Ra
2.988
µm
SPC

Ra
2.988
µm
SPC

SJ-220

Mitutoyo

Versatility

Expand functionality by linking to a smartphone, PC, or similar device.

User-friendly

Compatibility

Versatility

Ra
0.020
µm
GO

Mitutoyo provides the "SJ-App" and "SJ-Communication-Tool" as dedicated apps to expand remote operation and the scope of measurement result utilization.
By installing the optional U-WAVE-TIB wireless transmitter, the SJ-220 can be linked to a smartphone, PC, etc., supporting expanded functionality and more efficient measurements. The dedicated apps can be downloaded for free from the Mitutoyo website.

Actual size

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Intuitive operation through touch screen

The device is equipped with a touch screen and a new user interface. You can perform operations like changing the display screen and adjusting the settings with your fingertip. In addition to touch operations, the SJ-220 also supports flick and swipe operations, making it easy for anyone to perform measuring work. You can also disable the touch screen operation by holding down the PAGE key.
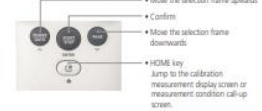
Large display is easy to see and use

The screen size has been expanded to 2.8 inches, achieving high visibility while maintaining a compact device size for use with one hand. The backlight makes the screen clear and easy to see even in dimly lit locations. You can also change the screen display orientation from vertical to horizontal.

Vertical screen display   Horizontal screen display

Includes buttons in addition to the touch screen for further accessibility

Even if you are wearing gloves and unable to use the touch screen, you can still operate the SJ-220 using the physical buttons. With the addition of the HOME key, you can jump to the Home screen with one touch, display the daily menu, and call up calibration measurements and measurement conditions.

- Move the selection frame upwards
- Confirm
- Move the selection frame downwards
- HOME key: Jump to the calibration measurement display screen or measurement condition call-up screen.

Drive unit selection

See page 10 for details.

Use the QR code to access an introductory video on each drive unit.

Standard drive unit type   Retractable drive unit type   Transverse tracing drive unit type

Battery powered to enable measurement anywhere

Equipped with a built-in battery, the SJ-220 can perform measurements even in environments where power is not available.
On a full charge, it can be used to perform measurements approximately 1000 times.

Compatible with new standard ISO 21920

In addition to conventional roughness standards, the SJ-220 supports the new surface texture standard ISO 21920.

JIS B 0601-1982	JIS B 0631-2000
ISO 21920-2021	JIS B 0601-1994
ISO 4287-1997	ASME B46.1
JIS B 0601-2013	ISO 13565-1996
VDA2006	JIS B 0671-2002
ISO 12085-1996	

Supports 25 languages

In this model, we have added Thai, Vietnamese, Indonesian, and Malay to the number of languages supported, making it a multilingual device for use in 25 languages. You can easily switch languages from the HOME screen.
Additionally, the accompanying CD-ROM includes a user's manual in 3 languages.

Japanese	English*	German	French
Italian	Spanish	Portuguese	Korean
Traditional Chinese	Simplified Chinese	Czech	Polish
Hungarian	Turkish	Swedish	Dutch
Slovenian	Russian	Romanian	Bulgarian
Finnish	Thai	Vietnamese	Indonesian
Malay			

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Wireless connectivity now available for increased measurement efficiency.

Optional U-WAVE-TIB transmitter allows for wireless displaying of measurement results, setting measurement conditions, and bidirectional communication.
By attaching the optional wireless communication unit, it is possible to have wireless communication via Bluetooth® with a device (PC or smartphone) on which the dedicated app* is installed.
In addition to receiving measurement results, the terminal side can also send measurement condition settings and measurement start information, allowing for cableless measurement work.
* "SJ-App" (for smartphones [Android 12 or later]), "SJ-Communication-Tool" (for PC [Windows 10/11]): See pages 8-9 for details.

With Wireless Unit for Measuring Instrument U-WAVE-TIB installed

Wireless Unit for Measuring Instrument U-WAVE-TIB
Bluetooth®
Bluetooth® 5.0

Bidirectional communication (BLE communication)

USB communication for sending and receiving measurement data

Bidirectional communication is possible by connecting the SJ-220 to a PC with a USB cable and installing the dedicated app "SJ-Communication-Tool".
Measurement work can be made more efficient by setting measurement conditions on the PC.
*The USB connector also serves as a charging port.

Bidirectional communication (USB communication)

Compatible with Digimatic interface

SPC output of measurement results is possible by connecting to an optional Digimatic Mini Processor using the Digimatic Connection Cable.
The SJ-220 also has an automatic Digimatic output function.*
*The SJ series can only output results for one roughness parameter.

Digimatic Mini Processor DP-1VA LOGGER 264-505

Connection Cable (1m) 06AGL011
Connection Cable (2m) 06AGL021

USB Input Tool Direct (2 m) USB-ITN-SF 06AGQ001F

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Dedicated "SJ-APP" for increased efficiency of measurement work

The dedicated app that enables communication with the SJ-220 is equipped with various functions to increase work efficiency.
It is also possible to manage data, create inspection reports, and export to CSV and PDF files on the terminal.

Smartphone icon display   Startup screen   Calculation result   Inspection report

App

Dedicated smartphone app "SJ-App"
Can be downloaded from the Mitutoyo website.
Download site URL:
https://www2.mitutoyo.co.jp/eng/contact/products/SJ-App/
Android 12 or later, Bluetooth® 5.0 compatible (Android only)

Added convenience by linking to PC with highly functional free software, "SJ-Communication-Tool"

Mitutoyo provides free software that allows you to import various data (measurement conditions, parameter settings, calculation results, measurement data) from the SJ-220 to create and edit inspection reports on your PC. This software can significantly reduce the time it takes for you to create reports.

Confirmed operation environments:
- OS: Windows 10 (64 bit), Windows 11 (64 bit)
- Windows is a product of Microsoft Corporation.
- Connection requires a USB 2.0 Cable or a Wireless Unit for Measuring Instrument U-WAVE-TIB

Software

PC-linked software "SJ-Communication-Tool"
Can be downloaded from the Mitutoyo website.
Download site URL:
https://www2.mitutoyo.co.jp/eng/contact/products/SJ-Communication-Tool/
Windows 10/11, Bluetooth® 5.0 compatible (Windows only)

Utilization of QR codes

A QR code can be displayed on the inspection report and used for data management such as the following:
- Linking with measurement data
- Recalling saved measurement data

CERTIFICATE OF INSPECTION

Example of QR code display

FORMTRACEPAK-AP to support advanced analysis

It is possible to perform more advanced analysis by loading the SJ-220 measurement data into the analysis program FORMTRACEPAK-AP for evaluation type surface roughness/contour measuring devices.

Using MeasurLink® to achieve quality visualization

By using MeasurLink®, data from measurement devices connected to the network can be collected and centrally managed in real time. Statistical processing can be performed to achieve visualization of quality.

MeasurLink®

Use the QR code to access a demonstration video.