U-WAVEPAK-BW

Setup Manual

Read this Setup Manual thoroughly before using the application. After reading, retain it close at hand for future reference.



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Notice: Please make sure to confirm the following before installation

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Notice: About U-WAVE-TCB/U-WAVE-TMB and U-WAVEPAK-BW

-This application operates on Windows10/11. Please ensure to run it on a PC with Windows10/11 installed.

-This application can use the Bluetooth function that comes with the device. The terminal without Bluetooth function purchases commercial Bluetooth receiver, and please use it.

-This application and U-WAVE-TCB/U-WAVE-TMB do not guarantee the connection with all Bluetooth apparatuses.

% This application has been confirmed to work with windows10 Pro/windows11.

-When using a higher application such as USB-ITPAK, be sure to start this application before starting the higher application.

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1. Installation

- (1) Double-click on [uwavepakble_setup.exe]
- (2) Complete the installation following the installation guidance displayed on the window.

Note1

If "Driver not found" is displayed when launching the U-WAVEPAK-BW, install it using the following procedure.

① Restart your computer.(Do not uninstall the U-WAVEPAK-BW.)

② Start "VirtualComPortInstaller.exe" device in "DriverSetup" folder in "U-WAVEPAK-BW" folder(Initial setting "C:¥Program Files¥Mitutoyo¥U-WAVEPAK-BW").



Note2 : If the problem is not resolved by Note1.

If the method of Note1 does not solve the problem, there may be the following devices in "Device Manager".

Please uninstall the following devices, restart the PC, and then install U-WAVEPAK-BW again.

① Devices with "!" in "Other devices"



※ For devices related to "Virtual COM", "Hardware ID" is displayed on the "Properties" screen as shown below.

Unknown device Properties	×
General Driver Details Events	
Unknown device	
Property	
Hardware Ids	\sim
Root¥VirtualComBus	
OK Ca	ncel

② "System device" \Rightarrow "Mitutoyo U-WAVE Virtual Serial Bus"

· · · · ·	
🗸 🛅 Syst	em devices
1	ACPI Fan
	ACPI Fan
1	ACPI Fan
1	ACPI Fan
E /	ACPI Fan
	ACPI Fixed Feature Button
1	ACPI Power Button
E /	ACPI Processor Aggregator
1	ACPI Thermal Zone
E (Composite Bus Enumerator
1 H	High Definition Audio Controller
1 H	High precision event timer
🏣 I	Intel(R) 300 Series Chipset Family LPC Controller (Q370) - A306
1	Intel(R) Gaussian Mixture Model - 1911
I 1	Intel(R) Host Bridge/DRAM Registers - 3EC2
1 I	Intel(R) Management Engine Interface
1	Intel(R) PCI Express Root Port #9 - A330
1	Intel(R) Power Engine Plug-in
1	ntel(R) Serial IO GPIO Host Controller - INT3450
I 🛄	Intel(R) Serial IO I2C Host Controller - A368
i 🚛 🛙	intel(R) SMBus - A323
ii 1	ntel(R) SPI (flash) Controller - A324
i - 1	ntel(R) Thermal Subsystem - A379
1	Microsoft ACPI-Compliant System
	Microsoft Hyper-V Virtualization Infrastructure Driver
	Microsoft System Management BIOS Driver
	Microsoft UEFI-Compliant System
	Microsoft Virtual Drive Enumerator
	Microsoft Windows Management Interface for ACPI
	Microsoft Windows Management Interface for ACPI
	Microsoft Windows Management Interface for ACPI
I .	Microsoft Windows Management Interface for ACPI
	Microsoft Windows Management Interface for ACPI
	Microsoft Windows Management Interface for ACPI
	Microsoft Windows Management Interface for ACPI
	Mitutoyo U-WAVE Virtual Serial Bus
	Mitutoyo U-WAVE Virtual Serial Bus
	NDIS Virtual Network Adapter Enumerator
	numeric data processor

2. Setting up the U-WAVE-TCB/U-WAVE-TMB

2.1. How to connect the U-WAVE-TCB/U-WAVE-TMB to the U-WAVEPAK-BW

(1) Double-click on [U-WAVEPAK-BW] to run the application, U-WAVEPAK-BW.



The following window will be displayed, signaling the completion of the starting up of the application.

🗄 U-WAVEPAK-BW ver.1.0.0 — 🗆 🗙						
M	Mitutoyo U-wavepak-bw					
No. 1				U-WAVE Setting	Delete Information	
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1		-	•	-		
2		-	-	-		
3		-	-	-		
4		-				
5		-		-		
6		-	-	-		
7		-	-	-		
🖬 Data I/F (Direct input) enable Group ID 00 💌 Band ID 11 💌						
COM p	COM port number COM3					

(2) The maximum number of units of U-WAVE-TCB/U-WAVE-TMB to be set up is seven.To set up a U-WAVE-TCB/U-WAVE-TMB, click on a number in the table [U-WAVE Information].You can also select a number from the drop-down list at the top-right of the window.

🖹 U-WAVEPAK-BW ver.1.0.0 - 🗆 🗙						
Мітато по					AK-BW	
ILWAVE Information			No. 1	U-WAVE Setting	Delete Inf	ormation
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1		-	-	-		
2		-	-	-		
3		-	-	-		
4		-	-	-		
5		-	-	-		
6			-			
7		-	-	-		
☑ Data I/F (Direct input) enable Group ID 00 ▼ Band ID 11 ▼ COM port number COM3						

🖀 U-WAVEPAK-BW ver.1.0.0 — 🗆 X						
M	Mitutoyo U-wavepak-bw					
No. 1					Delete Information	
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1		-	-	-		
2		-	-	-		
3		-	-	-		
4		-	-	-		
5		-	-	-		
6			-	-		
7		-	-	-		
🗹 Dat	🗹 Data I/F (Direct input) enable Group ID 00 👻 Band ID 11 👻					
COM p	COM port number COM3					

(3) Click on the [U-WAVE Setting] button to open the setting window.



🗟 U-WAVE Setting	
🔅 U-WAVE Setting	
Detected U-WAVE	
	No. 1
	Device ID :
	Device name :
	Measurement mode : O Button driven
	O Event driven
	Memo :
	4
	Delete Information
	Decision Cancel

(4) Press the "Data" button (orange button) attached to the connection unit of the U-WAVE-TCB/U-WAVE-TMB. The LED of the U-WAVE-TCB/U-WAVE-TMB will flash in orange. After the U-WAVE-TCB/U-WAVE-TMB has been detected by the U-WAVEPAK-BW, its ID number will be displayed in the item [Detected U-WAVE].

🖹 U-WAVE Setting		×
U-WAVE Setting		
Detected U-WAVE		
060000019	No. 1	
	Device ID :	
	Device name :	
	Measurement mode : O Button driven	
	O Event driven	
	Memo :	1
		Ţ
	Delete Information	
Device decision	Decision	

Tips:

- The detected ID number can be found on the label stuck on the body of a U-WAVE-TCB/U-WAVE-TMB.
- If the U-WAVE-TCB/U-WAVE-TMB cannot be detected, press the "DATA" button again. There
 will be cases where it cannot be detected depending on the timing at which you press the
 button. If it is not still detected, turn off the Bluetooth communication of the OS, turn on the
 Bluetooth communication again, and try detection.
- -When the [U-WAVE Setting] window is open, the red LED of the U-WAVE-TCB/U-WAVE-TMB will either start flashing, or its buzzer will start beeping, regardless of whether the connection is successful or not.
- If a U-WAVE-TCB/U-WAVE-TMB has already been set up, its ID number will not be detected.
- If the U-WAVE-TCB/U-WAVE-TMB is connected to applications other than this application, its ID number will not be detected.

(5) Click on the detected ID number, and then click the [Device decision] button.

🗟 U-WAVE Setting	×
U-WAVE Setting	
Detected II-WAVE	
060000019	No. 1
	Device ID :
	Device name :
	Measurement mode : O Button driven
	 Event driven
	Memo : 🔹
•	Delete Information
Device decision	Decision Cancel

(6) Confirm that the ID number has shown up in the item [Device ID] at the right of the window, and then click on the [Confirm] button.

🗟 U-WAVE Setting	×
🔅 U-WAVE Setting	
Detected U-WAVE	
060000019	No. 1
	Device ID : 0600000019
	Device name : 0600000019
	Measurement mode :
	O Event driven
	Memo :
	Delete Information
Device decision	Decision Cancel

Tips:

- A device name can be changed voluntarily.
- Any message can be stored in the item [Memo].

(7) Make sure that the information for the U-WAVE-TCB/U-WAVE-TMB has shown up in the row of the number that you wish to set it to, and then press the "DATA" button (orange button) on the connection unit.

A successful connection will be indicated with the appearance of the mark " \checkmark " in the [Connection] box.

🖹 U-V	🗄 U-WAVEPAK-BW ver.1.0.0 - 🗆 X					
M	Мітитохо почалевание почалев					AK-BW
U-WA\	/E Information		No. 1 -	U-WAVE Setting	Delete Info	ormation
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1	060000019	060000019	Button driven	√		
2		-	-	-		
3		-	-	-		
4		-				
5		-				
6		-	-	-		
7		-	-	-		
🖉 Data I/F (Direct input) enable Group ID 00 💌 Band ID 11 💌						
COM p	COM port number COM3					

Tips:

- When the connection fails, press the "DATA" button again. There will be cases where the U-WAVE-TCB/U-WAVE-TMB cannot be detected depending on the timing you press the button.

(8) Press the "DATA" button on the connection unit again, and check if a measurement value can be transmitted.

If the value is displayed at the bottom-left of the window correctly, the setting up has been completed.

🖹 U-WAVEPAK-BW ver.1.0.0 — 🗆 🗙						
Мітато по						AK-BW
U-WA	/E Information		No. 1	U-WAVE Setting	Delete Info	ormation
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1	060000019	060000019	Button driven	\checkmark		
2		-	-	-		
3		-				
4		•		-		
5						
6		-		-		
7		-	-	-		
🖉 Data I/F (Direct input) enable Group ID 00 💌 Band ID 11 💌						
COM 06000	COM port number COM3 060000019 32.14mm					

Tips:

In the period immediately after setting up the U-WAVE-TCB/U-WAVE-TMB, there will be cases where measurement values cannot be transmitted even if the connection is successful. If such a case occurs, please send the measurement values again after a gap of a few seconds.

2.2. How to disconnect the U-WAVE-TCB/U-WAVE-TMB from the U-WAVEPAK-BW

When you wish to disconnect the U-WAVE-TCB/U-WAVE-TMB from this application, double-click on the mark " \checkmark " in the appropriate box in the "Connection" column. In order to establish a connection again, press the "DARA" button on the connection unit.

🖹 U-V	VAVEPAK-BW ver.1.0.0)			-	□ ×
M	litutoyo				U-WAVEP	AK-BW
U-WA\	/E Information		No. 1 -	U-WAVE Setting	Delete Inf	ormation
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1	060000019	060000019	Button driven	√		
2		-	-	-		
3		-	-	-		
4		-	-	-		
5		-	-			
6		-	-	-		
7		-	-			
🗸 Dat	ta I/F (Direct input) er	able		Group ID 00	▼ Band ID	11 -
COM p	port number COM3	8				

Tips:

If the mark " \checkmark " in the "Connection" column does not disappear even a few seconds after double-clicking it, please double-click it again.

Note:

-With the U-WAVE-TCB/U-WAVE-TMB connected via Bluetooth, the battery power will be consumed even if you are not using it. In the case that you will not use it for a long time, please store it with the Bluetooth connection disconnected.

-Measurement data is not sent when communication is reconnected. When you are reconnected, you confirm that measurement data is input into a terminal by all means, and please use it.

3. Inputting measurement values

(1) In order to transfer measurement values received from the U-WAVE-TCB/U-WAVE-TMB to an Excel spreadsheet and the like, put the mark " \checkmark " in the "Data I/F (Direct input) enable" box.

(2) Measurement values received from the U-WAVE-TCB/U-WAVE-TMB can be transferred to an Excel spreadsheet and the like, only when the corresponding "Data out" box has been checked.

🔠 U-V	VAVEPAK-BW ver.1.0.0)			-	□ ×						
M	Мітитохо п-малерак-вм											
U-WA\	/E Information		No. 1 -	U-WAVE Setting	Delete Infor	rmation						
No.	Device ID	Device name	Measurement mode	Connection status	Data output							
1	060000019	060000019	Button driven	√								
2		-	-	-								
3			-	-								
4		-	-	-								
5		-	-	-								
6		-	-	-								
7		-	-	-								
🗹 Dat	🔽 Data I/F (Direct input) enable Group ID 00 👻 Band ID 11 👻											
COM p	COM port number COM3											
06000	00019 32.14mm					060000019 32.14mm						

(3) When you wish to input measurement values in an Excel spreadsheet, activate cells in the spread sheet, and then send the measurement values from the U-WAVE-TCB/U-WAVE-TMB with the keyboard input mode enabled.

Tips:

- "Data I/F (Direct input) enable" and "Data out" is enabled in the initial settings.

- Received measurement values can be transferred to an Excel spreadsheet only with the keyboard input mode enabled.

- If the measurement mode is set to [button-driven], measurement values can be sent by pressing the [DATA] button of the connection unit.

-If the measurement mode is set to [event-driven], this application outputs a measurement value in response to a data request from higher-level application software.

4. Measurement modes

-In the case of the [button-driven] mode,

If you press the [DATA] button on the connection unit once, the U-WAVE-TCB/U-WAVE-TMB will then send a measurement value once.

-In the case of the [event-driven] mode,

The U-WAVE-TCB/U-WAVE-TMB automatically sends a measurement value every 0.5 seconds, when the measurement value of the measurement tool (connected to the U-WAVE-TCB/U-WAVE-TMB) changes.

This application keeps the latest received measurement value and sends the latest measurement value in response to a request from higher-level application software and the like.

Tips:

In the [event-driven] mode, the battery power drains faster than in the [button-driven] mode because more frequent communication occurs.

5. Editing the settings

5.1. Modifying the settings

If you wish to change the settings information of a U-WAVE-TCB/U-WAVE-TMB set up in this application, please follow the procedure below.

(1) Double-click on the corresponding number for the information to which you wish to make changes in the table [U-WAVE Information] or select the number from the drop-down list at the top-right of the window. Then click on the [U-WAVE Setting] button.

🖹 U-V	VAVEPAK-BW ver.1.0.0)				_	
M	litutoyo				l	J-WAVEP	AK-BW
	/E Information			No. 1	U-WAVE Setting	Delete Inf	ormation
No.	Device ID	Device name		Measurement mode	Connection status	Data output	
1	060000019	060000019		Button driven	√		
2	070000022	070000022		Button driven	√		
3		-		-	-		
4		-		-	-		
5		-		-	-		
6		-		-	-		
7		-		-	-		
🗸 Dat	ta I/F (Direct input) er	able			Group ID 00	▼ Band ID	11 -
COM p	oort number COM3	3					
06000	00019 32.14mm						
	🗟 U-WAVE	E Setting				×	
	Detected U	J-WAVE					
			No. 1				
			Device ID : 06000	00019			
			Device name : 060	0000019			
			Measurement mode	 Button driven 			
			Mamai	 Event driven 			
			Mento .			T	
						Ť	
				Delete Inforr	nation		
				Decision	Cancel		

(2) Change the settings information.

When having finished the change, click on the [Decision] button.

🗟 U-WAVE Setting			×		
U-WAVE Setting					
Detected U-WAVE					
	No. 1				
	Device ID : 0600000019				
	Device name :	U-WAVE-TCB1			
	Measurement m	ode : O Button driven			
		Event driven			
	Memo :	U-WAVE-TCB1	\hat{T}		
			_		
			4		
		Delete Information			
Device decision		Decision Cancel			

Items to be	Contonto				
changed	Contents				
Device name	Change the device name.				
Measurement	Select either the [button-driven] mode or the				
mode	[event-driven] mode.				
Memo	Change the contents written here				
Delete	Delete the information of the selected				
information	U-WAVE-TCB/U-WAVE-TMB				

Tips:

There are cases where units of U-WAVE-TCB/U-WAVE-TMB which are not currently registered can be detected during the changing of information.

(3) Confirm that the changed settings information is successfully reflected in the [U-WAVE Information] window.

🔠 U-V	🔄 U-WAVEPAK-BW ver.1.0.0 — 🗆 X							
Міtutoyo и-wavерак-ви						K-BW		
U-WA\	/E Information		No. 1 👻	U-WAVE Setting	Delete Infor	mation		
No.	Device ID	Device name	Measurement mode	Connection status	Data output			
1	060000019	U-WAVE-TCB1	Event driven	\checkmark				
2	070000022	070000022	Button driven	√	\checkmark			
3		-	-	-				
4		-		-				
5		-		-				
6		-	-	-				
7		-	-	-				
🗹 Dat	ta I/F (Direct input) er	lable		Group ID 00	- Band ID	11 -		
COM p	COM port number COM3							
U-WA\	U-WAVE-TCB1 33.79mm							

Tips:

-If you have changed the measurement mode, please follow the instructions below:

From the [button-driven] mode to the [event-driven] mode: Change the measurement value in the measuring tool connected to the U-WAVE-TCB/U-WAVE-TMB.

From the [event-driven] mode to the [button-driven] mode: Press the [DATA] button on the connection unit of the U-WAVE-TCB/U-WAVE-TMB.

5.2. Deleting the settings

If you wish to delete the settings information of the U-WAVE-TCB/U-WAVE-TMB set up in this application, follow the procedure below.

-Delete the settings information from the [U-WAVE Information] window

(1) Double-click on the corresponding number for the information you wish to delete in the table [U-WAVE Information] or select the number from the drop-down list at the top-right of the window. Then click on the [Delete Information] button

🔠 U-W	🖹 U-WAVEPAK-BW ver.1.0.0 — 🗆 🗙						
Мітитоуо и-wavepak-bv						AK-BW	
U-WAV	/E Information		No. 1	U-WAVE Setting	Delete Infe	ormation	
No.	Device ID	Device name	Measurement mode	Connection status	Data output		
1	060000019	U-WAVE-TCB1	Event driven	√			
2	070000022	070000022	Button driven	√			
3		-	-	-			
4			-				
5		-					
6		-	-				
7			-				
COM p U-WAV	Image: Second						

(2) After the dialog [Delete of registration information] has shown up, click on the [OK] button to delete the settings information.





🔒 U-V	🖀 U-WAVEPAK-BW for Windows ver.0.9.0 - 🗆 X						
Мітитохо п-малерак-ви						U-WAVEPAK-BW	
U-WAV	/E情報		١	No. 1	• U-V	VAVE設定 情報削除	
No.	デバイスID	デバイス名	測定モード	接続状態	データ出力		
1		-	-	-			
2	070000023	070000023	ボタン駆動		Y		
3		•	-	-			
4		-	-	-			
5			-	-			
6		-	-	-			
7		-	-	-			
✓ デー	ダループロ 00 ▼ パンドロ 11 ▼ パンドロ 11 ▼						
СОМЛ	(-卜番号 COM3						

-Delete the settings information from the [U-WAVE Setting] window

(1) Double-click on the corresponding number for the information you wish to delete in the table [U-WAVE Information] or select the number from the drop-down list at the top-right of the window. Then click on the [U-WAVE Setting] button

🔒 U-V	VAVEPAK-BW ver.1.0.0)			– 🗆 X	
M	litutoyo				U-WAVEPAK-BW	
U-WA\	/E Information		No. 1	U-WAVE Setting	Delete Information	
No.	Device ID	Device name	Measurement mode	Connection status	Data output	
1	060000019	U-WAVE-TCB1	Event driven	√		
2	070000022	070000022	Button driven	1	M	
3			-	-		
4		-	-	-		
5		-	-	-		
6		-	-	-		
7		-	-	-		
Dat	ta I/F (Direct input) er	nable		Group ID 00	- Band ID 11 -	
COM p	COM port number COM3					
U-WA\	U-WAVE-TCB1 33.79mm					

(2) Click on the [Delete Information] button in the [U-WAVE Setting] window.

🗟 U-WAVE Setting	×
🔅 U-WAVE Setting	
Detected U-WAVE	
	No. 1
	Device ID : 0600000019
	Device name : U-WAVE-TCB1
	Measurement mode : O Button driven
	Event driven
	Memo : U-WAVE-TCB1
	4
	Delete Information
Device decision	Decision Cancel

(3) After the dialog [Delete of registration information] has shown up, click on the [OK] button to delete the settings information.





🗟 U-V	VAVEPAK-BW ver.1.0.0)			-	□ ×	
M	litutoyo			1	U-WAVEP	AK-BW	
U-WA	/E Information		No. 1	U-WAVE Setting	Delete Infe	ormation	
No.	Device ID	Device name	Measurement mode	Connection status	Data output		
1		-	-	-			
2	070000022	070000022	Button driven	\checkmark			
3		-	-	-			
4		-	-	-			
5		-	-	-			
6			-	-			
7			-	-			
🗹 Dar	✓ Data I/F (Direct input) enable Group ID 00 ▼ Band ID 11 ▼						
COM J	COM port number COM3 U-WAVE-TCB1 33.79mm						

6. Setting the connection to a higher-level application software (MeasurLink, ITPAK, etc.)

When using a higher application such as USB-ITPAK, be sure to start this application before starting the higher application. If you do not start this application, the upper application software may not operate.

```
USB-ITPAK cannot be used together with U-WAVEPAK-BW and U-WAVEPAK (U-WAVE-R).
When using USB-ITPAK with U-WAVEPAK (U-WAVE-R), uninstall U-WAVEPAK-BW.
```

To use this application with higher-level application software, please change the following numbers and IDs to be the same between this application and the higher-level application software.

Port number: Match the Port number of the higher-level application software to [COM port number] displayed at the bottom-left of this application's window.

Channel ID: Match the Channel ID of the higher-level application software to the number equal to the number in the table [U-WAVE Information] minus 1.

*Example: In the case that the number in the table [U-WAVE Information] is 1, the channel number will be 00 (Channel ID = 00)

Group ID: Change the Group ID displayed at the bottom-right of the window of this application to the same value as that of the higher-level application software.

Band ID: Change the Band ID displayed at the bottom-right of the window of this application to the same value as that of the higher-level application software.

🗟 U-V	🗏 U-WAVEPAK-BW ver.1.0.0 — 🗆 🗙						
M	litutoyo				U-WAVEP	AK-BW	
U-WA	/E Information		No. 1 -	U-WAVE Setting	Delete Info	ormation	
No.	Device ID	Device name	Measurement mode	Connection status	Data output		
1	060000019	060000019	Button driven	√			
2		-	-	-			
3		-	-	-			
4		-	-	-			
5		-	-	-			
6		-	-	-			
7		-	-	-			
🗹 Da	ta I/F (Direct input) er	able		Group ID 00	▼ Band ID	<u>11</u>	
COM	COM port number COM3						
06000	000019 32.14mm						

7. How to uninstall U-WAVEPAK-BW

If you wish to uninstall the U-WAVEPAK-BW set up in this PC, follow the procedure below.

(1) Please select this $[Windows Settings] \rightarrow [Apps].$

Settings								-	×
				Wind	ows Settir	igs			
				Find a setting		م			
	旦	System Display, sound, notifications, power		Devices Bluetooth, printers, mouse		Phone Link your Android, iPhone		Network & Internet Wi-Fi, airplane mode, VPN	
	É	Personalization Background, lock screen, colors		Apps Uninstall, defaults, optional features	8	Accounts Your accounts, email, sync, work, other people	A.₹	Time & Language Speech, region, date	
	Ģ	Ease of Access Narrator, magnifier, high contrast	۵	Privacy Location, camera	C	Update & Security Windows Update, recovery, backup	Q	Search Language, permissions, history	

② Please uninstall **[U-WAVEPAK-BW]** in the **[Apps & features]**.

← Settings			-
ය Home	Apps & features		
Find a setting $ ho$	sakura editor(サクラエディタ)	5.33 MB 2019/02/01	
Apps	Skype Skype	28.3 MB 2019/11/19	
IE Apps & features	Snip & Sketch	16.0 KB	
E Default apps	Sticky Notes	1.83 MB	
印 Offline maps	Microsoft Corporation	2019/10/15	
D Apps for websites	Y Tips Microsoft Corporation	16.0 KB 2019/11/19	
III Video playback	U-WAVEPAK Ver1.0	9.08 MB 2019/10/01	
[□] _† Startup	U-WAVEPAK-BW	6.73 MB 2019/11/13	
	1.0.0		
		Modify Uninstall	
	Voice Recorder Microsoft Corporation	16.0 KB 2019/11/19	
	VP9 Video Extensions Microsoft Corporation	16.0 KB 2019/11/19	
	Weather Microsoft Corporation	16.0 KB 2019/09/12	
	Web Media Extensions Microsoft Corporation	16.0 KB 2019/11/19	
	Webp Image Extensions Microsoft Corporation	16.0 KB 2019/11/19	
	Xbox Console Companion Microsoft Corporation	16.0 KB 2019/11/19	

③ Click on the windows mark at the bottom left of the screen. Select the 『Device Manager』 in the item.



Right-click 『Mitutoyo U-WAVE Virtual COM Port』 in the 『Ports(COM & LPT)』.
 Select the 『Uninstall device』 and delete it.

å 0	vice Manager		-	×
File	Action View Help			
(n n) 📰 🖹 📓 📰 🖳 🖳 💺 🗙 💿			
× .8	W01460			
>	Audio inputs and outputs			
>	Bluetooth			
>	Computer			
>	Disk drives			
>	🕎 Display adapters			
>	Firmware			
>	Human Interface Devices			
>	Keyboards			
>	Mice and other pointing devices			
>	Monitors			
_	Network adapters			
~	Ports (COM & LPT)			
	Mitutovo U-WAVE Virtual COM Port (COM ^{***})	Haddan datum		
	ᇦ 通信ボート(COM1)	Opdate driver		
>	🚍 Print queues	Disable device		
>	Processors	Uninstall device		
>	Security devices	0.01.1		
>	Software components	Scan for hardware changes		
>	Software devices	Properties		
>	🐐 Sound, video and game controllers 🛛 🛁	•	1	
>	Storage controllers			
>	🏣 System devices			
>	◆ UCMクライアント			
>	Universal Serial Bus controllers			

8. Revision History

Issue Date	Edition Number
Nov 7, 2019	First Edition
Apr 30, 2020	Revision 1
Jun 5, 2020	Revision 2
Sep 30, 2020	Revision 3
Aug 1, 2024	Revision 4

SERVICE NETWORK

Refer to the following URL. <u>https://www.mitutoyo.co.jp/eng/corporate/network/overseas/index.html</u>