

## Sequence Creation and Control Software Setup Guide

# Wavy for PLZ-4W SPEC70285 Ver 5.3

Thank you for purchasing the Sequence Creation Software Wavy for PLZ-4W (SPEC70285).

Wavy for PLZ-4W (SPEC70285) is used to create and execute sequences for Kikusui PLZ-4W series electronic load.

- You can create and edit sequences easily by using a mouse.
- During sequence execution, the software indicates the point being executed.
- You can monitor the voltage and current, and save the monitored data to a file.
- The software displays the monitored data as a real-time monitor graph.

### ■ Package contents

The Wavy for PLZ-4W (SPEC70285) package contains the Program CD-ROM.

### ■ Applicable version

This guide applies to version 5.3 of Wavy for PLZ-4W (SPEC70285). To find out the version of the Wavy, click on the Help menu and select About Wavy.

### ■ Trademarks

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### ■ Notations Used in This Manual

- In this guide, Sequence Creation Software Wavy for PLZ-4W (SPEC70285) is referred to as Wavy for PLZ-4W or Wavy.
- “PC” in this guide is a generic term for personal computers and workstations.
- In this guide, operations on Windows 10 are described when explaining operations related to the OS.
- The following markings are used in this guide.

**NOTE** Indicates information that you should know.

- > Indicates the menu command you need to select. The menu command to the left of “>” is the higher level command.

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## Safety precautions

Before using Wavy, carefully read the electronic load manual. Be sure to connect and handle the device properly. Improper connections or handling may lead to serious accidents, injury, and fire.

## System requirements

- Core i5 or higher
- Windows 10, Windows 8.1, or Windows 7 (English)
- 8 GB RAM\*<sup>1</sup> (Minimum)
- 20 GB or more of free hard-disk space
- A display that supports 1024 x 768 or higher resolution (96 DPI)
- CD-ROM drive
- Mouse
- RS232C, USB or GPIB (depending on the interface to use)
- VISA library

\*1 If you want to use the software continuously over an extended period, expanding the RAM to 16 GB is recommended.

## Installation

An administrator account is required for the following installation.

### Installing the VISA library

To use Wavy, VISA library needs to be installed on your PC. VISA (Virtual Instrument Software Architecture) library is a standard specification for measurement instrument connection software, which was developed by VXIplug&play Systems Alliance.

A KIKUSUI original KI-VISA is available that supports IVI VISA specifications 5.0. You can download the latest version of this library through our website (<https://www.kikusui.co.jp/download/>).

- KI-VISA Ver 5.5 or later

The following other VISA libraries can also be used. Confirm the license terms of each VISA library before installation.

- NI-VISA by National Instruments (Ver.19.0 or later)
- Keysight VISA by Keysight Technologies (Keysight IO Libraries Suite18.1 or later)

### ■ Installing KI-VISA

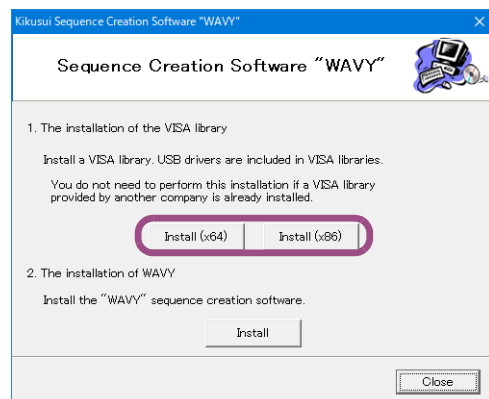
If NI-VISA or Keysight VISA is already installed on your PC, you do not need to install KI-VISA.

### 1 Insert the CD-ROM to your CD-ROM drive.

A setup window appears. Otherwise, double-click "AutoRun.exe" included in the CD-ROM.

### 2 Click Install under 1. The installation of the VISA library.

Click Install (x64) for 64-bit OS or Install (x86) for 32-bit OS.



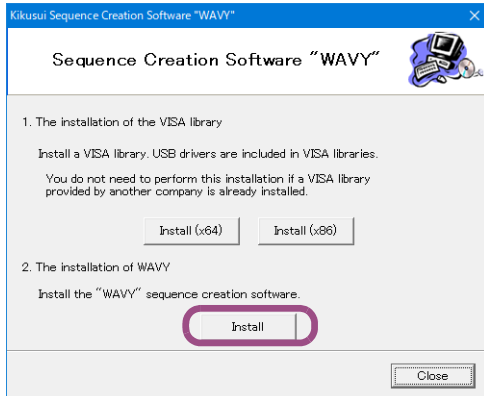
The VISA library installation initiates. In case that a VISA library has already been installed, the VISA library and its version are displayed. Do not install multiple VISA libraries on a single PC.

## Installing Wavy

### 1 Insert the CD-ROM to your CD-ROM drive.

A setup window appears. Otherwise, double-click "AutoRun.exe" included in the CD-ROM.

### 2 Click Install under 2. The Installation of WAVY.



### 3 Follow the instructions until the installation is complete.

### 4 Click Close.

## Uninstalling Wavy

Right-click Windows Start, and select > Apps and Features > Kikusui SPEC70285 Wavy for PLZ-4W Ver.5 > Uninstall.

## About Windows updates (Windows 10 only)

Unlike the older versions of Windows, Windows 10 is provided as Windows as a Service (WaaS) in order to continuously update the OS. It is said that updating privileges would be lost unless it is used in an Internet connected environment and Windows Update is periodically executed (currently 18 months).

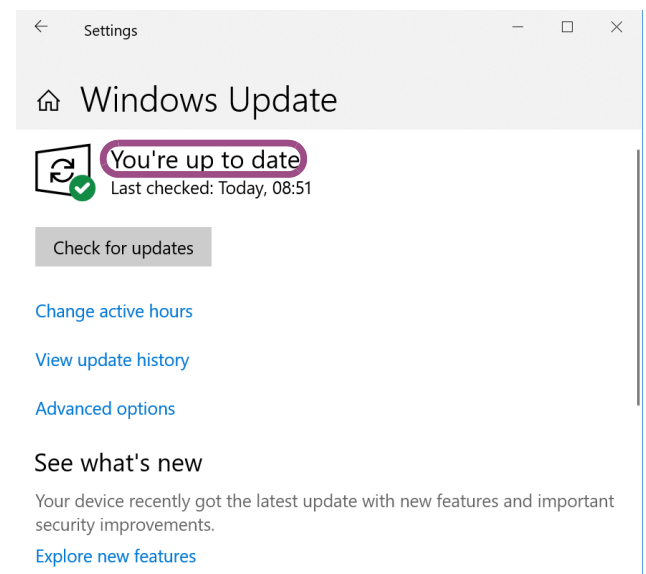
If you want to stably run a sequence using Wavy over an extended period, you need to be careful about the auto update function of Window 10.

Familiarize yourself with the matter explained below, and construct the most stable OS environment possible before running a sequence.

### ■ Running Windows Update

Run Windows Update to update the OS to the latest condition (in which "You're up to date" is shown).

When the downloading of the update file is complete, Windows will be in an installation-wait state or restart-wait state after installation. If you run a sequence in this state, Windows may restart automatically even when the PC is not connected to the Internet. Be sure to select Install Now or Restart Now to complete the installation of the update program.



### ■ Windows Update settings

With the default Windows Update settings, when connected to the Internet, Windows 10 automatically runs Windows Update and restarts the PC using the update program. If Wavy is running, Windows will automatically restart while a sequence is running, and this will result in the loss of monitored data.

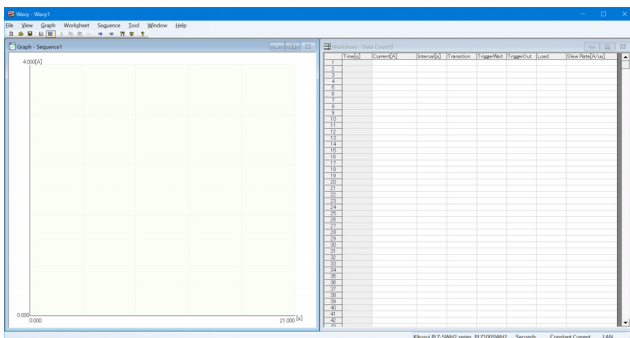
When executing a long-term sequence using Wavy, we recommend that, in the Windows Update settings, you postpone the update program installation until an appropriate time.

# Starting Wavy

## NOTE

- Before starting Wavy, make sure that the power-saving mode and the screen saver are turned off and all the other applications are closed on your PC.
- When your PC supports either Advanced Power Management (APM) or sleep mode, turn off these functions.
- Changing the DPI setting may result in improper appearance of the display.

To start Wavy, from the Windows Start menu, select Kikusui > SPEC70285 Wavy for PLZ-4W > Wavy for PLZ-4W.



# Viewing the User's manual

The User's manual contain information on how to use Wavy and description of interface settings.

Manual is available in PDF.