

Vision Sensor FH/FZ5 Series

FZ/FH/FJ Launcher

Instruction Manual



Table of Contents

1. Introduction.....	1
1.1. Introduction.....	1
1.2. Copyrights/Trademarks.....	1
1.3. Symbols Used in This Instruction Manual.....	2
1.4. Relevant Manuals.....	3
1.5. Revision History	5
2. FZ/FH/FJ Launcher	6
2.1. Overview	6
2.2. Intended Audience and Required Skill.....	6
2.3. Terminology	6
2.4. Recommended Operating Environment	6
2.5. Restrictions.....	7
3. Installation.....	7
3.1. Installing Procedures.....	7
4. Windows	8
4.1. Simulation Software Window, Remote Operation Tool Window.....	8
4.2. Setting Window	9
5. Use Procedures	10
5.1. Run FZ/FH/FJ Launcher	10
5.2. Run Simulation Software.....	11
5.3. Run Remote Operation Tool.....	12
5.4. Change Display Language.....	13
5.5. Troubleshooting.....	14

1. Introduction

1.1. Introduction

Thank you for purchasing an FH/FZ5 series Vision Sensor.

This instruction manual contains necessary information such as function, performance, and operating methods.

Please observe the following when using FZ/FH/FJ Launcher.

- Read this instruction manual thoroughly and use the tools correctly after understanding it sufficiently.
- Keep this instruction manual in a safe place so that it can be referred to whenever required.

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1.3. Symbols Used in This Instruction Manual

The symbols used in this manual have the following meanings.



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.
Notes and restrictions.



Additional Information

Additional information to read as required. This information provides contents to increase understanding or make operation easier.



Reference

This information provides places where detail and related information can be found.

1.4. Relevant Manuals

The following table gives relevant manuals for FH/FZ5 series Vision Sensor. Please check them too.

Name of Manual	Man. No.	Model	Propose	Contents
Vision System FH/FZ5 Series User's Manual	Z365	FH-1□□□ FH-1□□□-□□ FH-3□□□ FH-3□□□-□□ FH-L□□□	When User want to know how to setup the Sensor Controller of the Vision System FH/FZ5 series.	Describes the soft funtions, setup, and operations to use Sensor Controller of the Vision System FH/FZ5 series.
Vision System FH/FZ5 Series Hardware Setup Manual	Z366	FH-L□□□-□□ FZ5-6□□ FZ5-6□□-□□ FZ5-8□□ FZ5-8□□-□□ FZ5-11□□	When User want to know about the Hard-ware specifictions or to setup the Sensor Controller of the Vision System FH/FZ5 series.	Describes FH/FZ5 series specifications, dimensions, part names, I/O infomation, installation information, and wiring information.
Vision System FH/FZ5 Series Macro Customize Functions Programming Manual	Z367	FZ5-11□□-□□ FZ5-12□□ FZ5-12□□-□□ FZ5-L35□ FZ5-L35□-□□	When User operates or programming using Macro Customize functions.	Describes the functions, settings, and operations for using Macro Customize function of the FH/FH5-series.
Vision System FH/FZ5 Series Processing Item Function Reference Manual	Z341		When User confirm the details of each prcessing items at the creating the measument flow or operating it.	Describes the software functions, settings, and operations for using FH/FH5-series.
Vision System FH/FZ5 Series User' s Manual for Communications Settings	Z342		When User confirm the setting of communiction functions.	Describes the functions, settings, and communications methods for communicating between FH/FH5 series. The following communication protocol is described. Parallel, PLC Link, Ethernet/IP, EtherCAT, and Non-procedure.

Vision System FH Series Operation manual for Sysmac Studio	Z343	FH-1□□□ FH-1□□□-□□ FH-3□□□ FH-3□□□-□□	When User connect to NJ series via EtherCAT communication.	Describes the operating procedures for setting up and operating FH series Vision Sensors from the Sysmac Studio FH Tools.
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1.5. Revision History

Revision Symbol	Rev. Date	Rev. Reason and Page
A	Apr. 2017	Creation
B	Mar. 2018	Corrected installation procedures Added troubleshooting

2. FZ/FH/FJ Launcher

2.1. Overview

FZ/FH/FJ Launcher provides the following functions.

- Version selecting function of simulation software (FZ_FH_FJ Simulation Tool)
Specifies and runs simulation software with the version to be used.
Specifying a file to be used may enable simulation software with corresponding version to run.
- Version selecting function of a remote operation tool (FZ_FH_FJ Remote Operation Tool)
Specifies and runs a remote operation tool with the version to be used.
Specifying a file to be used may enable a remote operation tool with corresponding version to run.
- Switching function of display language
Switches the language displayed on FZ/FH/FJ Launcher.

2.2. Intended Audience and Required Skill

This instruction manual and FZ/FH/FJ Launcher intends people who are responsible for the operations of Vision Sensor FH/FZ5 series. (For the operation of Vision Sensor FH/FZ5 series and the details, refer to the Vision Sensor FH/FZ5 series User's Manual and Communications Settings.)

2.3. Terminology

Term	Description
FZ/FH/FJ Launcher	This software. Switches and runs multiple FH/FZ5/FJ simulation software and remote operation tools.
Remote operation tool	A tool to be used when remotely operating FH/FZ5/FJ sensor controllers.

2.4. Recommended Operating Environment

Item	Requirements
CPU	Adapts Intel streaming SIMD extended instruction SSE2 or later, Installed OS, and Visual Studio to be used, and .NET Framework system requirements.
OS	Windows 7 Professional (32-bit/64-bit) Windows 8.1 Pro (32-bit/64-bit) *
.NET Framework	.NET Framework 3.5
Display	XGA(1024 × 768), True Color(32-bit) or higher
Memory	RAM: 2GB or more
Available space of HD	2GB or more

* When the installed OS is Windows 8.1 Pro, .NET Framework 3.5 must be installed.

2.5. Restrictions

A software version of the corresponding simulator is 5.71 or later.

The software version is 5.70 or earlier is not supported.

3. Installation

FZ/FH/FJ Launcher is included in the CD-ROM for Vision System FH series software.



Precautions for Correct Use

Uninstall simulation software with version 5.61 or earlier first, and then install this.

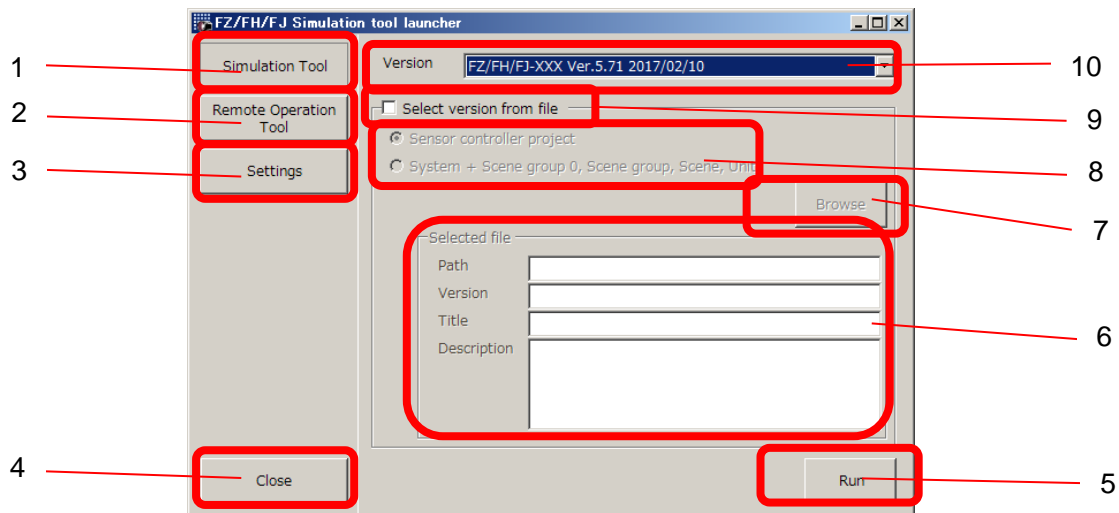
3.1. Installing Procedures

1. Set the CD-ROM to the CD-ROM drive.
A startup screen will automatically appear.
2. Click the [Install FZ/FH/FJ Launcher] button.
The installer for FZ/FH/FJ Launcher will automatically start.
Install it according to the instructions displayed on the screen.
3. Then click the [Install Simulation Software] button.
The installer for the simulation software will automatically start.
Install it according to the instructions displayed on the screen.
4. Enter the license No. when continuously using this software more than 30 days.
Launch the FZ_FH_FJ Licence tool from the start button.
Enter the license No.

4. Windows

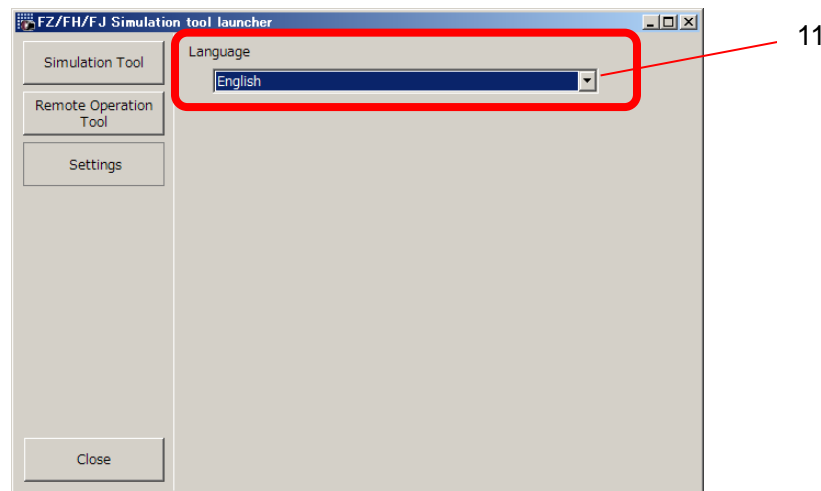
Windows for FZ/FH/FJ Launcher consists of three windows like simulation window, remote operation tool window, and language setting window. Here describes FZ/FH/FJ Launcher window and each part of it.

4.1. Simulation Software Window, Remote Operation Tool Window



No.	Name	Description
1	[Simulation Tool] button	Displays the simulator startup window.
2	[Remote Operation Tool] button	Displays the remote operation tool window
3	[Settings] button	Displays the language setting window.
4	[Close] button	Exits FZ/FH/FJ Launcher.
5	[Run] button	Runs the selected version of the simulation software or the remote operation tool.
6	File information display	Displays the selected file information. When selecting "system + Scene group 0, Scene group, Scene, Unit", "Title" and "Description" are not displayed.
7	[Browse] button	Selects a file to check the version.
8	File selection button	Selects a file type to check the version.
9	Select version from file	Check the version of software to run by specifying a file.
10	Combo box for version	Displays all versions installed as a candidate. When the [Simulation Tool] button or the [Remote Operation Tool] button is clicked, a simulator or remote operation tool with the selected and displayed version will run. The setting is saved and will be default for the next startup.

4.2. Setting Window



No.	Name	Description
11	Language selection box	Displays the current language setting. When changing the display language, the change is reflected immediately. The setting is saved and will be default for the next startup.

5. Use Procedures

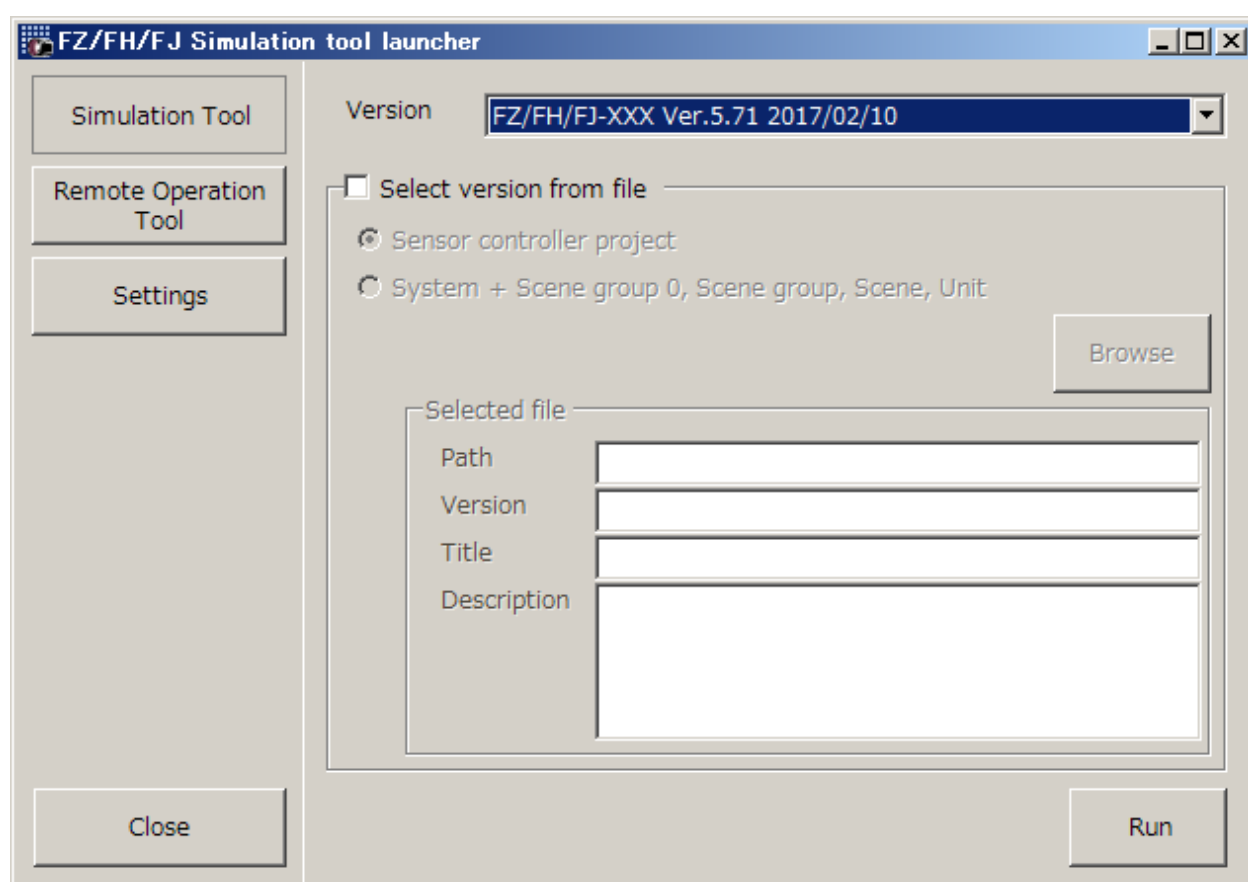
Here describes the startup method for FZ/FH/FJ Launcher, the startup method for simulation software, and the change method of language setting.

5.1. Run FZ/FH/FJ Launcher

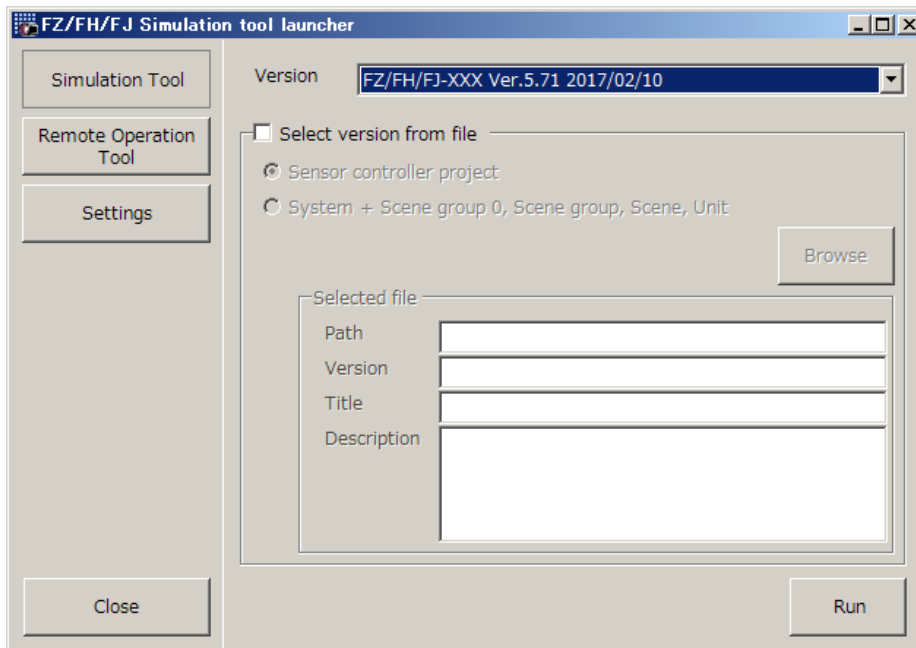
The following describes the startup procedures for FZ/FH/FJ Launcher.

Procedures

1. From the [Start] menu on your PC, select [All Programs] - [OMRON] - [FZ_FH Series] - [FZ_FH_FJ Launcher]
2. FZ/FH/FJ Launcher window appears.



5.2. Run Simulation Software



Procedures

1. Click the [Simulation Tool] button.
2. Specify the version if it has already been known.
All software version installed in the PC will be displayed.
3. When data for "Sensor controller project", "System +Scene group 0", "Scene group", "Scene", and "Unit" exist, the version of software to be run can be checked by specifying data.
 - Check the check box of "Select version from file".
 - Specify a file.

Item	Setting value	Description
Select version from file	<ul style="list-style-type: none">• 【No Check】• Check	Checks when checking the version from file.
Configuration file	<ul style="list-style-type: none">• 【Sensor controller project】• System +Scene group 0, Scene group, Scene, Unit	<p>Sensor controller project: Selects this when checking the version of simulation software with data generated by the environment copy function.</p> <p>System +Scene group 0, Scene group, Scene, Unit: Selects this when checking the version of simulation software by using data like "System +Scene group 0", "Scene group", "Scene", and "Unit".</p>

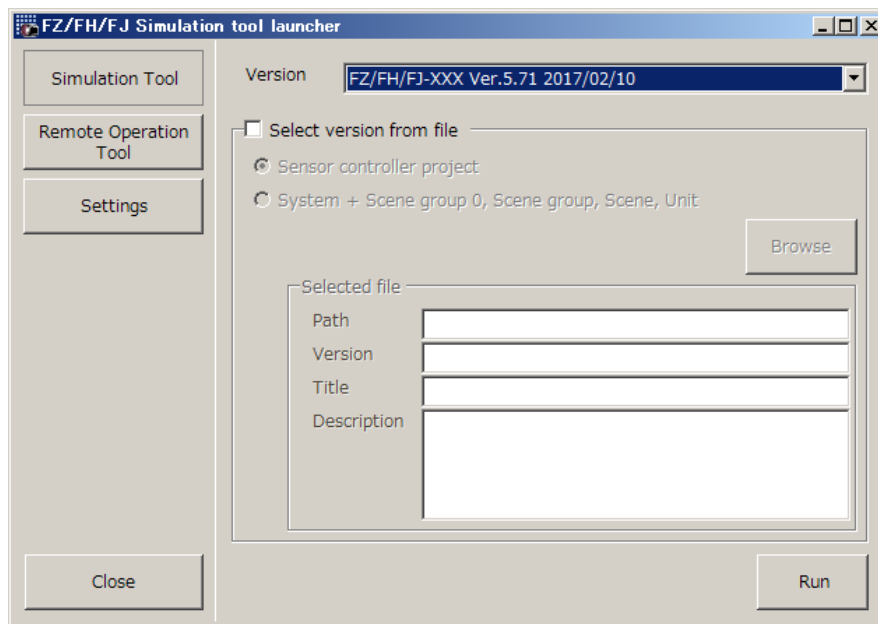


Precautions for Correct Use

If no version of a simulator to match the configuration file exists, a message of "No version of a simulator to match the configuration file is installed." will appear.

4. The matched version of a simulator with the configuration file will appear.
5. Click the [Run] button.

5.3. Run Remote Operation Tool



Procedures

1. Click the [Remote Operation Tool] button.
2. Specify the version if it has already been known.
3. When data for "Sensor controller project", "System +Scene group 0", "Scene group", "Scene", and "Unit" exist, the version of software to be run can be checked by specifying data.
 - Check the check box of "Select version from file".
 - Specify a file.

Item	Setting value	Description
Select version from file	<ul style="list-style-type: none">• 【No Check】• Check	Checks when checking the version from file.
Configuration file	<ul style="list-style-type: none">• 【Sensor controller project】• System +Scene group 0, Scene group, Scene, Unit	<p>Sensor controller project: Selects this when checking the version of simulation software with data generated by the environment copy function.</p> <p>System +Scene group 0, Scene group, Scene, Unit: Selects this when checking the version of simulation software by using data like "System +Scene group 0", "Scene group", "Scene", and "Unit".</p>



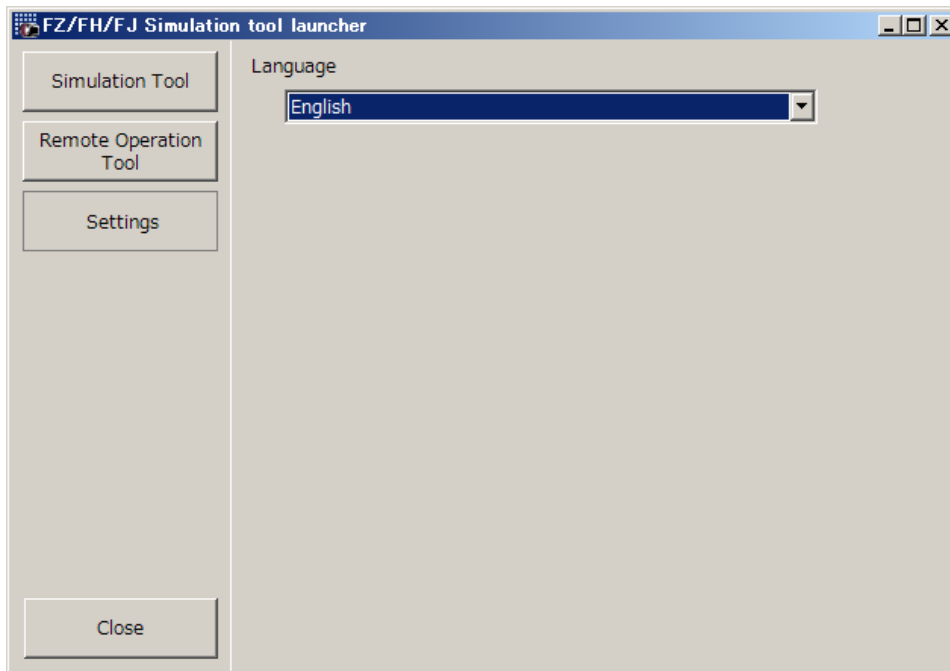
Precautions for Correct Use

If no version of a simulator to match the configuration file exists, a message of "No version of a simulator to match the configuration file is installed." will appear.

4. The matched version of a simulator with the configuration file will appear.
5. Click the [Run] button.

5.4. Change Display Language

Change the current language setting of the tool.



Procedures

1. Click the [Settings] button.
2. Select language to display in the language setting dialog box.

Name	Description
Language setting	Displays the current language setting. When changing the display language, the change is reflected immediately. The setting is saved and will be default for the next startup.

5.5. Troubleshooting

Trouble	Actions
A message of "A simulator version that matches the setting is not installed." appears.	<ul style="list-style-type: none">• The message appears when no matched version of a simulator with the configuration file is not installed. Get the simulation software with the version matching the configuration file.• The configuration file may be 5.70 or earlier. This software does not support those. Check the software version for the sensor controller using the configuration file first, and then run simulation software with the same version.
"License error!" appears at startup.	<ul style="list-style-type: none">• It passes over 30 days from the installation. Register the license No. when you continue using this software.
Buttons such as "File selection button" are not displayed in the simulation software window.	<ul style="list-style-type: none">• The DPI setting of the PC may be set to "Expansion". Set it to "100% (96 DPI) or "Standard".

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Man. No.: S2D-175074B