Measurement Data Management

Measurement Data Collection Software USB-ITPAK V3.0/V2.1

(IT-016U/IT-020U/USB-ITN/U-WAVE/DP-1VA LOGGER can be used to send the data to a Microsoft® Excel® worksheet.)

• USB-ITPAK V3.0/V2.1 creates a procedure to input data from gages equipped with Digimatic output to Excel spreadsheets via IT-016U, IT-020U, USB-ITN or U-WAVE. This optional software facilitates the daily inspection work for mass-produced products.

V2.1	V3.0	Function
/	1	Sequential measurement: Inserts measurement data into the inspection certificate (Excel)
/	/	Simultaneous measurement: Simultaneously collects measurement data from multiple measuring instruments mounted on a jig
1	1	Individual measurement: Collects measurement data of separately conducted inspections into a single PC
_	1	Simple measurement function: Automatically sorts measurement data and inserts the data into different columns in Excel
_	1 1	Setting of measuring instrument: Sets the calibration year and month, preset values, zero-setting, etc. for a measuring instrument
_	✓1	Measurement history: Records operators and measuring tools used in measurement data

Symbol: ✓1: Can be used only when connected with USB-ITPAK V3.0, ID-CNX/ID-FNX and USB-ITN-SF/IT-020U. ✓: Can be used —: Cannot be used Note 1: V3.0 can be downloaded from our website.

Note 2: For V3.0, features common with V2.1 can be used by purchasing V3.0 (06AGR543) and connecting a USB dongle to vour PC.

Main features of USB-ITPAK V3.0/V2.1

- Setting of Microsoft Excel input:
- Designation of where to input (workbook, worksheet, cell range), cursor move (right, down), and others.
- Selection of measuring method (3 modes available)
- 1) Seguential measurement 2) Simultaneous measurement 3) Individual measurement (refer to page 09-17 for details).
- · Control item and instruction at data input

Control item	Mouse operation	Function key	Foot switch + USB-FSW	Data switch when using U-WAVE	Data switch other than U-WAVE
Data output request	√ *1	√ *1	1	√ *2	✓
Data cancel	√ *1	√ *1	1	✓ Press and hold* ²	
Data skip	√ *1	√ *1	1		
Character input (example: OK or NG etc.)			✓ Pre-registered character strings		

- *1 Not available during individual measurement.
- *2 Not available during simultaneous measurement in the event driven mode.
- Number of connectable gages

Available devices	Maximum number of connection (total of (1), (2), and (3))	Others	
1) IT-020U/USB-ITN 2) USB-FSW	For Windows 2000/XP Up to 100 units*3	• Maximum registration (total of (1), (2), and (3)) 400 units	
3) U-WAVE-R Up to 100 gages connectable to each U-WAVE-R. U-WAVE-T ID: 00 to 99	For Windows Vista/7/8/8.1/10 Up to 20 units*3 (For U-WAVE-R , plus 100 per unit) in terms of available gages.	Control/identification of connecting gage VCP (Virtual COM port) Switch from HID to VCP for (1) and (2). The VCP driver software is supplied with USB-ITPAK.	

- Data loading time: when using IT-020U/USB-ITN, 0.2 s to 0.3 s per gage unit
 - **U-WAVE** event driven mode: 0.5 s data refresh interval
- **Timer input function** (only in simultaneous measurement) Input interval (time): 0.1 s*4 to 24 hours at maximum
- Measurement date/time display function (available in sequential and simultaneous measurements) The display format is subject to the setting of the Excel sheet.
- *3 The actual number can be less depending on the system configuration.
- *4 If a shorter time is set, a priority is given to the longer time compared with the actual communication time.

Optional Accessories for USB-ITPAK

USB Foot Switch Adapter USB-FSW

This USB adapter for connecting a PC is required when using the Foot Switch (937179T) in USB-ITN A dedicated VCP driver for this adapter is included in **USB-ITPAK**.

Main specification

- With **USB-ITPAK**, application of the foot switch can be set.
- Data control: "Data request", "Data cancel", "Data skip"
- Character string input (e.g. GO/NG, etc.)

Note: **USB-FSW** is used for installation of the VCP driver.

Foot Switch Adapter USB-FSW







Optional Accessories

Model	USB-ITPAK V3.0	USB-ITPAK V2.1	
Code No.	(USB dongle only)	06AFM386 (Software+USB dongle)	
Compatible OS (Windows)	Mindows 10 6/ bit only	Windows 2000 SP4 to Windows 10	
	Microsoft 265	Excel 2002, 2003, 2007, 2010, 2013, 2016, Microsoft 365	

Upgrading from V1.0/V2.0 is not supported.

USB-ITPAK V3.0



USB dongle



A USB dongle must be connected to the PC running the software

USB-ITPAK V2.1



USB dongle



connected to the PC running the software.

Operating environment

USB-ITPAK V3.0: Windows 10 (64 bit only)
USB-ITPAK V2.1:
Windows 2000 SP4
Windows XP SP2 or later
Windows Vista
Windows 7
Windows 8
Windows 8.1
Windows 10
USB-ITPAK V3.0:
2010, 2013, 2016
Microsoft 365
USB-ITPAK V2.1:
2002, 2003, 2007, 2010, 2013, 2016
Microsoft 365
USB-ITPAK V3.0:
Free space of more than 15 MB
USB-ITPAK V2.1:
Free space of more than 10 MB
For program installation*4
2 ports or more
USB-ITPAK V3.0:
1024×768, 256 colors or more
USB-ITPAK V2.1:
800×600, 256 colors or more

- *1 32-bit, 64-bit OS supported
 *2 Operation with Excel for MAC OS is not guaranteed.
 *3 A commercially available hub can be used.
- (USB certified product is recommended)
 *4 **V3.0** does not require a CD drive but does require an Internet connection for download.

Language support

- Operation language (15 languages)
 Japanese, English, German, French, Spanish, Italian, Czech, Swedish, Turkish, Polish, Hungarian, Russian, Korean, Chinese (traditional/simplified)
- Operation manual (PDF file) Japanese, English, German

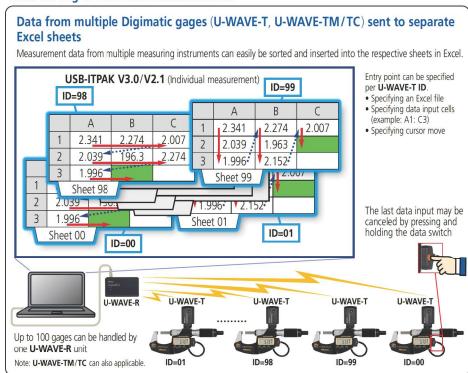
Code No.

Model	USB-FSW
Code No.	06ADV384

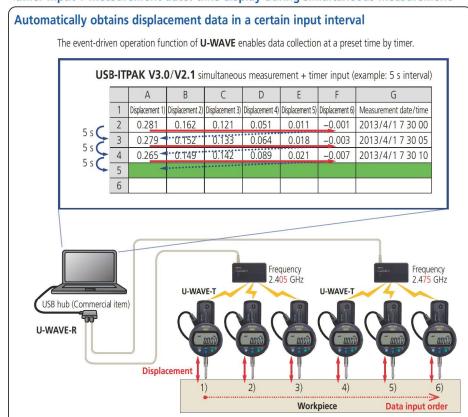


Example of measurement using the U-WAVE Series wireless communication system

<Data sorting of individual measurements>



<timer input + measurement date/time display during simultaneous measurement>



The input interval can be arbitrarily set by 0.1 seconds intervals up to 24 hours. If a smaller value than the data loading time is set, the actual measurement time will be the input interval. With **U-WAVE**, an error (no data) may occur if less than 0.5 seconds is set for the input interval. This is because the data request signal is issued before the data comes in, based on the event driven data refresh interval that is set to 0.5 seconds (fixed).

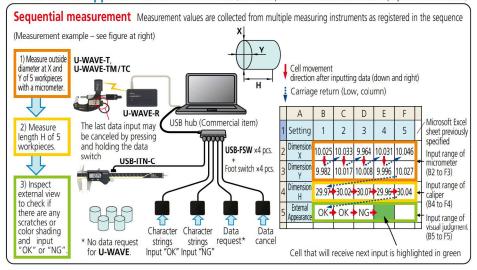


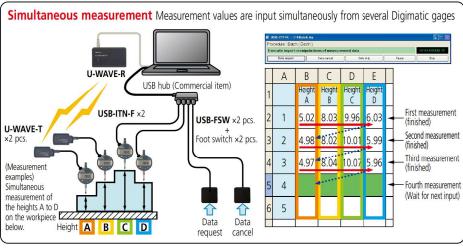
Measurement Data Management

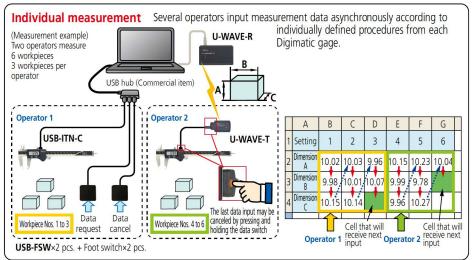
Measurement Data Management USB-ITPAK V3.0/V2.1 (IT-016U/IT-020U/USB-ITN/U-WAVE/DP-1VA LOGGER connectable)

A desired measurement sequence to collect data into Excel can be created by using USB-ITPAK with an input tool or U-WAVE.

Measurement applications of USB-ITPAK (Three examples of how USB-ITPAK can be deployed are shown below)







Notes on using USB-ITPAK V3.0/V2.1:

Do not merge the cells in the specified range as a measurement data input.

During measurement, the Microsoft Excel worksheet cannot be modified in any way apart from entering data. If you need to modify the sheet, it is necessary to abort or finish the measurement.

U-WAVE fit *Bluetooth*® and U-WAVE ZigBee cannot be used together.



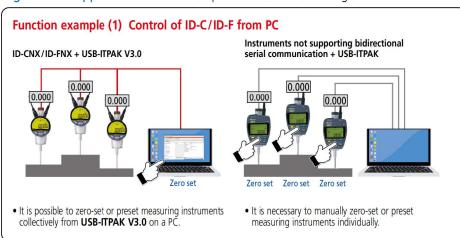
When a measuring procedure is executed, a window is displayed. "Data request*", "Data cancel*", "Data skip*", "Aborting", "Complete" can be specified.

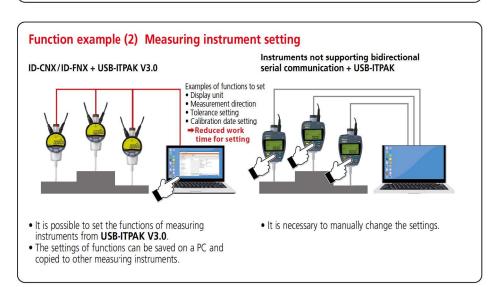
 These operations can be allocated to the function key or foot switch (via USB-FSW).

Bidirectional serial communication

With bidirectional serial communication (Digimatic S1) enabled measuring instruments, it is possible to use **USB-ITPAK V3.0** on a PC to control, configure, and collect information from the measuring instruments in addition to ordinary measurement data collection. This reduces labour and time for inspection and greatly increases efficiency.

Digimatic S1 applicable model Example of measurement using the ID-CNX/ID-FNX





Note: The above is possible only when bidirectional serial communication (Digimatic S1) enabled measuring instruments are used with USB Input Tool Direct or **IT-020U**. It is not possible with measuring instruments not supporting Digimatic S1 or **U-WAVE** Series.

