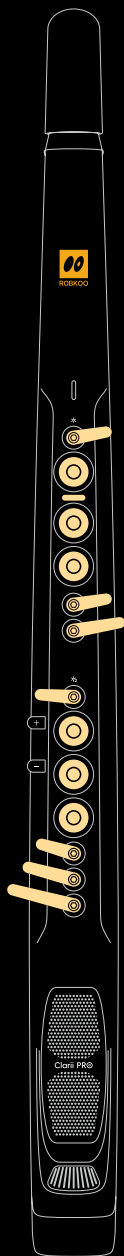




- The Way We Play -

User's Manual

Clarii PRO C20



Please visit our website to obtain the latest version of this manual and manuals in other languages.

www.robkoo.com

Welcome

Robkoo helps everyone become a digital artist.

Robkoo’s Clarii PRO C20 is a digital wind instrument that redefines musical expression through its DuoEngine™ technology, offering 100 high-quality sounds and 179 articulations in a lightweight body with powerful volume.

Thanks for purchasing Clarii PRO C20. Before using this unit, please read and understand this manual. After reading, please keep it available for immediate reference.

For ClariiOS version 3.0.

Key to Symbols

-  Suggested actions or tips
-  Wrong actions or warnings

Contents

Introduction ····· 1

Concept ····· 1

Package Contents ····· 4

Panel Descriptions ····· 5

Panel Descriptions ····· 5

Display ····· 14

Playing ····· 16

Playing Position ····· 16

Basic Fingering Chart ····· 18

Selecting a Sound ····· 18

Selecting Performance Mode ····· 19

Playing Articulations ····· 21

Playing Chord ····· 21

Saving Favorite Sound ····· 22

Sound Bank – System ····· 23

Sound Bank – User ····· 23

Editing User Bank ····· 24

Sound Settings in User Bank ····· 27

Performing along with a Song ····· 28

Using Clarii PRO as a MIDI Controller ····· 29

USB MIDI / BLE MIDI / MIDI Mode

Connecting Headphones or External Amps ····· 31

USB Audio Output ····· 31

Learn the Settings ····· 34

Home Screen ····· 34

Key (transpose) / Shortcut Keys Using FN Button

Mixer ····· 36

Speaker Volume / Output Volume /

Bluetooth Audio / Reverb

Controllers ····· 37

Pitch Bend Up / Pitch Bend Down

Portamento Plate / Portamento Time

Bite Control / Bite Range / Elevation Vibrato

Auto-Vib / * Key / ♯ Key / RP1 Key / RP2 Key

Bis Key / Fingering / Custom Fingering

Key Delay / Breath Adjust / Breath Curve

Overblow

Settings ····· 42

Light Fx / Auto Power Off / Master Tuning

Factory Reset / Language / Version Info.

Breath CC / Note Velocity

Appendix ····· 46

Sound List ····· 46

Voice Commands ····· 54

Fingering Charts ····· 57

MIDI Message ····· 71

Troubleshooting ····· 72

Important Notes ····· 74

Specifications ····· 77

Warranty Overview ····· 78

FCC Warning ····· 79

Introduction

Concept

► Boehm system layout

The 14-key Boehm layout is designed to meet professional playing standards. With a patented, tool-free manual adjustment, you can quickly find your most comfortable hand position for a more effortless and efficient performance.

► Create without limits

Clarii PRO delivers 100 high-quality sounds with 179 articulations that cover a full spectrum, including western orchestral, modern synths, and world instruments. With support for up to 4 articulations per sound, including intelligent harmony, and chords, you get limitless creative possibilities.

► DuoEngine™ - Pro synth inside

With DuoEngine™, Clarii PRO brings you the best of both worlds:

TAO - second-generation sample-based engine that offers hyper-realistic acoustic instrument emulation with boosted dynamics, expressive vibrato, and stereo reverb.

Qi - advanced virtual analog engine developed from our acclaimed Qithesizer. It delivers synthesizer sounds that go beyond reality, with seamless pitch control and intricate breath modulation.

► Instant, performance-ready sound switching

Switch sounds in an instant. The mechanical, sound-switching keys give you clear tactile feedback, preventing accidental

presses. You can store up to 6 favorite sounds for instant recall, with individual key signature and bend range settings. With storage for up to 1,000 user sounds, you can save every detail for your entire setlist.

► Refined linear control

Expand your range of expression. The linear touch portamento plate provides precise control over pitch changes, while the dual-linear touch bend plates allow for both upward and downward bends. The upper pitch bend plate features a detachable thumb hook for added stability, giving you confident control over every emotional nuance.

► Capture every breath

The patented linear bite-vibrato mouthpiece is precise, sensitive, and replaceable, with both flat and saxophone types available. The high-accuracy digital breath sensor dynamically responds to every detail of your breath, while overblowing can trigger effects like growl and flutter.

► Full menu voice control

With thousands of commands in both English and Mandarin, all settings support voice control for quick access. Simply press the voice button and speak your command - such as "Volume 6," "Violin" - for one-step control of your instrument.

► Iconic design

Clarii PRO's streamlined body combines an elegant look with exceptional balance for a natural playing posture, making long sessions relaxed. At just 650 grams, it perfectly balances portability and stability.

► **Dynamic lighting**

See your music. Hear the light. Clarii PRO features breath light that glows with breath velocity and articulations, giving the audience an immediate visual cue of your playing. The customizable lights on the keys are a great tool for beginners, helping you learn fingerings faster.

► **Peak 98 dB Labyrinth Speaker**

Clarii PRO delivers exceptional sound from a compact design. Its 98dB peak dual-speaker system, combined with an inverted tube design, provides a full range of sound – from rich lows to clear highs – that rivals acoustic instruments.

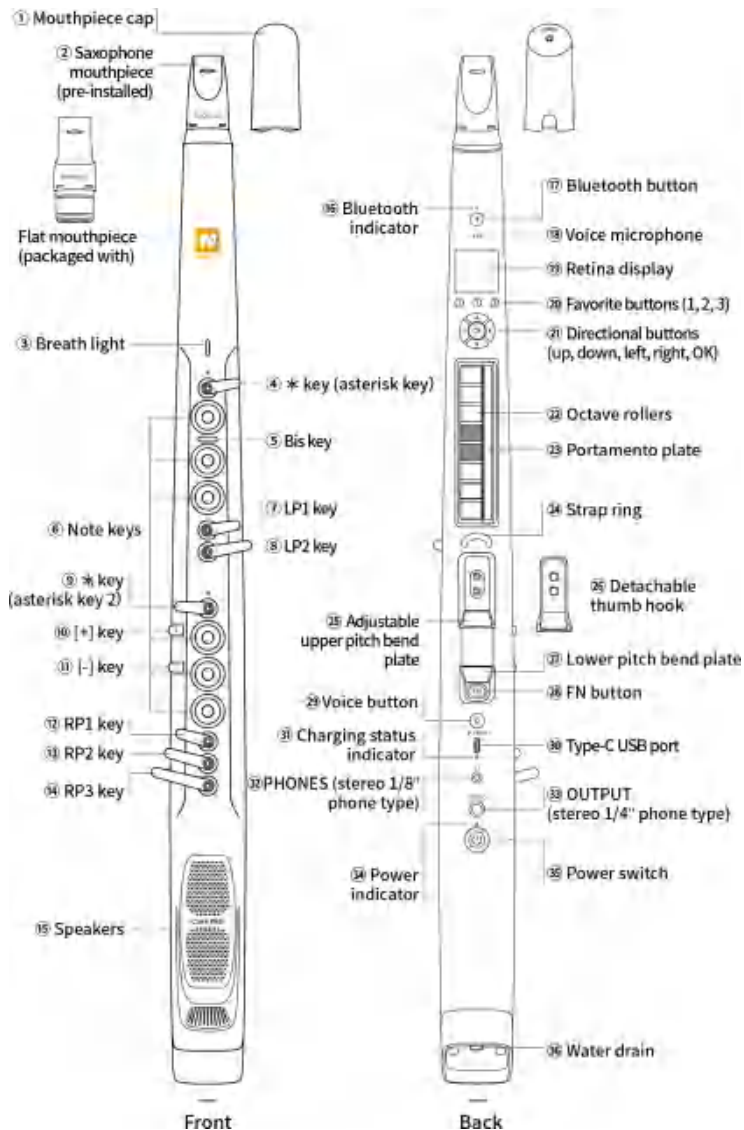
► **Record, play, and share with ease**

With the included EasyRec™ cable, you can plug directly into your phone or computer to record your music – no extra gear needed. For live performance or studio work, Clarii PRO offers both 1/8” and 1/4” stereo outputs, giving you the flexibility you need for any setup.

Package Contents

- Clarii PRO C20 (incl. detachable thumb hook)
- Mouthpiece (2 types)
- Mouthpiece cap
- USB Type-C cable
- EasyRec™ cable (incl. an 1/8” to 1/4” stereo adapter and a Type-C to Lightning adapter)
- Adjustable neck strap
- Screwdriver
- Dedicated hand carry bag (with Bag Strap)
- User’s manual
- Quickstart guide
- Sound list & fingering charts
- Quality Certificate

Panel Descriptions



① Mouthpiece cap

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

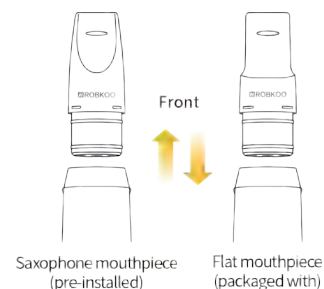
② Saxophone mouthpiece (pre-installed)

Clarii PRO comes with 2 mouthpieces of different types. Both have the same functionality and hardness, to allow for personal preference.

- Saxophone mouthpiece (pre-installed): designed to resemble a traditional saxophone mouthpiece for users with woodwind experience.

- Flat mouthpiece (packaged with): designed with a flat shape for users who prefer this style of mouthpiece.

Both mouthpieces offer the same performance with full control over sounds and airflow. Can be switched out as needed.



③ Breath light

Glowes with different brightness according to breath velocity. When overblow is triggered, a clear visual signal is provided.

④ * key (asterisk key)

Hold to trigger Articulation 1.

⑤ Bis key

Plays the flat 7th note of current scale. In the Key of C, it plays B^b. Enabled only in saxophone fingering and E-wind fingering modes.

⑥ Note keys

Play notes by holding combinations of note keys while blowing into the mouthpiece. Saxophone fingering is the default fingering mode.

⑦ LP1 key

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

⑧ LP2 key

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

⑨ ✱ key (asterisk key 2)

Off by default.

🔍 You can set up ✱ key in “Controllers – ✱ Key” (e.g. trigger Articulation 2, or raise the note by one semitone).

⑩ [+] key

When system bank is applied, click to switch through up to 6 saved sounds.

When user bank is applied, click for the next sound in the current user bank.

⑪ [-] key

When system bank is applied, click to switch backward through up to 6 saved sounds.

When user bank is applied, click for the previous sound in the current user bank.

⑫ RP1 key

Off by default.

🔍 You can set up RP1 key in “Controllers – RP1 Key” (i.e. raise the note by one semitone).

⑬ RP2 key

Off by default.

🔍 You can set up RP2 key in “Controllers – RP2 Key” (i.e. lower the note by one semitone).

⑭ RP3 key

Play notes by holding the key. The key direction can be adjusted to get the best fit with hands.

⑮ Speakers

Built-in dual speakers with an inverted tube design for enhanced sound. Can be used to play built-in sounds and accompaniment music for a more immersive performance.

⑯ Bluetooth indicator

- Flashing light: Bluetooth is on and ready to connect or pair.
- Solid light: Bluetooth is connected and paired.

⑰ Bluetooth button

Turns the Bluetooth audio and BLE MIDI functions on or off.

Press and hold for 1 second to put Clarii PRO in pairing mode (the Bluetooth indicator will begin to flash). In Bluetooth settings of your smart device, find and connect to the Bluetooth device named “Clarii PRO – (last 4 digits of serial number).”

🔍 Read more about Bluetooth audio in “Playing – Performing along with a Song” of this manual.

⑱ Voice microphone

Receives voice commands. For better recognition, speak clearly within 30 cm in a quiet environment.

⑲ Retina display

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

⑳ Favorite buttons (1, 2, 3)

Saves and switches to favorite sounds.

Press and hold favorite button 1, 2, or 3 to save the current sound with individual transpose and pitch bend range. Upon successful saving, click on the same button to switch to the saved favorite sound. To delete saved favorite sound, press and hold favorite button 1, 2, or 3 for 5 seconds.

Pressing these buttons while holding the FN button will expand the favorite sounds to 6 with the same process. Press and hold to save, click to recall.

For easier access, you can also switch through the favorites list by [+] / [-] key on the side of Clarii PRO.

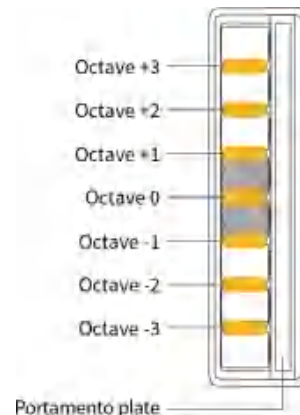
㉑ Directional buttons (up, down, left, right, OK)

Press to navigate between different menus and settings.

- Up/Down buttons: to scroll up and down through options or to adjust settings.
- Left/Right buttons: to switch between menus or to return to the previous menu.
- OK button: to enter or confirm a setting.

㉒ Octave rollers

Consists of 8 touch-sensitive rollers used to play notes in different octaves. The position between two textured rollers indicates the standard pitch. Place your thumb between any two octave rollers and slide up or down to shift octave range up or down. A total of 7 octave ranges can be accessed.



㉓ Portamento plate

On the side of octave rollers is the touch-sensitive linear portamento plate. Press to enable smooth and continuous gliding between notes. Portamento effect changes based on the surface area your thumb covers on the plate.

- ✔ You can set up portamento plate in “Controllers - Portamento Plate.”
- ✔ Read more about portamento plate in “Learn the Settings - Controllers - Portamento Plate” of this manual.

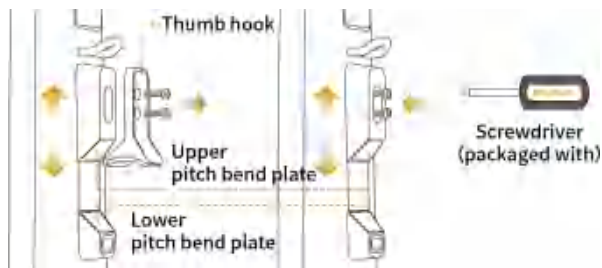
㉔ Strap ring

To attach the neck strap. Before playing, attach the included neck strap to the ring and place it around your neck. This can relieve pressure on your thumb.

㉕ Adjustable upper pitch bend plate

To bend the pitch of sounds. When using the upper pitch bend plate, follow the diagram to remove the thumb hook and store the thumb hook and screws safely.

- ✔ Use the voice commands “Pitch Bend Up” or “Pitch Bend Up 3 Semitones” to set the upper pitch bend plate.



26 Detachable thumb hook

Pre-installed on the upper pitch bend plate. When playing, fit your thumb below the hook to hold Clarii PRO.

- When thumb hook is installed, the upper pitch bend plate is disabled.

27 Lower pitch bend plate

To bend the pitch of sounds.

- Use the voice commands “Pitch Bend Down” or “Pitch Bend Down 3 Semitones” to set the lower pitch bend plate.

28 FN button

Pressing these buttons/keys together will form a number of shortcut keys:

	System Bank	User Bank	MIDI Mode
FN & [+] key	Next sound in system bank	Sound 1 of next user bank	Increase MIDI channel
FN & [-] key	Previous sound in system bank	Sound 1 of previous user bank	Decrease MIDI channel
[+] & [-] key	Favorite sound 1	Sound 1 of current user bank	Program change 1

	System Bank	User Bank	MIDI Mode
FN & [+] & [-] key	System sound 1	Sound 1 of User Bank 1	MIDI channel 1
FN & Up button	Volume up	Volume up	-
FN & Down button	Volume down	Volume down	-
FN & Favorite buttons	Favorite sound 4/5/6 (Hold to save)	-	-
FN & OK button	Save current sound to user bank	Edit current sound	-
FN & * key	Articulation 1: always on/off	Articulation 1: always on/off	Send CC80
FN & ✱ key	Articulation 2: always on/off	Articulation 2: always on/off	Send CC81
FN & * & ✱ key	Articulation 3: always on/off	Articulation 3: always on/off	Send CC82

In the sound list, press Up/Down buttons while holding FN button to quickly switch to the next/previous sound category.

29 Voice button

Press and hold the voice button to use voice commands to control Clarii PRO.

- Access full list of voice commands in “Appendix - Voice Commands” of this manual.
- For better recognition, please speak commands in standard English.

30 Type-C USB port

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

③① Charging status indicator

Turns red when charging, turns green when fully charged.

③② PHONES (stereo 1/8" phone type)

Plug in your headphones to hear Clarii PRO, or use the EasyRec™ cable to connect Clarii PRO to devices such as a computer or a smart phone to record Clarii PRO's audio.

✔ Please make sure the volume is proper before wearing the headphones.

③③ OUTPUT (stereo 1/4" phone type)

Connect this port to a mixer or an amp.

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

③④ Power indicator

Turns green when Clarii PRO is on, turns off when Clarii PRO is off.

③⑤ Power switch

Hold for 2 seconds to power up/off.

③⑥ Water drain

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

Display



① Volume

Shows the current level of volume of built-in speakers and for headphones connected to the PHONES port.

② Current mode

Shows one of the following based on the current mode:

- System Bank
- User Bank
- MIDI Mode

③ Sound number

Shows the number of the current sound.

④ Key (transpose)

When system bank is applied, it shows the global key. Changing the key will affect all sounds.

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

⑤ Fingering mode

Shows the current fingering mode.

⑥ Bluetooth status

- ✂ (Flashing): On, not connected
- ✂: On, connected via BLE MIDI
- ✂: On, connected to Clarii App
- ✂: On, connected via Bluetooth audio: accompaniment music can be played via Bluetooth through Clarii PRO's built-in speakers.

⑦ Battery life

Shows the remaining battery life and charging status.

⑧ Sound name

Name of the current sound.

⑨ Sound attributes

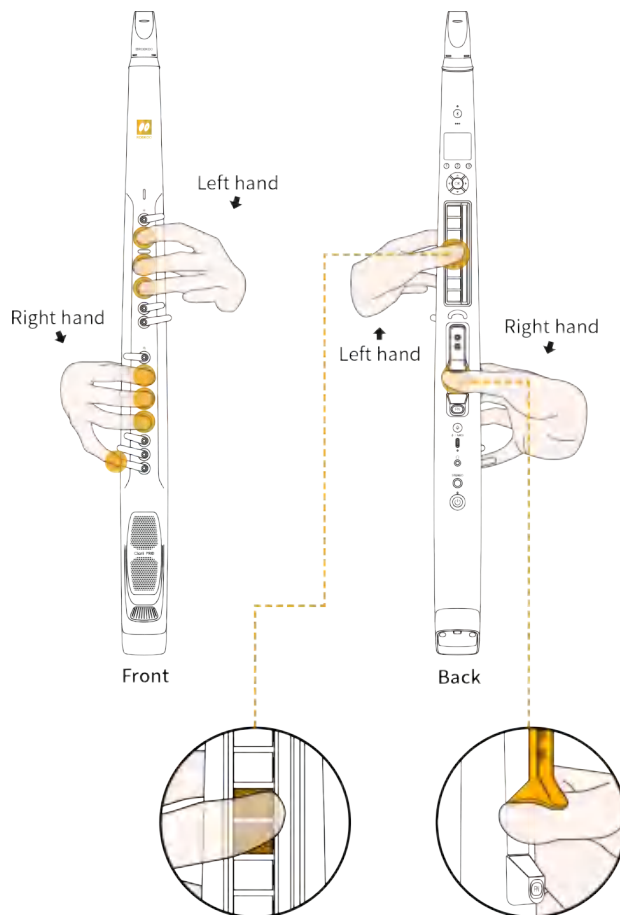
Shows what articulations are activated by different triggers for the current sound.

⑩ Page navigator

Indicates the progress position of the current page.

Playing

Playing Position



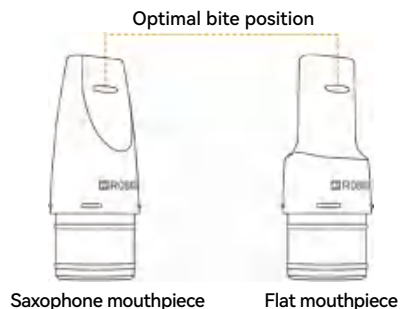
Hold Clarii PRO as the illustration shows, with left hand above right hand. Rest your left thumb between two textured rollers in the middle of octave rollers. Fit your right thumb on the center of pitch bend plates below to support this position.

- ✓ For a more comfortable and secure grip, a detachable thumb hook is pre-installed on the upper pitch bend plate. It can be removed to enable upper pitch bend plate.
- ✓ It is advisable to wear a neck strap.



► Choosing the Mouthpiece

Clarif PRO comes with 2 mouthpieces of different types to allow for personal preference.



Basic Fingering Chart

● Hold

○ Release

C3	D3	E3	F3	G3	A3	B3	C4

Multiple fingering modes available in “Controllers - Fingering.”

- ✓ Access full fingering charts in “Appendix - Fingering Charts” of this manual.

Selecting a Sound



On the home screen, use directional buttons to select sound name, and press OK button to enter sound list.

Use Up/Down buttons to select, or press Up/Down buttons while holding FN button to quickly switch between sound category. Press OK button to confirm.

Selecting Performance Mode

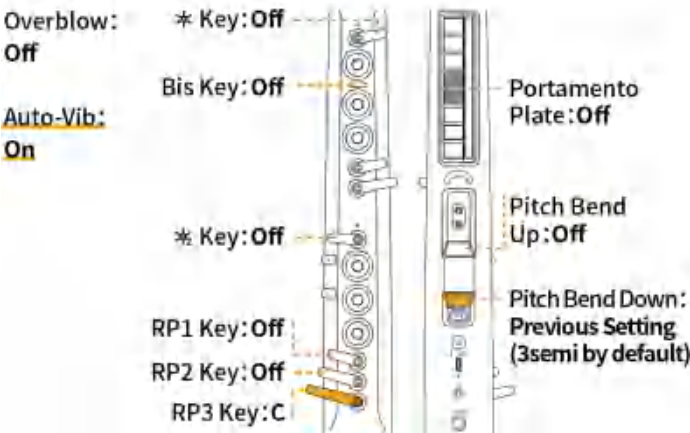
Clarii PRO provides 3 performance modes. Use voice command to select the mode based on your playing style.

Easy Mode (Default): recommended for beginners, this mode is easier to play and includes an automatic vibrato effect.

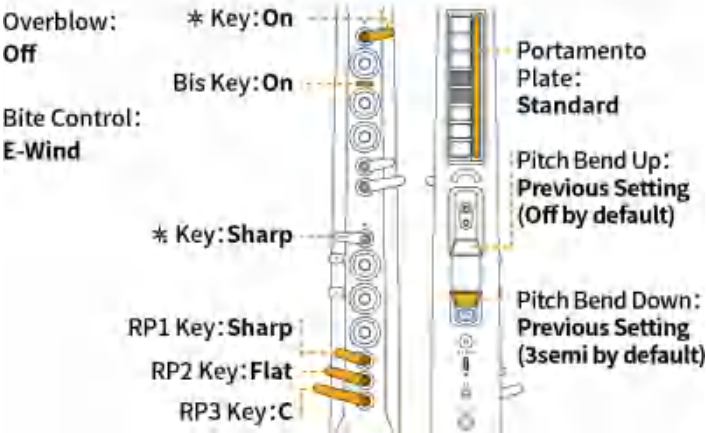
Pro Mode: configured for players with prior experience, this mode supports Articulation 1 and requires proficiency with the semitone keys.

Max Mode: unlocks all articulations, providing maximum control for advanced players.

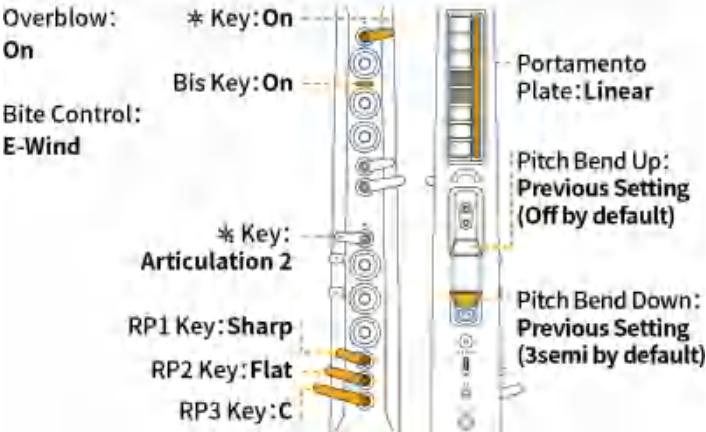
Easy Mode (Default)



Pro Mode



Max Mode

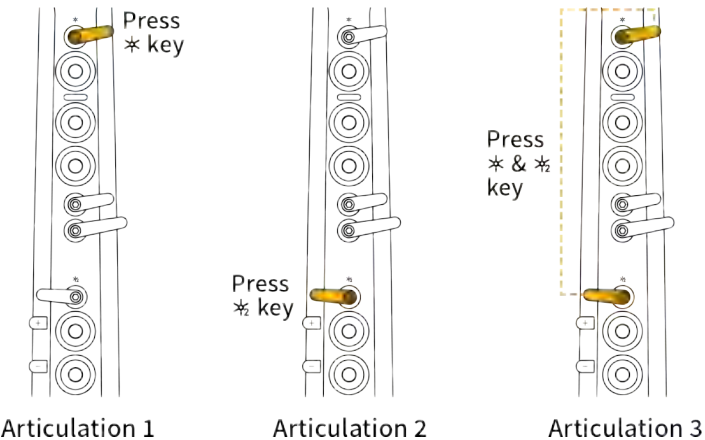


Playing Articulations

Acoustic instrument often uses a variety of articulations (e.g. violin can use vibrato, pizzicato, tremolo, etc.). Clarii PRO supports these articulations with Articulation 1, 2, and 3.

Articulation controls:

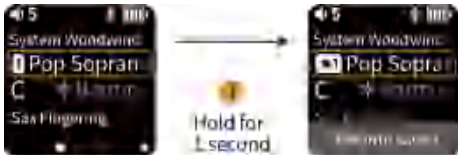
- Articulation 1: press * key. Press FN button and * key together to hold Articulation 1.
 - Articulation 2: press ½ key. Press FN button and ½ key together to hold Articulation 2.
 - Articulation 3: press * key and ½ key. Press FN button, * key and ½ key together to hold Articulation 3.
- ☑ Not all sounds support Articulation 2 and 3. Full list of articulations is available in “Appendix – Sound List” of this manual.



and V triads under the current key. The corresponding chord types are Major, minor, minor, Major, Major, minor and Major (inverted). To alter the chord type, press and hold LP1/LP2 key. The following table illustrates the chords chart in the key of C. Please note that chord articulation cannot be triggered by the notes C#, D#, F#, G#, A#, as chords are built on the natural notes of the scale, not the semitones.

	Notes of the chord			
	-	LP1 key	LP2 key	LP1 key and LP2 key
C	Cmaj C E G	Cmaj C E G	Cmin C E ^b G	C7 C E G B ^b
D	Dmin D F A	Dmaj D F [#] A	Dmin D F A	D7 D F [#] A C
E	Emin E G B	Emaj E G [#] B	Emin E G B	E7 E G [#] B D
F	Fmaj F A C	Fmaj F A C	Fmin F A ^b C	F7 F A C E ^b
G	Gmaj G B D	Gmaj G B D	Gmin G B ^b D	G7 G B D F
A	Amin A C E	Amaj A C [#] E	Amin A C E	A7 A C [#] E G
B	G/B B D G	G/B B D G	Gm/B B ^b D G	G7/B B D F G

Saving Favorite Sound



Playing Chord

Chord articulation is available for sounds such as accordion, piano, and guitar. When chord articulation is active, playing notes C, D, E, F, G, A, B will trigger the respective I, ii, iii, IV, V, vi,

You can register your favorite sounds for instant recall. These are called “favorite sounds.”

Press and hold favorite button 1, 2, or 3 to save the current sound with individual transpose and pitch bend range. Upon successful saving, click on the same button to recall. To delete saved favorite sound, press and hold favorite button 1, 2, or 3 for 5 seconds.

Pressing these buttons while holding the FN button will expand the favorite sounds to 6 with the same process. Press and hold to save, click to recall.

For easier access, you can also switch through the favorites list by [+] / [-] key on the side of Clarii PRO.

Sound Bank - System

The default sound bank with sounds listed in fixed order. When applied, settings of volume, key (transpose), and reverb are effective globally. For example, if Clarii PRO is transposed to the key of G, all sounds will be in G.



Sound Bank - User

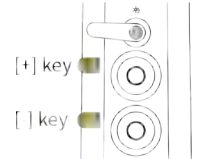
To fulfill practical needs on stage, sounds can be rearranged and saved to user banks with individual settings, including:

- Key (transpose)
- Pitch bend range for upper and lower plates
- Portamento plate
- Portamento time
- Bite control
- Elevation vibrato



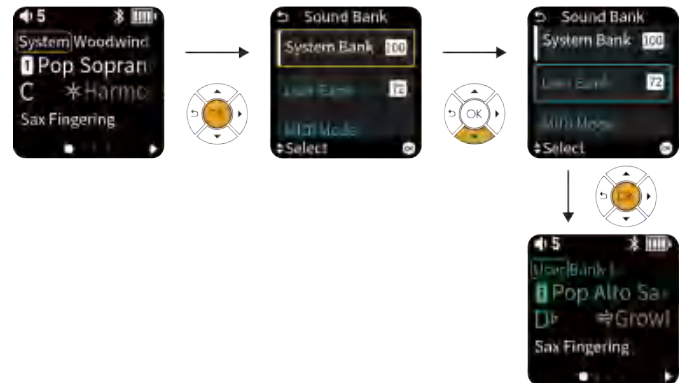
- *key、*key
- Overblow
- Harmony
- Volume adjustment
- Octave shift

When performing, it is convenient to save the sound settings in a user bank in advance. Switch to user bank on the home screen, and then switch between saved sounds by clicking [+] / [-] key during your performance.



Up to 1000 user sounds can be saved and organized across 100 user banks, with each bank storing up to 50 user sounds. Based on performance needs, you can either assign a user bank for each composition, or manage multiple compositions within a single user bank.

When user bank is applied, the sound name and associated sound attributes (e.g. key) will turn green.



▶ Editing User Bank

Saving User Sound

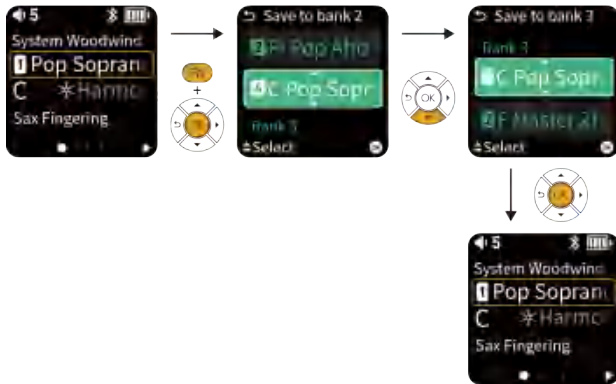
After adjusting the sound and its settings on the home screen, you can save the sound to a user bank:

1. Press FN button and OK button to enter user bank.

2. Use Up/Down buttons to select a slot.
3. Press OK button to confirm.

Saving a sound will not overwrite existing user sounds. It will assign it into the selected slot.

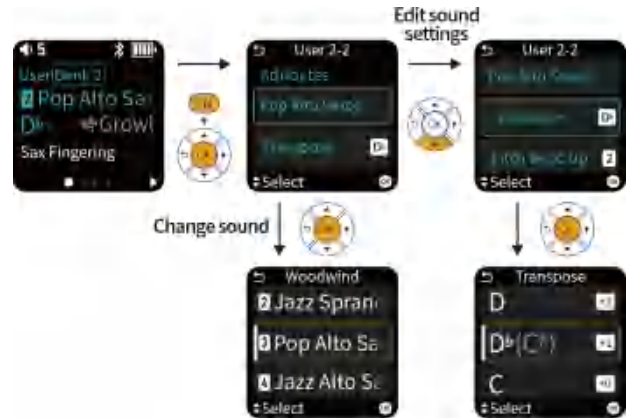
If a sound is moved to the bottom (e.g. saving it to the first slot in User Bank 3 when only 2 banks exist), a new user bank will be created.



Editing User Sound

When user bank is applied (the sound name will turn green), you can edit the user sound:

1. Press FN button and OK button to enter the settings.
2. Adjust the settings (e.g. key, pitch bend range, portamento plate, etc.).
3. You can also keep all the settings and simply change the sound.



Moving User Sound

When user bank is applied, you can move the user sound:

1. Press FN button and OK button to enter the settings.
2. Press Down button and select "Move."
3. Use Up/Down buttons to select a slot, and press OK button to confirm.

Moving a sound will not overwrite existing user sounds. The order will be rearranged automatically.



Deleting User Sound

- Deleting a Sound: when user bank is applied, press FN button and OK button to enter the settings. Press Down button and select “Delete.” This will delete the current sound from the user bank without affecting the system bank.



- Deleting a Bank: find and select the desired user bank on the User Bank Selection screen, and press the Right button to delete.



▶ Sound Settings in User Bank

The following settings are available only for sounds saved to a user bank.

Harmony

A selection of sounds supports harmony articulation, which can be triggered using the * key or ✱ key. The default setting is the recommended harmony interval. You can also set the pitch of the harmony notes to Oct above, 6th above, 5th above, 4th above, 3rd above, 3rd below, 4th below, 5th below, 6th below, Oct below.

Volume Adjustment

Adjusts the volume of current user sound.

Octave Shift

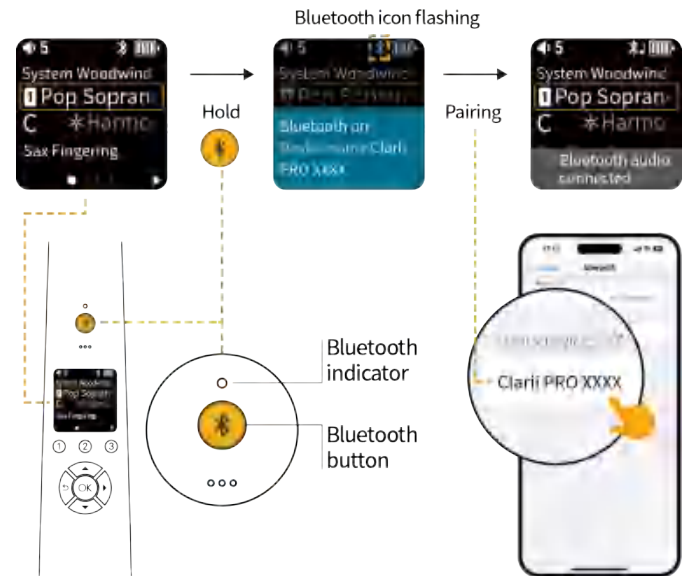
Shifts the default octave of current user sound.

Performing along with a Song

Clarii PRO supports Bluetooth audio, allowing you to play along to your favorite songs wirelessly.

- Bluetooth audio supports only input. Audio cannot be output to Bluetooth speakers or headphones directly.

Connecting Clarii PRO



- Press and hold for 1 second to put Clarii PRO in pairing mode (the Bluetooth indicator will begin to flash).

2. In Bluetooth settings of your smart phone, tablet, or other smart device, find and connect to the Bluetooth device named “Clarii PRO – (last 4 digits of serial number).”
3. Upon successful connection, the accompaniment music will be output through Clarii PRO’s built-in speakers, or headphones for practice in complete silence.

Using Clarii PRO as a MIDI Controller

Clarii PRO can be used as a MIDI controller to control external sound modules in a computer or other smart device. When connected via USB or BLE MIDI, it will send MIDI messages while playing its built-in sounds.

► USB MIDI

Connect Clarii PRO with a computer or other smart device via USB cable, and connect the headphone output of the computer or the smart device to a mixer or an amp.

► BLE MIDI

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

The default Bluetooth device name of Clarii PRO is “Clarii PRO – (last 4 digits of serial number).”

- ☑ The device’s name can be found on the display after Bluetooth is enabled. Serial number (SN) is visible at the physical bottom of Clarii PRO or in “Settings – Version Info.”

► MIDI Mode

Upon successful connection, it is recommended to switch to “MIDI Mode” for a more dedicated MIDI performance experi-

ence. To enable MIDI mode, select either “System” or “User” in the top-left corner of the display, and press OK button to enter. Select “MIDI Mode”, and press OK button to confirm. Once enabled, the display will show MIDI channel number and program change number.



You can adjust breath CC, note velocity and master tuning in “Settings – MIDI & Synth.”



In MIDI mode, pressing these buttons/keys will form a number of shortcut keys:

Keys/Buttons	MIDI Mode
[+] Key	Next program change
[-] Key	Previous program change
[+] & [-] key	Program change 1
FN & [+] key	Increase MIDI channel
FN & [-] key	Decrease MIDI channel
FN & [+] & [-] key	MIDI channel 1

When system or user bank is applied, the MIDI messages sent will vary depending on the sound settings. It is recommended to switch to “MIDI Mode” for a more dedicated MIDI performance experience.

In MIDI mode, pitch bend, portamento, vibrato, overblow, *key and ✱ key settings are effective globally. Articulations including chord, harmony and drone are not supported.

🔍 Access full list of MIDI Messages in “Appendix – MIDI Messages” of this manual.

Connecting Headphones or External Amps

Clarii PRO has 2 audio output ports, stereo 1/8” and stereo 1/4” phone types, to fit different usage scenarios:

- Stereo 1/8” port: to connect headphones or a portable amp. When headphones are plugged in, the built-in sounds and accompaniment music will switch to headphone output, with the built-in speakers muted.
- Stereo 1/4” port: to connect to a mixer, recording equipment, or a PA system. It can be used for stage performances, internal recording or live streaming, ensuring high-quality, low-noise audio output.

🔍 For headphone monitoring, it is recommended to use the stereo 1/8” port.

USB Audio Output

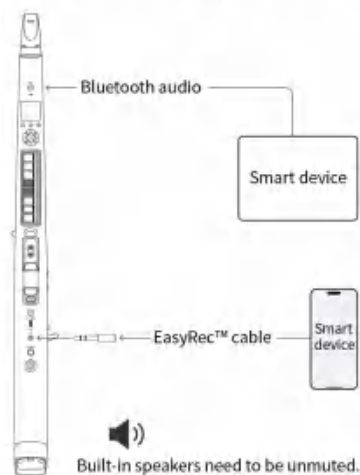
The standard package of Clarii PRO comes with an EasyRec™ cable. Connect Clarii PRO to a smart phone or other device to record both your playing and the accompaniment music.

The accompaniment music can be played through Clarii PRO via

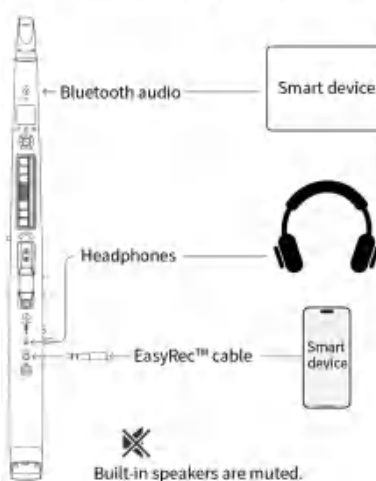
Bluetooth audio. You can use Clarii PRO’s built-in speakers for amplification, or connect headphones or an external amp for monitoring.

🔍 When using USB audio output, it is recommended to set the output volume to 7 to ensure output level.

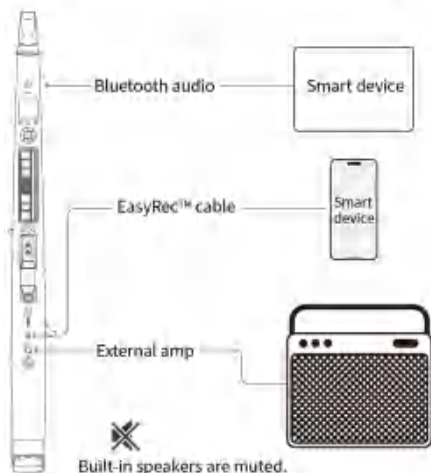
1 Internal Recording + Built-in Speaker Amplification



2 Internal Recording + Headphone Monitoring



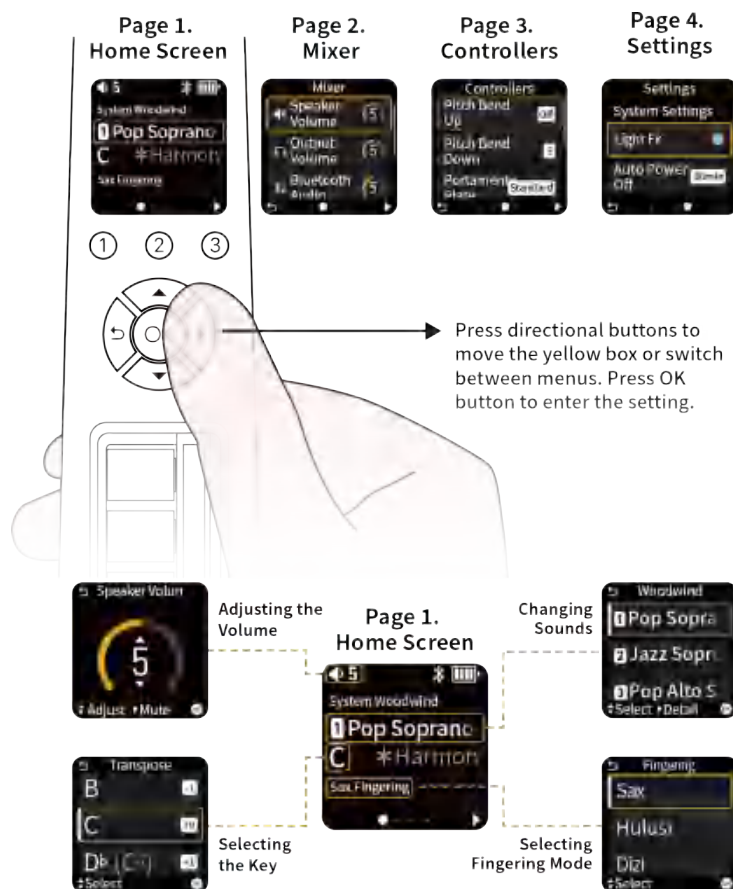
3 Internal Recording + External Amp Monitoring



Learn the Settings

Home Screen

On the home screen, use Up/Down buttons to move the yellow box to access the following settings: volume, current mode, sound list, fingering, key (transpose), and sound attributes.



► Key (transpose)

This adjusts the global key. There are 12 keys: G, A^b, A, B^b, B, C (default), D^b, D, E^b, E, F, and F[#].

The number to the right of the key signature indicates the offset relative to the key of C. A larger number represents a higher pitch, and a smaller number represents a lower pitch.

When user bank is applied, this setting only changes the key of the current user sound.



► Shortcut Keys Using FN Button

	System Bank	User Bank	MIDI Mode
FN & [+] key	Next sound in system bank	Sound 1 of next user bank	Increase MIDI channel
FN & [-] key	Previous sound in system bank	Sound 1 of previous user bank	Decrease MIDI channel
[+] & [-] key	Favorite sound 1	Sound 1 of current user bank	Program change 1
FN & [+] & [-] key	System sound 1	Sound 1 of User Bank 1	MIDI channel 1
FN & Up button	Volume up	Volume up	-
FN & Down button	Volume down	Volume down	-
FN & Favorite buttons	Favorite sound 4/5/6 (Hold to save)	-	-
FN & OK button	Save current sound to user bank	Edit current sound	-
FN & * key	Articulation 1: always on/off	Articulation 1: always on/off	Send CC80

	System Bank	User Bank	MIDI Mode
FN & * key	Articulation 2: always on/off	Articulation 2: always on/off	Send CC81
FN & * & * key	Articulation 3: always on/off	Articulation 3: always on/off	Send CC82

In the sound list, press Up/Down buttons while holding FN button to quickly switch to the next/previous sound category.

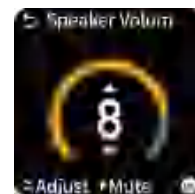
Mixer

► Speaker Volume

This adjusts the volume of built-in speakers. There are 10 levels from 1 to 10, along with mute. Default at level 8.

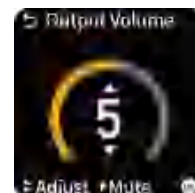
🔍 On the settings page, press the Right button to instantly mute Clarii PRO.

🔍 When an audio port is connected (i.e., PHONES or OUTPUT), built-in speakers will be muted automatically. To enable built-in speaker amplification, raise the speaker volume.



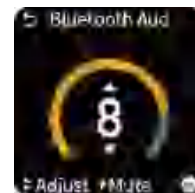
► Output Volume

This adjusts the volume of headphones connected to the PHONES port, as well as the signal output from the OUTPUT port. There are 10 levels from 1 to 10, along with mute. Default at level 5.



► Bluetooth Audio

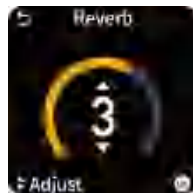
Clarii PRO supports Bluetooth audio, allowing you to play along to your favorite songs wirelessly. Upon successful connection, this



adjusts the volume of the accompaniment music. There are 10 levels from 1 to 10, along with mute. Default at level 8.

► Reverb

This adjusts the level of reverb in performance mode. There are 5 levels from 1 to 5, along with Off.



Controllers

► Pitch Bend Up

This sets the bend range of upper pitch bend plate to Off (default), 1, 2, 3, and 4 semitones.

- Remove the thumb hook to use the upper pitch bend plate.



► Pitch Bend Down

This sets the bend range of lower pitch bend plate to Off, 1, 2, 3 (default), and 4 semitones.



► Portamento Plate

On the side of octave rollers is the touch-sensitive linear portamento plate. Press to enable smooth and continuous gliding between notes.

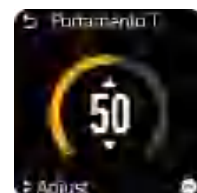
- Off (default)



- Standard: the larger the note interval, the slower the portamento. You can also adjust the overall speed of portamento between notes in “Controllers – Portamento Time.”
- Linear: the larger the surface area your thumb covers on the plate, the slower the portamento.

► Portamento Time

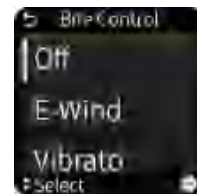
This adjusts the overall speed of portamento between notes, ranging from 0 to 100. The smaller the number, the faster the speed. Level 0 disables portamento.



► Bite Control

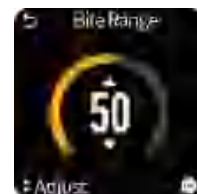
This sets the vibrato triggered by biting the mouthpiece.

- Off
- E-Wind: cyclically varying the strength of your bite on the mouthpiece triggers vibrato. The vibrato’s depth and speed change with the biting strength and speed.
- Vibrato (default): biting the mouthpiece triggers vibrato, and releasing it stops the vibrato. The vibrato’s depth increases with the biting strength.



► Bite Range

This sets the maximum vibrato depth in cents, when bite control is set to “E-Wind.” The default value is 50, which is equivalent to a semitone interval.



► Elevation Vibrato

Elevating Clarii PRO to a certain angle triggers vibrato. The larger the angle, the stronger the vibrato.

- Off (default): disables elevation vibrato.
- 1: the lowest trigger angle.
- 5: the highest trigger angle.



► Auto-Vib

Off by default. Setting this to On enables an automatic vibrato effect, and disables “Bite Control - Vibrato” and elevation vibrato. “Bite Control - E-Wind” will remain effective.



► * Key

- Off (default)
- Artl. 1: press to trigger Articulation 1 of the current sound, release to restore.
- ☑ Press FN button and * key to set Articulation 1 to “always-on/off.”
- ☑ Full list of articulations is available in sound attributes on the home screen or in “Appendix - Sound List” of this manual.



► *½ Key

- Off (default)
- Sharp: press to raise the note(s) played by one semitone, release to restore.
- Artl. 2: press to trigger Articulation 2 of the current sound, release to restore.
- ☑ Press FN button and *½ key to set Articulation 2 to “always-on/off.”
- ☑ Full list of articulations is available in sound attributes on the home screen or in “Appendix - Sound List” of this manual.



► RP1 Key

- Off (default)
- Sharp: press to raise the note(s) played by one semitone, release to restore.



► RP2 Key

- Off (default)
- Flat: press to lower the note(s) played by one semitone, release to restore.



► Bis Key

- Off (default)
- On: press to play the flat 7th note of current scale.



► Fingering

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



- ☑ Access full fingering charts in “Appendix - Fingering Charts” of this manual.

► Custom Fingering

This adds extra fingerings for any note. Up to 20 custom fingerings can be added.

1. From the home screen, press the Right button to navigate to the Controllers menu. Select Custom Fingering, and press OK button to enter.
2. On the fingering editing screen, press the note keys on the Clarii PRO to light up the desired key combination.

3. Press the Up/Down buttons to assign a note to the current key combination. Each press will move up or down by a semi-tone.

4. Once finished, press OK button to save the setting.



Upon successful saving, the fingering will appear in your Custom Fingering list and can be turned on when needed.

► Key Delay

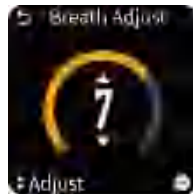
This adjusts the delay of note keys. 8 levels are available from 0 to 70 ms, with 20 ms as default. The lower the number is, the faster note keys respond.

☑ Lower numbers mean more sensitive keys, causing unwanted notes.



► Breath Adjust

This adjusts the breath settings of Clarii PRO. It can be adjusted between 0 to 10, with level 7 as default. The higher the level number is, the more breath-saving Clarii PRO becomes.



► Breath Curve

This adjusts how Clarii PRO responds to breath velocity.

- L2-Lightest: produces a loud volume with minimal breath, more difficult to control dynamics.
- L1-Light
- M-Middle (default)
- H1-Hard
- H2-Hardest: requires more breath to produce a loud volume, easier to control dynamics.



► Overblow

Off by default. This will disable the articulations that are triggered by high breath velocity (i.e. overblowing).

☑ Full list of articulations is available in sound attributes on the home screen or in “Appendix – Sound List” of this manual.



Settings

► Light Fx

Clarii PRO features both key lights and a breath light. The key lights are light rings under each note key on the front panel, indicating the current fingering. The breath light, bar-shaped light located on the upper part of the front panel, visualizes breath velocity and articulation. Through this setting, you can turn off the lights or select a different color.



Lighting Indicators

Breath Light

- Sound Loading: turns white when a sound is loading and cannot be played.
- Breath Velocity: glows with different brightness according to breath velocity.
- Vibrato: glows with different brightness according to the vibrato rhythm.
- Overblow: flashes in sync according to articulation rhythm.

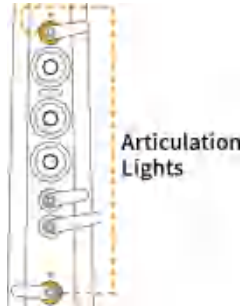
Key Lights

- Sample Range: turns white when playing outside the sample range.
- Portamento: displays a gradual transition effect when portamento is applied.
- Pitch Bend: changes according to the pitch when pitch bend is applied. The lights shift to warmer colors as the pitch rises and cooler colors as it falls.

Articulation Lights

When * key and ✖ key are set to Artl. 1 and Artl. 2, their light rings will indicate whether the articulation is triggered or not.

- White Light: the Articulation 1 or 2 is triggered. The light will turn on when * key or ✖ key is pressed and off when released.
- 2 White Lights: the Articulation 3 is triggered when both lights turn on at the same time. Not all sounds support Articulation 3.
- Solid White Light: the articulation is set to “always-on.” You can adjust this using the FN button + * key or FN button + ✖ key combination.
- Dim Light: the current sound does not support this articulation.



- No Light: the * key or ✖ key is set to “Off.” You can adjust this in the Controllers menu.
- Colored Light on ✖ Key: the ✖ key is set to “Sharp” and isn’t being used as “Artl. 2.”

► Auto Power Off

Clarii PRO will power off 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: 5min, 30min, 60min, and “Never.”



► Master Tuning

Default at 440 Hz. When needed, it can be adjusted in 1 Hz increments between 435 Hz to 445 Hz to match different instruments.



► Factory Reset

Clarii PRO supports 2 reset options:

- Key Calibration: factors such as temperature or air pressure may affect the sensitivity of certain note keys. To fix this, select and enter “Key Calibration.” Press OK button and release all the note keys. After the on-screen countdown, the note keys will be recalibrated for a more accurate response. This function is for occasional use only.
- Reset Settings: restores all settings to their default while preserving the user bank data, favorite sound 1, 2, and 3, and additional sounds you’ve installed. All custom fingerings will be disabled, but not deleted.
- Erase All: returns the settings and erases all custom fingerings/sounds/user banks that are installed.



🔍 If you intend to transfer ownership of Clarii PRO, it is recommended to select “Erase All.”

► Language

Chinese (simplified) and English are supported. If the language is set incorrectly, press the voice button 5 times to return to language selection.



► Version Info.

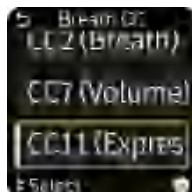
This displays the model name, serial number (SN), and version information.



► Breath CC

This selects what type of MIDI message the breath sensor sends.

- CC2
- CC7
- CC11 (default)



☑ “Breath CC” and “Note Velocity” are settings applied to MIDI mode only, and do not affect the onboard sounds. Read more about MIDI in “Playing - Using Clarii PRO as a MIDI Controller” of this manual. Access full list of MIDI Messages in “Appendix - MIDI Messages” of this manual.

► Note Velocity

This sets the note-on velocity values for MIDI output. When set to “Dynamic” (default), the velocity value is determined by the strength of your tonguing. This makes it easier to trigger multi-layered samples. A fixed value is also supported.



Appendix

Sound List

Details all sounds and articulations available with ClariiOS 3.0 on the Clarii PRO.

No.	Category	Sound	Articulation 1 *key	Articulation 2 *key	Articulation 3 *key+*key	Over-blow	Elevation	Engine
1	Wood-wind	Pop Soprano Saxophone	Harmony	-	-	-	-	TAO
2		Jazz Soprano Saxophone	Growl	Harmony	-	Growl	Auto-vib	TAO
3		Pop Alto Saxophone	Growl	Harmony	-	Growl	Auto-vib	TAO
4		Jazz Alto Saxophone	Growl	Harmony	-	Growl	Auto-vib	TAO
5		Tenor Saxophone	Growl	Harmony	-	Growl	Auto-vib	TAO
6		Baritone Saxophone	Growl	Harmony	-	Growl	Auto-vib	TAO
7		Flute	Flutter	Harmony	-	-	Auto-vib	TAO
8		Oboe	Harmony	-	-	-	Auto-vib	TAO
9		English Horn	Harmony	-	-	-	Auto-vib	TAO
10		Clarinet	Flutter	Harmony	-	-	Auto-vib	TAO
11		Bassoon	Harmony	-	-	-	Auto-vib	TAO
12		Harmonica	Growl	Harmony	Chord	Growl	Auto-vib	TAO
13		Recorder	Flutter	Harmony	-	-	Auto-vib	TAO
14		Whistle	-	-	-	-	Auto-vib	Qi
15	Brass	Pop Trumpet	Harmony	-	-	-	Auto-vib	TAO
16		Jazz Trumpet	Flutter	Harmony	-	Flutter	Auto-vib	TAO
17		Muted Trumpet	Flutter	Harmony	-	Flutter	Auto-vib	TAO
18		Flugelhorn	Flutter	Harmony	-	-	Auto-vib	TAO
19		Trombone	Flutter	Harmony	-	-	Auto-vib	TAO
20		French Horn	Flutter	Harmony	-	-	Auto-vib	TAO
21		Tuba	Flutter	Harmony	-	-	Auto-vib	TAO
22		Brass Section	Harmony	Chord	-	-	-	TAO
23	Strings	Classical Violin	Pizzicato	Harmony	Tremolo	-	Auto-vib	TAO
24		Fiddle	Pizzicato	Harmony	Tremolo	-	Auto-vib	TAO

No.	Category	Sound	Articulation 1 *key	Articulation 2 *key	Articulation 3 *key+*key	Over-blow	Elevation	Engine
25	Strings	Viola	Pizzicato	Harmony	Tremolo	-	Auto-vib	TAO
26		Cello	Pizzicato	Harmony	Tremolo	-	Auto-vib	TAO
27		Contrabass	Pizzicato	Harmony	-	-	Auto-vib	TAO
28		Strings	Harmony	Chord	-	-	-	TAO
29		Harp	Harmony	Chord	-	-	-	TAO
30	Ethnic	Master Zhudi	Flutter	Harmony	-	Flutter	Auto-vib	TAO
31		Zhudi 2	Flutter	Harmony	-	Flutter	Auto-vib	TAO
32		Bawu	Flutter	Harmony	-	-	Auto-vib	TAO
33		Master Xiao	Airflow attack	Mordent	Harmony	-	Auto-vib	TAO
34		Xiao 2	Flutter	Harmony	-	-	Auto-vib	TAO
35		Master Hulusi	Drone	Tremolo	Trill	Flutter	Auto-vib	TAO
36		Xun	Accent vibrato	Harmony	-	-	Auto-vib	TAO
37		Guanzi	Flutter	Harmony	-	-	Auto-vib	TAO
38		Master Suona	Flutter	Harmony	-	Flutter	Auto-vib	TAO
39		Sheng	Harmony	Accent tremolo	Chord	-	Auto-vib	TAO
40		Morin Khuur	Drone	Harmony	-	-	Auto-vib	TAO
41		Pop Erhu	Tremolo	Harmony	-	-	Auto-vib	TAO
42		Master Erhu	Tremolo	Harmony	-	-	Auto-vib	TAO
43		Banhu	Harmony	-	-	-	Auto-vib	TAO
44		Master Jinghu	Tremolo	Harmony	-	-	Auto-vib	TAO
45		Pipa	Roll	Harmony	Auto-roll	-	Auto-vib	TAO
46		Yangqin	Roll	Harmony	Auto-roll	-	-	TAO
47		Guzheng	Roll	Harmony	Auto-roll	-	Auto-vib	TAO
48		Guqin	Harmonics	Harmony	-	-	Auto-vib	TAO
49		Shakuhachi	Flutter	Harmony	-	-	Auto-vib	TAO
50		Ryuteki	Flutter	Harmony	-	-	Auto-vib	TAO
51		Shamisen	Harmony	-	-	-	Auto-vib	TAO
52		Sitar	Drone	Harmony	-	-	Auto-vib	TAO
53		Bagpipe	Drone	Harmony	-	-	-	TAO
54		Tin Whistle	Flutter	Harmony	-	-	Auto-vib	TAO
55		Pan Flute	Harmony	Chord	-	-	Auto-vib	TAO

No.	Category	Sound	Articulation 1 *key	Articulation 2 *key	Articulation 3 *key+*key	Over-blow	Elevation	Engine
56	Key-board	Pipe Organ	Chord	Harmony	-	-	-	TAO
57		Accordion	Chord	Harmony	-	-	Auto-vib	TAO
58		Grand Piano	Sustain	Harmony	Chord	-	-	TAO
59		Electric Piano	Sustain	Harmony	Chord	-	-	TAO
60		Music Box	Harmony	Chord	-	-	-	TAO
61	Synth	Dragon	Flutter	Harmony	-	Flutter	Auto-vib	TAO
62		Phoenix	Flutter	Harmony	-	Flutter	Auto-vib	TAO
63		Stellar	Flutter	Harmony	-	Flutter	Auto-vib	TAO
64		80s Gamer	Flutter	Harmony	-	Flutter	Auto-vib	TAO
65		Firefly	Flutter	Harmony	-	Flutter	Auto-vib	TAO
66		Heal	Flutter	Harmony	-	Flutter	Auto-vib	TAO
67		Classic Lead	Flutter	Harmony	-	Flutter	Auto-vib	TAO
68		Ethnic Lead	Flutter	-	-	Flutter	Auto-vib	Qi
69		Saxy Lead	Flutter	-	-	Flutter	Auto-vib	Qi
70		Glassy Sine	Flutter	-	-	Flutter	Auto-vib	Qi
71		Di Mo	Flutter	-	-	Flutter	Auto-vib	Qi
72		Triangle Lead	Flutter	-	-	Flutter	Auto-vib	Qi
73		New Age	-	-	-	-	Auto-vib	Qi
74		Funk Saw Lead	-	-	-	-	Auto-vib	Qi
75		RK Lead	Growl	Harmony	-	Growl	Auto-vib	TAO
76		PerfecFifth	-	-	-	-	Auto-vib	Qi
77		Female Voice Ah	Harmony	Chord	-	-	-	TAO
78		Solfege C	-	-	-	-	-	TAO
79		Synth Strings	-	-	-	-	Sfx	Qi
80		Bright Wind	-	-	-	-	Auto-vib	Qi
81		Synth Clarinet	Flutter	-	-	Flutter	Auto-vib	Qi
82		Synth Xun	Flutter	-	-	Flutter	Auto-vib	Qi
83		Acid Bass	-	-	-	-	Sfx	Qi
84		Judd Qi BNN	-	-	-	-	Auto-vib	Qi
85		Takara Wave BNN	-	-	-	-	Auto-vib	Qi
86		Yawaraka Saw BNN	-	-	-	-	Auto-vib	Qi

No.	Category	Sound	Articulation 1 *key	Articulation 2 *key	Articulation 3 *key+*key	Over-blow	Elevation	Engine
87	Guitar & Bass	Clean Guitar	Sustain	Harmony	Chord	-	Auto-vib	TAO
88		Nylon Guitar	Sustain	Harmony	Chord	-	Auto-vib	TAO
89		Steel Guitar	Sustain	Harmonics	Chord	-	Auto-vib	TAO
90		Ukulele	Sustain	Harmony	Chord	-	Auto-vib	TAO
91		Electric Bass	Sustain	Harmony	-	-	Auto-vib	TAO
92	Percussion	Timpani	Roll	Harmony	-	-	-	TAO
93		Taiko	Misc. Artl.	-	-	-	-	TAO
94		Vibraphone	Tremolo	Harmony	Chord	-	Auto-vib	TAO
95		Marimba	Tremolo	Harmony	Chord	-	-	TAO
96		Glockenspiel	Tremolo	Harmony	Chord	-	-	TAO
97		Orchestral Drum Kit	Misc. Artl.	-	-	-	-	TAO
98		Chinese Percussion	Misc. Artl.	-	-	-	-	TAO
99		Standard Drum Kit	-	-	-	-	-	TAO
100		Electronic Drum Kit	Sfx	-	-	-	Sfx	TAO

- By default, * key is turned off. To trigger Articulation 2, set the * key function to “Artl. 2” in the Controllers menu.
- It is recommended to use tonguing when playing plucked, struck or percussion instruments.
- For the Morin Khuur sound, the 'horse neigh' technique is triggered by playing an octave+3 note with any fingering.
- Read more about percussion in the complete mapping charts later in this manual.

TAO - second-generation sample-based engine that offers hyper-realistic acoustic instrument emulation with boosted dynamics, expressive vibrato, and stereo reverb.

Qi - advanced virtual analog engine developed from our acclaimed Qithesizer. It delivers synthesizer sounds that go beyond reality, with seamless pitch control and intricate breath modulation.

► Orchestral Drum Kit Mapping

	Sound					
Note						
Octave +3	Sleigh Bells	Cow Bell		Wind Chimes desc.		Wind Chimes asc.
Octave +2	L Wood Block	H Wood Block		Castanets		
Octave +1	Ride			Tambourine (Articulation 1: Roll)		
Octave 0	Cymbal		Bass & Cymbal	Bass Drum		
Octave -1	Timpani					

	Sound					
Note						
Octave +3	Wind Chimes asc.	-				
Octave +2	L Agogo	H Agogo	L Bongo		H Bongo	
Octave +1	Mute Triangle	Open Triangle	L Conga		H Conga	
Octave 0	Snare (Articulation 1: Snare Roll)					
Octave -1	Timpani					

► Chinese Percussion Mapping

	Sound					
Note						
Octave +3	Bianzhong					
Octave +2	Bianzhong					
Octave +1	Wooden Bell 1	Wooden Bell 2	Tanggu_Large (Articulation 1: Side)			
Octave 0	Luo_Large	Tam Tam (Articulation 1: Roll)		Drum_Large (Articulation 1: Side)		
Octave -1	Bo_Large	(Mute)	Bo_Medium	(Mute)	Bo_Small	Jingluo

	Sound					
Note						
Octave +3	Bianzhong	-				
Octave +2	Bianzhong					
Octave +1	Tanggu_Small (Articulation 1: Side)					
Octave 0	Paiban		Bangu (Articulation 1: Side)			
Octave -1	(Mute)	Luo_Small	(Mute)	Cha_Large	(Mute)	Cha_Small

► Taiko Mapping

	Sound						
Note							
Octave +2	Taiko-5 Big (Articulation 1 : Taiko-5 Side)						
Octave +1	Taiko-4 Big (Articulation 1 : Taiko-4 Side)						
Octave 0	Taiko-3 Big (Articulation 1 : Taiko-3 Side)						
Octave -1	Taiko-2 Big (Articulation 1 : Taiko-2 Side)						
Octave -2	Taiko-1 Big (Articulation 1 : Taiko-1 Side)						

	Sound				
Note					
Octave +2	Taiko-5 Small (Articulation 1 : Taiko-5 Side)				
Octave +1	Taiko-4 Small (Articulation 1 : Taiko-4 Side)				
Octave 0	Taiko-3 Small (Articulation 1 : Taiko-3 Side)				
Octave -1	Taiko-2 Small (Articulation 1 : Taiko-2 Side)				
Octave -2	Taiko-1 Small (Articulation 1 : Taiko-1 Side)				

► Std./E Drum Kit Mapping

	Sound				
Note					
Octave +3	Percussions / Sfx				
Octave +2	Closed Hi-Hat & Snare		Open Hi-Hat & Snare		Ride & Snare
Octave +1	Closed Hi-Hat & Kick		Open Hi-Hat & Kick		Ride & Kick
Octave 0	Closed Hi-Hat		Open Hi-Hat		Ride
Octave -1	Crash & Kick		Crash & Kick		Crash & Kick
Octave -2	-				

	Sound						
Note							
Octave +3	Percussions / Sfx		-				
Octave +2	Tom 2			Tom 1			
Octave +1	Tom 4 / Floor Tom			Tom 3			
Octave 0	Snare	Snare Stick	Snare	Snare Stick	Snare	Snare Stick	Snare
Octave -1	Crash			Kick			
Octave -2	-						Stick Hit

Voice Commands

Press and hold the voice button to start recognition, release to stop. Wake word for activation is not required.

Setting	Command	Remark
Sound	Pop Soprano Saxophone	Use the full sound name (e.g., “Tenor Saxophone”), or a common abbreviation (e.g., “Tenor”) to select a sound.
	Tenor	Some sounds support shorthand commands for easier access.
Finger-ing	Saxophone Fingering	
	Dizi Fingering	
	Hulusi Fingering	
	EVI Fingering	
	Whistle Fingering	
	E-Wind Fingering	
Sound Bank	System Bank	
	User Bank 1	Supports voice commands for the first 10 user banks, such as “User Bank 1” or “User Bank 2.”
	MIDI Mode	
Key	Key of G	Supports voice commands for 12 keys. For G#, use “G-sharp” or “A-flat.”
Volume	Volume 1	Supports volume adjustments from 0 to 10. The speaker or output volume will change depending on the PRO’s audio output status.
	Increase Volume	
	Decrease Volume	
	Mute	These commands all work: “Volume 0,” or “Mute.”

Setting	Command	Remark
Reverb	Reverb 1	Supports reverb adjustments from 0 to 10.
	Increase Reverb	
	Decrease Reverb	
	Reverb Off	These commands all work: "Remove Reverb," or "Reverb Off."
Upper Pitch Bend Plate	Pitch Bend Up Off	These commands all work: "Turn Off Pitch Bend Up," or "Pitch Bend Up Off."
	Pitch Bend Up One Semitone	Supports pitch bend range adjustment from 1 to 4 semitones.
Lower Pitch Bend Plate	Pitch Bend Down Off	These commands all work: "Turn Off Pitch Bend Down," or "Pitch Bend Down Off."
	Pitch Bend Down One Semitone	Supports pitch bend range adjustment from 1 to 4 semitones.
Overblow	Overblow On	
	Overblow Off	
Portamento Plate	Portamento Off	
	Portamento Standard	
	Portamento Linear	
Bite Control	Bite Control Off	
	Bite Control E-Wind	
	Bite Control Vibrato	

Setting	Command	Remark
Performance Mode	Easy Mode	
	Pro Mode	
	Max Mode	
Language	中文	
	English	

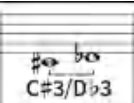
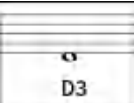
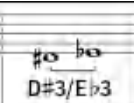
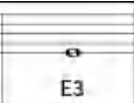
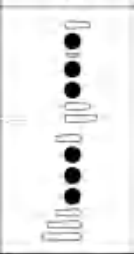
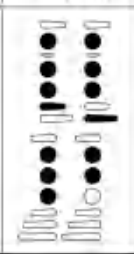
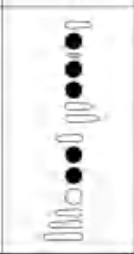
Use the following commands to quickly call up the corresponding setting:

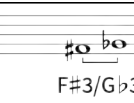
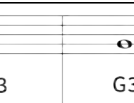
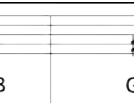
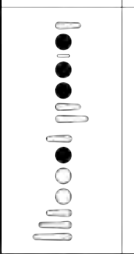
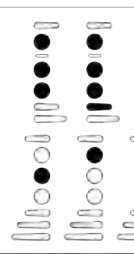
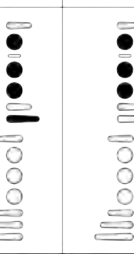
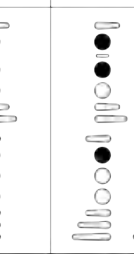
Portamento Plate	Bis Key	Bluetooth Audio	Strings
Bite Control	Breath CC	Pitch Bend Up	Ethnic
Bite Range	Note Velocity	Pitch Bend Down	Keyboard
Key Delay	Master Tuning	Reverb	Synth
Breath Adjust	Light Effects	Overblow	Guitar And Bass
Breath Curve	Auto Power Off	Transpose	Percussion
Elevation Vibrato	Key Calibration	Factory Reset	Volume Adjustment
Asterisk Key	Custom Fingering	Version Info	Harmony
Asterisk Key 2	MIDI Mode	Serial Number	Portamento Time
RP1 Key	Mixer	Woodwind	Fingering
RP2 Key	Volume	Brass	Home Screen

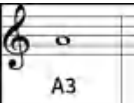
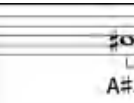
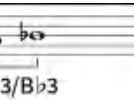
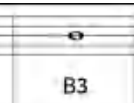
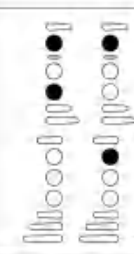
Fingering Charts

● Hold
 ○ Release

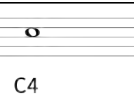
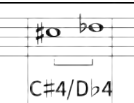
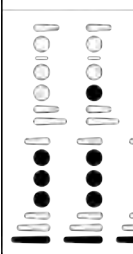
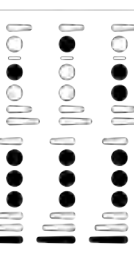
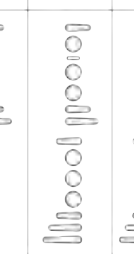
Sax Fingering

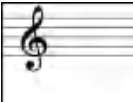
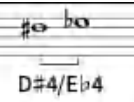
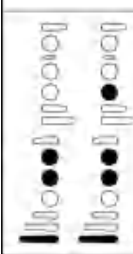
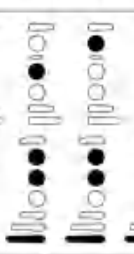
				
				

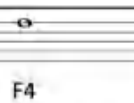
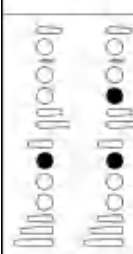
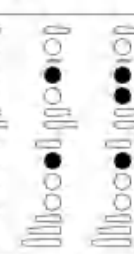
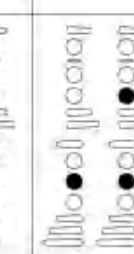
			
			

Sharps/flats can usually be played without semitone keys by using alternative express fingerings. Meanwhile, express octave fingerings are available for certain notes in a higher/lower octave. It means that some notes beyond one octave can be played without using octave rollers:

E2	F2	F#2/Gb2	G2	G#2/Ab2

A2	A#2/Bb2	B2	C#3/Db3

► Hulusi Fingering

E2	G2	A2	B2	C3	D3	E3	F3	G3	A3	B3

► Dizi Fingering

E2	G2	A2	B2	C3	D3	E3

F3	F#3	G3	A3	B3

► Express High Octave Fingering

Applicable to Hulusi and Dizi fingerings.

E3					G3				

A3					B3				

► Express Low Octave Fingering

Applicable to Hulusi and Dizi fingerings.

B1	C2	C#2/D♭2	D2	D#2/E♭2	E2	F2	F#2/G♭2

Dizi Only

► E-Wind Fingering

Inheriting the classic EWI fingering, pressing RP3 key will lower the pitch of any fingering by one whole step. Therefore, it does not support express low octave fingering.

G2	A2	B2	C3	D3	E3	F3	F#3

► 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 rollers.

Express 1&2: 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 [±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.

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

	C3	C#3/Db3	D3	D#3/Eb3	E3
Basic					
Extended					
Express1					
Express2					
Express3					

	F3	F#3/Gb3	G3	G#3/Ab3	A3
Basic					
Extended					
Express1					
Express2					
Express3					

Basic					
Extended					
Express1					
Express2					
Express3					

Basic				
Extended				
Express1				
Express2				
Express3				

► **Whistle+ Fingering**

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

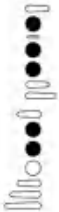
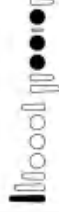
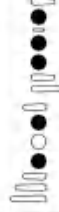
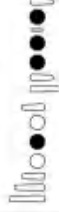
Acoustic: some of the fingerings existing in the acoustic counterpart are programmed and listed here.

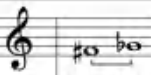
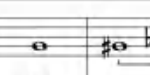
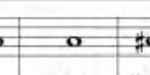
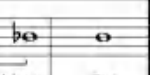
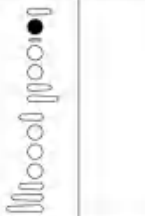
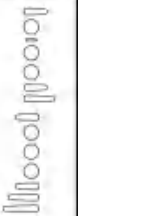
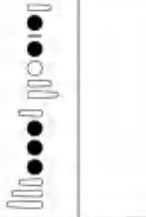
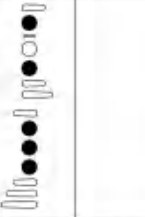
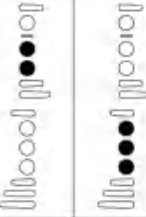
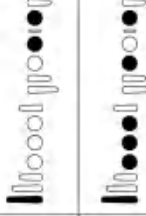
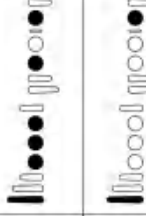
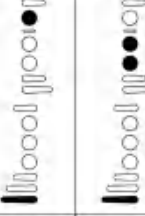
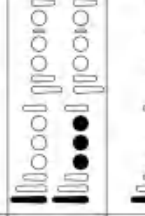
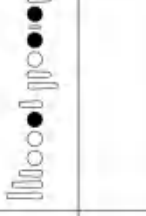
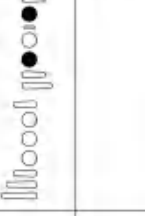
Express 1: on top of Basic and Acoustic, the lowest key can be used as an extra [-1] key.

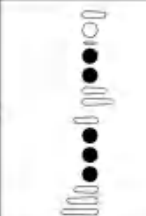
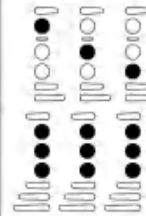
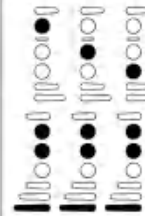
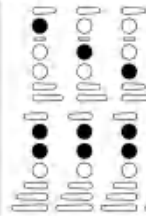
Express 2: pressing one extra key that is 2 keys downwards (if any) moves a note down by 1 semitone step. Combine with Express 2 where possible to play a [-2].

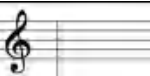
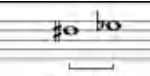
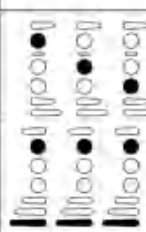
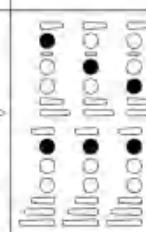
Express 3: the cross-octave express fingerings are partially available. It helps play a few extra notes in the higher octave without using the octave rollers.

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

							
Basic							
Extended							
Express1							
Express2							
Express3							

	 F#3/G $\flat$ 3	 G3	 A3	 #6 / $\flat$ 7	 B3
Basic					
Extended					
Express1					
Express2					
Express3					

	 C4	 C#4/D $\flat$ 4	 D4
Basic			
Extended			
Express1			
Express2			
Express3			

	 D#4/E $\flat$ 4	 E4
Basic		
Extended		
Express1		
Express2		
Express3		

MIDI Message

Clarii PRO supports BLE MIDI and USB MIDI. In MIDI mode, the following messages will be sent to a computer or other sound sources.

Control(s)	Message
Breath sensor	CC 11 (can be set to CC 2/CC 7/CC 11)
Pitch bend plates	Pitch bend (bend range ± 24 semitones)
Portamento plate	Standard: CC 65
	Linear: CC 65 CC 5 when changing the surface area your thumb covers on the plate (0-127)
Bite control vibrato	CC1 (0~127)
Bite control E-Wind	Pitch bend (bend range ± 24 semitones)
Elevation vibrato	CC1 (0~127)
Overblow	After touch (0-127)
* key	CC 80
✳ key	CC 81
* & ✳ key	CC 82
[+] Key	Next program change
[-] Key	Previous program change
[+] & [-] key	Program change 1

Control(s)	Message
FN & [+] key	Increase MIDI channel
FN & [-] key	Decrease MIDI channel
FN & [+] & [-] key	MIDI channel 1

🕒 Bite control signals are only sent when the octave rollers are touched.

Troubleshooting

Problem	Solution
Breath is not re- sponding.	Moisture may accumulate inside Clarii PRO and interfere with the breath sensor. Lean Clarii PRO vertically and let water exit from water drain.
Clarii PRO cannot be found by other smart devices.	• Check if the Bluetooth indicator above the Bluetooth button is flashing. If not, press and hold the Bluetooth button for 1 second to put Clarii PRO in pairing mode. • Check if the smart application is authorized to use Bluetooth and location. If not, please authorize the application in settings of the device. For Android phones, check if the master location on/off toggle is set to on.
Cannot charge.	The adapter may not be qualified. Use another adapter that supports USB protocol.

Problem	Solution
Noise comes from PHONES port while connected with computer.	Some computers may cause noise while charging Clarii PRO via USB cable. Use another power source or avoid charging while playing.
Random sounds occur while performing.	• Check if portamento is triggered by accidentally touching the portamento plate on the side of octave rollers. • Check if pitch bend is triggered by accidentally touching the pitch bend plate. • Check if articulation is triggered by accidentally touching the * key and ✖ key. • Check if elevation vibrato is triggered.
The pitches sound imperfect.	• Check if pitch bend is triggered by accidentally touching the pitch bend plate. Turn off pitch bend plates in Controllers menu to prevent accidental touches. • Check if semitone key (Bis, LP1, LP2, ✖, RP1, RP2) was pressed. Adjust the key direction to prevent accidental touches.
Voice commands cannot be recognized.	• Press and hold the voice button to start recognition. Clarii PRO will stop recognizing commands once you release the voice button. • When a correct voice command is recognized, the corresponding setting will be called up. Access full list of voice commands in "Appendix - Voice Commands" of this manual.

Problem	Solution
The display shows the program change number from 001 to 127 instead of the sound name.	The Clarii PRO is in MIDI mode. To restore the sound names on the display, try one of the following actions: • Press and hold the voice button, and speak commands such as "System Bank" or a sound name. • On the home screen, select "MIDI Mode," press OK button to enter, and select "System Bank" or "User Bank." • Disconnect Clarii PRO from the external sound module. • Restart Clarii PRO.
Display language is Chinese.	Press the voice button 5 times to return to language selection, or use the voice command "English" to switch to English menu.

Important Notes

Please read carefully before using Clarii PRO:

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

► Mouthpiece

Clean your mouth before playing to maintain the hygiene of mouthpiece and prevent foreign objects from entering.

Condensation is common for wind instruments. On Clarii PRO, drops of water will exit from the water drain. Use soft cloth to gently wipe the surface.

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, shake out any residual water droplets from the interior. To reassemble, align the mouthpiece's groove with the protrusion on the instrument body, then push until it is fully fitted and there are no gaps.

⚠ Do not rinse parts inside the instrument, such as the air tube, as this may cause water damage to the device.

► Power supply

Please use a standard 5V AC adapter.

► Do not disassemble

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

► Warning on humidity

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

► Caution of heat

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

► In event of accident

When any of the following event occurs, please power off Clarii PRO immediately. Visit Robkoo website (www.robkoo.com) for repair information.

- Smell or smoke coming out from Clarii PRO.
- Objects sliding into Clarii PRO.
- 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 Clarii PRO at unstable locations.

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

Please remove all cables before storing Clarii PRO.

► Connection

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

► Use Clarii PRO safely

DO NOT stick finger into any gap or hole of Clarii PRO.

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

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

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 Clarii PRO.

► **Surrounding environment**

Please use Clarii PRO in an environment between -15° C to 45° C, between 5% RH to 75% RH, and between PH6.5 to PH7.2.

Specifications

Model name	Clarii PRO C20
Power supply	USB (Type-C) 5V = 2A
Battery	Li-ion, 5000mAh
Current draw	2A
Charging time	5 hours
Battery life	Approx. 5 hours when using the onboard speakers Approx. 8 hours when the onboard speakers are off
Sensor	Breath sensor, gyroscope, capacitive touch sensors
Bluetooth	A2DP (Audio), GATT (MIDI over Bluetooth Low Energy)
Ports	Stereo 1/8” phone jack, stereo 1/4” phone jack, type-C (for charging & USB MIDI)
Output impedance	3.5mm--0.37Ω/6.5mm--30Ω
Speakers	Peak SPL 98dB

Mouthpiece material	Food-grade silicone
Body material	ABS, alloy
Size	66.5cm (length) x 4.6cm (width) x 4.0cm (height)
Weight	650g (incl. mouthpiece cap)

The built-in BLE module has been certified by SRRC, CMIIT ID: 2020DP2713.

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: Room 504, Building 4, 65 Lishan Rd., Nanshan District, Shenzhen, China.

Warranty Overview

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

Limited One Year Warranty

For goods lawfully purchased from Robkoo (store.robkoo.com) 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) 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).

FCC Warning

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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