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SERIES No. 178

Surftest SJ USB Communication
Ver. 3.000A (English)
(Complimentary)

Surface Roughness Tester
SJ-500/SV-2100

User's Manual

Read this Manual thoroughly before operating the instrument.
After reading, retain it close at hand for future reference.

Mitutoyo

About this software

Surftest SJ USB Communication

Surface Roughness Tester

Quick inspection certificate generation program

Ver. 3.000A (English Edition)
(Complimentary)

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INSTALLATION

Execute the steup.exe file after downloading. To start setup of the application, perform installation according to guidance.

However, if the old version has been installed, be sure to execute the procedure in “5. UNINSTALLATION”, and then perform installation.

After installation has been completed, turn on the power to the control unit and connect the PC and control unit with the USB cable (Parts No.12AAH490 or AB type as a commercial product).

Windows7/8/10 : When [Device driver software was not successfully installed] is displayed, follow the procedures below to install the USB connection driver manually. Click [Start] → Click [Devices and Printers] → Select [Unknown device] → Click [Hardware] tab → Click [Properties] → Click [Change setting] → Click [Update Driver] → Select [Browse my computer for driver software] → Click [Browse] to specify [DLL] folder → Click [Ok] → Click [Next] → Select [Install this driver software anyway] and the installation is started.

If it is unable to install by the above method, follow the procedures below:

Click [start] → Select [Devices and Printers] → Select [Unknown device] → Click [Hardware] tab → Click [Properties] → Click [Change setting] → Click [Update Driver] → Select [Browse my computer for driver software] → Select [Let me pick from a list of device drivers on my computer] → Select [Show All Device] → Click [Next] → Select [Have Disk] → Click [Browse] to specify [DLL\SJ\INF] folder → Select [SJ-500.inf] → Select [SJ-500] from [Show compatible hardware] → Click [Next] → Select [Install this driver software anyway] and the installation is started.

Windows XP / Vista: When [Found New Hardware Wizard] is displayed, follow the procedures below to install the USB connection driver. Select [Install from a list or specific location] → Click [Next] → Select [Search for the best driver in these locations] and check [Include this location in the search] → Click [Browse] to specify [DLL\SJ\INF] folder → Click [Ok] → Click [Next] and the installation is started.

To start this program, Excel supplied from Microsoft Corporation (US) needs to have been installed. For information about the operating environment, refer to “6. OPERATING ENVIRONMENT AND OTHERS”.

NOTE The USB cable (Parts No.12AAH490) is not a standard accessory. It needs a separate order. AB type for commercial product.

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START-UP

- (1) Start SJ-500[SV-2100] from the Surftest SJ USB Tools menu in the Windows Start Programs. If the PC and control unit are properly connected at this time, authentication of the connection is automatically performed and the Measurement Data Read screen is displayed.
- (2) When the application is used for the first time, it is necessary to perform authentication of the connection between the PC and control unit. If authentication of the connection is not complete, it is not possible to use the application independently with the control unit unconnected to the PC.

CAUTION: If authentication of the connection is not complete, message ***“Please confirm the connection with SJ controller.”*** is displayed.

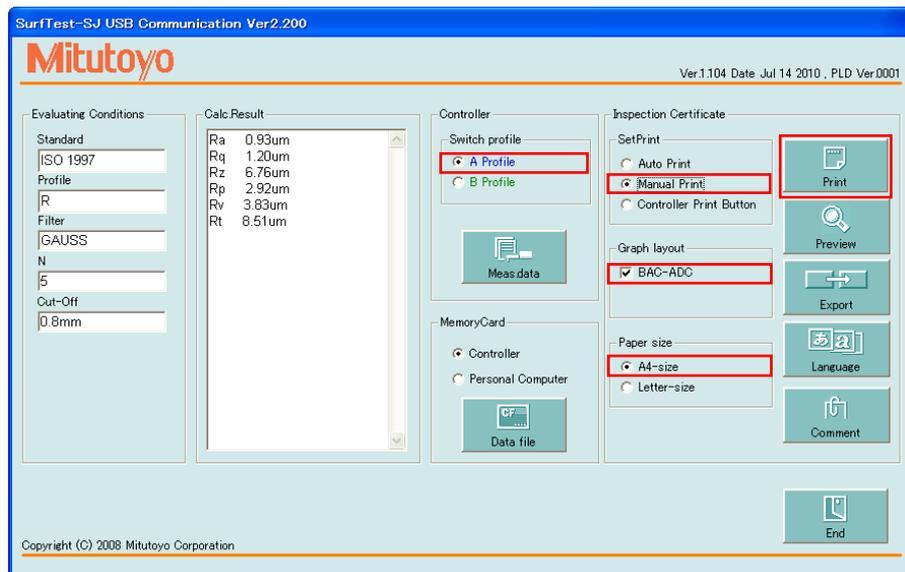
- (3) If the control unit is not connected, the buttons related to the control unit are disabled.
- (4) If the buttons related to the control unit are disabled even with the control unit connected, there is some anomaly in communication. If this is the case, quit the application once and then restart it after checking the connection with the control unit.
- (5) If the software is started with the control unit connected, language will be the same as the one displayed in the control unit.

NOTE Files required for creating the inspection certificate are saved below: “C:¥Mitutoyo Surftest¥SJ-500”

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GENERATING AN INSPECTION CERTIFICATE

- (1) This program can generate a simplified inspection certificate based on calculation results and evaluation profile data.
- (2) Set the evaluation conditions [A] and [B] of SJ-500 [SV-2100] to perform measurement.
- (3) Click SJ-500[SV-2100] from the SurfTest SJ USB Communication menu in the Windows Start Programs to start SurfTest SJ USB Communication.
- (4) Select [[A]Profile] in the Profile Selection box on the screen of SurfTest SJ USB Communication.
- (5) Select [Automatic Print] from the Print Method box.
- (6) Select the check box of [BAC-ADC Display] in the Graph Layout box.
- (7) Select either A4-size or letter-size print sheet.
- (8) Click the [Print] button. The program automatically executes data loading from the control unit, inspection certificate generation, and inspection certificate print in this order.
- (9) The evaluation conditions and calculation results of loaded data can be also confirmed on the screen of SurfTest SJ USB Communication.



NOTE In the inspection certificate, 24 parameters can be displayed at maximum.

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DESCRIPTION OF EACH FUNCTION

- (1) [Evaluation Condition] Displays evaluation conditions such as standard and profile of loaded data.
- (2) [Calculation Result] Displays calculation results of loaded data.
- (3) [Profile Selection] Selects a profile of which data to be loaded from the control unit.
- (4) [Measurement Data] Loads the measurement conditions, calculation results, and evaluation profile data of a profile selected from the control unit.
- (5) [Print Method]

Auto Print: Automatically loads data from the control unit, generates and prints an inspection certificate.

Manual Print: Generates and prints an inspection certificate using already loaded data.

[Print] button on the Control Unit: Pressing the [Print] button on the control unit performs data loading from the control unit, inspection certificate generation and print.

CAUTION: If the control unit system version is Ver.1.103 or older, the Print button on the control unit is not available.
- (6) [Graph Layout]

BAC-ADC Display: Displays a BAC-ADC graph on an inspection certificate.

Evaluation Profile Enlargement: Displays an enlarged evaluation profile if no BAC or ADC is displayed.
- (7) [Paper size] Either A4-size or letter-size print sheet can be selected.
- (8) [Print] Prints an inspection certificate according to a specified print method.
- (9) [Print Preview] Displays the print image of an inspection certificate. During the print preview mode, the Surftest SJ USB Communication screen is minimized. When the print preview mode exits, the Surftest SJ USB Communication screen is restored to the original size.
- (10) [Export] An inspection certificate can be saved as a file excluding the Excel macro function. For details about the saving method, refer to the Excel

Operation Manual.

(11) [Language Selection] Allows a language displayed on an inspection certificate to be switched.

(12) [Comment] Allows edition of a comment in an inspection certificate.

CAUTION: If a language is switched to another, a comment is changed to the default setting.

(13) [Memory Card] Control unit: Allows data in a memory card inserted in the control unit to be loaded.

PC: Allows SJ-500 [SV-2100] data saved in a memory card connected to a PC or contained in a folder to be loaded.

CAUTION: The format of the files to be loaded among those saved in a memory card is limited to the text file format. Perform setting in order of Control Unit, Environment Setting, Memory Card, Text File, and Save.

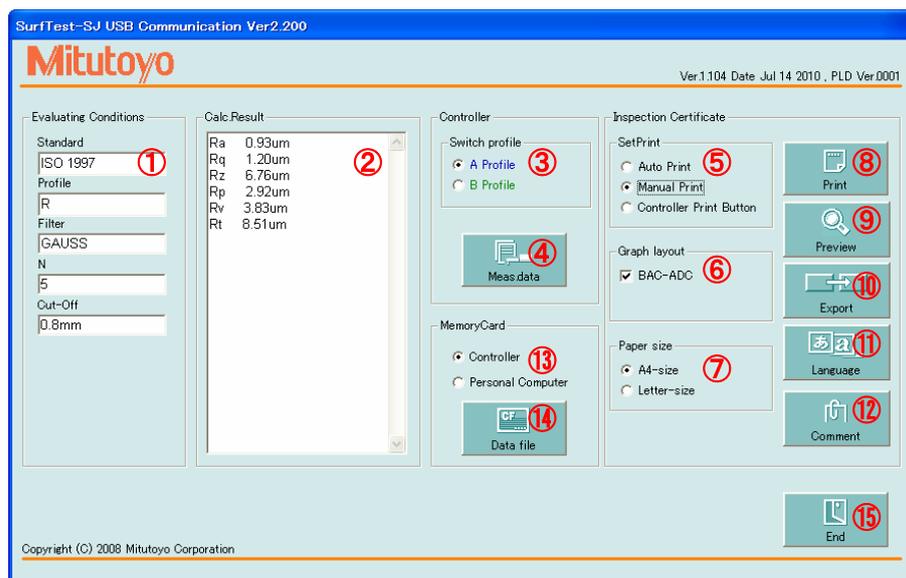
[Data File] Displays the data file list of SJ-500 [SV-2100] saved in a memory card.

CAUTION: When data is loaded from a memory card, a print method is switched to Manual Print. Also, since no BAC or ADC graph data is saved in a memory card, the check box of BAC-ADC Display is deselected. To continue generation of an inspection certificate, click the [Print] button.

(14) [Data File] Select a file from the list and then click the [Call] button.

CAUTION: If the control unit system version is Ver.1.103 or older, the [B] profile cannot be selected.

(15) [Exit] Quits SurfTest SJ USB Communication.



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UNINSTALLATION

- (1) Select [Start], [Settings], and [Control Panel] menus in this order to open the control panel, and then double-click the [Add/Remove Programs] icon.
- (2) Select an old version program from the list of the [Install/Uninstall] tab and then click the [Add/Remove...] button.
- (3) A message to confirm whether to remove is displayed. Click the [Yes] button.

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OPERATING ENVIRONMENT AND OTHERS

- (1) Operation verified environment

OS	Windows XP-SP3 / Vista / Windows7/8/10 (32Bit/64Bit)
Excel	Excel 2000 / 2002 / 2003 / 2007 / 2010 / 2013 / 2016
Display	800 X 600 dots or more, high color (16 bits) or better

- NOTE**
- For Windows Vista Business or later / Windows7 / Windows8, it is required to run SurfTest SJ USB Communication as an administrator.
 - It may not operate properly, if the security level of the Excel is high.

- (2) Windows is a trademark of Microsoft Corporation.
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