



Digital art crafting, sharing and learning made easy.

**R1**

**WIND  
SYNTHESIZER  
USER'S  
MANUAL**

English

**R1**

**WIND  
SYNTHESIZER  
USER'S  
MANUAL**

For firmware version 1.6

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Por favor inicie sesión en nuestro sitio web oficial para obtener las versiones en otros idiomas de este manual de usuario.

Consulter notre site officiel pour obtenir ce manuel d'utilisateur dans d'autres langues.

请登录我们的官方网站获取本用户说明书的其他语言版本。

公式サイトにアクセスいただき、多言語ユーザーマニュアルもお手にとっ  
てご覧ください。

[www.robkoo.com](http://www.robkoo.com)




# Welcome

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Robkoo helps everyone become a digital artist.

Thanks for purchasing Wind Synthesizer R1. Before using this unit, please read and understand this manual. After reading, please keep it available for immediate reference.

## Key to Symbols

-  Suggested actions or tips
-  Wrong actions or warnings
-  Correct actions

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# Introduction

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## ▶ Concept

Wind Synthesizer R1 is a new form of wind instrument created by Robkoo. With its intuitive design, audio technology, and realistic sounds, R1 makes performing music easier than ever.

Wind Synthesizer R1 is a musical instrument from the future.

## ▶ Sound of true instruments

With sounds sampled from top performers around the globe, R1 saves 10 or even 20 years of practice to achieve the vibe of a pro.

## ▶ Food grade mouthpiece

Same material as baby pacifier for utmost health protection. Multiple mouthpiece styles available.

## ▶ Touch-sensing performance keys

Perform by touching the keys. Fast response, minimal noise, and maximum durability.

## ▶ Independent semitone keys

Resemble the keys on an acoustic instrument. Play expressively in a realistic and graceful way.

## ▶ Patch switch

Switch tones in a flash. Multiple functions assignable without interrupting the play.

## ▶ Triple octave keys

Break away from the limitation of acoustic instruments. Travel across wide octaves at lightning speed.

## ▶ Mechanical pitch wheel

Reliable and intuitive. Pitch bend with your thumb. It is also customizable to trigger other controls like portamento.

## ▶ High-accuracy gyroscope

Trigger performance techniques by simply shaking and waving. Pull up and down for vibrato, another articulation, and pitch bend.

## ▶ Responsive RGB lights

The cyber style RGB light patterns display over 60,000 colors. The lights also respond to your breath and technique, adding a visual element to your play.

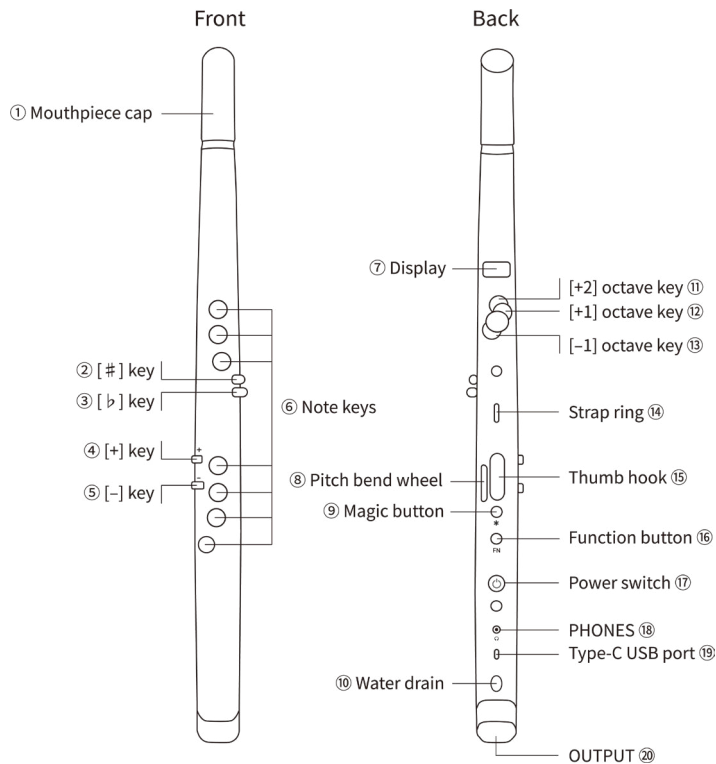
## ▶ Learn in 15 minutes

A dedicated interactive course guides you through the basics in 15 minutes. Keep practicing for 2 weeks, you will be ready to perform.

## ▶ Package contents

- Wind Synthesizer R1
- Mouthpiece cap
- Neck strap
- Dust bag
- Type-C cable
- User's manual
- Quickstart Guide

# Panel Descriptions



## ① Mouthpiece cap

Protects mouthpiece. Remove before playing. After playing, clean the mouthpiece before putting the cap back on.

## ② [#] key


Raises the note(s) played by one semitone while pressed.

## ③ [b] key

Lowers the note(s) played by one semitone while pressed.


## ④ [+] key

While performing, press for the next patch. In menu, press for the next item.

 You can customize this key in "Settings - Advanced Settings".


## ⑤ [-] key

While performing, press for the previous patch. In menu, press for the previous item.

 You can customize this key in "Settings - Advanced Settings".

## ⑥ Note keys

Play notes by holding combinations of note keys while blowing into the mouthpiece. A variety of fingering modes are available.


 Please find the full fingering charts in "Appendix - Fingering Charts" of this manual.

## ⑦ Display

Displays the current patch, key, octave, status, as well as menu items.


## ⑧ Pitch bend wheel

By default, pushing up or down will bend the pitch of sounds.

-  You can customize the pitch bend wheel in "Settings - Advanced Settings" (e.g. enable portamento instead of pitch bend by pushing up).

## ⑨ Magic button

By default, pressing the magic button will enable portamento. Pressing again will disable portamento.

-  You can set up the magic button in "Settings - Advanced Settings" (e.g. switch to Sound 2).

## ⑩ Water drain


Drops of water will exit here. Wipe them off with a soft cloth. Do not jam the water drain.


## ⑪ [+2] octave key

Hold to play 2 octaves above, release to restore.

## ⑫ [+1] octave key

Hold to play 1 octave above, release to restore.

-  You can set up how "pressing [+1] and [+2] octave keys together" is perceived by connecting R1 with JamKoo App.

-  Alternative cross-octave fingerings available in "Appendix - Fingering Charts" of this manual.

## ⑬ [-1] octave key

Hold to play 1 octave below, release to restore.


## ⑭ Strap ring

To attach the neck strap.

-  A neck strap can effectively prevent R1 from falling.

## ⑮ Thumb hook


Fit your right thumb below the hook to hold R1.

-  A neck strap can relieve pressure on your thumb and free your other fingers.

## ⑯ Function button

Pressing these buttons/keys while holding the function button (FN) will form a number of hot keys:

Paired button/key	Hot key
[#] key	Transpose up by 1 semitone step
[b] key	Transpose down by 1 semitone step
[+1] octave key	Shift all notes up by 1 octave
[-1] octave key	Shift all notes down by 1 octave
[+] key	Next patch
[-] key	Previous patch
Magic button	Go to settings menu

-  Read more about octave shift in "Advanced Settings - Octave Shift" of this manual.

## 17 Power switch

- Hold for 2 seconds to power up.
- Hold for 3 seconds to power off.
- Press while powered up to show battery status in full screen.

## 18 PHONES

Stereo 3.5mm output for headphones. Plug in your headphones/earphones to hear R1.

- ✘ Please make sure the volume is proper before wearing the headphones.
- 🔧 The PHONES will still function while the OUTPUT is plugged in, so that you can always monitor your performance on stage.

## 19 Type-C USB port

Charges R1 and transfers data. Connect this port to a computer or smart device to upgrade, charge, or exchange data.

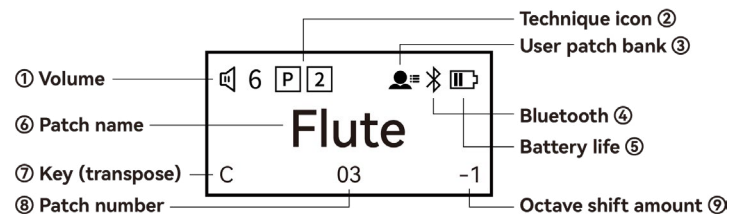
## 20 OUTPUT

6.35mm (1/4-inch) TRS audio output. Connect this port to a mixer or amp.

- ✘ To prevent malfunction and equipment failure, please ensure the volume is turned down when connecting the OUTPUT port.

# Display

## Performance Mode



### 1 Volume

Shows the current level of volume or indicates the muted status.

### 2 Technique icon

Shows the current technique. **P** indicates “Portamento”. While **P** is on, all neighboring notes will glide to each other. **2** indicates “Sound 2”. While **2** is on, notes will trigger Sound 2 (if any) of the current patch.

- 🔧 Read more about Sound 2 in “Appendix - Patch List” of this manual.

### 3 User patch bank

Appears when “user patch bank” is applied. Absent when factory patch bank is applied (by default).

- 🔧 Read more about patch bank in “Advanced Settings - Patch Bank” of this manual.



#### ④ Bluetooth

Appears when Bluetooth MIDI is enabled (either connected or not).  
Absent when Bluetooth MIDI is off.

#### ⑤ Battery life

Shows the remaining battery life.

#### ⑥ Patch name

Name of the current patch.

#### ⑦ Key (transpose)

While factory patch bank is applied, it shows the global key. Changing the key will affect all patches.

While user patch bank is applied, it shows the key of the current patch.  
Each patch can be assigned to its own key in user patch bank.

Press [#] key or [b] key while holding down FN to transpose. Press [#] key and [b] key together to jump to the default key of C.

#### ⑧ Patch number

The corresponding number of the current patch.

#### ⑨ Octave shift amount

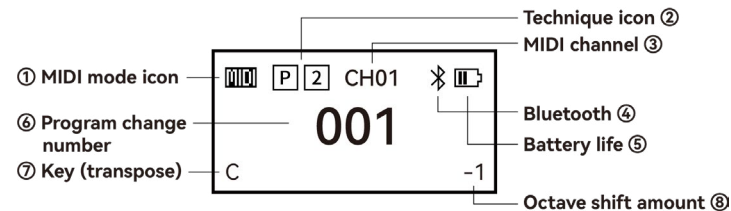
Absent by default. If octave has been shifted in Advanced Settings, it shows the amount of octave shifts. While factory patch bank is applied, the shift applies to all patches.



Hot keys for octave shift available. Learn more in “Panel Descriptions - Function button” of this manual.

## MIDI Mode

R1 will switch to MIDI mode when connected to a DAW or JamKoo App.



#### ① MIDI mode icon

Appears when R1 switches to MIDI mode. When connected to JamKoo App, JamKoo icon will appear instead.

#### ② Technique icon

Shows the current technique. [P] indicates “Portamento”. While [P] is on, CC 65 is sent with all interconnected notes, which will trigger portamento in supported software. [2] indicates “Sound 2”. While [2] is on, CC 80 will be sent with all notes.

#### ③ MIDI channel

The current MIDI Channel. Displays “CH01” to “CH16” for Channel 1 to 16.

#### ④ Bluetooth

Appears when Bluetooth MIDI is enabled (connected or not). Absent when Bluetooth MIDI is off.

#### ⑤ Battery life

Shows the remaining battery life.

## ⑥ Program change number

The current program change number, ranging from 001 to 128.

## ⑦ Key (transpose)

The current key (transpose), globally effective in MIDI mode.

## ⑧ Octave shift amount

If the base octave has been shifted (Fn + [+1]/[-1] octave key), it shows the amount of octave shifts. The shift applies globally in MIDI mode.


# Playing

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## Holding R1


Hold R1 as the illustration shows, with left hand above right hand. Rest your left thumb on the circle between octave keys. Fit your right thumb below the thumb hook to support this position.



 It is advisable to wear a neck strap.

## Using the Mouthpiece

- Default method: gently wrap the mouthpiece with lips like a straw. Do not bite the mouthpiece.
- Alternative method: stick a saxophone/clarinet mouthpiece patch on its top. Wrap your lips around the mouthpiece and gently touch the top with your upper teeth.

 To prevent injury, please do not bite the mouthpiece with strength.

## Basic Fingering Chart

● Hold    ○ Release

The chart displays two rows of notes on a treble clef staff. The first row contains C3, D3, E3, and F3. The second row contains G3, A3, B3, and C4. For each note, there are two vertical columns of circles representing fingerings: one for 'Hold' (solid black circles) and one for 'Release' (open circles). The notes are marked with a flat symbol (B) below them. The fingerings are as follows:

- C3:** Hold (5, 4, 3, 2, 1), Release (5, 4, 3, 2, 1)
- D3:** Hold (4, 3, 2, 1), Release (4, 3, 2, 1)
- E3:** Hold (3, 2, 1), Release (3, 2, 1)
- F3:** Hold (2, 1), Release (2, 1)
- G3:** Hold (1), Release (1)
- A3:** Hold (1), Release (1)
- B3:** Hold (1), Release (1)
- C4:** Hold (1), Release (1)

✎ Multiple fingering modes available in Advanced Settings. Access full fingering charts in “Appendix - Fingering Charts” of this manual. New fingering modes may become available through Firmware Updates. Please visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) to access the latest fingering charts.

## Selecting a Patch

There are more than one controls to browse through patches. The controls below are applicable to both performance mode and MIDI mode.

### ► Default controls

- Press [+] key for the next patch. Keep pressing again to rotate through the patch bank.
- Press [-] key for the previous patch. Keep pressing again to rotate through the patch bank.

✎ Both keys are customizable, see “Advanced Settings” of this manual.

### ► Alternative controls

Those controls are always available, unaffected by individual settings of [+] key and [-] key.

- Press [+] key while holding FN for the next patch.
- Press [-] key while holding FN for the previous patch.
- Press [+] key and [-] key together to go back to patch 01.

## Articulations

Extra articulations are available through tonguing, pressing of a button, or tilting up R1. Try tonguing or set up in Advanced Settings.

✎ See all articulations in “Advanced Settings” and “Appendix - Patch List” of this manual.

# Basic Settings

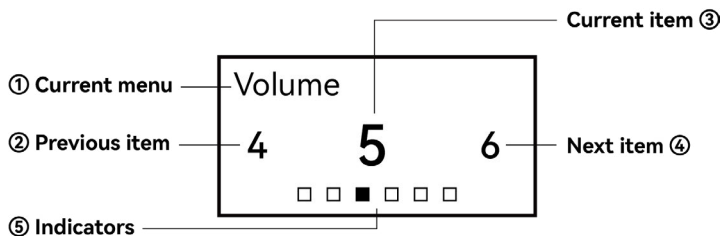
## Settings Menu

Press the magic button while holding FN to enter the settings menu.

### ► Navigating the settings menu

- Magic button: confirm/enter
- FN: cancel/back
- [+] key: next/plus
- [-] key: previous/minus

### ► Display - settings



#### ① Current menu

Name of the current menu to where the items belong.

#### ② Previous item

The previous selectable item.

#### ③ Current item

The selected item. Press magic button to confirm.

#### ④ Next item


The next selectable item.

#### ⑤ Indicators

Indicate current location within the menu.

### ► Settings with JamKoo App

While R1 is connected with JamKoo App, it can be found on the "Devices" page of JamKoo. Click on its card, full settings are accessible on the following page.

 Read more about JamKoo App in "MIDI Mode - Connecting with JamKoo App" of this manual.

## Volume

This adjusts the overall volume of PHONES and OUTPUT. There are 10 levels from 1 to 10, along with mute (Off).



## Reverb

This adjusts the level of reverb in performance mode (as built-in reverb does not work in MIDI mode). There are 5 levels of reverb from 1 to 5, along with Off.



## Transpose

This adjusts the global transpose (key). There are 12 keys: G, A $\flat$ , A, B $\flat$ , B, C (default), D $\flat$ , D, E $\flat$ , E, F, and F $\sharp$ .

While user patch bank is applied, transpose will only affect the current patch.



 Read more about patch bank in “Advanced Settings - Patch Bank” of this manual.

# Advanced Settings

Advanced Settings are accessible in settings menu.



## Patch Bank

Switch between user and factory patch banks.


### ► Factory patch bank

The default patch bank with patches listed in fixed order. While applied, settings of volume, transpose, reverb, and octave shift are effective globally. For example, if R1 is transposed to the key of G, all patches will be in G.



### ► User patch bank

Patches can be rearranged to fulfill practical needs on stage. User patch bank supports recurring patches, individual transpose, and individual octave shift. Set up a user patch bank on JamKoo App after connecting R1 to a smart device.

 While user patch bank is applied, transpose and octave shift on R1 will only affect the current patch.

## Octave Shift

This shifts the octave of all patches while factory patch bank is applied or while MIDI mode is enabled, ranges from -3 to +3. It is disabled while user patch bank is applied.



## Magic Button

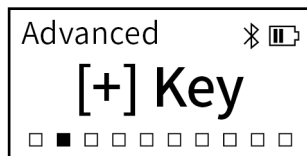
Magic button can be customized to aid performance. Press magic button once to enable its function, press again to disable it.

- Portamento (default): to enable smooth and continuous gliding between notes.
- Sound 2: to switch to Sound 2 of the current patch.
- Off: disables magic button.



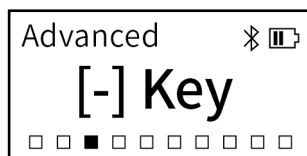
## [+] Key

- Next patch (default): press to load the next patch. Patch number goes up.
- Sound 2: press to trigger Sound 2 of the current patch, release to restore.
- MIDI Channel +: press to switch to the next MIDI channel for MIDI mode. The highest channel number is 16.



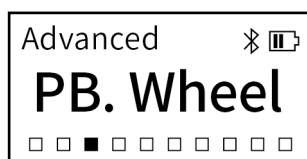
## [-] Key

- Previous patch: press to load the previous patch. Patch number goes down.
- Sound 2: press to trigger Sound 2 of the current patch, release to restore.
- MIDI Channel -: press to switch to the previous MIDI channel for MIDI mode. The lowest channel number is 01.



## Pitch Bend Wheel

- Pitch bend (default).
- Portamento / pitch bend down: push up the wheel to enable portamento, release to disable. Push down to pitch bend down.



- Sound 2 / pitch bend down: push up the wheel to trigger Sound 2, release to restore. Push down to pitch bend down.
- Off / pitch bend down: disables pitch up control to prevent unintended touches. Push down to pitch bend down.
- Off: disables pitch bend wheel.

## Motion Control

While motion control is enabled, the selected control kicks in as R1 gets tilted up at a certain angle.

- Off: disable motion control.
- Sound 2: tilt up R1 to switch to Sound 2, lower it to switch back.
- Pitch bend: tilt up R1 to pitch bend up, lower it to restore.
- Portamento: tilt up R1 to enable portamento, lower it to disable.
- Vibrato (default): tilt up R1 to turn on vibrato, lower it to turn off. The higher the tilt angle, the stronger the vibrato effect. In MIDI mode, this will assign CC 1 to motion control, sending the value from 1 to 127 as the angle increases.



## Motion Angle

This adjusts the interval of angles to trigger motion control. There are 5 levels from 1 to 5. The smaller the number, the easier to trigger. Default at level 3.



## Portamento Time

This adjusts the speed of portamento between notes. There are 5 levels from 1 to 5. The smaller the number, the faster the speed.



## Pitch Bend Range

This switches the range of pitch bend controls to either direction (pitch bend up/down) between 1, 2, and 3 semi-steps. Applicable to any mechanism of pitch control.



## Legato

On by default. This will emulate smooth transitions between notes for applicable sounds.



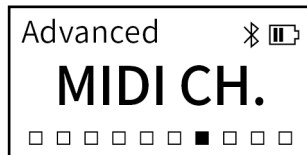
## Breath Articulation

Off by default. This will disable the articulations that are triggered by high velocity.



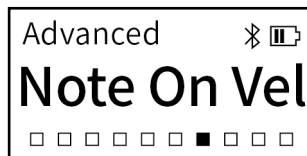
## MIDI Channel

This selects the MIDI channel for MIDI mode. 16 channels are available from 1 to 16.



## Fixed Note On Velocity

Applies to MIDI mode only, on by default. While it is on, all note-on velocity values in MIDI mode are set to 100. It helps get sounds from certain software that is unable to sound well otherwise.



While it is off, the note-on velocity sent in MIDI mode becomes the breath control value at the beginning of a note. Keeping it off helps trigger different dynamic layers in MIDI mode.

## Master Tuning

Default at 440Hz. When needed, it can be adjusted between 435Hz to 445Hz.

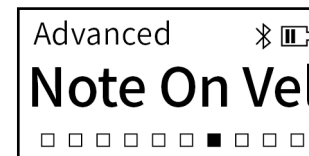


## Fingering Mode

Alternative fingering modes are available for players with different backgrounds. Saxophone (recorder) fingering is the default fingering mode.



A selection of fingering charts are available in “Appendix - Fingering Charts” of this manual. New fingering modes may become available through firmware updates. Please visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) to access the latest fingering charts.



## Breath Message

This selects what type of MIDI message the Breath Sensor sends.

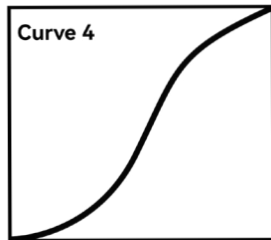
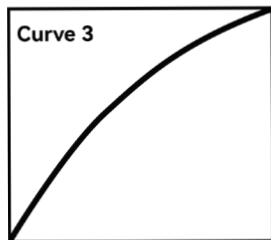
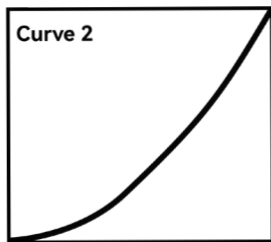
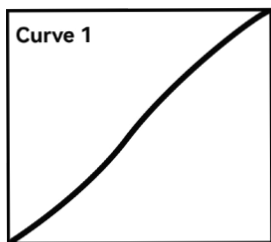
- After Touch
- CC 2
- CC 11 (default)



## Breath Curve

This selects the velocity curve of breath sensor. There are 4 curve styles available as below, with the horizontal axis representing the strength of breathe and the vertical axis representing the interpreted velocity.





## Breath Sensitivity

This adjusts the sensitivity of breath sensor. 5 levels are available from 1 to 5, with level 3 as default. The lower the level number is, the more breath-saving R1 becomes.



## Key Sensitivity

This adjusts the sensitivity of note keys. 8 levels are available from 1 to 8, with level 6 as default. The lower the number is, the faster note keys respond.



Unwanted notes may occur when keys are too sensitive. Change key sensitivity to a higher number to avoid.

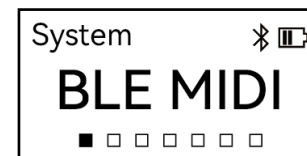
# System Settings

System Settings are accessible in settings menu.



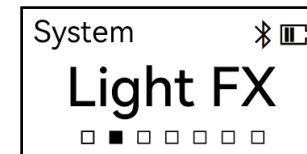
## BLE MIDI

Enabled by default. When BLE MIDI is enabled, a Bluetooth icon will be on the top right of the display. R1 is able to connect with smart phone, computer and other smart devices through BLE MIDI as a MIDI controller.



## Light FX

This switches the light effects of responsive RGB light bars. 3 factory effects are available, along with lights off option and a custom slot. Create your custom light effect with JamKoo App.



## Auto Power Off

R1 will power off by itself after standing by for a certain period of time. This setting selects the length of time before the auto power off. 4 options are available: 5mins, 30mins, 60mins, and "Never".





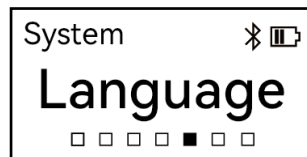
## Display Sleep

While display sleep is enabled, the display of R1 will sleep during performance. The display will wake up when performance stops.



## Language

English and Chinese (simplified) are supported.



## Factory Reset

This resets all settings including user patch bank.



## Version Info.

This displays the model name, serial number (SN), firmware version (FW), sound bank version, sound engine version, and bootloader version. Firmware can be updated while connected with JamKoo. Serial number is also printed at the physical bottom of R1.



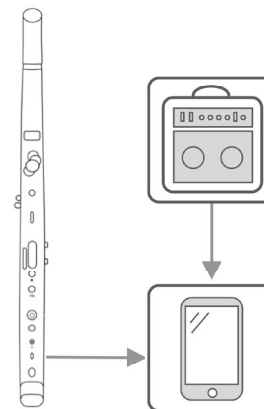
# MIDI Mode

## Connecting R1

R1 can be used as a MIDI controller to play virtual instruments on computer or smart device.

### ► USB MIDI


Connect R1 with computer or smart device via USB cable as illustrated. R1 sends out MIDI controls through cable, while the connected device outputs the sound.



### ► BLE MIDI

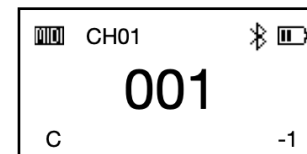
R1 comes with built in BLE (Bluetooth Low Energy) MIDI connectivity. While BLE is enabled, R1 can connect with computer or smart device wirelessly.

The default Bluetooth device name of R1 is "ROBKOO R1 - (last 4 digits of serial number)". This name can be modified using JamKoo App.

 Serial number (SN) is visible at the physical bottom of R1 or in menu "System - Version Info."

## Playing in MIDI Mode

Upon successful connection with computer or smart device, R1 will switch to MIDI mode, indicated by a display shown in the graph. Onboard sounds of R1 still work in MIDI mode, but the display will only show the program change number.



## Connecting with JamKoo App

### ► Download (free)


Search “JamKoo” in App Store or Google Play and download for free.



JamKoo

### ► Connect


Keep R1 near JamKoo, and find it on the device page of JamKoo. Alternatively, use USB Type-C cable to connect with smart device. A “Connected” message will pop up, indicating successful connection.

 Make sure both R1 and the smart device have Bluetooth enabled, meanwhile JamKoo is given access to Bluetooth.

### ► Use JamKoo sounds

Upon successful connection to JamKoo, you can use R1 as a MIDI controller and pick any JamKoo sounds to play in local performance sets or online tracks. Your device will output all sounds.

### ► Access more features (Bluetooth connection only)

Tap “” to manage MIDI devices.


- Quickstart: access “Quickstart Guide” and “Video Instructions” on the tab of R1.
- Settings: go to “Settings” on the card of your R1.
- User patch bank: access “User Bank” on the settings page of R1. You can create your own list of patches for R1, e.g. arrange the order of patches and set up transposes.
- Custom fingerings: access “Fingering Mode” on the settings page of your R1, and add extra fingerings for any note.

# Appendix

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## Important Notes

Please read carefully before using R1:

-  To avoid electric shock, damage, or other dangerous events that may result in injury or catastrophic outcomes, please use R1 safely by complying with the following notes.

### ► Power supply

Please use a standard 5V AC adapter.

### ► Do not disassemble

No part of R1 is supposed to be repaired by users themselves. DO NOT open up R1, take away parts, or modify the hardware in any way. If malfunction occurs, please stop using R1 and visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) to find a retailer for repair service.

### ► Warning on humidity

Please DO NOT expose R1 in rain, use R1 near water, or use R1 in humid environment. Please keep R1 away from any liquid container (e.g. vase, bottle, glass) to avoid infiltration. If water or any liquid infiltrates R1, please power off R1 and remove all cables immediately. Repair information can be found on Robkoo website ([www.robkoo.com](http://www.robkoo.com)). DO NOT connect cables with wet hands.

### ► Caution of heat

The battery inside R1 is not replaceable. Do not expose R1 to harsh sunlight, burning objects or other heat sources.

### ► In event of accident

When any of the following event occurs, please power off R1 immediately. Visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) for repair information.

- Smell or smoke coming out from R1.
- Objects sliding into R1.
- Falling or damaging.



Please follow the guidelines below to prevent injury, damage, or property loss to you and other people.

### ► Storage

To avoid flipping, DO NOT store R1 at unstable locations.

To avoid malfunctions, DO NOT expose R1 to corrosive gases or salt gas.

Please remove all cables before storing R1.

### ► Connection

Please switch off the audio equipment before connecting to R1. Please apply minimal level of volume before powering on/off any equipment.

### ► Use R1 safely

DO NOT stick finger into any gap or hole of R1.

Please avoid having objects (e.g. paper, plastic, metal) sticking into any gap of R1. In event of such situations, please power off R1 immediately, and remove all cables. Visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) for latest repair information.

DO NOT stack your body or heavy objects onto R1, and DO NOT apply excessive strength on the buttons, power switch, or ports of R1.

DO NOT apply high/uncomfortable volume with speaker/amp/headphone for extended period of time, in order to avoid ear damage. If you experience symptom of deaf or tinnitus, please seek help from a doctor.

Robkoo is not responsible for any damage or data loss caused by misuse or unauthorized refit of R1.

### ► Surrounding environment

Please use R1 in an environment between  $-15^{\circ}\text{C}$  to  $45^{\circ}\text{C}$ , between 5% RH to 75% RH, and between PH6.5 to PH7.2.

## Maintenance

### ► Mouthpiece

Clean your mouth before playing to maintain the hygiene of mouthpiece. Drops of water will exit from the water drain, dry off with soft cloth.

Mouthpiece can be removed regularly to wash. Hold the ring below mouthpiece with one hand, meanwhile slowly detach the mouthpiece with the other hand. After washing, use soft cloth to wipe it dry.

### ► Firmware update

Robkoo may periodically release updates for R1 to improve its performance or fix bugs.

Connect R1 to JamKoo App for available updates.

## Troubleshooting


Problem	Solution
Breath is not responding.	Moisture may accumulate inside R1 and interfere with the breath sensor. Lean R1 vertically and let water exit from water drain.
Fingering does not respond properly.	Fingering may not function if all 7 note keys are touched when powering up. Release all 7 note keys at the same time to fix.
R1 cannot be found by other smart devices.	<ul style="list-style-type: none"> <li>• Check the Bluetooth icon on the top right of display (performance mode). If the icon is absent, enable Bluetooth in "Settings -System - BLE MIDI".</li> <li>• Check if the smart application is authorized to use Bluetooth and location. If not, please authorize the application in settings of the device.</li> <li>• Bluetooth MIDI needs to be connected within a supported application. DO NOT connect in settings of the device where Bluetooth earbuds are connected.</li> </ul>
Cannot charge.	The adapter may not be qualified. Use another adapter that supports USB protocol.
Noise comes from PHONES port while connected with computer.	Some computers may cause noise while charging R1 via USB cable. Use another power source or avoid charging while playing.
Random sounds occur while performing.	<ul style="list-style-type: none"> <li>• Check if magic button was pressed (enabled).</li> <li>• Check if motion control is enabled, and if the motion angle is too low.</li> </ul>

Problem	Solution
The pitches sound imperfect.	Check if pitch bend wheel is triggered. The pitch bend wheel can be turned off in Advanced Settings.

## Patch List

No.	Patch	Sound 1		Sound 2	
		Normal	Breath Articulation	Normal	Breath Articulation
Woodwinds	1 Tenor Saxophone	Sustain		Sustain 2	Growl
	2 Alto Saxophone	Sustain		Sustain 2	Growl
	3 Soprano Saxophone	Sustain			
	4 Flute	Sustain			
	5 Recorder	Sustain			
	6 Clarinet	Sustain		Sustain 2	
	7 Oboe	Sustain			
	8 Bassoon	Sustain		Vibrato	
Brasswinds	9 Trumpet	Sustain		Sustain 2	
	10 French Horn	Sustain		Sustain 2	
	11 Tuba	Sustain		Staccato	
Strings	12 Violin	Sustain			
	13 Contrabass	Sustain		Pizzicato	
Miscellane	14 Harmonica	Sustain			
	15 Accordion	Sustain		Octave sustain	
	16 Pan Flute	Sustain			
	17 80s Gamer	Sustain		Sustain 2	
	18 RK Lead	Sustain			


No.	Patch	Sound 1		Sound 2	
		Normal	Breath Articulation	Normal	Breath Articulation
Synth	19 Firefly	Sustain			
	20 Heal	Sustain			
	21 Phoenix	Sustain			
	22 Dragon	Sustain			
	23 Stellar	Sustain			
Chinese Ethnic Time Capsule	24 Qudi (Bamboo Flute)	Sustain	Flutter	Vibrato	
	25 Dongxiao	Sustain	Airflow attack	Trill	
	26 Hulusi	Sustain		Vibrato	
	27 Xun	Accent vibrato		Sustain	
	28 Suona	Sustain	Flutter	Flutter	
	29 Sheng	5th sustain		Sustain	Accent tremolo
	30 Morin Khuur	Sustain		Vibrato	
	31 Erhu	Sustain		Tremolo	
	32 Banhu	Sustain		Vibrato	
	33 Pipa	Pluck	Roll	Roll	
	34 Yangqin	Hit	Roll	Roll	
	35 Guzheng (Chinese Zither)	Pluck	Roll	Roll	
36 Chinese Percussion	Hit		(Side)		

 “Vibrato” as listed is different from the vibrato control (as present in “Advanced – Motion Control”). It is advisable to be cautious when applying vibrato sound and vibrato control together.

 Please visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) to access the latest Patch List.

## ► Chinese Percussion Mapping

Note		Sound 1	Sound 2	Note		Sound 1	Sound 2
7	B3	Drum_small	Side hit	$\flat 2/\#1$	D $\flat 2/$ C#2	Bo_Large	
$\flat 7/\#6$	B $\flat 3/$ A#3			1	C2		
6	A3			(lower)	Tam tam roll		
$\flat 6/\#5$	A $\flat 3/$ G#3			(higher)	Xylophone		
5	G3	Wooden bell	Wooden bell 2	$\dot{1}$	C5	Tam tam	
$\flat 5/\#4$	A $\flat 3/$ G#3	Drum_large	Side hit	$\dot{2}$	B4		
4	F3			$\flat 7/\#6$	B $\flat 4/$ A#4		
3	E3			$\dot{3}$	A4		
$\flat 4/\#2$	E $\flat 3/$ D#3	Cha_Medium		$\flat 6/\#5$	A $\flat 4/$ G#4	Gong	
2	D3			$\dot{4}$	G4		
$\flat 2/\#1$	D $\flat 3/$ C#3	Cha_Large		$\flat 5/\#4$	G $\flat 4/$ F#4	Hand drum	
1	C3			$\dot{4}$	F4		
$\dot{7}$	B2	Drum_medium	Side hit	$\dot{3}$	E4		
$\flat 7/\#6$	B $\flat 2/$ A#2			$\flat 3/\#2$	E $\flat 4/$ D#4		
$\dot{6}$	A2			$\dot{2}$	D4	Bangu(bamboo stick drum)	
$\flat 6/\#5$	A $\flat 2/$ A#2			$\flat 2/\#1$	D $\flat 4/$ C#4		
$\dot{5}$	G2	Bo_Small		$\dot{1}$	C4	Paiban(clapper)	
$\flat 5/\#4$	G $\flat 2/$ F#2			Bo_Medium			
$\dot{4}$	F2						
$\dot{3}$	E2						
$\flat 3/\#2$	E $\flat 2/$ D#2						
$\dot{2}$	D2						

 Tip: utilise "octave express fingerings" to jump easily. Explore this feature with any sound by holding one of the 3 upper note keys, and play scale with the other hand like normal.

# Fingering Charts


● Hold    ○ Release

## ► Saxophone fingering (default)

**C3**    **C#3/D♭3**    **D3**    **D#3/E♭3**    **E3**  
**F3**    **F#3/G♭3**    **G3**    **G#3/A♭3**  
**A3**    **A#3/B♭3**    **B3**    **C4**

Sharps/flats can usually be played without semitone keys by using alternative express fingerings. Meanwhile, express octave fingerings are available for certain notes in a higher octave. It means that some notes beyond one octave can be played without using any octave key:

**C4**    **C#4**    **D4**  
**D#4/E♭4**    **E4**  
**F4**    **F#4/G♭4**    **G4**

 You can set up custom fingerings by connecting R1 with JamKoo App. New fingering modes may become available through firmware updates. Please visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) to access the latest Fingering Charts.

## ► EVI+ fingering

EVI+ is an adaption to the classical EVI fingerings. The row of Basic is identical to the original form - with base position at C4. The right hand fingerings are similar to a trumpet, while the highest key on left hand is [-5] semitone steps.

Extended: the lowest key on right hand is [+5] semitone steps, giving this fingering mode a wider range without using octave keys.

Express 1&2: because Clarinet mini is feather-light, the left hand is not required to support it. Lifting left ring finger (the 3rd key from top) is [-1] semitone step, while lifting left middle finger (the 2nd key from top) is [+1] semitone step. In other words, the 2 keys can work as  $[\pm 1]$  trill keys.

Express 3: lifting both left middle and ring fingers makes no difference to pressing those keys together, as the 2 keys will offset each other. Notice how almost one octave (G#3 - F4) is playable with right hand only.

[ # ] & [ b ] keys still function on top of any fingering.

	C3	C#3/D♭3	D3	D#3/E♭3	E3	F3
Basic						
Extended						
Express 1						
Express 2						
Express 3						

	F#3/G♯3	G3	G#3/A♯3	A3	A#3/B♯3	B3	C4
Basic							
Extended							
Express 1							
Express 2							
Express 3							

	C4/D♯4	D4	D#4/E♯4	E4	F4	F#4/G♯4
Basic						
Extended						
Express 1						
Express 2						
Express 3						

## ► Whistle+ fingering

Whistle + is an adaption to Irish tin whistle in C. The row of Basic shows the minimal fingerings of a natural scale.

Acoustic: some of the fingerings existing in the acoustic counterpart are programmed and listed here.

Express 1: on top of Basic and Acoustic, the lowest key can be used as an extra [-1] key.

Express 2: pressing one extra key that is 2 keys downwards (if any) moves a note down by 1 semitone step. Combine with Express 2 where possible to play a [-2].

Express 3: the cross-octave express fingerings are partially available. It helps play a few extra notes in the higher octave without using the octave keys.

[ # ] & [ b ] keys still function on top of any fingering.

	B2	C3	C#3/D#3	D3	D#3/E#3	E3	F3
Basic		●●● B		●●● B		●●● B	●●● B
Extended		○		○		○	○
Express 1	●●● B		●●● B		●●● B	●●● B	●●● B
Express 2				●●● B	●●● B		
Express 3				○	○		

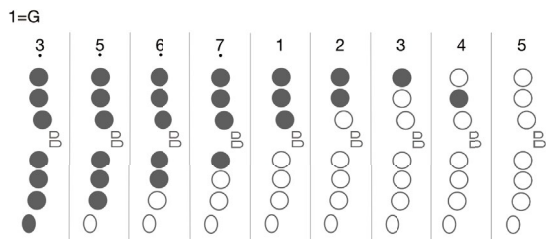
	F#3/G#3	G3	G#3/A#3	A3	A#3/B#3	B3
Basic		●●● B		●●● B		○●● B
Extended	●●● B		●●● B		○●● B	○●● B
Express 1	●●● B	●●● B	●●● B	○●● B	○●● B	○●● B
Express 2	●●● B		●●● B		○●● B	
Express 3						

	C4	C#4	D4	D#4/E#4	E4
Basic					
Extended	○				
Express 1					
Express 2					
Express 3	●●● B	●●● B	●●● B	●●● B	●●● B

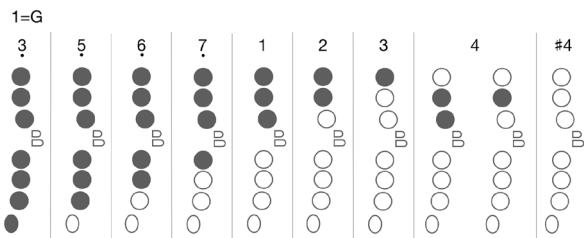


When the upper 6 note keys play together as the 5th (sol):

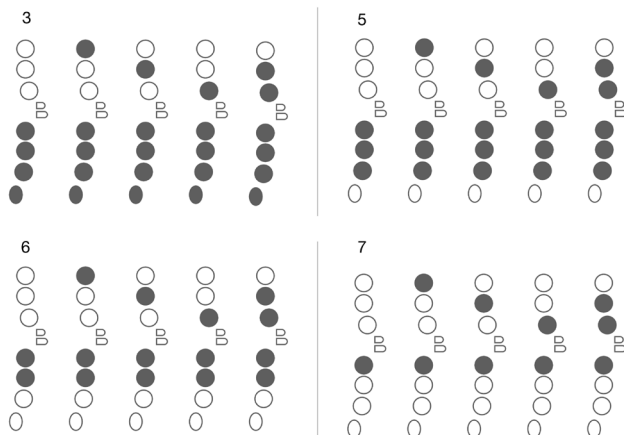
### ► Hulusi fingering



### ► Dizi fingering



Express fingerings are also applicable to both Hulusi and Dizi fingerings:



## MIDI Messages

In MIDI mode, depending on your settings, the following messages will be sent to computer or other sound sources.

Message	Control(s)	Setting(s)
CC 1	Gyroscope (motion control)	Motion Control - Vibrato
CC 2	Breath sensor	Breath Message - CC 2
CC 5	(Sent with notes while portamento is enabled)	Porta. Time
CC 7	Volume	Volume
CC 11	Breath sensor	Breath Message - CC 11
CC 65	Portamento on/off	Magic Button - Portamento
		Motion Control - Portamento
		PB. Wheel - Porta./PB. Down
CC 68	Legato on/off	N/A
CC 80	General purpose 1 as Sound 2 on/off	Magic Button - Sound 2
		[+] Key - Sound 2
		[-] Key - Sound 2
		Motion Control - Sound 2
		PB. Wheel - Sound 2/PB. Down
CC 91	Reverb	Reverb
Program change	Patch switching	(FN & [+] key) - N/A
		(FN & [-] key) - N/A
		[+] Key - Next Patch
		[-] Key - Previous Patch
Pitch bend	Pitch bend up/down	Motion Control - Pitch Bend
		PB. Wheel - (except Off)
After touch	Breath sensor	Breath Message - After Touch

## Specifications

Power supply	USB (Type-C) 5V=1.5A
Battery	2600mAh
Current draw	1.5A
Sensor	Breath sensor, gyroscope
Battery life	10 hours lights off, 6 hours lights on
MIDI interface	USB MIDI, BLE MIDI
Audio ports	Stereo 3.5mm TRS headphone output, 6.35mm TRS audio output
Accessories	Type-C cable, user's manual, Quickstart Guide, neck strap, mouthpiece cap, dust bag
Size	67cm (length) × 4cm (width) × 5cm (height)
Weight	425g (with mouthpiece cap)

The built in BLE module has been certified by SRRC, CMIIT ID: 2016DJ4571.

This product has obtained KC certificate (South Korea), certificate no.: R-R-riT-R1.



Robkoo Information & Technologies Co., Ltd. declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX%3A32014L0053#d1e1428-62-1>



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All products bearing this symbol are waste electrical and electronic equipment (WEEE as in Directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.



Manufacturer: Robkoo Information & Technologies Co., Ltd.  
Address: B109, DoBe E-Manor of Qibao, No. 6 Huazhong Road, Minhang District, Shanghai, China

## Warranty Overview

**PLEASE READ: IMPORTANT INFORMATION ABOUT YOUR WARRANTY AND OTHER LEGAL RIGHTS**

### Limited One Year Warranty

For goods lawfully purchased from Robkoo and/or our authorized resellers, Robkoo warrants that this product will be free of defects in materials and manufacture under normal use for one year. The warranty term begins on the date of in store purchase or the date of delivery (if the purchase is made online). A proof of purchase in the form of receipt and a proof of delivery may be required. The warranty is conditioned on proper use of the product by the purchaser. Robkoo reserves the right to deny this Limited One Year Warranty if the defect is the result of abuse, neglect, alteration or attempted repair by non-authorized personnel. Upon return of the warranty-eligible product to Robkoo or an authorized repair center, your product will be repaired or replaced, free of charge, with a functional equivalent product that is new or refurbished in Robkoo's discretion.

Details about your rights under this warranty policy may vary from region to region, please consult your local reseller or visit Robkoo website ([www.robkoo.com](http://www.robkoo.com)) for more information.

### Additional statutory rights

You may have warranty rights under applicable consumer laws that give you greater rights than our Limited One Year Warranty described above. Accordingly, the Robkoo Limited Warranty is in addition to, and not instead of, your statutory rights.

BY PURCHASING AND USING THIS PRODUCT, YOU AGREE THAT IN NO EVENT SHALL ROBKOO BE HELD LIABLE FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR FOR INJURY, LOSS OR DAMAGE WHICH A PERSON OR PROPERTY MAY SUSTAIN BY USE OF THIS PRODUCT. SOME STATE AND NATIONAL LAWS MAY NOT ALLOW THE EXCLUSION OF DAMAGES. THIS LIMITATION OF LIABILITY APPLIES ONLY WHERE ALLOWED BY LAW.

Warranty and repair policies are subject to change. Please see all of Robkoo's most current policies at Robkoo website ([www.robkoo.com](http://www.robkoo.com)).

## Federal Communications Commission (FCC) Interference Statement

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 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC IDENTIFIER: 2A76C-R1



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内袋、緩衝材



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# DIGITAL ART CRAFTING, SHARING AND LEARNING MADE EASY.

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[contact@robkoo.com](mailto:contact@robkoo.com)

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