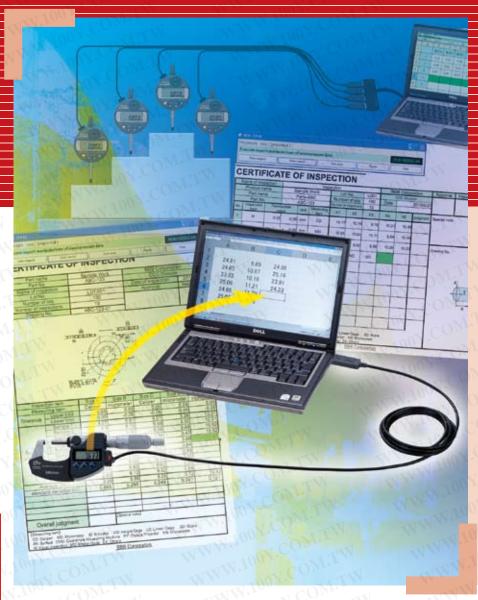
# Measurement Data Input Unit USB Input Tool Direct: USB-ITN



Catalog No.E4391

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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



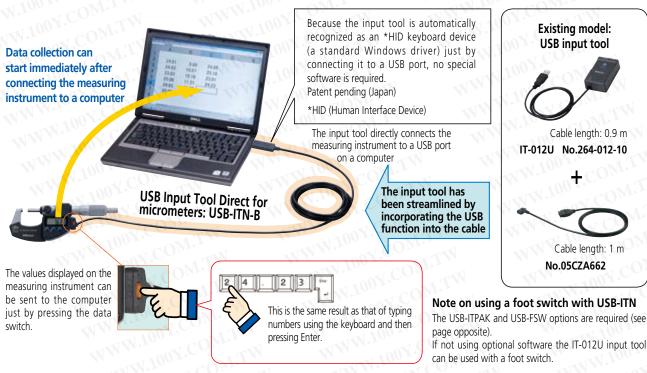


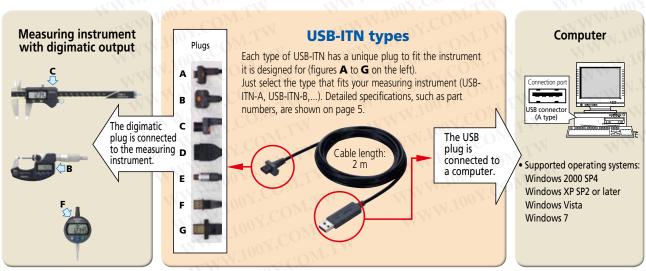
# **USB Input Tool Direct: USB-ITN**

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.







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#### 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**



Details about the usage environment are provided on page 5.

#### **USB** dongle



Use is only possible with a computer to which the USB dongle 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)



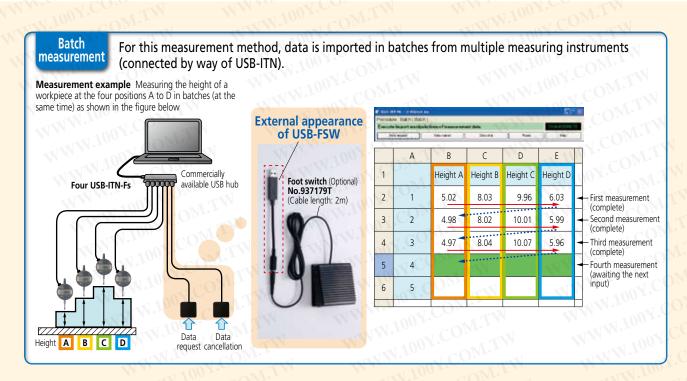
These types of measurement are made possible by using the USB-ITPAK optional software

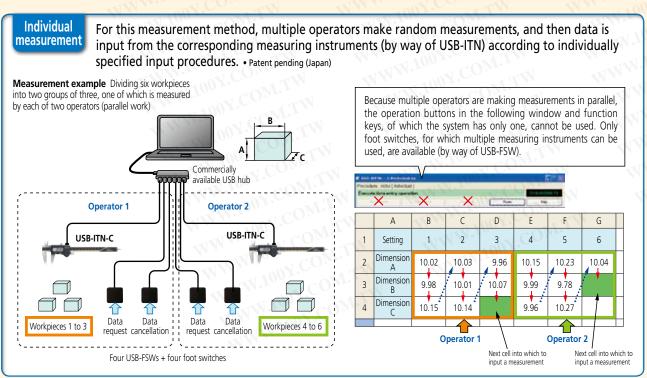
Various measurement patterns are supported by the three measurement modes of USB-ITPAK. By also using the foot switch, data input and cancellation can be performed with a single button press.

#### 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. Measurement example Sequentially measuring the external diameters X and Y and length H, While executing a measurement procedure, the following window is shown in the figure at the right, of five workpieces at a time, and then visually judging whether displayed, and Data Request\*, Data Cancellation\*, Data Skip\*, Pause, or the external appearance is acceptable (based on damage, discoloration, and other problems) Stop can be selected by using the mouse. Operations marked with \* can be assigned to a function key or foot switch (by way of USB-FSW). 1 A micrometer is used to measure the external diameters X and Y of five workpieces. Cell-fill direction after inputting data (down or USB-ITN-B Commercially Carriage return (row, column) Α D available USB hub 2 A caliper is used to measure the length H of five Any previously specified Excel sheet Setting 3 5 Four USB-FSWs 2 Dimension X 10.025 10.033 9.964 10.031 10.046 four foot switches Micrometer input USB-ITN-C range (B2 to F3) 3 Dimension \ 10.017 10.008 10.027 **3** The workpieces are visually examined for problems such as damage and discoloration, and then *OK* or *NG* (not okay) is input. Caliper input range 4 29.97 30.02 30.07 29.96 30.04 Dimension H (B4 to F4) External Visual judgment input range (B5 to F5) 5 OK ► NG appearance Input character Input character Data Data request cancellation The cell into which the next data item will be input is shaded in green. string: OK string: NG **Major specifications USB foot switch adapter: USB-FSW** The foot switch function can be specified with USB-ITPAK and used accordingly. Total length: 160 mm 1 Data control: Data Request, Data Cancellation, and Data Skip No.06ADV384 2 Inputting any character string: Examples - pass, fail, OK, NG

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#### 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: USB 2.0 or 1.1
- Mass: 59 g USB 2.0 certification
- Communication speed: 12 Mbps (full speed) Power supply:

USB bus power

- obtained Complies with the EU EMC Directive
- USB connector (A plug)

• Illustration (Example: **USB-ITN-A**)

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

# USB-ITPAK usage environment

Supported operating systems*	Windows 2000 SP4, Windows XP SP2 or later, Windows Vista, and Windows 7
Supported Excel versions	Excel 2000, 2002, 2003, and 2007
Hard disk	At least 20 MB of free space (required for installation)
CD-ROM drive	Required for installation
USB ports	At least two ports (for the USB dongle and USB-ITN)
Resolution	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

Model	USB-ITN-A	USB-ITN-B	USB-ITN-C	USB-ITN-D	USB-ITN-E	USB-ITN-F	USB-ITN-G
Order No.	06ADV380A	06ADV380B	06ADV380C	06ADV380D	06ADV380E	06ADV380F	06ADV380G
Whether the existence of a data switch affects usability	lncorporates a data switch, so the tool is usable regardless of 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 tuse the instrument alone. (However, the tool can be used with USB-ITPAK.)			
Cable type	A Water-proof with switch	<b>B</b> Water-proof with switch	<b>C</b> With switch	<b>D</b> 10-pin plain	<b>E</b> 6-pin round	F Straight type	<b>G</b> Water-proof straight type
Illustration of the plug that connects to the measuring instrument		Data switch	Data switch				
Socket type on the measuring instrument			•			Hite	0 0
Wire	[Digimatic Caliper	[Digimatic Micrometer,	[Digimatic	Measuring instrument models that incorporate a data switch			
	/Super Caliper] -500 series	QuantuMike] -293series	Micrometer Head] -164 series	[Surface Roughness Tester]	[Digimatic Micrometer] -121 series	[Digimatic Height Gage] -192/570/574 series	[Digimatic Indicator]
	CD67-S_PM	MDC-MJ/MJB/MJT	MHD-MB	-178 series SJ-201/210/301/	BD series	HDM-A/AX, HD-A/AX	-543 series ID-N
	CD-PMX/PM/GM	MDE-MJ	[Digimatic Caliper]	400/500	-164 series	HDS-H_C/C	ID-B
	-550/551 series	[Tubular Inside	-500 series	[Coating Thickness Gage]	MHD-M -227 series	HDF-N [Digimatic Caliper]	
	CDC-P_PMX CDN-P_PMX	Micrometer] -337 series	CD-CX/C/S_C - 550/ 551	-179 series DGE-745/755	CLM	-500/550/551 series	
	[Digimatic Carbon	IMZ-MJ	CDC-C/CX, CDN-C/CX	[Linear Height]	-293 series MDQ-M	CD/CDC/CDN [Digimatic Bore Gage]	ONE RELEASE
	Fiber Caliper]	-339 series	[Digimatic Depth Gage]	-518 series	MDC-M	-511 series	
	-552 series CFC-G/GL/GC/GU	[Digimatic Micrometer	-571 series VDS-DCX/DC	QMH-S	[Tubular Inside Micrometer]	CG-D [Digimatic Indicator]	
	[Digimatic Depth Gage]	Head]	[Digimatic Scale Unit]	[Reference Gage]	IMZ-M	-543 seires	1007.
	-571 series	-350 series	-572 series	HMD-C	[Tubular Inside Micrometer] -339 series	ID-C_X/_RB/_GB	. OUX.CO.
	VDS-PMX	MHN-MB/MJB/MJNB	SD-D/SDV-D	[Digimatic Indicator]	IMJ-M	[Digimatic Depth Gage/ Digimatic Thickness Gage]	N.Jos ~ CC
	[Digimatic Scale Unit] -572 series	[Digimatic Exclusive Micrometer]	[Digimatic Exclusive Caliper]	-543 series	[Digimatic Holtest] -468 series	-547 series	W.100 Y.
	SD-G	(The end of the mark is-	-573 series	[Laser Scan Micrometer]	HTD	Digimatic model ( <b>ID-CX</b> ) [Digimatic Carbon Fiber Caliper]	100X.C
	[Digimatic	MJ/MJB/M/MB/PM/PMB)	The end of the	-544 series	[Reference Gage] -515 series	-552 series	NW.10
Codes of major compatible	Exclusive Caliper] -573 series	[Digimatic Holtest] -468 series	mark is <b>-CX/C</b>	LSM-9506/6100/ 6200/6900	HME-DM	CFC-P/-L/-C/-U [Digimatic Scale Unit]	W.100 1
measuring	NTD-PMX/PM	HTD-R	WT	[µ-checker]	[Borematic] -568 series	-572 series	1003
instruments		NW.100	OM.	Digital µ-checker	SBM-C	SD-E, SDV-E SD-F, SDV-F	WWW.
			CM	(Using the foot switch)	[Hardness Testing Machines] -810 series	Portable Hardness	
			COL	MM	HM-100/200	Testing Instruments]	
		770	(SEE 1888)	WW	HV-100/HH-411 HR-500	-811 series HH-300	
	100	188		Measu	1110	that do not have a date	l a switch
		100	TWO	[Digimatic Indicator]	No corresponding	[Digimatic Indicator]	No corresponding
		MMM	ON.COM.	-543 series	models	-543 series	models
		WWW.11	TCOM.	ID-F		ID-C/S/C_A	
		7/1/	001.	[Linear Gage/Counter] -542 series		[Digimatic Depth Gage/ Digimatic Thickness Gage]	
		AM.		EF-PRH/ZR,		-547 series	
特力材	料 886-3-575	\$2170		EH-P/Z/S/D		Digimatic model ( <b>ID-C</b> )	

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EH-P/Z/S/D EB-P/Z/D

EC-D [Litematic] -318 series VL-A/AS/AH

Digimatic model (**ID-C**) -575 series ID-U



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