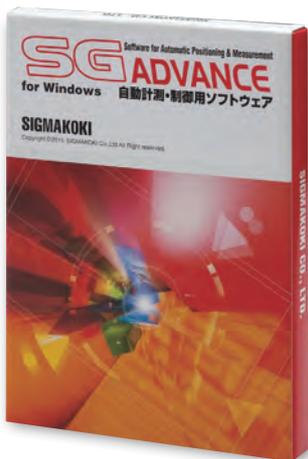


Software for Automatic Positioning and Measurement | SGADVANCEE



SGADVANCEE is software for making measurements and automatically collecting data by connecting to motorized positioning devices, measuring instruments, and controllers. Designed to work with Excel, instructions for making the measurements, the resulting measurement data and additional analysis can all be incorporated into a single spreadsheet. Using SGADVANCEE makes it possible to easily build measurement and control systems for a wide variety of measurement environments.

[Terminal Measurement Function]

- Positioning and measurement can be performed by listing and executing commands in an Excel sheet.
- Continuous process or step-by-step process can be selected.
- Use of SGTERM's custom control scripts, "If", "Jump", "Loop" and "Print" in an Excel worksheet simplifies processing control.
- High speed operation can be achieved with buffering sequences in the Excel sheet before operation.

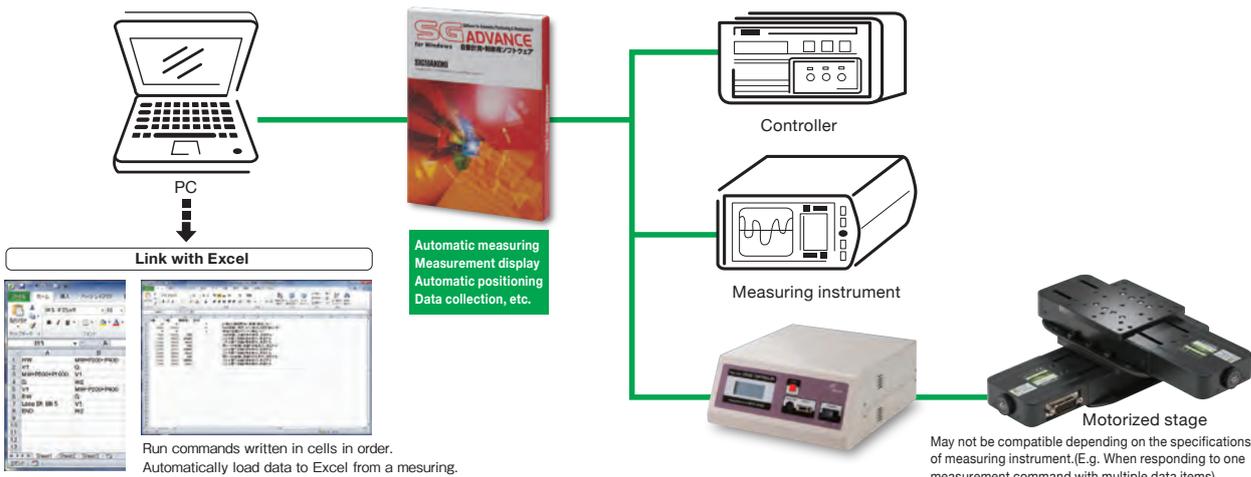
[Program Measurement Function / Excel Instruction Measurement Function]

- Multiple repetition of positioning/measurement sequence is easily accomplished.
- Various functions are available such as manual or time-series measurement and

| | |
|-------------|-------------------|
| Part Number | SGADVANCEE |
| | USBKEY-SGADVANCEE |

- count presetting.
- By creating Excel instruction files, both stage control and measurement with a measuring instrument can be performed simultaneously.
- Using this software in combination with motorized positioning devices offered by SIGMAKOKI, a positioning and measurement system can be easily configured.
- Measurement equipment or SIGMAKOKI motorized stage can be controlled separately with Excel Instruction Measurement Function.
- Program Measurement Function / Excel Instruction Measurement Function can operate multi-axis motorized stages.
- Measurement results are output to an Excel sheet making it easy to analyze and manage measured data.
- System configuration data can be saved as a "*.SGA" file, which facilitates setting of the same process again.
- RS232C*1/GP-IB*2/USB*3/LAN interfaces are supported.
- Compatible with Windows® XP/Vista/7/8/8.1*4/10
- USB Key (Option) is a software key to activate SGADVANCEE on any PC.

*1 RS-232C ports are available from COM1 to COM8.
 *2 As for GP-IB, only GP-IB of National Instruments Corporation is supported.
 *3 USB is only supported for SHOT-302/304 series, HIT-M, FINE-01 y/503 series, and OMEC-2BG/4BG series.
 *4 Conditions when used with Windows®7/8/8.1/10 are as follows.
 • Administrative right is required for installation as well as execution.
 • 32/64 bit versions are supported. Check on our website for the latest support status.



Register a device

Operation settings

Create an instruction file with Excel

- Application Systems
- Optics & Optical Coatings
- Opto-Mechanics
- Bases
- Manual Stages
- Actuators & Adjusters
- Motorized Stages**
- Light Sources & Laser Safety
- Index
- Guide
- Controllers/Drivers
- Softwares**
- Stepping Motor
- AC Servo Motor
- Cables
- Piezo
- X Translation
- Theta Rotation
- Goniometer
- Vacuum
- Options
- 40 × 40 mm
- 60 × 60 mm
- 80 × 80 mm
- 85 × 85 mm
- 100 × 100 mm
- 120 × 120 mm
- Others

Reasons to recommend dedicated software

Many people seem to use Excel for statistics or analyzing various kinds of data. In analyzing from standpoint of engineering, multi-points measurements are necessary, so one of the commonly method is to use automated stages and measurement systems.

In most cases, engineering analysis calls for multi-points measurement, so one of the common method is to use motorized stages and measurement devises. However, sometimes dedicated software attached to such kind of devices cannot work well with an external devices.

Therefore, we think there are still many cases such as moving a device little by little, reading the value of the instrument and inputting manually in Excel cell in order to make a data base.

One solution for this is to develop a dedicated program from scratch, however, it takes too much time and cost.

Also, in some cases, it may be troublesome for many researchers to make those control programs.

SGADVANCEE is a software that is generalized by giving weight to the basic function such as "automated positioning" and "inputting data to Excel spreadsheet" so as to collect various data automatically.

Even thought you are novice at programming, you can easily collect data by selecting controller and interface and setting up measurement command.

For experts, it is possible to make flexible measurement patterns by using this software in combination with Excel macros expanded for measurement and control.

For programmers, it is possible to shorten coding and debugging time because you can confirm the control flow and understand specifics characteristics of equipment in developing dedicated software.

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

Controllers/Drivers

Softwares

Stepping Motor

AC Servo Motor

Cables

Piezo

X Translation

Theta Rotation

Goniometer

Vacuum

Options

40 x 40 mm

60 x 60 mm

80 x 80 mm

85 x 85 mm

100 x 100 mm

120 x 120 mm

Others