

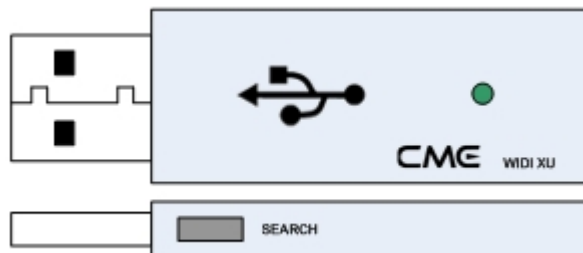


Wireless MIDI Interface User's Manual

Model : WIDI-XU



Read "Precautions" on page 5 before use



Please read this manual carefully before use.
Please keep this manual for reference.

Special Message Section

This product utilizes batteries or an external power supply (adapter). Do NOT connect this product to any power supply or adapter other than the one described in the manual, on the product, or specifically recommended by CME.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over the power or the connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, make sure that the cord has the ability to handle the maximum current needed by this product. Please consult a local electrician when possible.

This product should be used only with the components supplied or recommended by CME. When used with any components, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, CME reserves the right to change or modify any of the specifications, without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker(s), may be capable of producing sound levels that could cause permanent hearing loss. Do NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some CME products may have stands and/or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that stands are stable and any optional fixtures (where applicable) are well secured BEFORE using.

Stands supplied by CME are designed for the respective products only. No other uses are recommended.

NOTICE:

Service charges, incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed), are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

CME strives to produce products that are both user safe and environment friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new ones, or with batteries of different types. Batteries MUST be installed correctly. Mismatches of incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose the used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries, in your area, for battery disposal information.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact CME directly.

FCC WARNING:

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by CME may void your authority, granted by the FCC, to use the product.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

The above statements apply **ONLY** to those products distributed in the USA.

PRECAUTIONS

IMPORTANT

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, damages, fire or other hazards. These precautions include, but are not limited to, the follows:

- 1、 Read and understand all the instructions.
- 2、 Always follow the instructions on the instrument.
- 3、 Before cleaning the instrument, always remove the electric plug from the outlet as well as the USB cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turps or any other organic solutions; do not use liquid cleaner, spray cleaner or too wet cloth.
- 4、 Do not use the instrument near water or moisture, such as bathtub, washbasin, washing pool in the kitchen or similar places.
- 5、 Do not place the instrument in an unstable position where it might accidentally fall over.
- 6、 Do not jam sinks or holes of the instrument; those sinks or holes are used for air circulation to prevent the instrument from overheating. Do not place the instrument near heat sink or any places with poor air circulation.
- 7、 Do not place anything on the power cord. Make sure the power cord is set on a safe place, so nobody will step on it and no body will trip over it.
- 8、 Do not overload the outlet and the AC cable to avoid fire or electrical shock.
- 9、 Do not insert anything in the instrument, which may cause fire or electrical shock. Do not splash any kind of liquid to the instrument.
- 10、 Do not disassemble the instrument in case of accidental electrical shock.
- 11、 Always take the instrument to a qualified service center in need of repair. You will cause yourself in danger if you open or remove the cover, and improper assembly may cause electrical shock in the future use.
- 12、 Unplug all the connectors and take the instrument to a qualified service center if anything in the below listed happens:
 - (1) The power cord or connector get hurt or worn out.
 - (2) Any liquid get in the instrument.
 - (3) The instrument gets rain or water splash.
 - (4) The instrument dose not work properly after following all the instructions regarding to the trouble shootings.
 - (5) The instrument falls down or gets broken.
 - (6) The instrument functions poorly.

Do not connect the instrument when thundering.

Do not set up the cord or outlet to a moist place, except for that the outlet is specially designed for moist places.

When the power cord is connected to the AC outlet, do not touch the naked part of the cord or the connector.

Always follow the instructions carefully when setting up the instrument.

Do not expose the instrument to rain or moisture, to avoid fire or electrical shock.

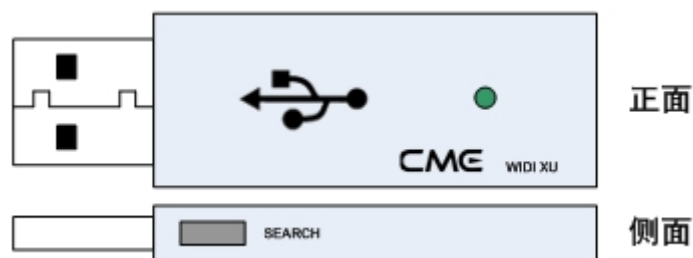
Other precautions:

- Keep the instrument away from electrical interface sources, such as fluorescent light and electrical motors.
- Keep the instrument away from dust, heat and vibration.
- Do not expose the instrument to sunlight.
- Do not place heavy objects on the instrument; do not place containers with liquid on the instrument.
- Do not touch the connectors with wet hands
- Central Music Co. is not responsible for any damage or data loss caused by improper operation to the instrument.
- All the pictures and the LED display in the manual are used for demonstration; they may be different from the real instrument.

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1 Features



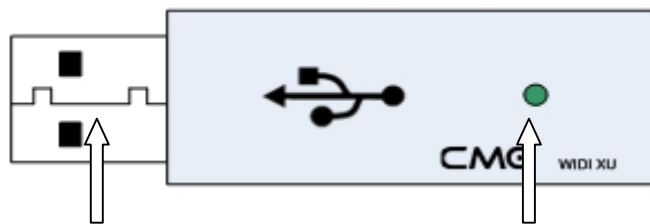
- Professional WIDI products with all the function.
- The working band is 2.4GHz ISM.
- 64 radio channels for MIDI data receiver, with manual or automatic radio channel setting mode.
- Manual switching for one-to-multi communication (auto searching and selecting).
- Compatible with WIDI-X8 and other WIDI devices.
- RF⇒USB data route.
- USB class compliant for Win XP/ Vista and Mac OS X, supporting hot plug
- When connected to computer via USB, this product will be automatically recognized as the “USB Audio Device”, fully support MIDI data stream, compatible with Cakewalk, Sonar, Cubase etc.
- USB power supply.
- Indicator for both signal and power.
- Low power consumption, high speed, powerful error correction with automatic notes-off and on-line detection. .
- Maximum wireless receive distance is 80m (262 feet) without obstacle.
 - **RF means wireless transfer (Radio frequency)**
 - **Specifications and appearance are subject to change without notice.**

2 System requirement

- WIDI-X8 or other WIDI device

- GM compatible sound card or other tone generator
- Computer with 366MHz or faster with available MIDI ports or USB port
- Win XP/ Vista or Mac OS X
- Cakewalk or other music software
- The less obstacles, the better performance
- Avoid using blue teeth or other RF device to minimize interference

3 Operation



Parts name:

USB

Use the USB port to connect a computer. (USB power supply)

Indicator

The indicator has two colors, red for power indicator and green for signal indicator.

3.1 Power supply

WIDI-XU uses USB bus power.

If it is the first time the WIDI-XU is connected to the computer, the OS will automatically install the device driver. Follow the instructions for driver installation. When asked for the device driver, please let the OS automatically search the driver. When the installation is completed, the WIDI-XU will show in the system device list as the “USB Audio Device”.

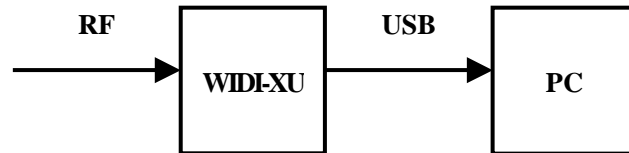
3.2 Connection

When WIDI-XU gets power, installed successfully and not be prohibited, it will

automatically search for other free WIDI product and establish communication.

3.3 Routing

WIDI-XU support one data route mode: RF⇒USB



Explanation:

As WIDI-XU is a device of receiving, please select “USB Audio Device” in your music software as the MIDI device.

3.4 Radio channel setting

WIDI-XU supports 64 radio channels for MIDI data transfer. Suppose each pair of the WIDI system use one channel, up to 32 pairs of WIDI system can work at the same time.

As WIDI-X8, the frequency of WIDI-XU can be set automatically or manually. The manually setting is via sending system control command.

You can use software such as Cakewalk to send system control command, or use “WIDI Control.EXE” - an easily control software from CME.

Below are system control commands:

◆ Channel setting

Command: **F0 00 20 63 00 07 02 02 10 nn F7**

Set the channel of the WIDI-XU to channel “nn” , “nn” is hex number from 01 to 40 , indicates channel 1~64, see appendix.

If using “WIDI Control.EXE”, select channel, then click “Set Channel” button.

◆ Automatically search

Command: **F0 00 20 63 00 07 02 02 10 50 F7**

Automatically search free WIDI device and connect.

If using “WIDI Control.EXE”, click “Auto Search” button.

◆ Automatically setting the radio frequency

Command: **F0 00 20 63 00 07 02 02 10 5F F7**

Both of the WIDI devices in connection set to another free radio channel

If using "WIDI Control.EXE", click "Auto Change" button.

◆ **Turn on RF**

Command: **F0 00 20 63 00 07 02 02 10 6F F7**

Turn on the RF receiving function.

If using "WIDI Control.EXE", click "RF ON" button.

◆ **Turn off RF**

Command: **F0 00 20 63 00 07 02 02 10 60 F7**

Turn off the RF receiving function.

If using "WIDI Control.EXE", click "RF OFF" button.

Important:

To make the WIDI system work properly, make sure each pair of the WIDI devices are using the same radio channel, and different pairs must not use the same radio channel.

The WIDI system supports up to 32 pairs of WIDI devices used at the same place. If you use many pairs of WIDI devices at the same place, to ensure better performance, please set the radio channels within 1-32.

"Free" means the WIDI device has not established any communication with any other WIDI device.

WIDI devices include WIDI-X8, WIDI-XU, WIDI-EK and products named WIDI-xx in designing.

3.5 Removal of the product

Please follow the below steps to remove the WIDI-XU from your system after using it:

- Close your music software that accesses WIDI-XU.
- Find "USB Audio Device" in the Windows Device Manager, stop or uninstall it. You needn't to do this step if you're not going to use it again in 5 minutes.
- Now you can unplug the WIDI-XU.

4 Automation

4.1 Automatic communication establishing

- Automatic communication establishing when power on
The WIDI-XU will automatically search for free WIDI device and establish communication after power on. The green indicator will be on to show a successful communication establishing.
- Automatic communication establishing after radio channel changed
When the radio channel is changed, the WIDI-XU will automatically establish communication.

4.2 Automatic notes off

In either one of the following cases, the system will automatically send the “All Notes Off” MIDI message to stop the sound from the tone generator.

- Bad signal with data loss.
- During the transmitter is switched off.
- Radio channel changed

4.3 On-line detection

After power on, the WIDI-XU will automatically detect the on-line status. The green indicator will show the communication status.

5 Notes

- Please make sure the WIDI-XU is properly connected to the computer before you launch your music software.
- Close your music software before you stop or uninstall the WIDI-XU from the computer.
- It is recommended that you stop or uninstall the USB Audio device before you unplug the WIDI-XU.
- Reduce the obstacle and interference as much as possible.
- If the signal indicator blinks, it means there is interference. If the signal indicator blinks fast or off, it means strong interference and the communication stops. The signal indicators of both WIDI devices are on, that means proper communication.
- If you use many pairs of WIDI devices at the same place, please set the radio channels within 1-32.

6 Appendix

System control command

No.	Name	Command	Description
1	Channel setting	F0 00 20 63 00 07 02 02 10 nn F7	Set the channel of the WIDI-XU to channel “nn” , “nn” is a hex number of 01~40 , indicates channel 1~64
2	Automatically search	F0 00 20 63 00 07 02 02 10 50 F7	Automatically search free WIDI device and connect
3	Automatically setting the radio frequency	F0 00 20 63 00 07 02 02 10 5F F7	Both of the WIDI devices in connection set to another free radio channel
4	Turn on RF	F0 00 20 63 00 07 02 02 10 6F F7	Turn on the RF transmitting /receiving function
5	Turn off RF	F0 00 20 63 00 07 02 02 10 60 F7	Turn off the RF transmitting /receiving function

Radio channel selection table

nn	Freq	nn	Freq	nn	Freq	nn	Freq
01	1	11	17	21	33	31	48
02	2	12	18	22	34	32	50
03	3	13	19	23	35	33	51
04	4	14	20	24	36	34	52
05	5	15	21	25	37	35	53
06	6	16	22	26	38	36	54
07	7	17	23	27	39	37	55
08	8	18	24	28	40	38	56
09	9	19	25	29	41	39	57
0A	10	1A	26	2A	42	3A	58
0B	11	1B	27	2B	43	3B	59
0C	12	1C	28	2C	44	3C	60
0D	13	1D	29	2D	45	3D	61
0E	14	1E	30	2E	46	3E	62
0F	15	1F	31	2F	47	3F	63
10	16	20	32	30	48	40	64



2006-Sep

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