

Vision Sensor

FH-UMAI

## FH Application Software

### Version Update Tool Operating Manual

FH-UMAI□

FH-5□□□/FH-5□□□-□□



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# Introduction

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Thank you for purchasing the FH-UMAI.

This manual contains information that is necessary to use the FH-UMAI.

Please read this manual and make sure you understand the functionality and performance of the FH-UMAI before you attempt to use it in a control system.

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 electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of introducing FA systems.
- Personnel in charge of designing FA systems.
- Personnel in charge of installing and maintaining FA systems.
- Personnel in charge of managing FA systems and facilities.

## Applicable Products

This manual covers the following products.

- FH-UMAI□
- FH-5□□□
- FH-5□□□-□□

Part of the specifications and restrictions are given in other manuals. Refer to *Relevant Manuals* on page 2 and *Related Manuals* on page 15.

# Relevant Manuals

The following table provides the relevant manuals for the upgraded FH sensor controller that uses FH-UMAI.

Read all of the manuals that are relevant to your system configuration and application before you use the FH sensor controller.

Purpose of use	Manual						
	Basic information		FH Series Vision System Hardware Setup Manual	FH-UMAI FH Application Software Processing Item Function Reference Manual	FH Series Vision System Macro Customize Functions Programming Manual	FH/FHV Series Vision System User's Manual for Communications Settings	FH/FHV Series Vision System Operation Manual for Sysmac Studio
	FH/FHV Series Vision System User's Manual						
Overview of FH series	●	●					
Setup and Wiring							
EtherCAT							
EtherNet/IP							
PROFINET		●					
Ethernet							
RS-232C							
Parallel interface							
Setup the communication setting of Sensor Controller						●	
EtherCAT							
EtherNet/IP	●	●			●		
PROFINET							
Ethernet							
RS-232C							
Parallel interface							
Setup the Sensor Controller						●	
EtherCAT							
EtherNet/IP							
PROFINET	●				●		
Ethernet							
RS-232C							
Parallel interface							

Purpose of use	Manual					
	Basic information		FH-UMAI FH Application Software Processing Item Function Reference Manual	FH Series Vision System Macro Customize Functions Programming Manual	FH/FHV Series Vision System User's Manual for Communications Settings	FH/FHV Series Vision System Operation Manual for Sysmac Studio
	FH/FHV Series Vision System User's Manual	FH Series Vision System Hardware Setup Manual				
Create and Set the Scene						●
EtherCAT						
EtherNet/IP						
PROFINET	●		●			
Ethernet						
RS-232C						
Parallel interface						
Optimizing the Scene Flow						
EtherCAT						
EtherNet/IP						
PROFINET			●	●		
Ethernet						
RS-232C						
Parallel interface						
Connecting the Controller						●
EtherCAT						
EtherNet/IP						
PROFINET	●	●			●	
Ethernet						
RS-232C						
Parallel interface						
Using Helpful Functions						●
EtherCAT						
EtherNet/IP						
PROFINET	●					
Ethernet						
RS-232C						
Parallel interface						
Troubleshooting and Problem Solving	●					

# Manual Structure

## Page Structure

The following page structure is used in this manual.

The diagram illustrates the structure of a manual page. It shows a page with a grey header bar containing the text "4 Installation and Wiring". Below this is a section header "4-3 Mounting Units". Underneath is a sub-section header "4-3-1 Connecting Controller Components". The main body of the page contains a numbered list of steps. Step 1 is "Join the Units so that the connectors fit exactly." and includes a diagram of units with labels for "Hook", "Connector", and "Hook holes". Step 2 is "The yellow sliders at the top and bottom of each Unit lock the Units together. Move the sliders toward the back of the Units as shown below until they click into place." and includes a diagram of a slider with labels for "Release", "Lock", and "Slider". Below the steps is a "Precautions for Correct Use" section with a warning icon and text: "The sliders on the tops and bottoms of the Power Supply Unit, CPU Unit, I/O Units, Special I/O Units, and CPU Bus Units must be completely locked (until they click into place) after connecting the adjacent Unit connectors." At the bottom of the page, there is a footer with "NJ-series CPU Unit Hardware User's Manual (W500)" on the left and "4-9" on the right. Annotations on the left side of the diagram point to various elements: "Level 1 heading" points to the grey header bar; "Level 2 heading" points to the "4-3 Mounting Units" section header; "Level 3 heading" points to the "4-3-1 Connecting Controller Components" sub-section header; "A step in a procedure" points to the number "1" in the first step; "Special information" points to the warning icon in the "Precautions for Correct Use" section; and "Manual name" points to the footer text. Annotations on the right side point to the "Page tab" (the number "4" in a grey box) and the "Level 3 heading" (the sub-section header).

Level 1 heading

Level 2 heading

Level 3 heading

Gives the current headings.

Page tab

Gives the number of the main section.

Level 3 heading

A step in a procedure

Indicates a procedure.

Special information

Icons indicate precautions, additional information, or reference information.

Manual name

**Note** This illustration is provided only as a sample. It may not literally appear in this manual.

## Special Information

Special information in this manual is classified as follows:



### Precautions for Safe Use

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



### Precautions for Correct Use

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



### Additional Information

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Additional information to read as required.

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

## Conventions Used in This Manual

Use of Quotation Marks and Brackets

In this manual, menus and other items are indicated as follows.

<b>Bold</b>	Menu	Indicates the menu bar, button, and icon.
<i>Italic</i>	Item name	Indicates the item and area names displayed on the screen.





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## Section 1    FH-UMAI Version Update Tool Operating Manual

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# Safety Precautions

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For details on Safety Precautions, refer to *Safety Precautions* in the *Vision System FH/FHV Series User's Manual (Cat. No. Z365)* and the *FH-UMAI Instruction Sheet (5628265-8)*.

# Precautions for Safe Use

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For details on Precautions for Safe Use, refer to *Precautions for Safe Use* in the *Vision System FH/FHV Series User's Manual (Cat. No. Z365)* and the *FH-UMAI Instruction Sheet (5628265-8)*.

# Precautions for Correct Use

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For details on Precautions for Correct Use, refer to *Precautions for Correct Use* in the *Vision System FH/FHV Series User's Manual (Cat. No. Z365)* and the *FH-UMAI Instruction Sheet (5628265-8)*.

# Regulations and Standards

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For details on Regulations and Standards, refer to *Regulations and Standards* in the *Vision System FH/FHV Series User's Manual (Cat. No. Z365)*.



# Related Manuals

The followings are the manuals related to this manual. Use these manuals for reference.

Name of Manual	Cat. No.	Model	Purpose	Contents
FH-UMAI Instruction Sheet	5628265-8	FH-UMAI□	To confirm the safety and usage precautions of the FH Application Software FH-UMAI. When User want to know about the hardware specifications or to setup the FH Application Software FH-UMAI..	Describes the definitions of basic terms, product specifications, how to use, meaning of signal words, and precautions for correct use of FH series in the manual.
Vision System FH Instruction Sheet	3102269-4	FH-2□□□ FH-2□□□-□□ FH-5□□□ FH-5□□□-□□		
Vision System FH/FHV Series User's Manual	Z365	FH-1□□□ FH-1□□□-□□ FH-2□□□	When User want to know about the FH/FHV series.	Describes the soft functions, setup, and operations to use FH/FHV series/
Vision System FH/FHV Series User's manual for Communications Settings	Z342	FH-2□□□-□□ FH-3□□□ FH-3□□□-□□ FH-5□□□ FH-5□□□-□□ FH-L□□□ FH-L□□□-□□	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.
FH Application Software FH-UMAI Processing Item Function Reference Manual	Z437	FH-UMAI□ FH-5□□□ FH-5□□□-□□	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 series Hardware Setup Manual	Z366	FH-1□□□ FH-1□□□-□□ FH-2□□□ FH-2□□□-□□ FH-3□□□ FH-3□□□-□□ FH-5□□□	When User want to know about the Hardware specifications or to setup the Sensor Controller of the Vision System FH series.	Describes FH series specifications, dimensions, part names, I/O information, installation information, and wiring information.
Vision System FH series Macro Customize Functions Programming Manual	Z367	FH-5□□□-□□ FH-L□□□ FH-L□□□-□□	When User operate or programming using Macro Customize functions.	Describes the functions, settings, and operations for using Macro Customize function of the FH series.
Vision System FH/FHV Series Operation Manual for Sysmac Studio	Z343	FH-1□□□ FH-1□□□-□□ FH-2□□□ FH-2□□□-□□ FH-3□□□ FH-3□□□-□□ FH-5□□□ FH-5□□□-□□	When User connect to NJ/NX series via EtherCAT communication.	Describes the operating procedures for setting up and operating FH/FHV series Vision Sensors from the Sysmac Studio FH/FHV Tools.

# Revision History

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

<b>Cat. No.</b>	<b>Z438-E1-01</b>
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↑  
Revision code

Rev. Code	Rev. Date	Revision Contents
01	Jul. 2020	Original production

# 1

# FH-UMAI Version Update Tool Operating Manual

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# 1-1 Introduction

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This manual describes the procedures for upgrading the software of the FH sensor controller with the FH-UMAI.

Please perform the software version upgrade only after confirming the operating procedures and cautions. After upgrading, if you want to return to the previous version, use the Version upgrade tool (Ver.6.11 or higher) and install the applicable FH sensor controller software.



## **Precautions for Correct Use**

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- FH-UMAI can be used for version upgrade of one FH Sensor Controller.
  - Keep the FH-UMAI device in a safe place as it will be needed when using again or repairing a controller.
  - Do not make any modifications to the files or file structure of the FH-UMAI. It may cause the device to no longer function correctly.
-

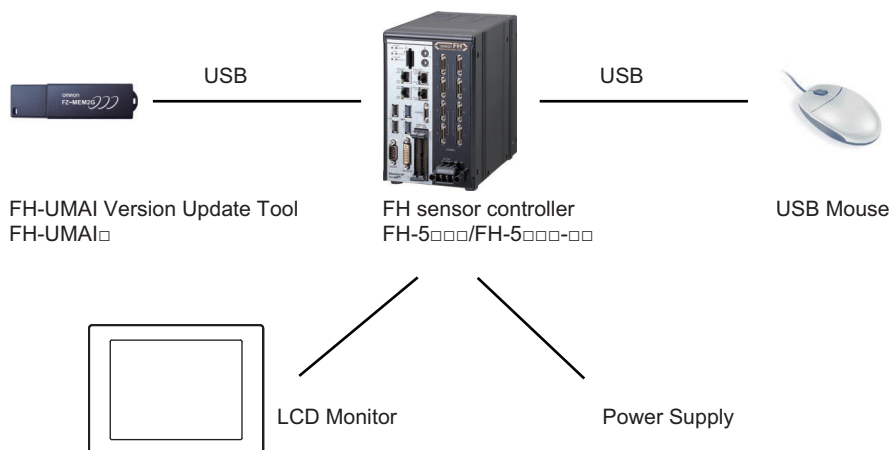
# 1-2 Applicable Devices and Device Configuration

## 1-2-1 Applicable Devices

The devices for which there is FH-UMAI support are as follows.

Manufacturer	Name	Model	Version
OMRON	FH sensor controller	FH-5□□□, FH-5□□□□ □	Ver. 6.11 or higher

## 1-2-2 Device Configuration



Manufacturer	Name	Model	Version
OMRON	FH-UMAI Version Update Tool	FH-UMAI□	-
OMRON	FH sensor controller	FH-5□□□, FH-5□□□□ □	Ver. 6.11 or higher
-	USB Mouse	-	-
-	LCD Monitor	-	-
-	Power Supply	-	-

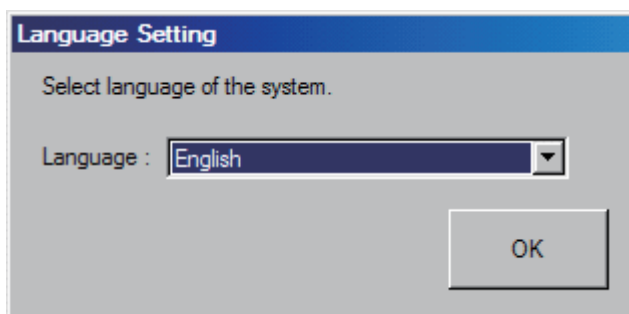
## 1-3 Operating procedure



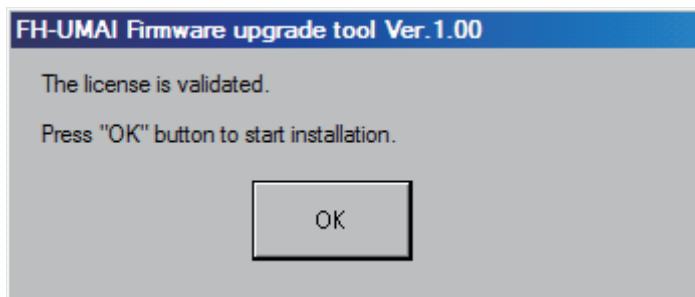
### Precautions for Correct Use

Do not remove the FH-UMAI from the FH sensor controller during the version upgrade. It may cause the version upgrade to fail.  
Do not turn off the power to the FH Sensor Controller during the version upgrade. It may cause the version upgrade to fail.

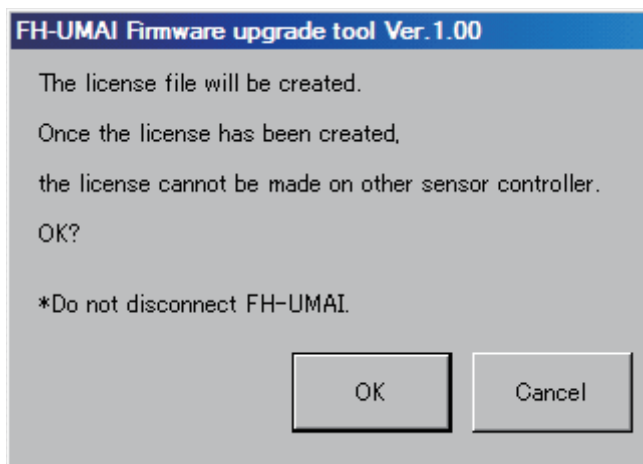
- 1 Make sure the FH-UMAI is inserted in the FH Sensor Controller when it is started up. The **Language Setting** dialog will be displayed the first time the FH-UMAI is used. In the **Language Setting** dialog, select the language and click **OK**.



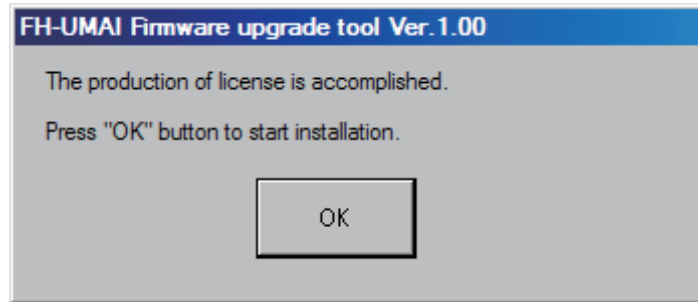
- 2 The following dialogs will be displayed. Click **OK**.
  - If the license file has already been generated:



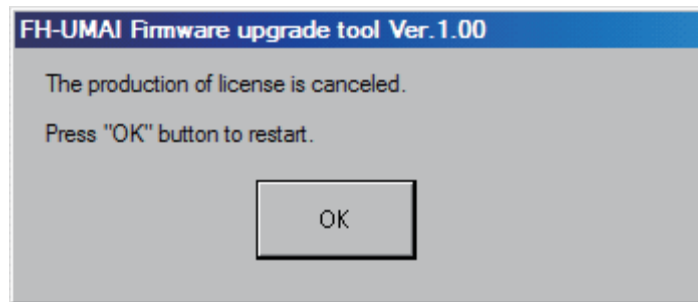
- If the license file has not already been generated:



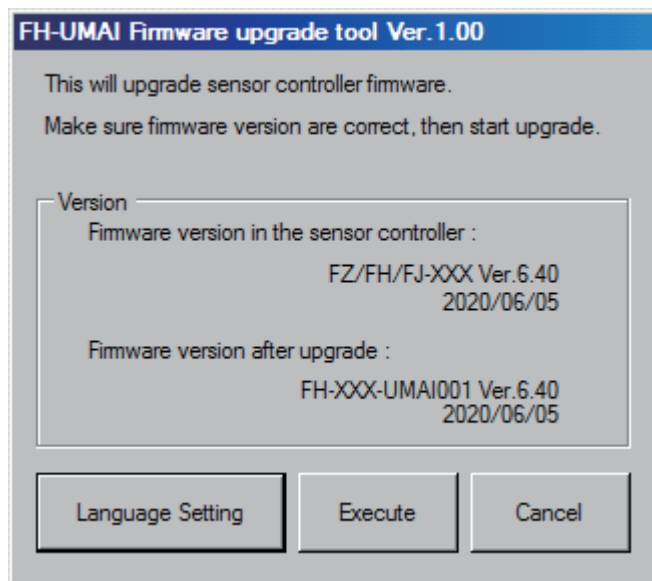
If you click **OK**, the dialog will not be displayed again. The following dialogs will be displayed. Click **OK**.



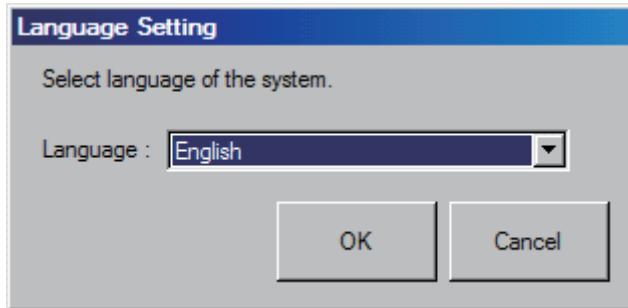
If you click **Cancel**, the license file creation will be canceled and the FH Sensor Controller will be restarted.



**3** The following dialog will be displayed. Click **Execute**.



- Clicking **Execute** starts the Version upgrade.
- If you click **Cancel**, the Version upgrade is cancelled and the FH Sensor Controller will be restarted.
- If you click **Language Setting**, the **Language Setting** dialog will open. Select your desired language and click **OK**. The dialog will change to the selected language. If you click **Cancel** it will revert to the previous language.



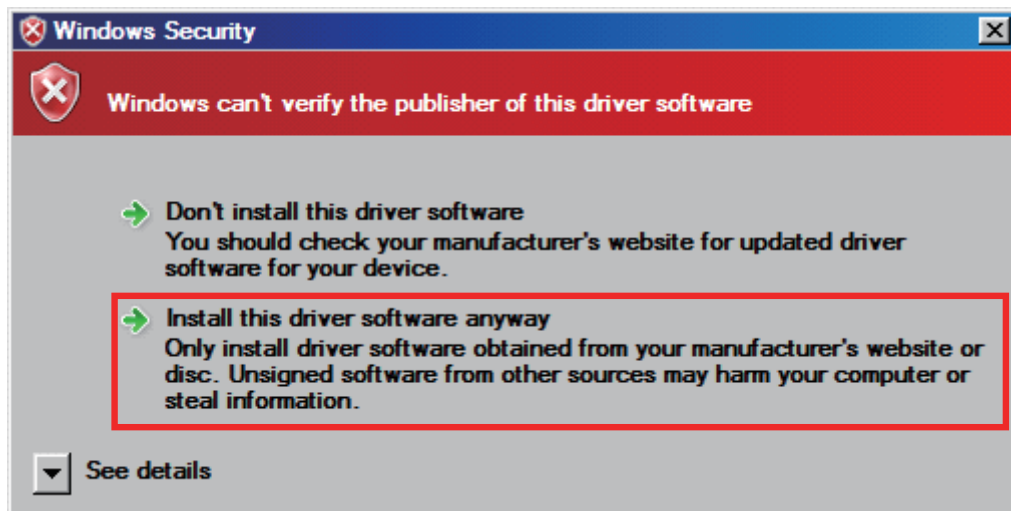
- 4 When upgrading, the FH sensor controller may restart more than once.



#### Precautions for Correct Use

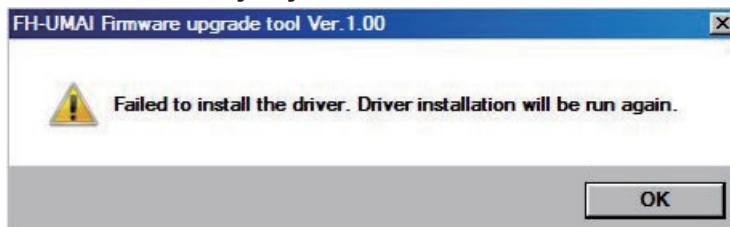
Do not remove the FH-UMAI until the version upgrade is completely finished.

- 5 If the following dialog appears, select **Install this driver software anyway**. If the dialog below does not appear, proceed to the next step.



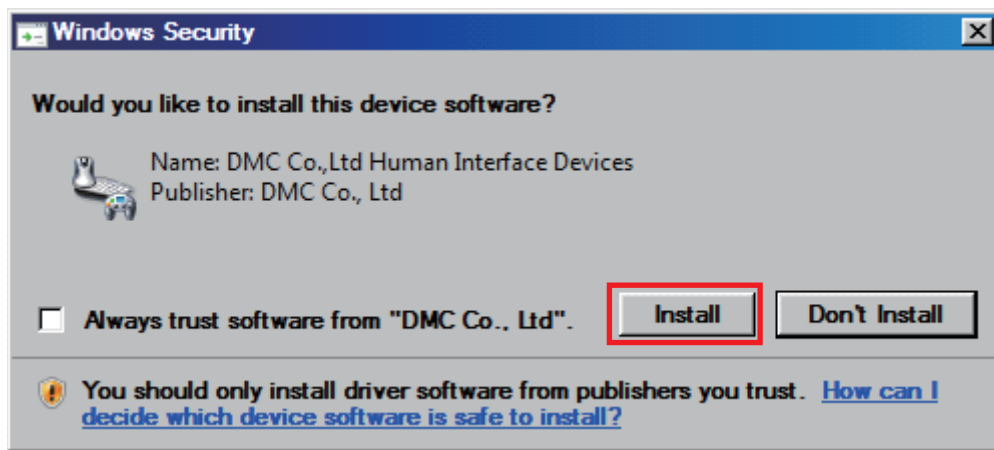
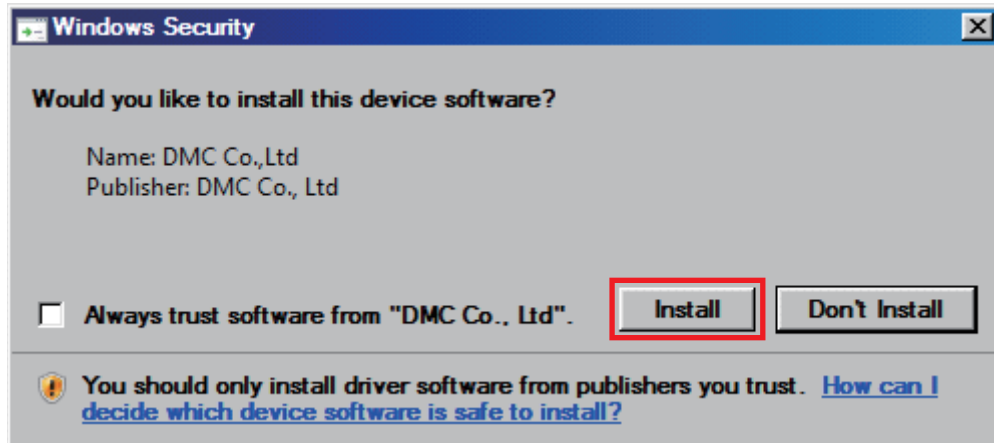
#### Precautions for Correct Use

If you select **Don't install this driver software**, the process will proceed without updating the driver. If you mistakenly select this, the following dialog will appear. Click **OK** to display the same dialog screen will appear again during the process. In which case select **Install this driver software anyway**.



- 6 Depending on the configuration of the FH sensor controller, Touch panel drivers may also be installed. If the following dialog appears, select **Install**. If the dialog below does not appear, proceed to the next step.





### Precautions for Correct Use

If you select **Don't install**, the process will proceed without updating the driver. If you mistakenly select this, the following dialog will appear several times. Click **OK**. After that, please proceed to step 9 and execute the version upgrade procedure again.



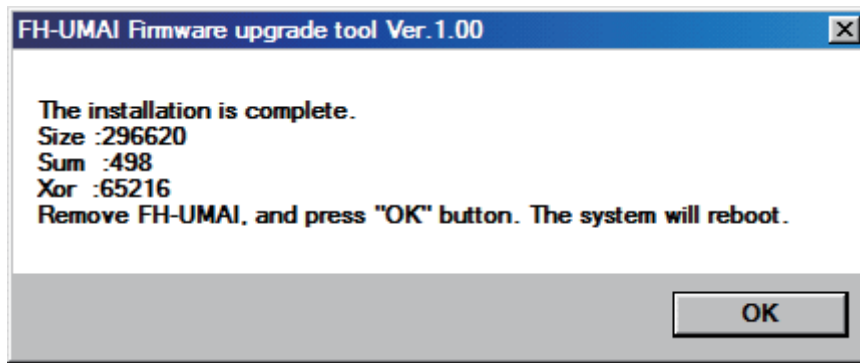
- 7** When upgrading, the FH sensor controller may restart more than once.



### Precautions for Correct Use

Do not remove the FH-UMAI until the version upgrade is completely finished.

- 8** The following dialog will appear. Remove the FH-UMAI from the FH sensor controller and click **OK**.

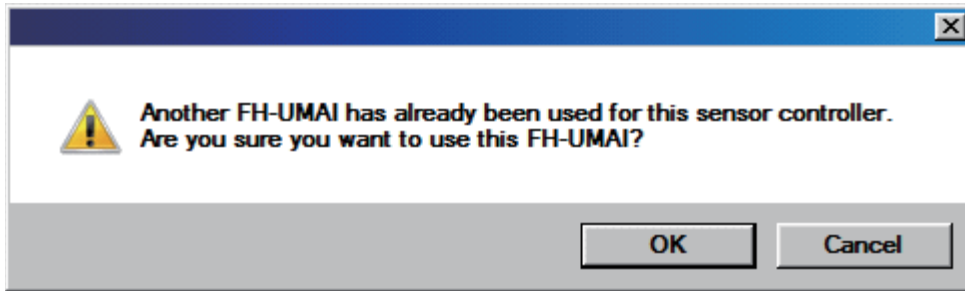


- 9 The FH controller will restart.  
This will complete the Version upgrade.

## 1-4 Troubleshooting

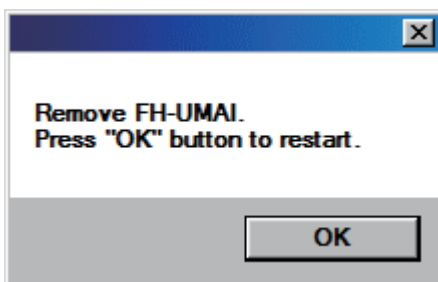
When this occurs	Possible cause	Corrective action
The Version upgrade tool does not start.	<ul style="list-style-type: none"> <li>The files in the FH-UMAI may be corrupted.</li> <li>At startup, there may be a delay in recognizing FH-UMAI, and the Version upgrade tool may have failed to load.</li> </ul>	<p>Perform the Version upgrade procedure again.</p> <p>If it does not start after the above actions, please contact us.</p>
The FH controller does not restart.	<ul style="list-style-type: none"> <li>A power failure may have occurred during installation, and the hardware of the FH Sensor Controller may be damaged.</li> </ul>	<p>Turn off the power of the FH sensor controller and restart it.</p> <p>If the above does not work, the file or hardware may be damaged. Please contact Omron.</p>
	<ul style="list-style-type: none"> <li>The files in the FH Sensor Controller may be corrupted.</li> <li>The version upgrade may have failed due to the insertion / extraction of FH-UMAI.</li> </ul>	<p>Perform the Version upgrade procedure again.</p> <p>If the above does not work, the file or hardware may be damaged. Please contact Omron.</p>
The camera or I/O do not work properly after the version upgrade.	<ul style="list-style-type: none"> <li>Some files may not have been updated due to FH-UMAI insertion / removal while the FH sensor controller was restarting.</li> </ul>	<p>Perform the Version upgrade procedure again.</p> <p>If the above does not work, the file or hardware may be damaged. Please contact Omron.</p>
After version upgrade, the FH sensor controller does not start normally.	<ul style="list-style-type: none"> <li>You may have selected "Do not install" in the driver installation confirmation dialog during the version upgrade. Some files may not have gotten updated.</li> <li>It is possible that the power was turned off without pressing the OK button when the version upgrade complete message was displayed. Some files may not have gotten updated.</li> <li>There was a delay in recognizing the FH-UMAI while restarting the FH sensor controller, and some files may not have gotten updated.</li> </ul>	<p>Perform the Version upgrade procedure again.</p> <p>If the above does not work, the file or hardware may be damaged. Please contact Omron.</p>

- If an FH-UMAI of the same format was previously used for the same FH sensor controller in the past, the following dialog is displayed.



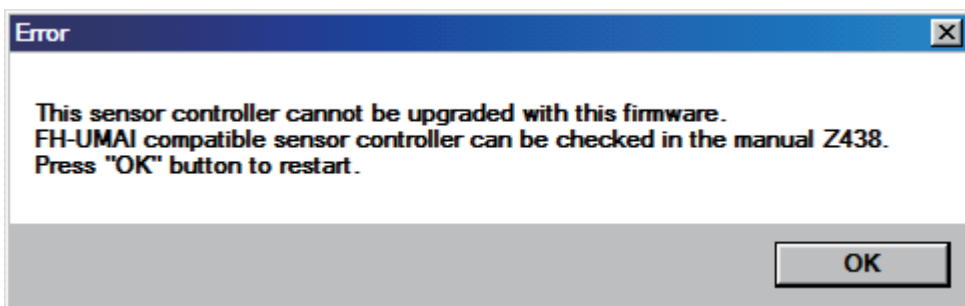
To execute, click **OK**.

To cancel, click **Cancel**. If you click **Cancel**, the following dialog is displayed. Remove the FH-UMAI and then click **OK**. The FH controller will restart.

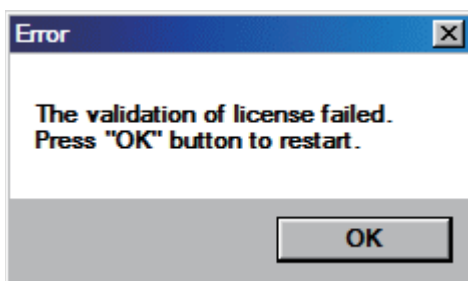


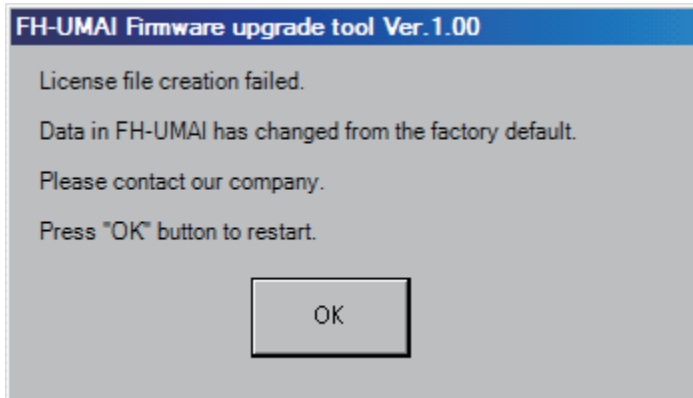
- If the FH-UMAI is executed on a non-supported FH sensor controller model, the following dialog will be displayed.

Check that the device is a supported model and perform the version upgrade procedure again. Refer to *1-2-1 Applicable Devices* on page 1-3.

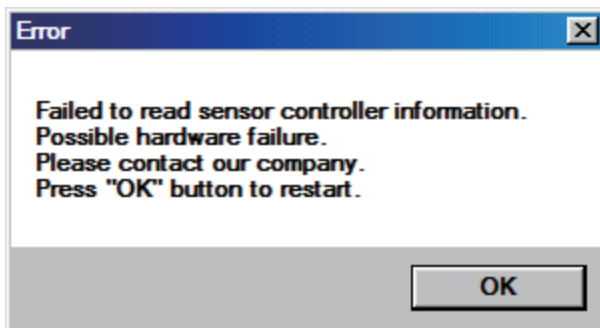
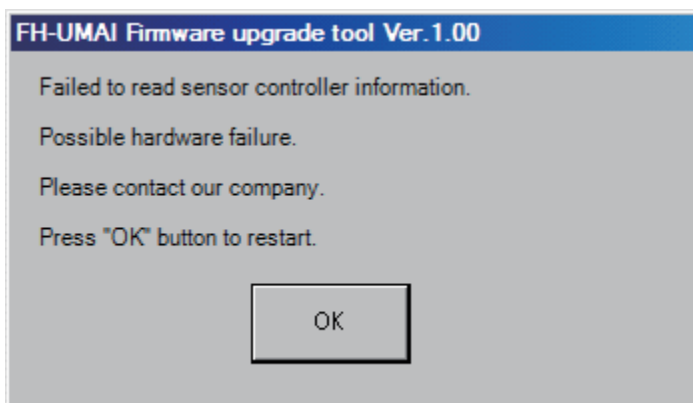


- If the file structure of FH-UMAI is changed, the following dialog may be displayed. If the following dialog appears, please contact Omron.

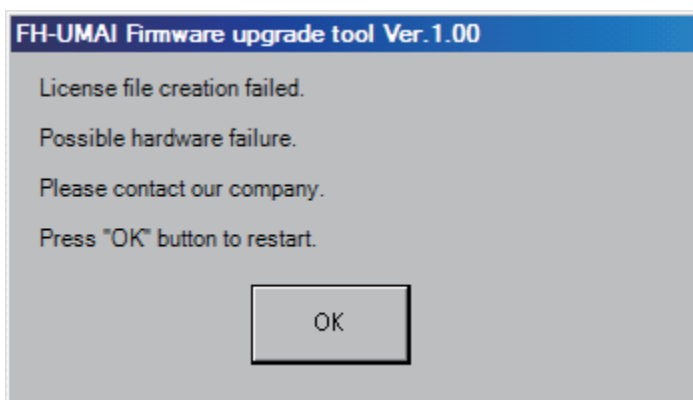




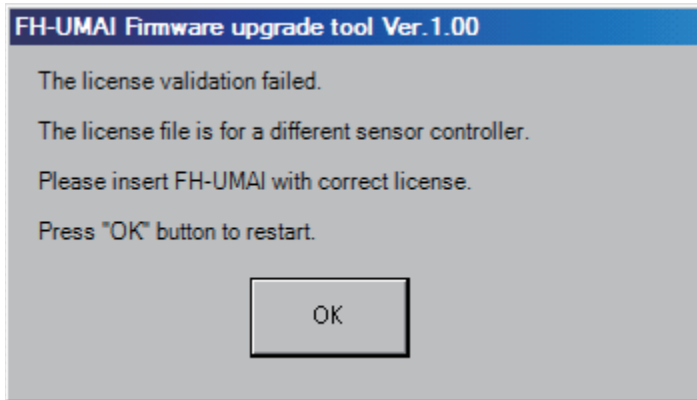
- If an error occurs in the controller, the following dialog will be displayed. If the following dialog appears, please contact Omron.



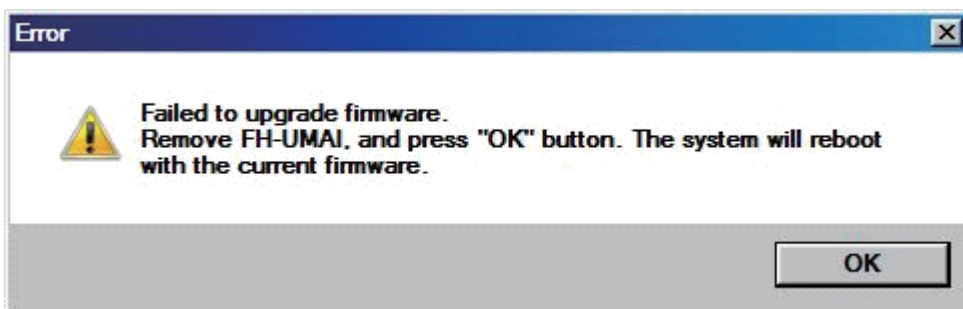
- If an error occurs in FH-UMAI, the following dialog will be displayed. If the following dialog appears, please contact Omron.



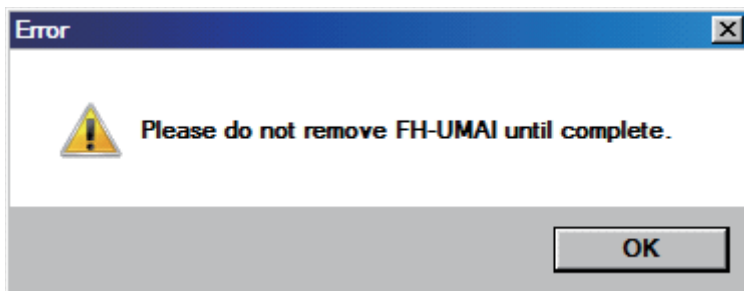
- If you use a licensed FH-UMAI with an FH sensor controller that is different from the one used when the license was created, the following dialog will be displayed. Use FH-UMAI with the correct license file.



- If the version upgrade fails, the following dialog will be displayed. Perform the Version upgrade procedure again.



- If you remove the FH-UMAI while updating the driver, the following dialog will be displayed. Connect FH-UMAI again and press the **OK** button. The Version upgrade will continue.





**OMRON Corporation** Industrial Automation Company  
Kyoto, JAPAN

Contact: [www.ia.omron.com](http://www.ia.omron.com)

**Regional Headquarters**

**OMRON EUROPE B.V.**

Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands  
Tel: (31)2356-81-300/Fax: (31)2356-81-388

**OMRON ELECTRONICS LLC**

2895 Greenspoint Parkway, Suite 200  
Hoffman Estates, IL 60169 U.S.A.  
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

**OMRON ASIA PACIFIC PTE. LTD.**

No. 438A Alexandra Road # 05-05/08 (Lobby 2),  
Alexandra Technopark,  
Singapore 119967  
Tel: (65) 6835-3011/Fax: (65) 6835-2711

**OMRON (CHINA) CO., LTD.**

Room 2211, Bank of China Tower,  
200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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