

# *Synthophone* MIDI sax

## Wireless MIDI system - User Guide



### Introduction

The wireless MIDI system is an add-on device for use with the Synthophone MIDI sax.

The angled MIDI plug connects to the MIDI socket of the Synthophone, replacing the standard MIDI cable / power supply of the Synthophone. There is absolutely NO modification needed to run your Synthophone wirelessly. You can switch back to the standard MIDI cable setup using your existing power supply anytime.

### Package content

- Light-weight belt-pack with carabiner
- 1 special MIDI adapter cable with angled MIDI plug & 1 female MIDI and 2 USB connectors
- 2 USB powerbanks
- 1 Dual USB charger
- 2 USB - USB micro cables
- 1 wireless MIDI transmitter TX-02
- 1 wireless MID receiver RX-02
- 1 USB - USB mini cable

## Setting up

The angled MIDI plug connects to the front MIDI socket of the Synthophone. The other end of the special cable is connected to the wireless transmitter TX-02 inside the belt pack. The transmitter sends out MIDI data received from the Synthophone over a range of up to 150 feet to the MIDI receiver RX-02.

The receiver RX-02 connects to your computer via USB – or - it can be used as a standalone wireless MIDI receiver when connected to any external MIDI equipment like synths or other MIDI hardware.

Use the USB charger to supply power to the RX-02 when not using a computer.



Two high-power USB power banks provide power to the Synthophone. A fully recharged set of these special accumulator batteries holds approximately 3 hours of performance time.

The power banks can be easily recharged using one of the dual USB power adapters shown below. Your power adapter can be any of the 3 types shown in the picture.



They all have universal input voltages from 100 – 240 volts. In some countries, you may still need a country specific travel adapter in order to recharge.

Two USB micro cables are supplied for simultaneous recharging of the 2 powerbanks . You can recharge while leaving the powerbanks inside the belt pack or you may remove them from the pack to recharge them externally. When fully loaded, the LEDs on the powerbanks shut off. A full recharge cycle may take 6 to 10 hours, so it is best to recharge your USB powerbanks over night. There is NO danger in overloading the power banks, since they have their own built in protection scheme.

## The wiring of the wireless

The wireless MIDI receiver RX-02 and the wireless MIDI transmitter TX-02 are shown in the picture below.



Connect the receiver with the USB mini cable to your computer. The receiver RX-02 works without a driver software, i.e. it is a true « plug-and-play » device for both Windows and MAC operating systems.

The transmitter TX-02 has two AAA-batteries inside, which last for approx. 60 hours of continuous use.

Switch on the TX-02 after the RX-02 is connected to your computer. A wireless connection is established automatically. This process is called « pairing ». The LEDs on both units will light up and stay on constantly. If the LEDs keep blinking, you'll need to « pair » the units manually by briefly pressing a button on either one of the units. The LEDs should stay on constantly after the units are « paired ».



The transmitter runs on two regular AAA batteries. With a small Philips screwdriver, unlock the small screw of the the battery compartment, remove the cover and replace the batteries as shown in the picture. Please observe the correct polarity as shown. Close the cover and put the screw back in place.

## Setting up for playing

Connect the female connector of the special MIDI cable with the male connector of the transmitter TX-02. Insert the two powerbanks into the belt pack as shown. They should be positioned under the elastic band inside the box. Then put the transmitter on top as shown. The transmitter MIDI cable should snugly fit beside the transmitter in as an S-curve.



Now plug both USB connectors into the powerbanks as shown below. It is not critical, which USB plug goes to the left and right powerbank. Switch on the transmitter and check its LED status. It should stay ON constantly. If it is blinking, either the receiver RX-02 is not yet turned on, or you need to pair them manually, i.e. push the button on either of the units to synchronise them. A steady lit LED shows that a wireless connection has been established.



Finally, close the box by pulling up the zippers from the left and right sides. Close the body pack by carefully pushing both USB cables inside the rim of the box. Only the Midi cable leads to the outside from the top center of the belt pack.

## Hook up!

Now clip the carabiner onto your belt and plug in the MIDI cable into the Synthophone MIDI socket as shown below.



You are ready to play! Test the wireless range by walking away from the receiver while playing. The range is probably greater than what you'll possibly need on stage, but you may want to test your maximum wireless range during your sound check. It is nice to walk out front to hear your sound from various positions in the concert hall. Have fun !

## Unplugging and switching off

After sound check and later on again after your performance, make sure to unplug the MIDI connector from the Synthophone. Also unplug the USB connectors from the USB powerbanks and switch off the transmitter TX-02 inside. During short intermissions (between two sets) you might only want

to disconnect the MIDI socket from the instrument to save a little of your remaining battery power. The special cable MIDI cable itself also consumes some power due to a built-in voltage divider circuit, but it is about 5 % what the the Synthophone consumes when it is plugged in.

# Let's go wireless !!