# Measurement Data Input Unit USB Input Tool Direct: USB-ITN



USB Input Tool Direct now features a model dedicated to each instrument type and a software option for increased spreadsheet efficiency



Catalog No.E4391

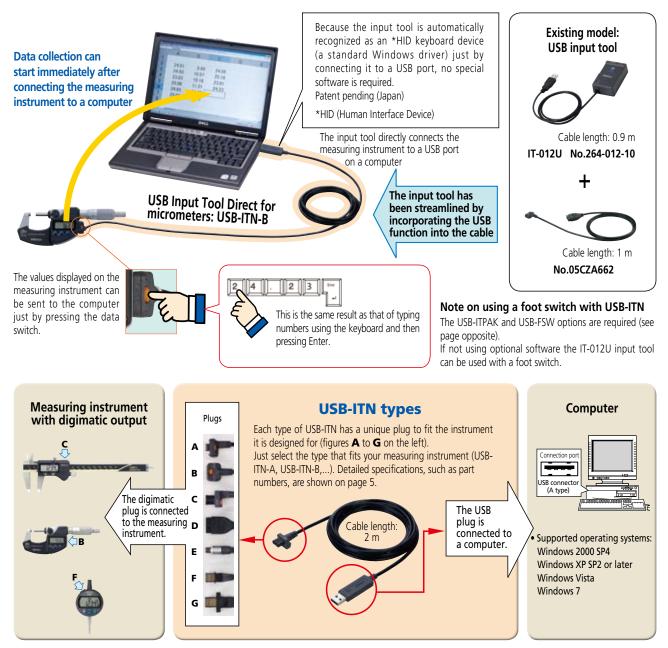
New

# **USB Input Tool Direct: USB-ITN**

Our USB Input Tool Direct has been streamlined into a range of dedicated models for each type of measuring instrument.

# Features 1: Using USB-ITN Alone

In the same way as the existing model, IT-012U, measurement data can be input to Excel, Notepad, and other programs just by connecting the input tool to a computer.





#### Features 2: Using USB-ITN in Combination with the Optional Spreadsheet Software

Although measurement data can be simply loaded directly into an Excel spreadsheet just by connecting the instrument and input tool to a computer, using the optional USB-ITPAK software enables time-saving operations and procedures that significantly improve reliability and efficiency.

# Measurement data collection software: USB-ITPAK® Order No. 06ADV386

This setup and data collection software is used to input data from one or more measuring instruments (connected by way of USB-ITN) to any Excel sheet. (This software package cannot be used with IT-012U.)

#### **USB-ITPAK**

**USB** dongle

No.06ADV384

S.BCAT

Details about the

page 5.

usage environment are provided on

Use is only possible

with a computer

to which the USB

donale is connected.

#### **Major features**

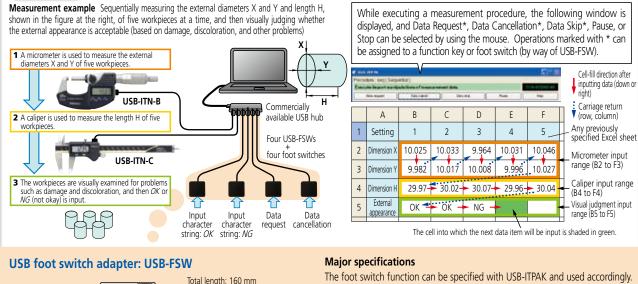
- Excel input settings: The input destination (a workbook, sheet, or cell), cell-fill direction (right or down), cell-fill interval, and other settings can be specified.
- Measurement method selection: Any of the following three methods can be selected: Sequential measurement, batch measurement, or individual measurement. (For details, see the measurement examples.)
- Data input control: Data can be requested, canceled, or skipped by using mouse buttons, function keys, or foot switch.
- Character string input by the USB foot switch adapter, USB-FSW: Any previously specified character string can be input using the foot switch. Examples: pass or fail
- Number of units that can be connected (total number for both USB-ITN and USB-FSW): Up to 20 units can be connected for Windows Vista or Windows 7, and up to 100 units can be connected for Windows 2000 or Windows XP. However, the above numbers might be less depending on the system configuration.
- Data importation time: About 0.2 to 0.3 seconds per unit. However, this value differs depending on the connected
- measuring instruments and measurement environment. Driver software: The VCP (virtual COM port) drivers for USB-ITN and USB-FSW are individually recognized using a built-in COM number. • Patent pending (Japan)

#### These types of measurement are made possible by using the USB-ITPAK optional software

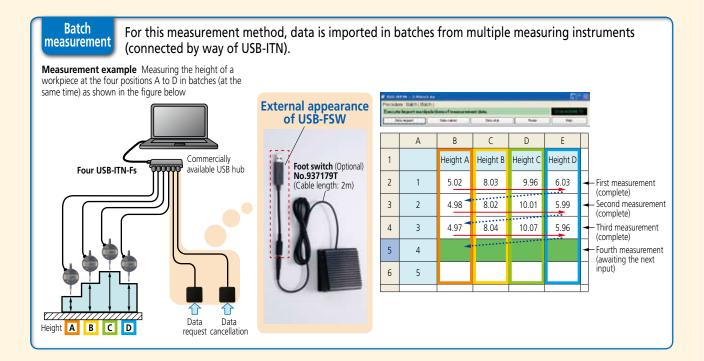
# Various measurement patterns are supported by the three measurement modes of USB-ITPAK. By also using the foot switch, data input and cancellation can be performed with a single button press.

# USB-ITPAK measurement examples

Sequential For this measurement method, one or more measuring instruments (connected by way of USB-ITN) are measurement used to sequentially input one data item at a time according to a procedure stored in advance.

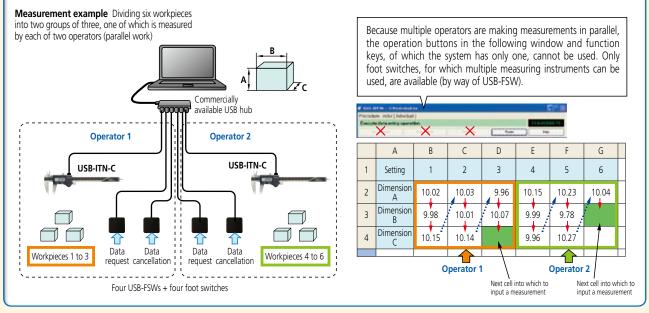


1 Data control: Data Request, Data Cancellation, and Data Skip 2 Inputting any character string: Examples - pass, fail, OK, NG



### Individual measurement

For this measurement method, multiple operators make random measurements, and then data is input from the corresponding measuring instruments (by way of USB-ITN) according to individually specified input procedures. • Patent pending (Japan)



#### Notes on using USB-ITPAK

• Do not merge the cells within the range of cells specified as input destinations for measurement data.

 During measurement, do not perform operations on the Excel sheet you are using other than data input work stored in the measurement procedure. To write data, the measurement Pause or Stop button must be clicked.

# Major specifications of USB Input Tool Direct

• Output specifications: • Mass: 59 g USB 2.0 or 1.1

12 Mbps (full speed)

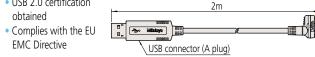
• Power supply:

USB bus power

• USB 2.0 certification • Communication speed: obtained

EMC Directive

Illustration (Example: USB-ITN-A)



Note: It is recommended to use a commercially available USB hub that has USB certification.

### USB-ITPAK usage environment

Windows 2000 SP4, Windows XP SP2 or later, Windows Vista, and Windows 7
Excel 2000, 2002, 2003, and 2007
At least 20 MB of free space (required for installation)
Required for installation
At least two ports (for the USB dongle and USB-ITN)
At least 800 x 600 pixels, and at least 256 displayable colors

64-bit operating systems are not supported.
The natural language selected in USB-ITPAK must be the same as that used in the operating system.

# Codes for the main measuring instruments classified according to the USB Input Tool Direct code, part number, and plug type

Determine the plug type suitable for your measuring instrument (one of the seven types from A to G) in the following table, and then select the corresponding USB Input Tool Direct.

Model	USB-ITN-A	USB-ITN-B	USB-ITN-C	USB-ITN-D	USB-ITN-E	USB-ITN-F	USB-ITN-G
Order No. Whether the existence	06ADV380A	06ADV380B	06ADV380C	06ADV380D	data switch so an instru	06ADV380F	06ADV380G
Whether the existence of a data switch affects usability	whether or not the measuring instrument has a switch.			Does not incorporate a data switch, so an instrument fitted with a switch is required in order to use the instrument alone. (However, the tool can be used with USB-ITPAK.)			
Cable type	A Water-proof with switch	B Water-proof with switch	<b>C</b> With switch	<b>D</b> 10-pin plain	E 6-pin round	<b>F</b> Straight type	<b>G</b> Water-proof straight type
Illustration of the plug that connects to the measuring instrument	Data switch	Data switch	Data switch				
Socket type on the measuring instrument	• • •			Bush		TITLE .	0 0
Codes of major compatible measuring instruments	[Digimatic Caliper /Super Caliper] -500 series CD67-S_PM CD-PMX/PM/GM -550/551 series CDC-P_PMX [Digimatic Carbon Fiber Caliper] -552 series CFC-G/GL/GC/GU [Digimatic Depth Gage] -571 series VDS-PMX [Digimatic Scale Unit] -572 series SD-G [Digimatic Exclusive Caliper] -573 series NTD-PMX/PM	[Digimatic Micrometer, QuantuMike] -2935eries MDC-MJ/MJB/MJT MDE-MJ [Tubular Inside Micrometer] -337 series IMZ-MJ -339 series IMJ-MJ [Digimatic Micrometer Head] -350 series MHN-MB/MJB/MJNB [Digimatic Exclusive Micrometer] (The end of the mark is- MJ/MJB/M/MB/PM/PMB) [Digimatic Holtest] -468 series HTD-R	[Digimatic Micrometer Head] -164 series MHD-MB [Digimatic Caliper] -500 series CD-CX/C/S_C - 550/ 551 CDC-C/CX, CDN-C/CX [Digimatic Depth Gage] -571 series VDS-DCX/DC [Digimatic Scale Unit] -572 series SD-D/SDV-D [Digimatic Exclusive Caliper] -573 series The end of the mark is -CX/C	[Surface Roughness Tester] -178 series SJ-201/210/301/ 400/500 [Coating Thickness Gage] -179 series DGE-745/755 [Linear Height] -518 series QMH-S [Reference Gage] -515 series HMD-C [Digimatic Indicator] -543 series ID-H [Laser Scan Micrometer] -544 series LSM-9506/6100/ 6200/6900 [µ-checker] Digital µ-checker (Using the foot switch)	ring instrument models [Digimatic Micrometer] -121 series BD -164 series MHD-M -227 series CLM -293 series MDQ-M MDC-M [Tubular Inside Micrometer] -337 series IMZ-M [Tubular Inside Micrometer] -339 series IMJ-M [Digimatic Holtest] -468 series HTD [Reference Gage] -515 series HME-DM [Borematic] -568 series SBM-C [Hardness Testing Machines] -810 series HM-100/200 HV-100/HH-411 HR-500 ring instrument models No corresponding models	[Digimatic Height Gage] -192/570/574 series HDM-A/AX, HD-A/AX HDS-H_C/C HDF-N [Digimatic Caliper] -500/550/551 series CD/CDC/CDN [Digimatic Bore Gage] -511 series CG-D [Digimatic Indicator] -543 seires ID-C_X/_RB/_GB [Digimatic Caliper] -543 seires ID-C_X/_RB/_GB [Digimatic Thickness Gage] -547 series Digimatic Caliper] -552 series CFC-P/-L/-C/-U [Digimatic Caliper] -572 series SD-F, SDV-F SD-F, SDV-F [Portable Hardness Testing Instruments] -811 series HH-300	[Digimatic Indicator] -543 series ID-N ID-B ID-B ID-B ID-B ID-B ID-B ID-B ID-B ID-N ID-B ID-N ID-B ID-N



Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this pamphlet, as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs, dimensions and weights. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. Only quotations submitted by ourselves may be regarded as definitive.

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