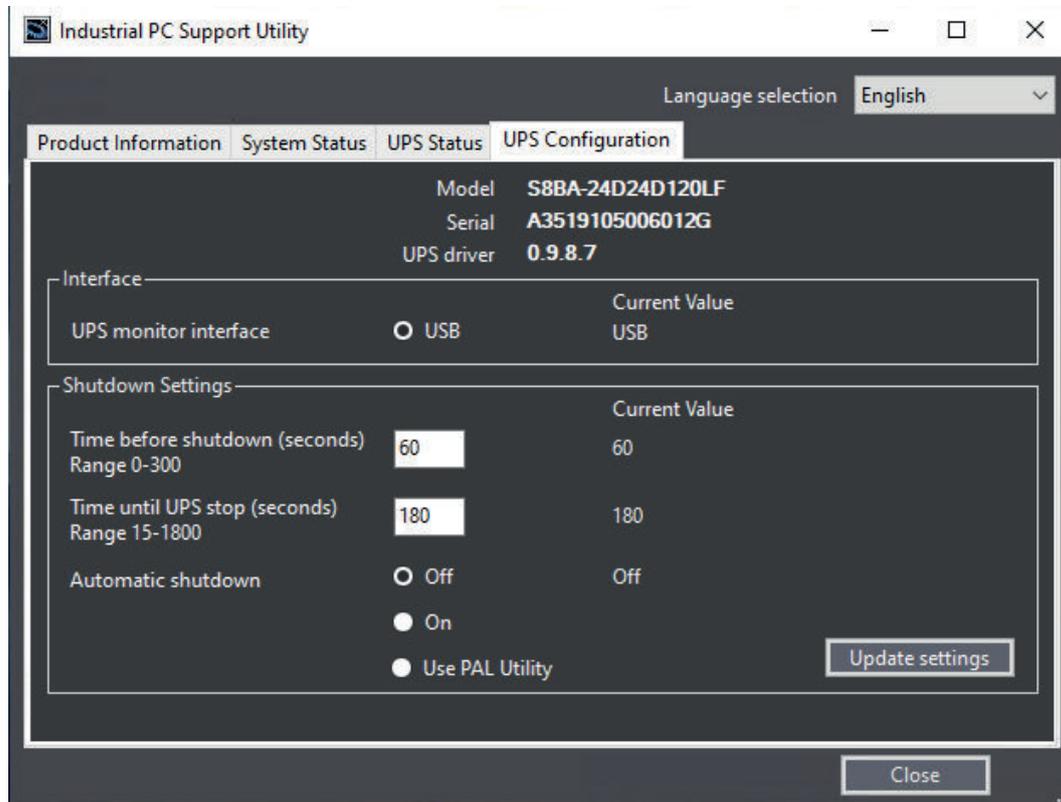


Additional Information

- The contents is updated every 2 seconds.
- The logged events are available in the Windows EventLog in **IPCSupportUtility** and in **UpsSource**.

3-3-5 UPS Configuration Tab

The UPS Configuration tab starts with the UPS details Model name, Serial number and UPS driver version of the connected UPS. The UPS Configuration tab displays the Interface Settings and Shutdown Settings for a connected UPS.



Item		Description
Interface	UPS monitor Interface	Select the settings for the interface cable connected to detect the power interruption signal from the UPS.
Shutdown Settings	Time before shutdown	The number of seconds after the UPS shutdown that Windows waits to shutdown the IPC.
	Time until UPS stops	The number of seconds after the Windows shutdown UPS output switches OFF.
	Automatic Shutdown	The IPC automatic shutdown settings with: <ul style="list-style-type: none"> Off: The Industrial PC Support Utility will monitor the UPS status, but not execute the IPC shutdown. On: The Industrial PC Support Utility will monitor the UPS status and determine to the IPC shutdown. Use PAL Utility: PAL Utility will monitor the UPS status and determine to the IPC shutdown. *1

- *1. The Power Attendant Lite Utility is a software utility that constantly monitors the status of the UPS that is connected to the NYE IPC.
When the Power Attendant Lite Utility discovers a power interruption it will send a signal to the NYE IPC to shut down.
Behavior with setting 'Use Pal Utility':
- PAL Utility not installed.
The IPC will not automatically shutdown. The Industrial PC Support Utility will stay connected to the UPS.
 - PAL Utility installed but not active.
The IPC will not automatically shutdown. The Industrial PC Support Utility is not connected to the UPS.
 - PAL Utility installed and active.

The IPC will automatically shutdown. The Industrial PC Support Utility is not connected to the UPS. When changing from “Use PAL Utility” to “ON” or to “OFF”, the PAL Agent service will stop.



Precautions for Correct Use

The Industrial PC Support Utility uses the UPS configuration using the same communication channels. Therefore, the Industrial PC Support Utility and PAL Utility cannot be used at the same time.

3-3-6 Compatibility

Compatibility with **Operating Systems**

This software utility can be used on an NYE IPC with Windows 7 or higher.

Compatibility with **related software utilities**

When during startup the error **Could not load plugin: *\\OMRON\\Utility*.dll** appears software utilities are not compatible.

Download and install the latest version of the installed software utilities.

3-3-7 Installation

The Industrial PC Support Utility is pre-installed on the Industrial PC if it comes with a Windows operating system installed.

Download the Industrial PC Support Utility from [the OMRON website](#) if reinstallation is required.



Additional Information

A new installation on a Windows 10 PC will require the installation of the .net Framework 3.5 SP1.

The .net Framework software can be downloaded from a Microsoft website.

3-3-8 Startup

The Industrial PC Support Utility can be started from:

- Windows Start Menu
Select **OMRON** and then **Industrial PC Support Utility**.
- Industrial PC Tray Utility
- Windows desktop shortcut



3-3-9 Messages

The Industrial PC Support Utility will use the Industrial PC Tray Utility to display UPS messages.

3-3-10 Logging

There is logging in the Windows event log of the following utilities:

- Industrial PC Support Utility

In the Windows Event Viewer filter for event source *IPCServiceHost* or *OMRON Industrial PC Support Utility*.

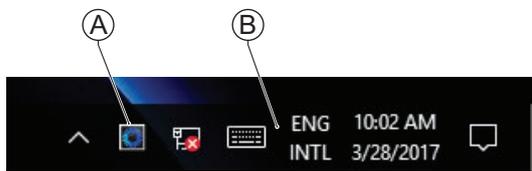
3-4 Industrial PC Tray Utility

This section provides an overview of the Industrial PC Tray Utility.

3-4-1 Industrial PC Tray Utility Overview

The Industrial PC Tray Utility is a software utility that provides information about the current state of the Industrial PC, its related devices, and associated software.

When running, the Industrial PC Tray Utility is always present as a status icon **(A)** in the system tray area **(B)** of Windows.



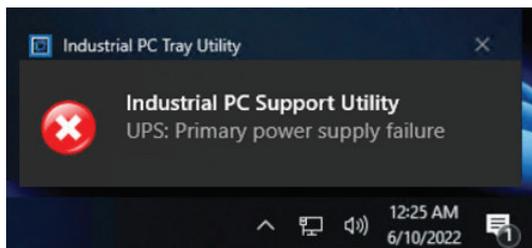
Windows 10

3-4-2 Features

The Industrial PC Tray Utility can display UPS messages. Examples are:

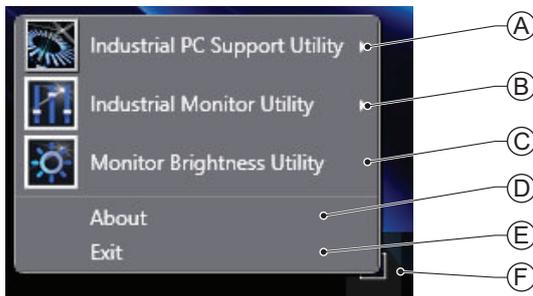
- **Primary power supply failure**
- **Short-circuit detected at output**
- **Temperature is too high**

Example:



3-4-3 Menu

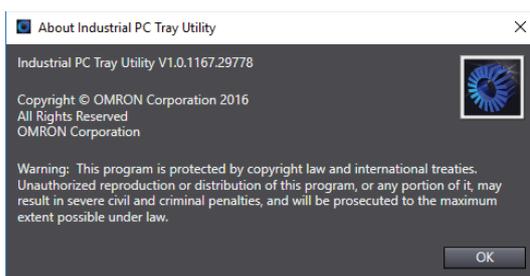
Select the Industrial PC Tray Utility icon (F) to display the menu.



- The application displays the available utilities.
 - Select an entry to launch the associated utility, if applicable.
 - The icons of menu items in the Industrial PC Tray Utility menu will have a warning or error symbol when applicable.
 - The Industrial PC Support Utility (A) is available in the menu when installed.
 - The Industrial Monitor Utility (B) is available in the menu when installed.
 - The Industrial Monitor Brightness Utility (C) is available in the menu when installed.
 - The application area can be configured to show and launch both OMRON and third party utilities.
- The **About** entry (D) shows details of the Industrial PC Tray Utility.
Refer to 3-4-4 *About the Industrial PC Tray Utility* on page 3-15 for details.
- The **Exit** entry (E) closes the utility.

3-4-4 About the Industrial PC Tray Utility

The About window shows the version of the Industrial PC Tray Utility and copyright information.



3-4-5 Status Indicators on Icons

The following table provides the indicator details of the Industrial PC Tray Utility.

Overlay type	Icon	Description
None		No OMRON software utility has issued warning or error notifications.
Warning sign		At least one software utility has issued a warning notification.
Error sign		At least one software utility has issued an error notification.

3-4-6 Compatibility

Compatibility with **Operating Systems**

This software utility can be used on an NYE IPC with Windows 7 or higher.

Compatibility with **related software utilities**

When during startup the error **Could not load plugin: *\\OMRON*\\Utility*.dll** appears software utilities are not compatible.

Download and install the latest version of the installed software utilities.

3-4-7 Installation

The Industrial PC Tray Utility is pre-installed on the Industrial PC if it comes with a Windows operating system installed.

The Industrial PC Tray Utility is included in the installers of the Industrial PC Support Utility and Industrial Monitor Utility. Install the Industrial PC Support Utility or Industrial Monitor Utility to install the Industrial PC Tray Utility.

3-4-8 Startup

By default the Industrial PC Tray Utility is configured to start automatically at Windows startup.

To manually start the Industrial PC Tray Utility:

- 1** Locate the Industrial PC Tray Utility using the Windows **Start** menu or the Windows search box.
- 2** Use the option **Run as administrator** to activate the Industrial PC Tray Utility.



Additional Information

The procedure to use **Run as administrator** is:

- For Windows 10 using the **Start** menu:
Right-click the Industrial PC Tray Utility, select **More** and then **Run as administrator**.
 - For Windows 10 using **Search**:
Right-click the Industrial PC Tray Utility in the search results and select **Run as administrator**.
-

The Industrial PC Tray Utility started.

3-5 Power Attendant Lite Utility

This section provides an overview of the Power Attendant Lite Utility (PAL).

3-5-1 Power Attendant Lite Utility

The Power Attendant Lite Utility is a software utility that constantly monitors the status of the UPS that is connected to the NYE IPC.

When the Power Attendant Lite Utility discovers a power interruption it will send a signal to the NYE IPC to shut down.

Refer to the *UPS Power Attendant Lite for Windows User's Manual* for details.

3-5-2 Features

The Power Attendant Lite Utility provides the following features:

- Signal the NYE IPC to shut down when a power interruption is detected.
- Configure the shutdown conditions when a power interruption is detected.
- Display the state of the connected UPS using the icon in the system tray area.

Icon	Description
	Normal operation
	Power Attendant Lite service stopped
	UPS is supplying power from the internal battery
	Communication error

3-5-3 Compatibility

This software utility can be used on an NYE IPC with Windows 7 or higher.

3-5-4 Installation

The Power Attendant Lite Utility is not pre-installed on a NYE IPC.
Download the installer from [the OMRON website](#) if required.

To install the Power Attendant Lite Utility:

- 1** Ensure the revision number of the UPS is correct.
Refer to the Hardware Manual for details.
- 2** For an Industrial PC Support Utility with tab **UPS Configuration** ensure the setting for **Automatic shutdown** is set to **Use PAL only**.
This will prevent the installation error message **Failed to register the agent service**.
- 3** Ensure the UPS is connected to the NYE IPC with a USB cable.
- 4** Open the Power Attendant Lite Utility installer folder and activate the installer file **setup.exe**.
- 5** Follow the installer steps to complete the installation.

The Power Attendant Lite Utility is installed.

3-5-5 Configuration

Configure the Power Attendant Lite Utility before using the NYE IPC with a UPS connected using USB.

To configure the Power Attendant Lite Utility:

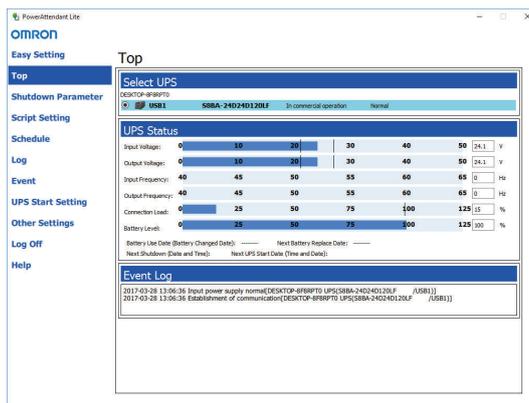
- 1 Activate the icon of the Power Attendant Lite Utility to start the software.



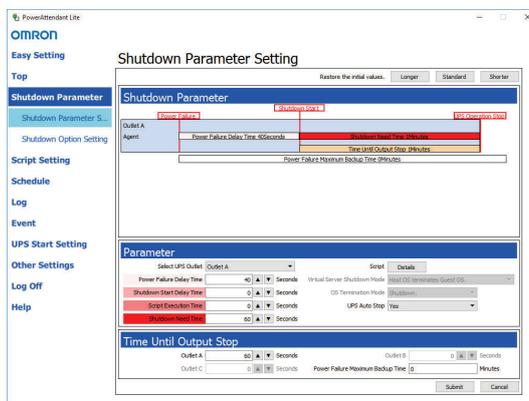
A UPS selection window will be displayed.

- 2 Select the connected UPS.
A Login window will be displayed.

- 3 Login with ID **Admin** and password **omron**.
The Top window with UPS status information will be displayed.



- 4 Configure the parameters for your specific situation.



Refer to *UPS Power Attendant Lite for Windows User's Manual* for details.

- 5 Select **Detailed Setting / Other Settings / Communication Setting / UPS Communication Port** to display the parameter **COM search** to UPS detection.
- 6 Set the parameter to **Do not search for COM ports** to prevent interference for the COM ports.

- 7** Select **Submit** to save the setting.
- 8** Select the close button in the right top corner to exit the Power Attendant Lite Utility software.
- 9** Select the restart behavior of the NYE IPC with the BIOS Boot Menu parameter **Power Loss Control**.
Set this parameter to **Turn On** to restart automatically after a power down from the Power Attendant Lite Utility.

10 Test the UPS shutdown behavior.

- 1) Start the NYE IPC
- 2) Start applications
- 3) Create a power interruption
- 4) Monitor the shutdown sequence and confirm a correct shutdown
When the shutdown sequence is not correct change parameters in the Power Attendant Lite Utility software and test the UPS shutdown behavior again.

The Power Attendant Lite Utility is configured.

The NYE IPC will shut down properly in case of a power supply interruption and restart automatically when the power is restored.

3-6 Software Specifications

This section provides the Software Specifications of the NYE Industrial PC.

3-6-1 Compatible and Available Operating Systems

The operating system installed on the NYE IPC must be:

- compatible with the Advanced Configuration and Power Interface (ACPI) protocol
- installed on the CFast Card

The available and compatible operating system for the NYE IPC is Windows 10.

Supported Languages

Languages default supported by the operating system are:

Operating System	Languages						
	EN	CN*1	DE	ES	FR	IT	JA
Windows 10	✓	✓	✓	✓	✓	✓	✓

*1. CN Simplified (ZH-CN) and CN Traditional (ZH-TW)



Additional Information

Refer to the Microsoft support information for details on available language packs.



Operating Procedures (NYE IPC standard software)

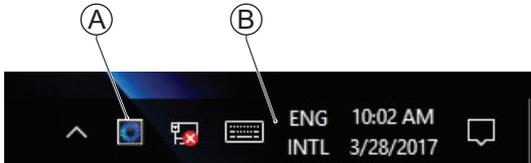
This section provides the operating procedures for the NYE Industrial PC.



4-1	React to Product Messages	4-2
4-2	React to Windows Messages	4-3

4-1 React to Product Messages

The NYE Industrial PC uses the Industrial PC Tray Utility icon (A) in the system tray area (B) of Windows to present Warnings and Errors.



Check the Industrial PC Tray Utility icon for a Warning or Error symbol. A Warning or Error symbol displayed on the Industrial PC Tray Utility icon indicates a product message.

To react to a product message:

- 1** Select the Industrial PC Tray Utility icon. A pop-up window will appear.
- 2** Read the message available in the pop-up.
- 3** Refer to *6-1-1 Warning and Error Messages* on page 6-2 for all details on the message. Perform the actions presented for the message until the Warning or Error is resolved.

The product messages for the NYE Industrial PC are resolved.

4-2 React to Windows Messages

Windows uses the Windows Action Center icon (A) in the system tray area (B) of Windows to present Warnings and Errors.



Windows 10

Check the Windows Action Center icon for a Warning or Error symbol.

A Warning or Error symbol displayed on the Windows Action Center icon indicates a Windows message.

To react to a Windows message:

- 1** Open the Windows Action Center.
 - For Windows 10: Click the Windows Action Center icon. A pop-up window will appear.
- 2** Read the message available in the window.
- 3** Perform the actions until each Warning or Error is resolved.

The Windows messages for the NYE Industrial PC are resolved.

5

Operating Procedures (FHV7 operation)

Targeted users who perform remote control of FHV7 using this product.

In other words, use this product as a touch panel monitor for FHV7.

Explain how to use the functions for automatic remote connection to FHV7 at NYE IPC startup and how to set up FTP communication and shared folder between NYE IPC and FHV7.

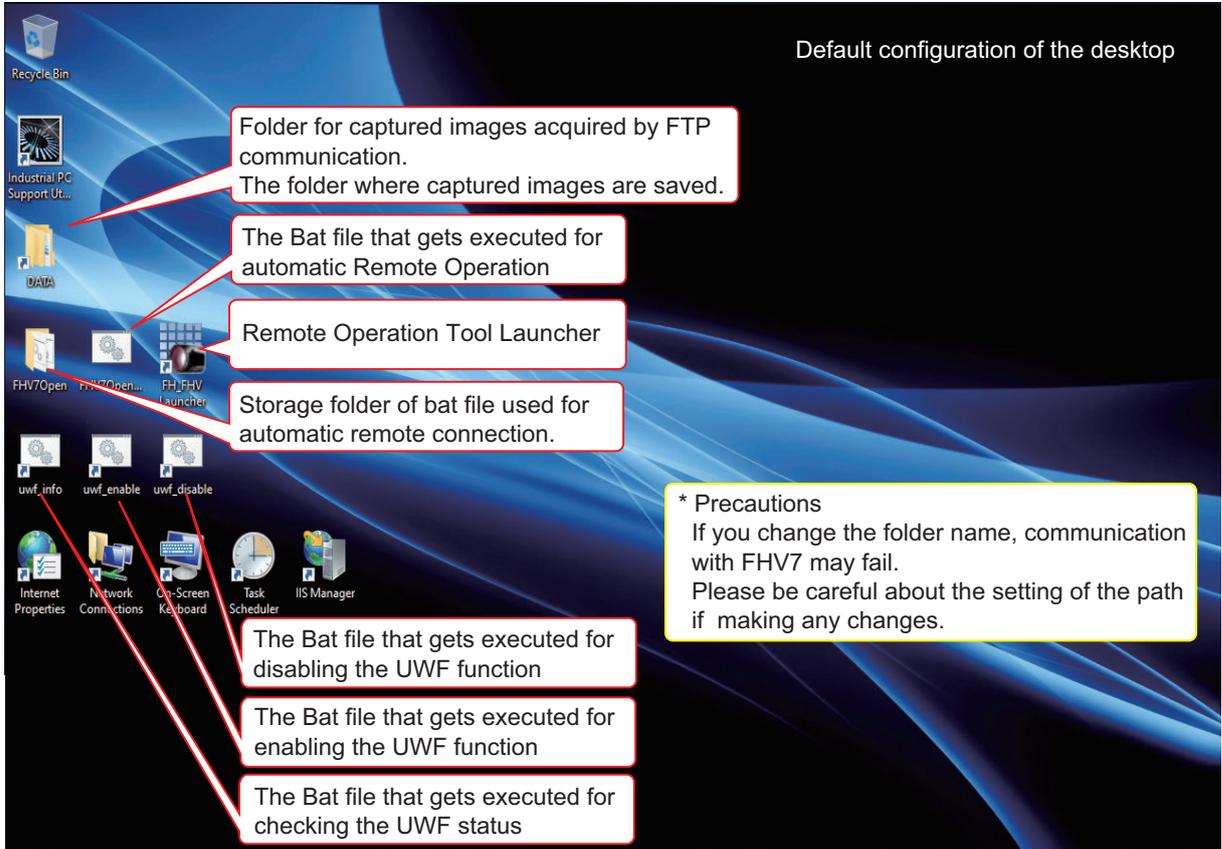
For details on how to use remote operation tool, refer to the *Vision Sensor FHV Series Smart Camera Setup Manual* (Cat. No. Z408).

5

5-1	Desktop icon description	5-2
5-2	Change Windows Operating System settings.....	5-3
5-2-1	Change the language of the Windows System	5-3
5-2-2	Change the region of the Windows Operating System	5-3
5-3	Connecting to FHV7 when starting NYE IPC	5-5
5-3-1	Procedure for Automatic remote connection with FHV7	5-5
5-3-2	Change the connected FHV7 at NYE IPC start-up	5-6
5-3-3	Remotely connect with multiple FHV7s.....	5-6
5-4	Change the version of the Remote Operation Tool	5-8
5-5	Saving logged images using FTP	5-9
5-5-1	Steps for setting up FTP communications on the FHV7	5-9
5-5-2	Change the settings of an existing FTP server	5-10
5-5-3	Set up a new FTP server.....	5-12
5-6	Managing data using shared folders.....	5-15
5-6-1	Steps for setting up an FHV7 Share folder.....	5-15
5-6-2	Set up new share folders.....	5-17
5-7	Use the UWF function	5-20
5-7-1	How to enable the UWF function.....	5-20
5-7-2	How to disable the UWF function	5-21
5-7-3	How to check the UWF filter status	5-22
5-8	Connecting to FHV7 after starting NYE IPC.....	5-24
5-8-1	Steps for manually connecting to an FHV7	5-24
5-9	Cautions/Restrictions	5-26
5-10	Troubleshooting	5-27

5-1 Desktop icon description

An explanation of the desktop configuration of the NYE IPC.



5-2 Change Windows Operating System settings

This section explains how to change the language, region, and on-screen keyboard language.



Additional Information

If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

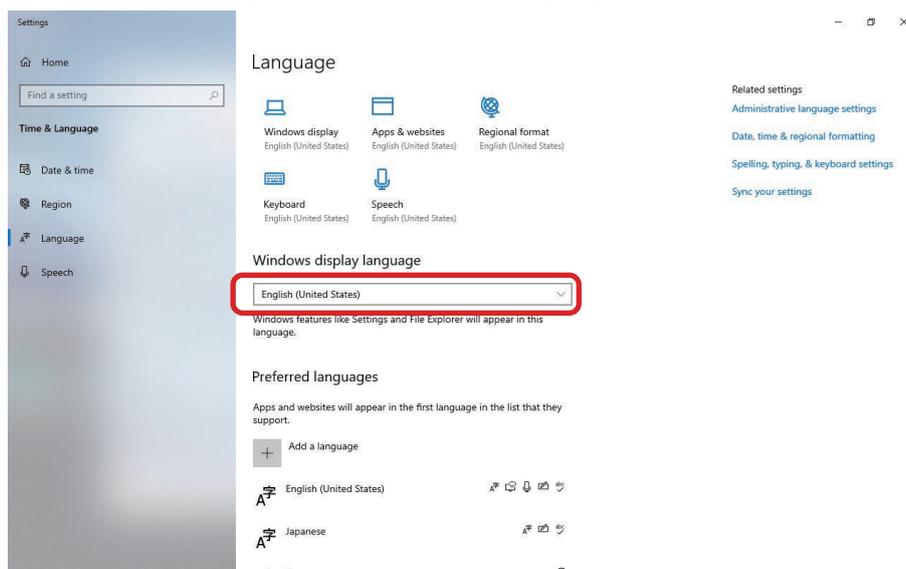
After changing the settings, you need to enable the UWF function.

Refer to 5-7 *Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

5-2-1 Change the language of the Windows System

- 1 Click the **Start** button in the bottom left corner of the desktop.
- 2 Click **Settings**.
- 3 Click **Time and Language**.
- 4 Click **Language**.
- 5 Select **Windows display language**.

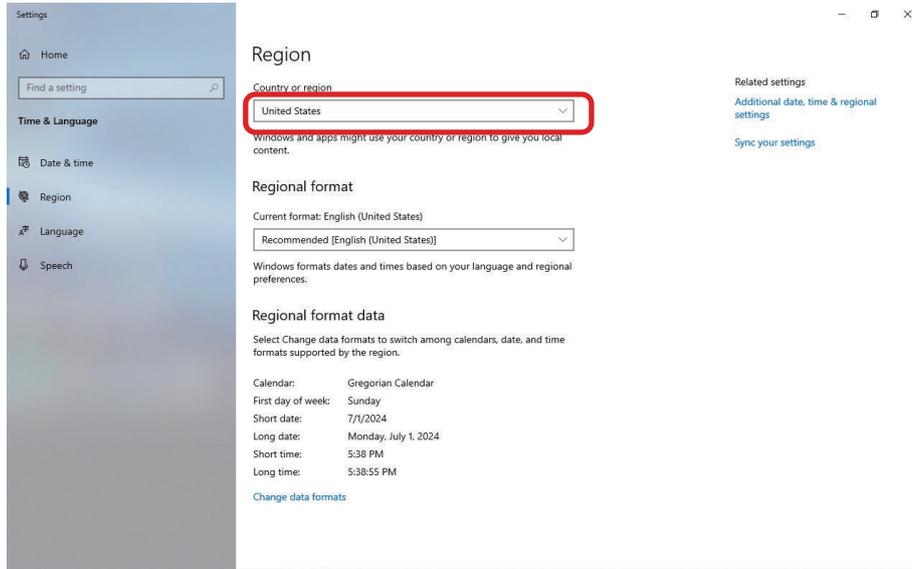
The on-screen keyboard can be used to enter text into the FHV7 Remote Operation Tool. Changing this setting will also change the language of the on-screen keyboard.



5-2-2 Change the region of the Windows Operating System

- 1 Click the **Start** button in the bottom left corner of the desktop.

- 2** Click **Settings**.
- 3** Click **Time and Language**.
- 4** Click **Region**.
- 5** Select **Country or Region**.



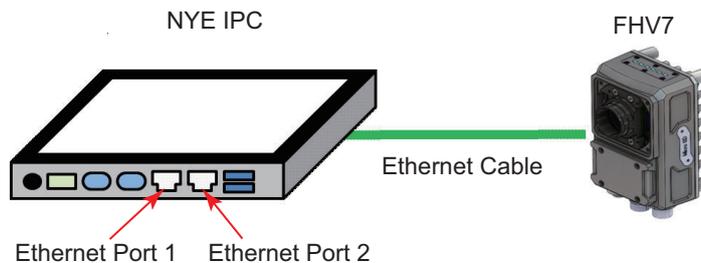
- 6** If necessary, also change **Date & Time** under **Related Settings**.

5-3 Connecting to FHV7 when starting NYE IPC

Explanation of how to make remote connection with FHV7 automatically when the NYE IPC is started. When connecting the NYE IPC and FHV7 remotely, after connecting the NYE IPC and FHV7 with the Ethernet cable, you can automatically execute the remote connection of the NYE IPC and FHV7 by turning on both power supplies.

5-3-1 Procedure for Automatic remote connection with FHV7

- 1 Connect the NYE IPC and the FHV7 with Ethernet cable.
- 2 Power on both the NYE IPC and the FHV7.



Additional Information

By default, the NYE IPC automatically tries to connect with an FHV7 at 10.5.6.100.

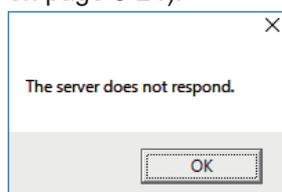
Initial IP settings of NYE IPC and FHV7

Item	IP Address	Subnet mask
NYE IPC (Port1)	10.5.6.200	255.255.255.0
NYE IPC (Port2)	10.5.6.201	255.255.255.0
FHV7	10.5.6.100	255.255.255.0



Additional Information

The automatic connection between the Remote Operation Tool and the FHV7 will be performed one minute after the NYE IPC starts. Therefore, if FHV7 startup is slower than the above period of time, automatic connection fails and the following message is displayed. If this happens, connect to the FHV7 using the following procedure (5-8 Connecting to FHV7 after starting NYE IPC on page 5-24).



5-3-2 Change the connected FHV7 at NYE IPC start-up

You can change the automatic connection setting at startup, such as when connecting to FHV7 with a different IP address.



Additional Information

If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

After changing the settings, you need to enable the UWF function.

Refer to 5-7 *Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

- 1 Open FHV7Open.bat on the desktop.
- 2 Confirm the .bat file contents in FHV7Open.bat.
- 3 Open the .bat file described above in STEP 2. It is in the FHV7Open folder.
- 4 Change the IP address set in bat to the IP address of connection target and save it.

(In FHV7Open.bat)
`.\FHV7Open\FHV7_ver621.bat`

This example is for FHV7_ver621.bat.

(Contents of .bat file in FHV7Open.bat)
`start C:\OMRON\FZ_FH_FJ_Simulator\FHVX-XXX_621\FZ-RemoteClient.exe 10.5.6.100 0 1024x1`

Change the IP address here

- 5 Restart the NYE IPC.

5-3-3 Remotely connect with multiple FHV7s

If you want to connect with multiple FHV7 when the NYE IPC is started, you can set the automatic connection of multiple units at start-up by performing the following procedures.



Additional Information

If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

After changing the settings, you need to enable the UWF function.

Refer to 5-7 *Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

Automatic connection setting procedure for multiple FHV7 units

- 1 Open the FHV7Open folder on the desktop.
- 2 Make copies of the bat files in the FHV7Open folder for the number of connected FHV7 files.

- 3 Give each copied bat file a name that will identify each FHV to connect to.
- 4 Open the re-named .bat file.
- 5 Change the IP address of each open bat file according to the IP address of the target FHV 7 and save it.

```
(In the bat file created)
start C:\OMRON\FZ_FH_FJ_Simulator\FHVX-XXX_621\FZ-RemoteClient.exe 10.5.6.100 0 1024x1
```

Change the IP address for each connected FHV7.

- 6 Open FHV7Open.bat on the desktop.
- 7 Set calling process of each bat file created in STEP 2 to STEP5 in FHV7Open.bat, and save it.

```
(In FHV7Open.bat)
call .\FHV7Open\FHV7_ver621_100.bat
call .\FHV7Open\FHV7_ver621_101.bat
call .\FHV7Open\FHV7_ver621_102.bat
```

For this example, these files in FHV7Open.

- FHV7_ver621_100.bat
- FHV7_ver621_101.bat
- FHV7_ver621_102.bat

These 3 are all simultaneously called

- 8 Restart the NYE IPC.

5-4 Change the version of the Remote Operation Tool

Explanation of how to change the version of the Remote Operation Tool that is started by automatic connection to the FHV7 when the NYE IPC is started.

If you want to change the version of the Remote Operation Tool that is launched when the NYE IPC starts, you can change it using the following procedure.



Additional Information

If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

After changing the settings, you need to enable the UWF function.

Refer to 5-7 *Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

- 1 Open FHV7Open.bat on the desktop.
- 2 Confirm the .bat file contents in FHV7Open.bat.

(In FHV7Open.bat)
`.\FHV7Open\FHV7_ver621.bat`

This example is for FHV7_ver621.bat.

- 3 Open the .bat file described above in STEP 2. It is in the FHV7Open folder.



Additional Information

Remote Operation Tool installed on the NYE IPC

- The Remote Operation Tool that comes pre-installed with the NYE IPC is the latest release available at the time of shipment.
- To use a newer version than the one pre-installed, you must first download and install it.

- 4 Change the path of the Remote Operation Tool specified in the .bat file to that of the executable file (FZ-RemoteClient.exe) of the version you wish to use in : C:\OMRON\FZ_FH_FJ_Simulator and save the change.

(Contents of.bat file in FHV7Open.bat)
`start C:\OMRON\FZ_FH_FJ_Simulator\FHVX-XXX_620\FZ-RemoteClient.exe 10.5.6.100 0 1024x1`

In this example, to launch version 6.20 of the Remote Operation Tool from under C:\OMRON\FZ_FH_FJ_Simulator, the path is set to the FZ-RemoteClient.exe in the FHVX-XXX_620 folder

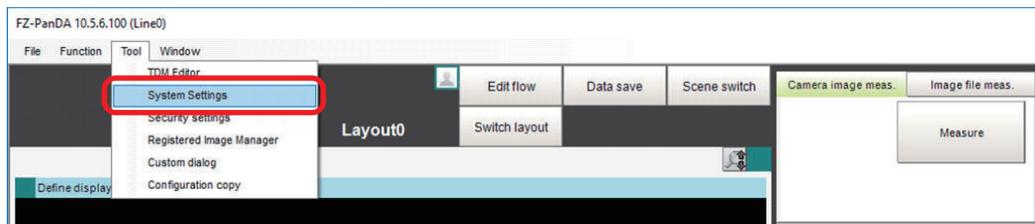
- 5 Restart the NYE IPC.

5-5 Saving logged images using FTP

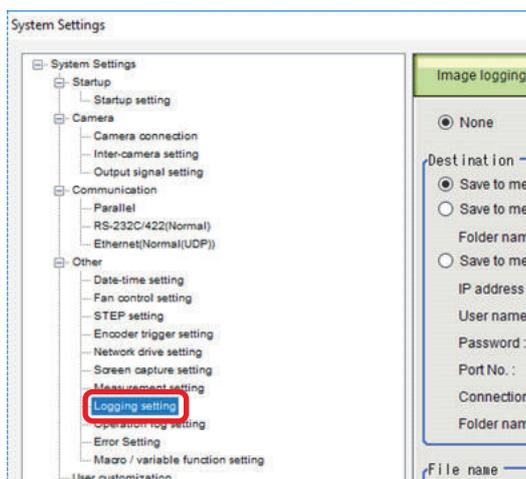
Describes how to save an image captured by the FHV7 to a NYE IPC via FTP.
With settings made on the FHV7, you can save captured images to the NYE IPC.

5-5-1 Steps for setting up FTP communications on the FHV7

- 1 Open **System Settings** from the **Tool** menu of the Remote Operation Tool connected to the FHV7.



- 2 From the items on the left of the screen, select **Logging settings**.



- 3 Change the Image Logging settings displayed on the right of the screen as follows, and click the **Apply** button at the bottom of the screen.

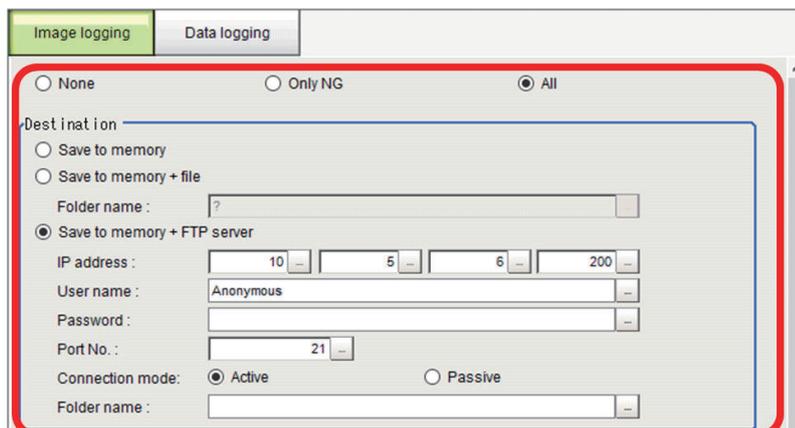


Image logging settings

Image logging settings: **Only NG** or **All**

(If you select **None**, nothing will be saved to the NYE IPC.)

Item	Description
Save Destination	Save to memory + FTP server
IP Address	IP address of NYE IPC
User Name	Anonymous
Password	None
Port No.	an FTP capable port no. (default is 21)

- 4** Now, when executing Measurement, the captured image from the measurement is saved in the DATA\FTP folder on the NYE IPC desktop.



Additional Information

In the initial state, the NYE IPC's FTP server is operating with the following settings

	Site Name	Physical path	Bind IP	Bind Port	Enable virtual host name	Auto-connect to FTP site	SSL	Authentication	Approval	Access Permissions
Initial setting	FHV	D:\DATA\FTP	All unassigned	21	OFF	ON	None	Anonymous ON Basic ON	Access Permission: Anonymous User	Read ON Write ON

5-5-2 Change the settings of an existing FTP server

An explanation of how to change the FTP server settings of NYE IPC by using IIS.

You can use the IIS (Internet Information Services Manager)  on the NYE IPC desktop to change existing FTP server settings.



Additional Information

If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

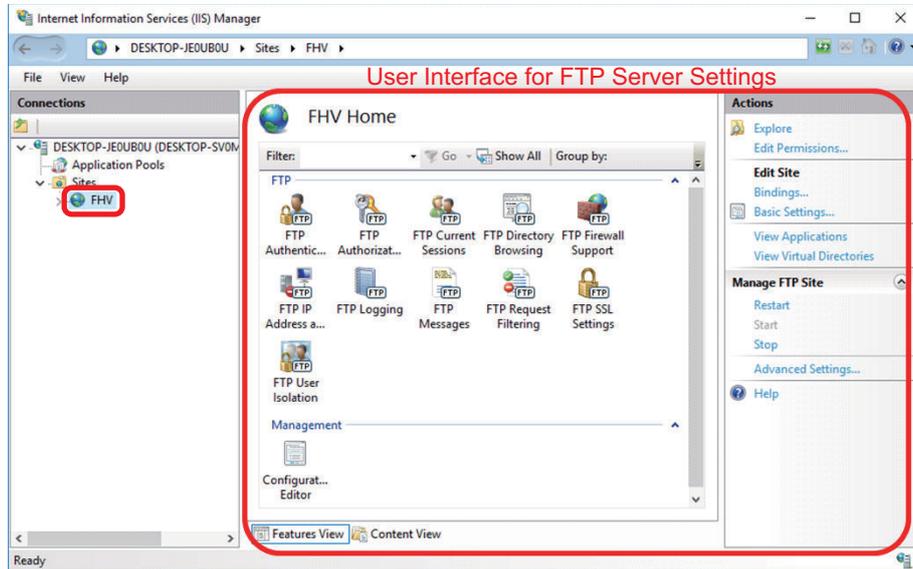
After changing the settings, you need to enable the UWF function.

Refer to *5-7 Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

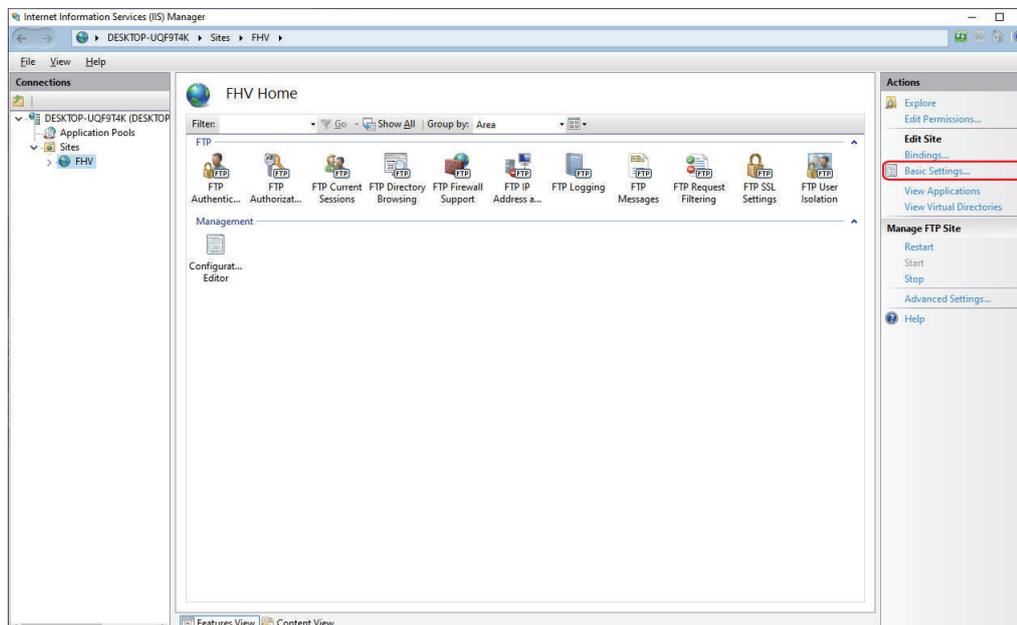
Procedure for changing FTP server settings (Example: (Changing image storage folder used by FTP))

- 1** Double click on IIS .

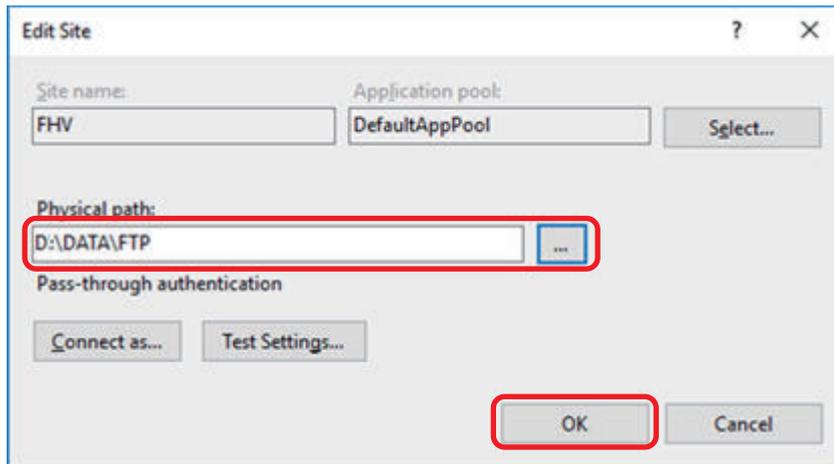
- 2 From the left side of the IIS window (see arrow below) select the FTP server to change settings for.
- 3 Change the FTP server settings from the menu items displayed in the right part of the window.



- 4 Select **Basic settings** from the menu displayed in the right part of the window.



- 5 In the displayed dialog, change **Physical path** to the path of the desired folder and click the **OK** button.



5-5-3 Set up a new FTP server

This will explain how to set up a new FTP server on the NYE IPC by using IIS.

You can use the IIS (Internet Information Services Manager)  on the NYE IPC desktop to set up a new FTP server.



Additional Information

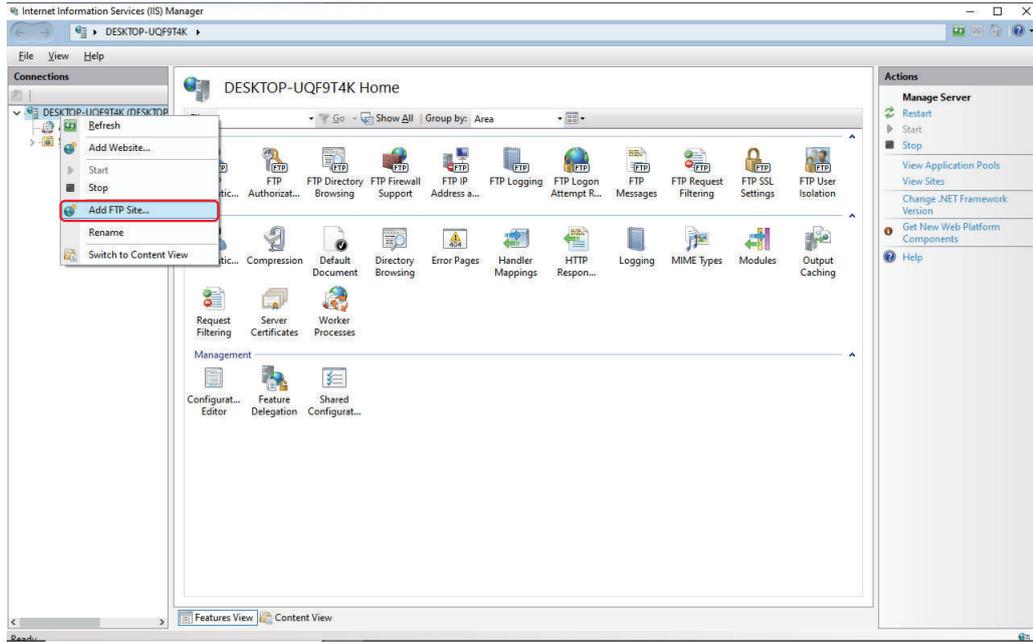
If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

After changing the settings, you need to enable the UWF function.

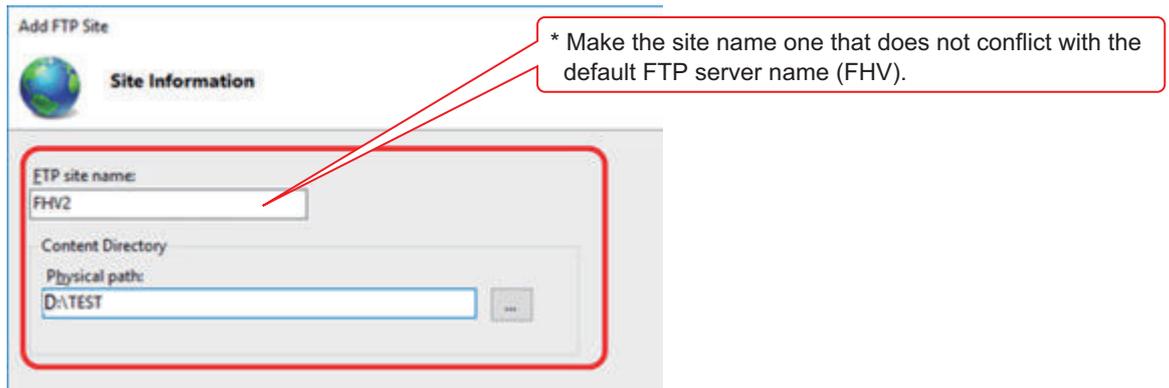
Refer to 5-7 *Use the UWF function* on page 5-20 for details about enabling or disabling UWF function.

Steps for setting up a new FTP server

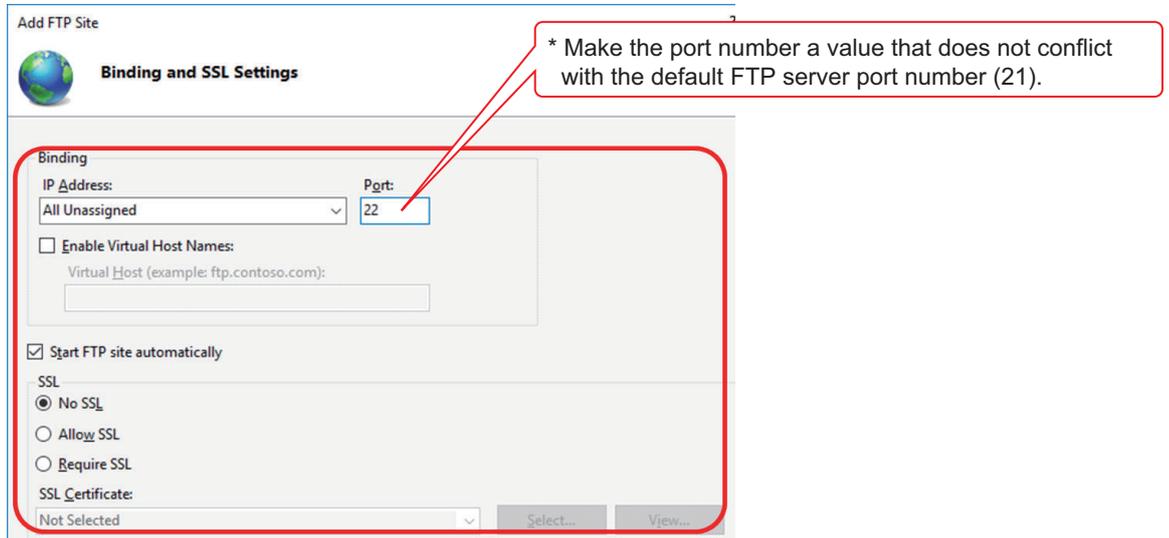
- 1 Create a folder used by the new FTP server.
- 2 Double click on IIS .
- 3 Click on the server icon  on the left side of the opened window and select **Add FTP Site**.



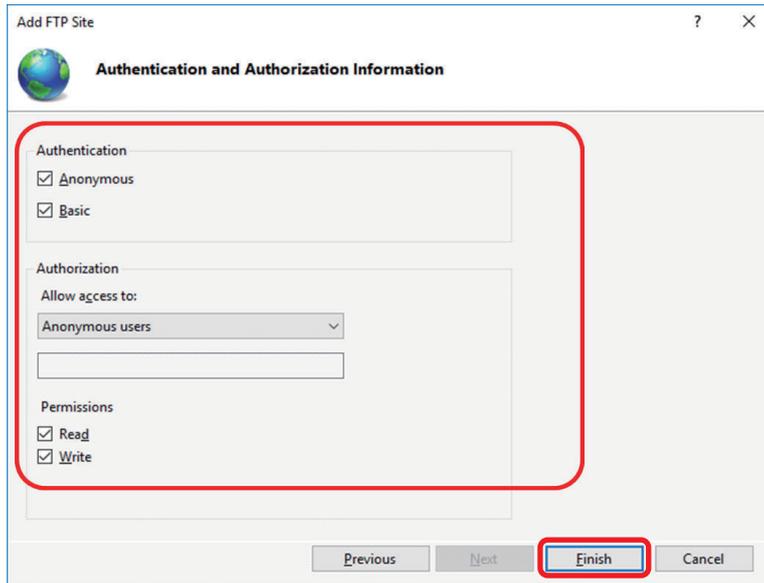
- 4** In the displayed dialog, set the name of the new FTP server and the path to the folder created in STEP 1 and click the **Next** button at the bottom of the window.



- 5** From the next window, perform bind, automatic start of FTP server, SSL settings and click the **Next** button at the bottom of the window.



- 6** From the next window, set the authentication and approval, and click the **Finish** button at the bottom of the window.



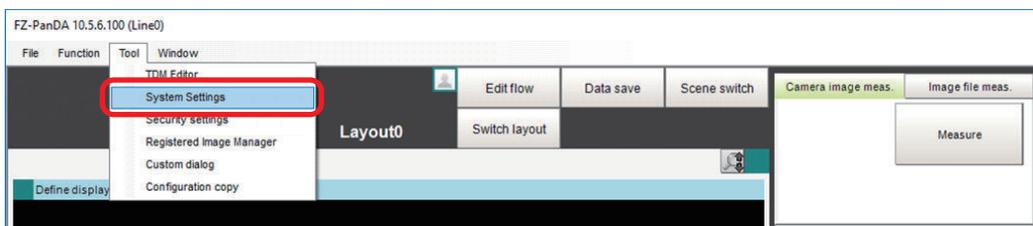
- 7** Follow the procedure described in *5-5 Saving logged images using FTP* on page 5-9 and specify the FTP server set in Step 3.

5-6 Managing data using shared folders

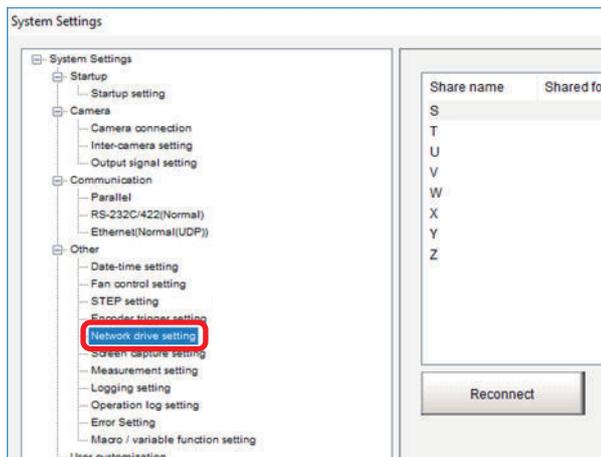
Explains how to manage FHV7 scenes and captured images on a NYE IPC using shared folders. By performing settings and operations on the FHV7, you can save the captured image and scene data of the FHV7 on the NYE IPC, and load scene data from the NYE IPC to the FHV7.

5-6-1 Steps for setting up an FHV7 Share folder

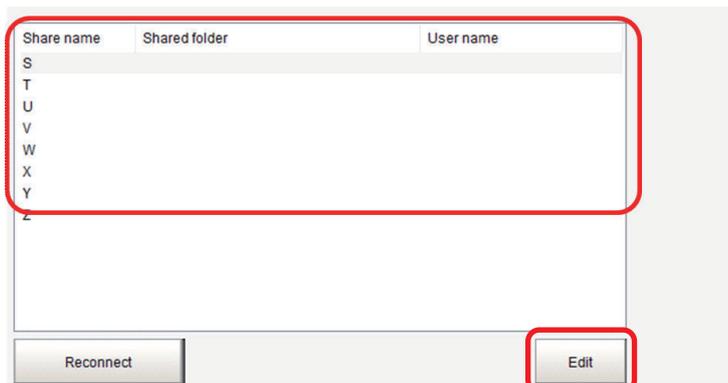
- 1 Open **System Settings** from the **Tool** menu of the Remote Operation Tool connected to the FHV7.



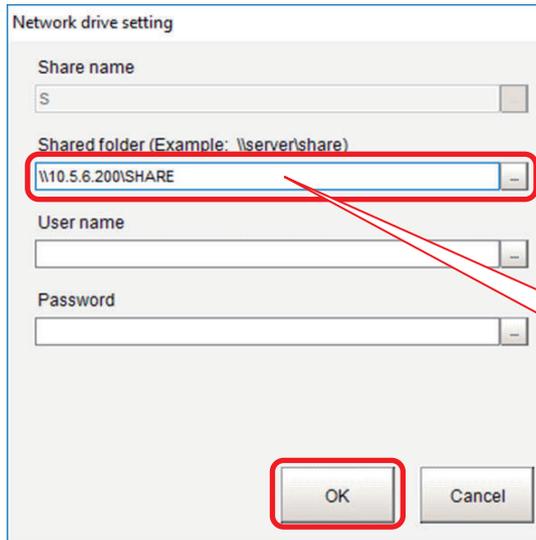
- 2 From the items on the left of the screen, select **Network drive setting**.



- 3 Select any share name displayed on the right side of the screen, and click the **Edit** button at the bottom.

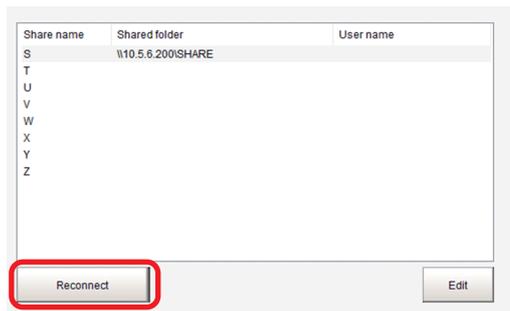


- 4 If it is currently the default setting, set the path of the **shared folder** to “\\10.5.6.200\SHARE” and click the **OK** button on the bottom of the window.

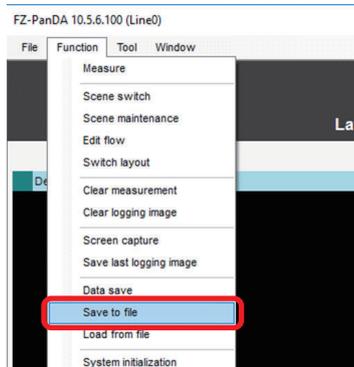


When changing settings, specify the folder for which sharing settings have been made in the following format.
\\NYE IPC address\share folder name

- 5 Click the **Reconnect** button shown by the arrow below, then click the **Apply** button on the lower right of the screen.



- 6 After setting, you can save data to and read it from the DATA\SHARE folder on the NYE IPC desktop by using **Save to file** and **Load from file** functions of function tab.





Additional Information

Below are the default settings of the shared folder on the NYE IPC desktop.

	Folder name	Physical path	Advanced Sharing Settings	Share Settings	Access permission level
Initial setting	SHARE	D:\Data \SHARE	Disable password protection sharing	All users	Read/Write

5-6-2 Set up new share folders

Explains how to set a new shared folder on the NYE IPC.

By setting an arbitrary folder on the NYE IPC as a shared folder, you can create a folder that can share data with FHV7.



Additional Information

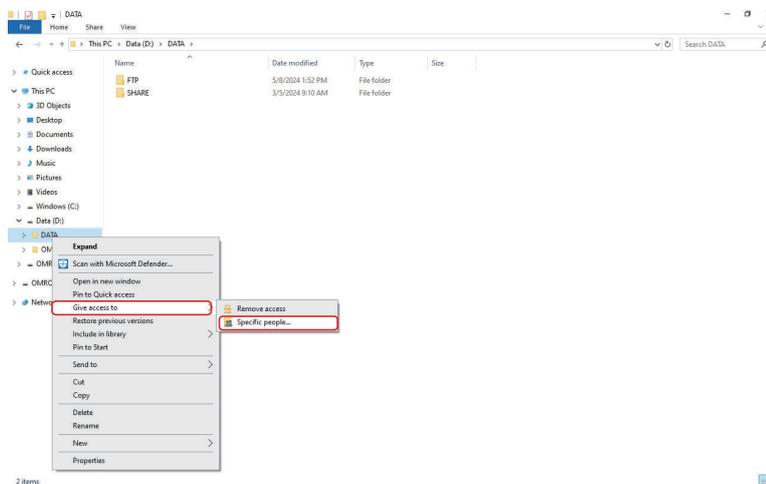
If you have enabled the UWF function, you will need to change the settings after disabling the UWF function.

After changing the settings, you need to enable the UWF function.

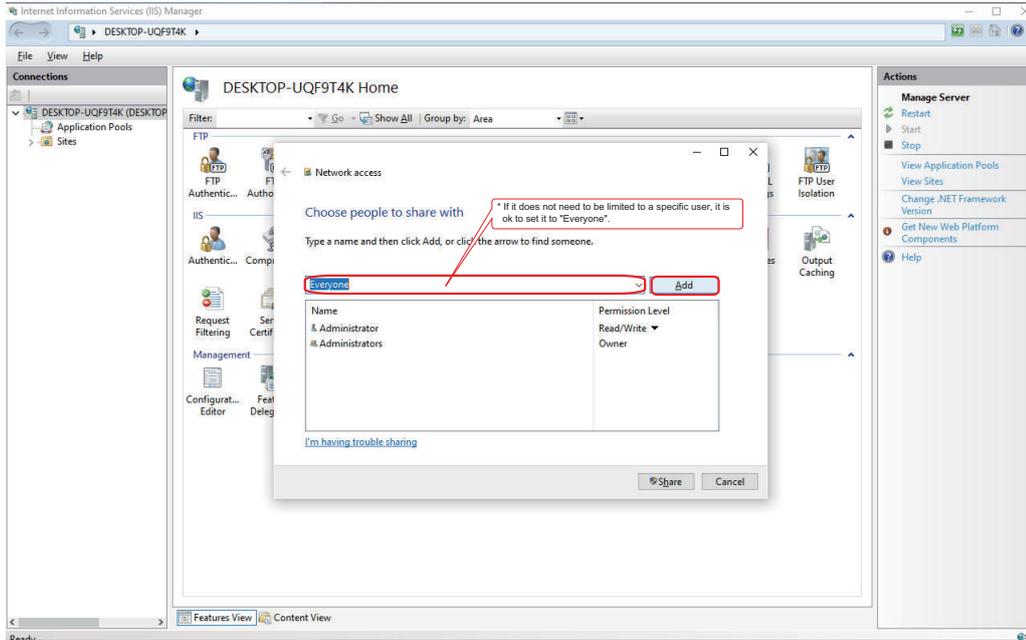
Refer to 5-7 Use the UWF function on page 5-20 for details about enabling or disabling UWF function.

Steps for setting up a new share folder

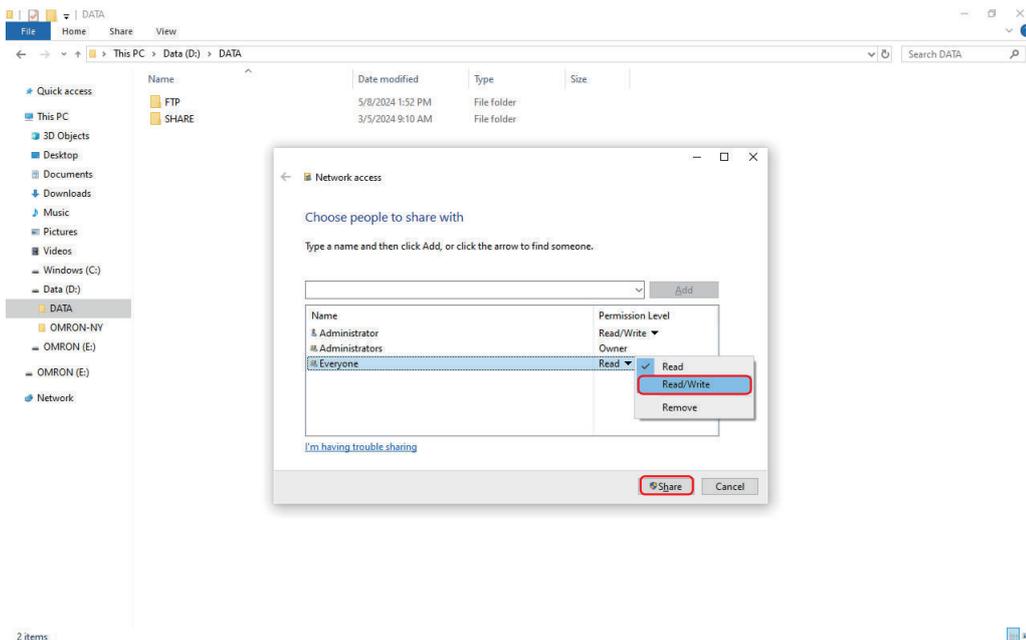
- 1 Create a new folder to be shared.
- 2 Click and hold the folder created in Step 1, and select **Give access to - Specific people...** from the displayed menu.



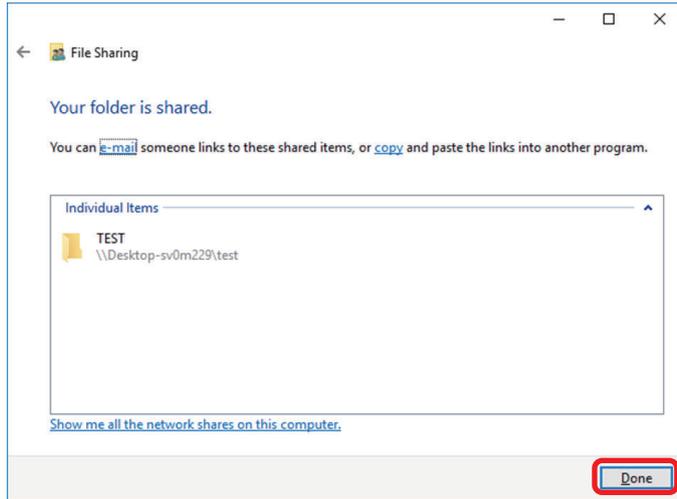
- 3 From the next window displayed, select the user to share with and click the **Add** button.



- 4 Set the **Permission level** of the added user to **Read / Write** and click the **Share** button at the bottom of the window.



- 5 Click the **Done** button at the bottom of the opened window.



- 6 Follow the procedure described in *5-6 Managing data using shared folders* on page 5-15 and specify the FTP server set in Step 4 of that section.

5-7 Use the UWF function

Describes the use of the UWF function on the NYE IPC.

UWF stands for Unified Write Filter and is an optional feature of Windows 10. Writing to the drive (installing apps, changing settings, saving data) is not done directly to the storage medium such as HDD or SSD, but in the overlay area (RAM) on the memory. This protects the drive. When the power is turned off, it is a function to return to the state of the data immediately before turning on this function. Originally, to turn off the power of the NYE IPC, it is necessary to shut down from the start menu. If you turn off the power of the NYE IPC directly, the OS may be damaged and a blue screen may be displayed at the next startup. If you want to turn off the NYE IPC directly, use the UWF function as a countermeasure.



Additional Information

For details about the UWF function, refer to the following website.

<https://learn.microsoft.com/en-us/windows/iot/iot-enterprise/customize/unified-write-filter>



Additional Information

1. After turning on this function, all operations on the NYE IPC (installing apps, changing settings such as IP addresses, creating folders, saving data, etc.) will return to the state before the operation when the power is turned off.
2. If the free space in the overlay area becomes low, the operation of the NYE IPC becomes unstable, and the NYE IPC may be forcibly terminated. As a precaution, reboot the NYE IPC once a year.
3. Only the C drive is write-protected by the UWF function. D drive is not protected.

5-7-1 How to enable the UWF function

The procedure is described below.

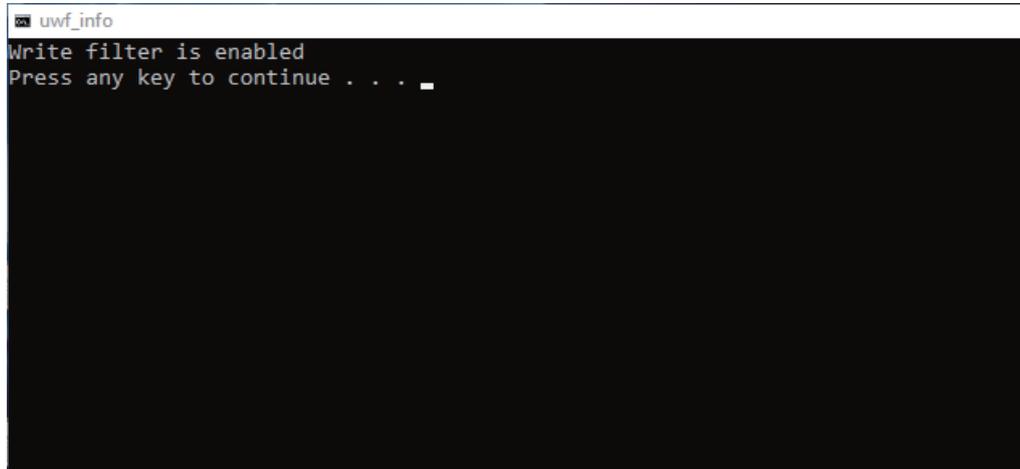
- 1 Double-click **uwf_enable.bat** on your desktop.

```
uwf_enable
File based write filter will be enabled on the next reboot
Press any key to continue . . .
```

- 2 Press any key to close the window.
- 3 Restart the NYE IPC.

Shut down or restart instead of turning off the power directly.

- 4 Check UWF is running.
Double-click **uwf_info.bat** on your desktop.



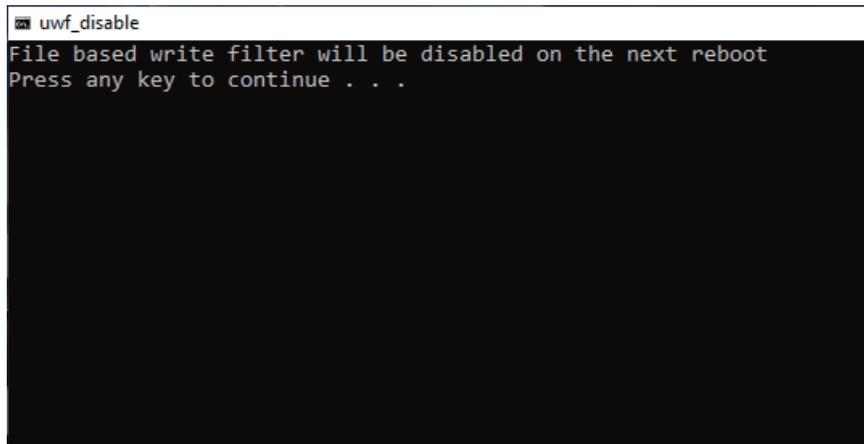
```
uwf_info
Write filter is enabled
Press any key to continue . . . _
```

- 5 Press any key to close the window.
If you want to perform the following after setting the UWF function, cancel UWF by the method described later, and then perform each operation and setting.
 - * I want to install a new version of the remote control tool
 - * I want to change the IP address of the NYE IPC
 - * I want to change the settings of the FTP server and shared folders

5-7-2 How to disable the UWF function

The procedure is described below.

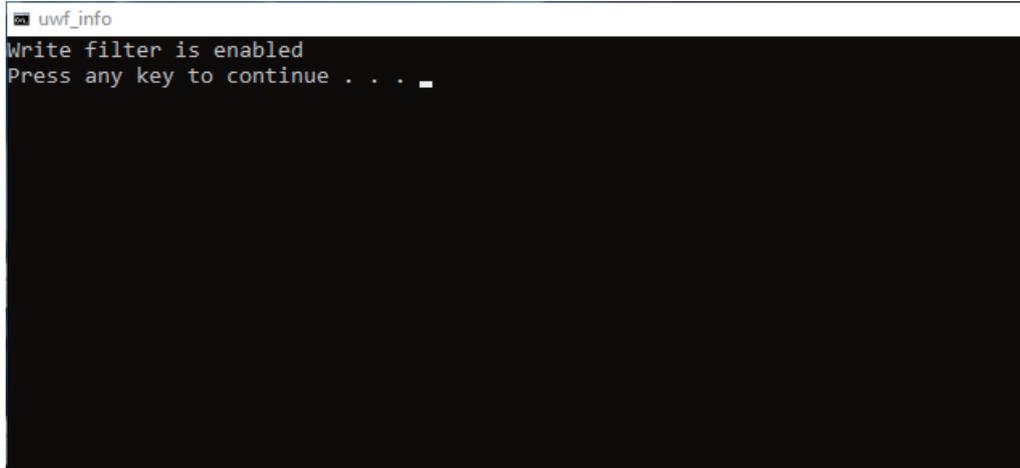
- 1 Disable the filter.
Double-click **uwf_disable.bat** on your desktop.



```
uwf_disable
File based write filter will be disabled on the next reboot
Press any key to continue . . .
```

- 2 Press any key to close the window.
- 3 Restart the NYE IPC.
Shut down or restart instead of turning off the power directly.

- 4 Make sure UWF is not running.
Double-click **uwf_info.bat** on your desktop.



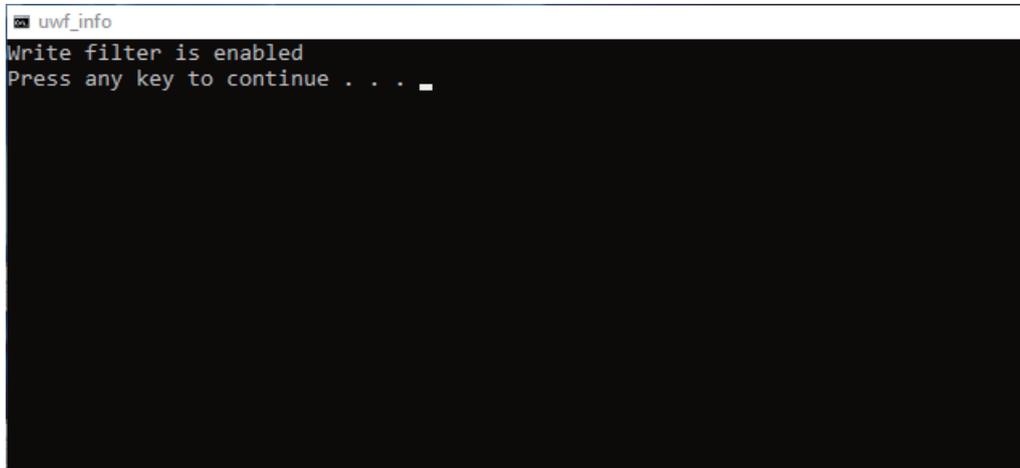
```
uwf_info
Write filter is enabled
Press any key to continue . . . _
```

- 5 Press any key to close the window.

5-7-3 How to check the UWF filter status

The procedure is described below.

- 1 Double-click **uwf_info.bat** on your desktop.
The current UWF status is displayed.



```
uwf_info
Write filter is enabled
Press any key to continue . . . _
```

- 2 Press any key to close the window.



Additional Information

When the UWF function is disabled, **Write Filter Disabled** is displayed on the desktop screen. Enabling the UWF function will switch it to hidden.



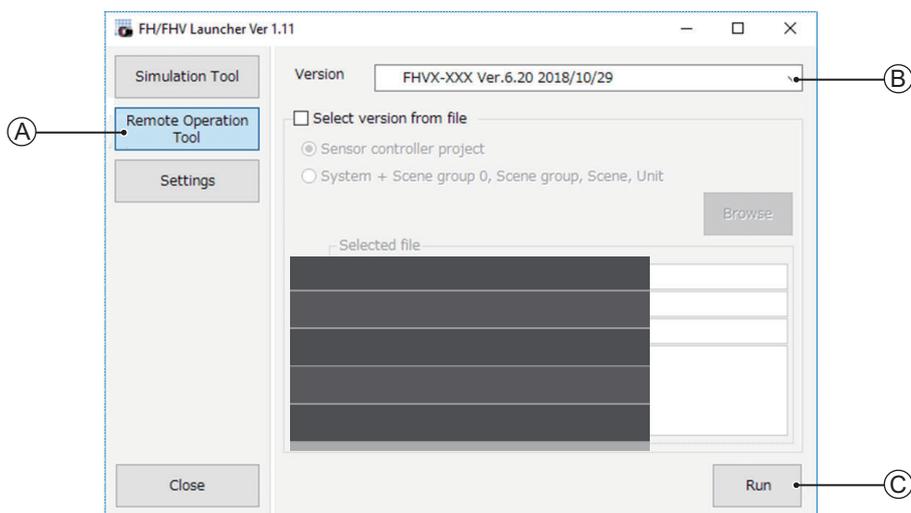
5-8 Connecting to FHV7 after starting NYE IPC

Explains how to manually make a remote connection to an FHV7 that has been disconnected once, or to an FHV7 newly added to existing connections

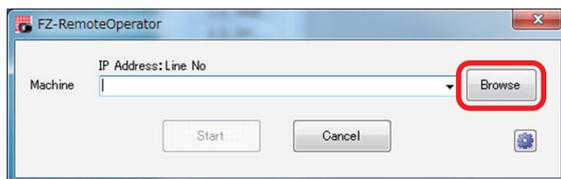
If you want to remotely connect to a disconnected FHV7 or a newly connected FHV7 etc., you can use the tools installed on the NYE IPC to manually perform a remote connection.

5-8-1 Steps for manually connecting to an FHV7

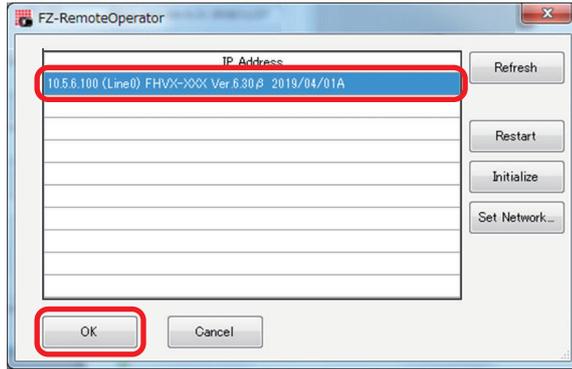
- 1 Double click the FH-SimulatorLauncher icon  on the desktop.
- 2 From the menu **(A)** in the figure below, select **Remote Operation Tool**.
- 3 From the Drop-down list **(B)**, select the version of the Remote Operation Tool to launch from the NYE IPC.
- 4 After selecting **(A)** and **(B)**, click the **Run** button **(C)**.



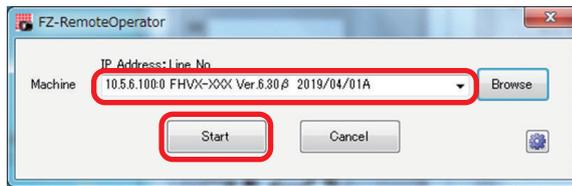
- 5 On the screen menu, click the **Browser** button.



- 6 From the screen menu, select the **IP address** of the target FHV7 and click the **OK** button.



- 7 Confirm that the selected **IP address** is set, and click the **Start** button.



5-9 Cautions/Restrictions

Explanation of cautions and restrictions to be aware of when performing remote control operation between the NYE IPC and FHV7.

While editing one FHV7 with the Remote Operation Tool, editing of other FHV7 units connected by the Remote Operation Tool is restricted. (If you try to edit an FHV7 for which editing is restricted, you will see the message **Cannot return while the menu is operated remotely.**)

5-10 Troubleshooting

Problem	Possible Solution
When there is a connection failure between the NYE IPC and the FHV7	<ul style="list-style-type: none"> • The Ethernet cable may not be connected properly. Make sure that the target FHV7 and NYE IPC are correctly connected with the Ethernet cable. • The power to the FHV7 may not be ON. Verify the power is on for the FHV7 you wish to connect to. • The FHV7 software application startup process may not have completed. After turning on the power of FHV7, wait about 1 minute and try connection again. • The IP address set may be incorrect. Check the NYE IPC and FHV7 IP addresses, and make sure that they are on the same network. • If automatic connection fails when the NYE IPC is started, the setting contents of FHV7Open.bat or bat called from FHV7Open.bat may be incorrect. Make sure that the specified bat address or the set IP address is correct.
Remote operation of FHV7 does not operate normally	<ul style="list-style-type: none"> • It is possible that after the FHV7 was connected, the Ethernet cable was physically disconnected. Verify the Ethernet cable connection. • After the FHV7 was connected, it may have had its power supply turned off. Please verify the power for the FHV7 • If multiple FHV7 are being operated, it is possible that one of them being operated is also being edited remotely. When multiple units are connected, if any one FHV7 is being edited, operation of all the other FHV7 will be restricted. • The version of the Remote Operation Tool installed on the NYE IPC may be different from the Software application version on the FHV7. Verify that the version of the Remote Operation Tool on the NYE IPC matches the software version on the FHV7.
Saving of logged images does not work correctly when using FTP.	<ul style="list-style-type: none"> • The FTP settings on the FHV7 may be incorrect. Check the FTP settings on the FHV7. • The FTP server settings on the NYE IPC may be incorrect. Check the FTP server settings on the NYE IPC side using IIS Manager. • The FHV7 Logging settings may be set to "Do not save". Please change the logging setting of FHV7 to "Save NG" or "Save all". • There may not be enough space on the NYE IPC. Please delete unnecessary log data and images. • FTP may be being blocked by a firewall. Disable the firewall.
Data sharing to shared folder does not work properly	<ul style="list-style-type: none"> • The shared folder settings on the FHV7 may be incorrect. Check the shared folder settings on the FHV7. • The shared folder settings on the NYE IPC may be incorrect. Check the sharing settings for the SHARE folder on the NYE IPC. • There may not be enough space on the NYE IPC. Please delete unnecessary log data and images. • The firewall settings may be blocking sharing. Disable the firewall.

6

Maintenance

This section provides an overview of the software maintenance tasks for the NYE Industrial PC.

The hardware maintenance tasks are available in the hardware manuals.

Information is available in the related manual *NY-series NYE Industrial Panel PC Hardware User's Manual (Cat.No. W634)*.

6-1	Corrective Maintenance	6-2
6-1-1	Warning and Error Messages.....	6-2
6-1-2	Correct Display Functionality when Nothing is Displayed	6-3
6-1-3	Correct Touchscreen Functionality	6-4

6-1 Corrective Maintenance

Corrective maintenance covers all actions to correct problems that cause downtime.

 **WARNING**

Do not attempt to disassemble, repair or modify the product in any way. Doing so may result in malfunction or fire.



Contact your local OMRON representative if the corrective maintenance actions did not solve the problem.

6-1-1 Warning and Error Messages

Warning and Error messages are provided by the NYE Industrial PC when there is a potential problem that may cause downtime. This section provides details about these messages.

Warning messages inform you about a situation that will lead to downtime of the NYE Industrial PC. Error messages inform you about what caused the downtime of the NYE Industrial PC.

The following message channels are available.

LED Indicators

The ERR LED indicator provides information on warnings and errors.

Industrial PC Support Utility

The Industrial PC Support Utility provides information on warnings and errors. The Industrial PC Support Utility indicates the status of the UPS.

Windows Action Center

The Windows Action Center provides information on Windows related warnings and errors.

The Windows Action Center indicates security and maintenance issues.

Some examples:

- Virus protection (Important)
Windows did not find anti-virus software on this computer.
- Windows Update (Important)
windows Update is not set up for this computer.
- Set up backup
Your files are not being backed up.

Windows Pop Up Window

Windows Pop Up windows provide information on Windows issues.

An example of a Windows Pop Up

- Close programs to prevent information loss.



To solve this change the paging file size.

6-1-2 Correct Display Functionality when Nothing is Displayed

When it seems the display is not functional, check the Status LED indicator.

- If the Status LED indicator is OFF
 - Check if the power supply is present.
- If the Status LED indicator is blinking check if the NYE IPC is not in standby mode.
- If the Status LED indicator is ON
 - Check if the power supply voltage is inside specifications.
 - Check if the ambient temperature is inside specifications.

6-1-3 Correct Touchscreen Functionality

The touchscreen functionality can have several unwanted situations. In this section more details and solutions for touchscreen problems.

Correct Touchscreen Functionality with No Touch Response

When the touchscreen functionality is not functional, check:

- Water present on the display surface.
Wipe the display surface with a dry lint free cloth.
- When using gloves, ensure to use gloves that had no problems when the touch functionality was functional.

Calibrate Touchscreen

When the resolution of the touchscreen monitor is changed the touch functionality might not scale accordingly. The result is that touching the touchscreen monitor will display the touch at incorrect locations.

Use the following procedure to calibrate the touchscreen functionality of your NYE Industrial PC.

- 1** Select an Explorer and browse to **C:\Omron\Drivers\FID-1890-029_1013**.
- 2** Activate *Calwin.exe*.
A white screen will appear with a cross as a touch indicator indicating where to touch the screen.
- 3** Touch the indicator on all locations where it appears.
After several touches a pop-up window will appear.
- 4** Select the **Update** Button.
- 5** Check the touchscreen functionality.

The touchscreen functionality is calibrated.



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