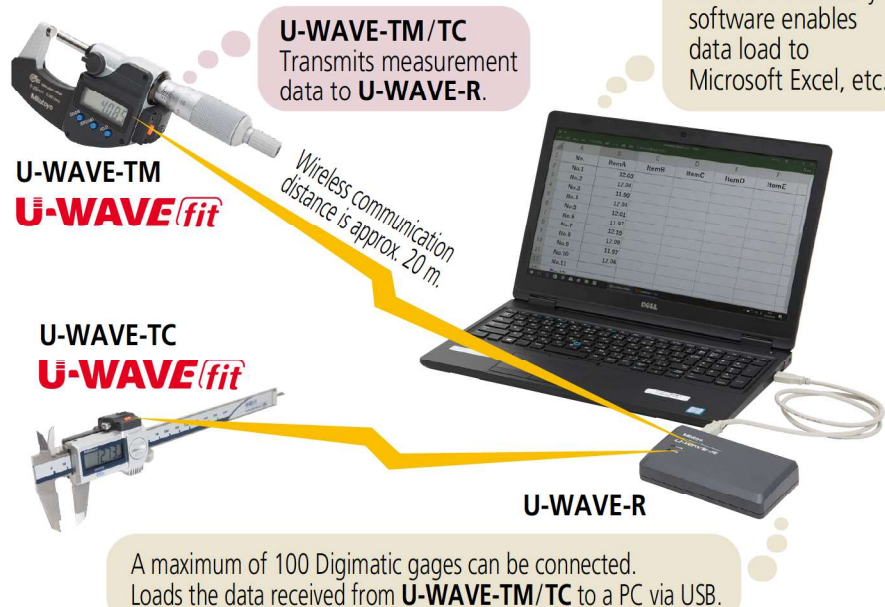


Measurement Data Wireless Communication System U-WAVE-TM/TC (U-WAVE fit)

- The system using our proprietary communication method features stable communication and low power consumption, resulting in improved work efficiency.
- Connecting the **U-WAVE-R** to the PC and starting **U-WAVEPAK** (software), enables data input to spreadsheets such as Excel, memo pad, etc.
- Up to 100 Digimatic gages can be registered to a single **U-WAVE-R**, and wireless communication distance is approx. 20 m. Therefore the measurement data can be managed centrally on the shop floor.
- The wireless system without cabling can keep the workplace tidy and increase workability during measurement.
- Installing the optional **USB-ITPAK V3.0/V2.1** software enables the use of Excel to improve measurement efficiency. It makes it possible to populate the data from multiple measuring instruments into separate spreadsheets or input the data collectively at the same time.

U-WAVE fit system configuration



U-WAVE-R

Model	U-WAVE-R
Code No.*	02AZD810D/02AZD810E/02AZD810F
Power source	USB bus power system
Number of U-WAVE-R units that can be connected to one PC	Up to 15
Number of U-WAVE-T units that can be connected	Up to 100
External dimensions (mm)	140×80×31.6
Mass (g)	130

* Code number differs depending on the destination country.

U-WAVEPAK software (standard accessory)

System Environment: Compatible OS
Windows 2000 Professional (SP4 or later)

Windows XP Home Edition (SP2 or later)

Windows XP Professional (SP2 or later)*

Windows Vista*, Windows 7*, Windows 8/8.1*

Windows 10*

Windows 11 Version 1022B or later

* 32-bit, 64-bit OS supported

<Versions confirmed operational on Windows 10>

- **U-WAVEPAK Version1.020** or later

Connectability confirmed for tablet PC

- Microsoft Surface Pro 6 (the version whose operation on Windows 10 Professional is confirmed)

- Required environment: DVD drive (required for installation), USB port ×2 ports or more

Note: Cannot be connected to a device other than a PC (such as **DP-1VA LOGGER**, sequencer etc.).

U-WAVEPAK software can be downloaded here.



U-WAVE-R main unit



USB2.0 cable (1 m) attached

U-WAVEPAK



U-WAVE-TM/TC (U-WAVE fit) System Communication Specifications

• Wireless communication

Wireless specifications	Original <based on IEEE802.15.4 (2.4 GHz)>
Wireless communication distance	Approx. 20 m (line of sight)
Wireless communication speed	250 kbps
Transmission output	2.5 mW (4 dBm) or less
Modulation method	DS-SS (Direct Sequence - Spread Spectrum) Resistant to interfering signals and noise
Communication frequency	2.405-GHz band (ISM band: Universal frequency)
Used band	15 channels (2.405 to 2.475 GHz at intervals of 5 MHz) The noise search function avoids interference with other communication devices.

Note: **U-WAVE-TM/TC** cannot be used outside the country where they were purchased.

Main specifications of U-WAVEPAK

- Setup of dedicated driver software (USB and virtual COM port)
- Initial setting of ID number and frequency selection (required only once for the first time)
- Load data to Microsoft Excel or Notepad through the data interface function

Product catalog
E12051



Video



Typical applications



U-WAVE-TM (264-622)



U-WAVE-TC (264-621)

Transmission unit



264-622



02AZF310



264-621



02AZF300

SPECIFICATIONS

IP67 type is resistant to water and dust ingress. Buzzer type notifies data reception by buzzer sound and LED.

Connectable measuring instruments	Micrometer		Caliper	
Code No.	264-622*	264-623*	264-620*	264-621*
Model	U-WAVE-TM (IP67 type)	U-WAVE-TM (Buzzer type)	U-WAVE-TC (IP67 type)	U-WAVE-TC (Buzzer type)
Protection Rating	IP67	N/A	IP67	N/A
Data reception indication	LEDs	Buzzer and LEDs	LEDs	Buzzer and LEDs
Power source	Lithium battery CR2032×1			
Battery life	Approx. 400,000 times continuous data transmission			
External dimensions (mm)	41.9×12.9×38.8		56×11.45×30.4	
Mass (g)	18			

Fixed to transmission unit and inserted into output connector of Digimatic gage.

Code No.	02AZF310	02AZF300
Protection level	IP67	N/A
Mass (g)	6	
Connectable transmission unit	U-WAVE-TM/TC (IP67)	U-WAVE-TC (for standard type)

Note 1: **02AZF310** ensures water-proof performance only when attached to measuring instruments of IP67 type.

For information on supported connecting units, please contact your local Mitutoyo sales office.

Note 2: Water-proof performance is ensured only when attached to measuring instruments of IP67 type.

Compatibility of measuring tool and unit

Digimatic gage	Assembled appearance (Front/Back)	Connecting unit	Transmission unit
Micrometer	Standard		264-623* U-WAVE-TM (buzzer type)
	Quantu-Mike		264-622* U-WAVE-TM (IP67 type)
Caliper	Standard		264-621* U-WAVE-TC (buzzer type)
	Coolant-proof type		264-620* U-WAVE-TC (IP67 type)
Digimatic indicator	ID-C, ID-F Series (new type only)		264-623* U-WAVE-TM (buzzer type) 264-622* U-WAVE-TM (IP67 type)
	Others	Connection cable Mounting bracket	02AZD880G/H/J* U-WAVE-T (buzzer type) 02AZD730G/H/J* U-WAVE-T (dust/water-proof type)

* To use this product, conformity to the applicable radio law in each country is required. Code number differs depending on the destination country. Please contact your nearest Mitutoyo sales office.