

## U-WAVE Bluetooth®

MeasurLink® ENABLED

Data Management Software by Mitutoyo

The Global Standard for Wireless Connection



SMALL TOOL INSTRUMENTS  
AND DATA MANAGEMENT



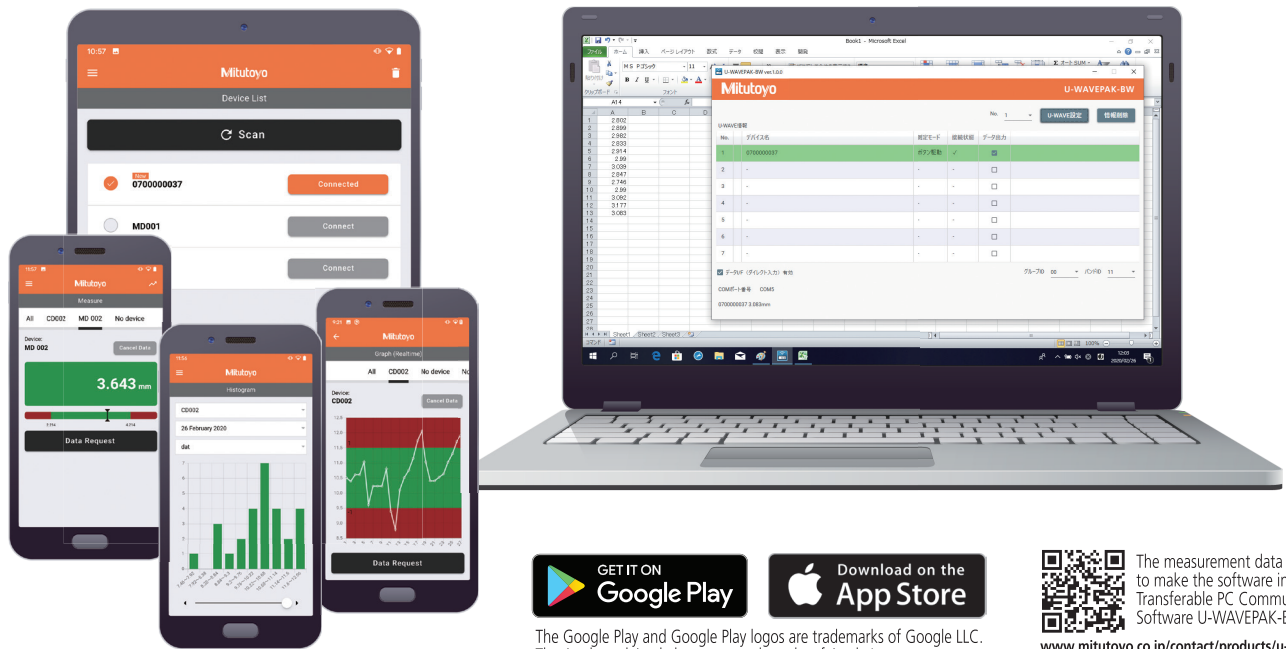
# U-WAVE Bluetooth®

## U-WAVE-TMB/TCB



The new U-Wave Bluetooth transmitter features:

- Now utilizes the popular Bluetooth 4.2 Low Energy Wireless Technology.
- This new Bluetooth version of U-Wave allows a simple connection to smartphones, tablets and Bluetooth enabled Laptops and PC's.
- The same low profile and ergonomic fit benefits of the U-Wave Fit.
- A buzzer type and IP67 type with dustproof and waterproof specifications are available.
- Up to 7 units can be connected to 1 Bluetooth enabled PC without a receiver.
- New U-WavePak BLE for Android, iOS and Windows available at no cost.



The measurement data is used to make the software in the pc Transferable PC Communication Software U-WAVEPAK-BW.

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[www.mitutoyo.co.jp/contact/products/u-wave/](http://www.mitutoyo.co.jp/contact/products/u-wave/)

U-WAVE-TMB



U-WAVE-TCB





## Benefits of using U-Wave Bluetooth Wireless Data Collection System



### No receiver required

Measurement data can be sent directly to a PC with Bluetooth®, Tablet or smartphone without a receiver.



### Cost reduction

Attach to the Digimatic output of an existing Mitutoyo instrument to keep the system costs down.



### Improved Efficiency

Input measurement data with one button. Eliminate the time and errors of handwritten recording.



### Centralized data

Electronic Collection enables data to be stored in one location allowing preventive management of defects.














### Easy data storage

Data can easily be sent to a smartphone or tablet allowing data to be collected in any environment.

# U-WAVE Bluetooth®

The new U-Wave Bluetooth transmitter utilizes a different wireless technology than the U-Wave and U-Wave Fit products. The specifications of each are detailed below. Please reach out to your local sales representative or [www.mitutoyo.com](http://www.mitutoyo.com) for more information about any of these products.

Specifications	U-Wave Bluetooth	U-Wave & U-Wave Fit
Wireless communication protocol	Bluetooth 4.2 Low Energy	Based on IEEE 802.15.4
Communication distance	Approx. 10 m (within visible range)	Approx. 20 m (within visible range)
Battery Life (CR2032)	200,000 Transmissions with U-WavePak-BM 50,000 Transmissions with U-WavePak-BW	400,000 Transmissions
Receiver Required	None	U-Wave-R
Data confirmation	Led or Buzzer(optional)	Led or Buzzer(optional)
Communication frequency	2.4 GHz	2.4 GHz
OS compatibility	U-Wavepak-BW supports Windows® 10 (32bit, 64bit) U-WavePak-BM supports IOS and Android	U-WavePak supports Windows® 2000 Professional (≥SP4), Windows® XP Professional (≥SP2), Windows® XP Home Edition (≥SP2), Windows Vista®, Windows® 7 (32bit, 64bit), Windows® 8, 8.1, 10 (32bit, 64bit)

		Connectors	Transmitters
For Micrometers	Standard Types  IP65	No.02AZF310 	U-WAVE-TMB* No.264-627 Buzzer Type 
	Waterproof-Proof Types  IP65		U-WAVE-TMB* No.264-626 IP67 
For Calipers	Standard Types 	No.02AZF300 	U-WAVE-TCB* No.264-625 Buzzer Type 
	Coolant-Proof Types  IP67	No.02AZF310 	U-WAVE-TCB* No.264-624 IP67 

\* U-WAVE-TMB / TCB can only be used in countries that have obtained wireless certification, including the country of purchase. For use in countries other than the country of purchase, please contact our nearest sales office. It is not compatible with the existing product U-WAVE fit because the communication specification is different.

# Mitutoyo



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Coordinate Measuring Machines

Vision Measuring Systems

Form Measurement

Optical Measuring

Sensor Systems

Test Equipment  
and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments  
and Data Management

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0420-00 • Printed in USA • April 2020