

U-WAVE BLUETOOTH®

MEASUREMENT DATA WIRELESS COMMUNICATION SYSTEM
U-WAVE NOW AVAILABLE WITH BLUETOOTH® WIRELESS TECHNOLOGY



Easy to Connect **U-WAVE** fit

Receiver-less Measurement Data Wireless Communication System

Allows direct measurement data transmission to smartphones, tablets and PCs.





U-WAVEPAK-BM (English version only), the communication software for transferring measurement data to smartphones and tablets is available at app stores for free download.







Available for download https://www.mitutoyo.eu/en us/downloads/software-and-updates

U-WAVEPAK-BW, the computer

is available for download from our

company's website.

communication software for transferring

measurement data to computer software,

Note1: This application operates with Windows Terminal for Windows 10 equipped with the Bluetooth wireless technology function. If your Windows Terminal does not have this function, please purchase a commercially available Bluetooth® receiver. Note2: We cannot quarantee the operation of this application and U-WAVE TCB/TMB with all Bluetooth equipped devices.



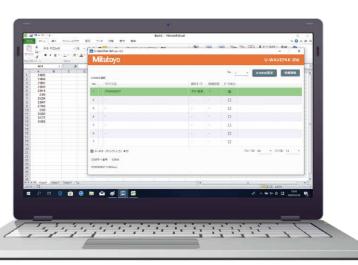
Manage Measurement Data Centrally and Wirelessly on a Smartphone, Tablet or PC

Mitutoyo Bluetooth® U-WAVE

U-WAVE-TMB/TCB

More compact and thinner for a better fit with Digimatic gages, and featuring improved operability and performance inherited from its predecessor, U-WAVE-TMB/TCB is now available with Bluetooth® wireless technology. No receiver is required, and one PC can conect up to seven units of Mitutoyo Bluetooth® U-WAVE. Dust/water-proof models are also available for (IP) 67 arduous shop floor usage.













Major Advantages of Introducing U-WAVE incorporating Bluetooth® wireless technology



a Receiver



Cost Reduction Effect



Higher Efficiency

operation! Since there is no need for Efficiency is greatly improved!



Data Management

ualization of quality" helps prever

Easy Data Saving

rtphones and tablets independently

You can use with confidence since it is labeled with the wireless certification number acquired in the country of purchase.

With Bluetooth® wireless technology for Easy **Pairing with Your Digimatic Micrometer or Caliper**

U-WAVE-TMB/TCB is compatible with most Digimatic micrometers and calipers.

Refer to our company's website for details on product compatibility. https://mitutoyo.eu/application/files/5615/5888/7972/PRE1494_U-WAVE-TM-TC.pdf



Digimatic micrometers





Digimatic calipers



Digimatic gage, connecting unit and transmitter combinations

		Assembled appearance	Connecting unit	Transmitter	
For micrometers	Standard	(P)65	02AZF310	U-WAVE-TMB buzzer type 264-627	
For micr	Water- proof type	(P) 65		U-WAVE-TMB IP67 type dust/water-proof 264-626 IP67	
For calipers	Standard		02AZF300	U-WAVE-TCB buzzer type 264-625	
For ca	Coolant- proof type	IP 67	02AZF310	U-WAVE-TCB IP67 type dust/water-proof 264-624 IP67	

Mitutoyo

Specifications

Transmitter (Refer to page 5 for combinations.)

Product name	U-WAVE-TMB (for D	igimatic micrometers)	U-WAVE-TCB (for Digimatic calipers)		
Model	U-WAVE-TMB (IP67 type dust/water-proof)	U-WAVE-TMB (buzzer type)	U-WAVE-TCB (IP67 type dust/water-proof)	U-WAVE-TCB (buzzer type)	
Order No.	264-626	264-627	264-624	264-625	
Protection level	IP67	N/A	IP67	N/A	
Data reception indication	LED	LED, buzzer	LED	LED, buzzer	
Power supply	Lithium battery CR2032×1				
Battery life Approx. 1 year under normal conditions of use, but			ns of use, but varies according to usage.		
Mass	18 g				
Appearance	Mitutoyo Lawrenters-trans det	Mfitutoyo	Mitotoyo	Milutoyo Lawrence Age	
External dimensions	12.		26 26 26	(mm)	

Connecting unit (Refer to page 5 for combinations.)

3						
Product name	Order No.	Protection level	Mass	Appearance	External dimensions	
Connecting unit (for dust/water-proof type)	02AZF310	IP67	6 g		27.15 (mm) (96) 27.15	
Connecting unit (for standard type)	02AZF300	N/A	6 g	1111	26.25 (mm) (96.1) 26.25	

Wireless Communication Specifications

	•		
Wireless communication	Bluetooth 4.2 Low Energy		
Wireless communication distance	Approx. 16 m (line of sight) Approx. 10 m (in a factory environment)		
Transmission output	3.2 mW (5 dBm) or less (Class2)		
Modulation method	FH-SS (Frequency-hopping spread spectrum)		
Communication frequency	2.4 GHz band		

Note 1: To use U-WAVE-TMB/TCB, conformity to the radio law of each country is required. Please contact your dealer or nearest Mitutoyo sales office.

Note 2: U-WAVE-TMB/TCB is not compatible with U-WAVE fit, for which communication specifications are different.



Refer to the U-WAVE fit Brochure (PRE 1493) for more details https://mitutoyo.eu/application/files/3115/5888/7972/PRE1493_U-WAVE_WEB.pdi

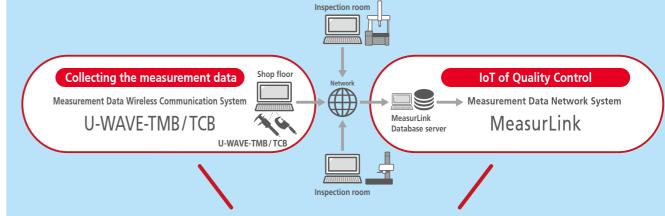
Optional Products

Application system for a PC

Product name	Model No.	Compatible OS: Windows	Compatible Excel version	Part No.	Appearance
USB-ITPAK	USB-ITPAK V2.1	10 (64 bit)	2016 (The operation with Excel for MAC OS is not guaranteed.)	06AFM386	Miladoyo MICAT To remain and rema

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





Achieve "Visualization of Quality"



With MeasurLink®

MeasurLink is an IoT platform for quality management that realizes "Visualization of Quality" by enabling real-time data collection from networked Digimatic gages and global control and analysis. U-WAVE supports MeasurLink as an infrastructure that collects and controls data.

Preventing defectives

network and performs statistical process control (SF to warn of possible generation of defectives.

Diagnosis by data analysis

Checking measurement results by accessing the data base and performing various analyses help investigate and resolve process performance concerns.

Simply start achieving IoT

In addition to conventional data storage, the network can be configured in steps to simply start IoT of Quality Control.

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Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



Find additional product literature and our copmplete catalog here.

www.mitutoyo.eu

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon. MITUTOYO is either registered trademark or trademark of Mitutoyo Corp. in Japan and/or other countries/ regions. Other product, company and brand names mentioned herein are for identification purposes only and may be the trademarks of their respective holders.



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