

# ClariMate

## User Manual

English



**PLAY ANYWHERE**  
**ANYTIME**

A digital mute for Clarinet Bb and A



  
**BUFFET  
CRAMPON**  
PARIS  




Dear Musician,

Thank you for choosing Buffet  
Crampon and ClariMate.

This leaflet contains simple  
instructions and technicalities for  
discovering your ClariMate, your  
gateway to silent practice and the  
realm of digital music.

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## A. Technical Terms

Throughout this manual you will find some technical terms used recurrently, which are useful for a more complete understanding of the functioning of an electronic musical device.

Here is a brief non-scientific explanation of some of these terms. Please note that you do not need to understand these terms in detail to make good use of your ClariMate!

**Chirp:** The continuous buzzing sound that is produced by the ClariMate in the body of the clarinet.

**Bluetooth:** A wireless communication technology used to transmit data and audio signals over short distances between multiple devices.

## B. Quick Start:

Your ClariMate should be partially charged when you receive it, but please charge it fully before use for up to 4 hours; you can do this by connecting the included USB cable directly to the ClariMate on one end and to a charger on the other end, just like charging your mobile phone.

**IMPORTANT: Do not use a charger with any other cable than with the charging cable provided, as this may cause damage to your ClariMate and void your warranty**

Note that a red LED light will turn on on the bottom left of the ClariMate when charging and will turn off automatically when the ClariMate is finished charging.

Please note that due to the fingering detection technology used, your ClariMate will be much more demanding in note detection than an acoustic clarinet. We believe this will help musicians using the device to be better clarinetists, with more accurate fingering placement, but you may find it a bit different than what you are used to, as the ClariMate will not cover for mistakes the way an acoustic instrument can!

While it is charging, you can download the ClariMate application for both your computer and your mobile phone. You can find them on the Apple store and the Google Play store.

Once fully charged, you should be ready to get started!

## **a. Setup**

1. First fit the ClariMate tube into the ClariMate. Your ClariMate will not function properly without the tube inserted. The tube is fitted into the ClariMate slot with the bigger less flexible side of the tube (coloured black) going into the ClariMate and the smaller side going into your clarinet (coloured grey).
2. Install your ClariMate onto your clarinet, between the mouthpiece and the barrel, making sure it is very tight against the barrel, but make sure to not apply too much pressure. The ClariMate is an instrument and should be treated with care.
3. You can now insert your mouthpiece above the ClariMate with the included active reed, which is inserted into the mouthpiece and positioned like a standard reed.
4. Please note the active reed needs to be inserted BEFORE the ClariMate is turned on in order to work, otherwise your ClariMate will need to be restarted after inserting the reed.
5. The next sections indicate the steps to take to use your ClariMate in USB, standalone and bluetooth playalong mode.

## **b. USB mode**

1. Follow instructions 1-4 in the setup (B. a.) section for fitting your ClariMate into your ClariMate
2. Plug in your ClariMate to your computer using the provided USB cable, and launch the ClariMate application on your computer.
3. Once the application is launched, turn on your ClariMate in USB-mode by holding the top left (USB) button and pressing the top right (power) button. Keep holding the top left (USB) button until an orange light turns on. This should only take a second.
4. Your ClariMate should automatically connect to the application, although it might take a few seconds to show up. Once it does, you should hear a quiet chirping sound coming from your clarinet. This tells you the unit is on and ready to be played!
5. Go to the training tab on the app, and select your clarinet model from the list (ex: if you play a Buffet Crampon Prodiges, you can select the Prodiges from the list) and press the restore button to send it to your ClariMate.
6. Wait a few seconds until the training set has transferred to your ClariMate. Now return to the NOTE DISPLAY page and check that your clarinet model is recognised by playing a few notes.
7. Once you've done that, you can now calibrate the reed. Press the "reed" button on the bottom of the app. Place the instrument in your mouth with your mouth open and press okay. Next, play with your embouchure as tight as you can and press okay.

## **c. Bluetooth Mode Android / iOS**

1. Follow instructions 1-4 in the setup (B. a.) section for fitting your ClariMate into your ClariMate
2. Turn on your phone's bluetooth and location services (location is required for bluetooth to work properly, but your location is NOT used by the ClariMate app)
3. Open the ClariMate App and allow access to bluetooth and location services
4. Turn on your ClariMate by holding the bottom left (bluetooth) button and then pressing the top right (power) button.
5. A blue LED should turn on and flash next to the bottom left (bluetooth) button
6. Connect your ClariMate to your phone in your device's bluetooth settings (the default connection pin code is 5555)
7. Open the app and select your ClariMate if prompted
8. You can now edit all the ClariMate settings directly from your phone!

## C. Button and LED functions summary



Press 1. Power on in standalone mode. Power off.  
Turns on the green LED.

Hold 2 + Press 1. Power on in reed calibration mode.

Press 2. Validate open and closed reed calibrations  
(only while ClariMate is turned on in reed calibration mode)

Hold 3 + Press 1. Power on in bluetooth mode. Turns on the blue LED.

Press 3. Volume down.

Hold 4 + Press 1. Power on in USB mode. Turns on the orange LED.

Press 4. Volume up.

Hold 4 + Hold 3 + Press 1. Power on in safe mode. Turns on the yellow led.  
Useful only when your ClariMate is not responding.

## D. App Overview

The ClariMate app allows you to adjust all the ClariMate settings in one place. Available on your phone and on your computer, you can connect to it via bluetooth or USB.

The ClariMate app has 4 different screens: Note display (home), Note Training, Synth Controls, and Breath Controls

### NOTE DISPLAY

This displays the note you are currently playing, both in terms of fingering and in terms of its position on the staff

## TRAINING

This is where you can retrain your ClariMate in case it is not recognising the fingerings you are playing correctly. You can also load preset fingerings in this section and save your custom fingerings.

## SYNTH CONTROLS

This is where you can control the sound of your ClariMate. You can change the volume, the environment volume (This is used to adapt the ClariMate to the ambient noise of your environment) and you can transpose the ClariMate, as well as change the reed opening.

## BREATH CONTROLS

The breath controls section allows you to set the breath threshold (the point at which your ClariMate starts to make a sound). A higher threshold means you have to blow harder to make a sound. A lower threshold means it is easier to make a sound. Setting the threshold too low can result in a sound being permanently played. You can also use this screen to calibrate the ClariMate active reed.

### a. Fingering Training Mode: E2-G5 and E2-C6

The ClariMate by default should recognise all notes from low E to high G with some alternate fingerings. If you would like to go up to high C with more alternates or your chosen fingerings for your instrument do not work properly (ie. notes are not recognised as they should be, the sound is skipping between notes, etc.) you can redo the training manually

1. Go to the application training tab and hit the Train button
2. Select which level you would like to train. The level of training determines what notes are recognised. The first level will allow you to play from low E to high G, while the second level allows you to go all the way up to high C with more alternate fingerings.
3. You can either choose to redo the entire training set or simply choose the notes that are not responding well using the rotating dial or the +/- buttons
4. Each prompted note will give you a recommended fingering, but feel free to use your own fingering method
5. Make sure not to leave your unused fingers laying on the keys as this can cause a disturbance in the recognition method.
6. If you have chosen to activate training by blowing, you only need to blow a very short stream of air for each note(think of playing a staccato eighth-note immediately followed by a rest)
7. You can then save your training set when done.

## **b. Software/Firmware Updates**

Please note that the firmware updates will not be available on a phone, this feature is available only through Windows or MacOS computers.

1. Connect your ClariMate to your computer via USB
2. Open the ClariMate app on your computer
3. In the top left corner, click on tools, then Update Software
4. First update the ClariMate by selecting the Firmware tab
5. Select the firmware version you wish to install and click download
6. Once downloaded, click on update instrument
7. Leave your ClariMate plugged in while updating, this can take a few minutes
8. Once the update is complete, return to the update selection screen and select the Applications tab
9. Select the application version you wish to install and click download
10. Once downloaded, follow the installation procedure on screen

## **E. Cleaning Instructions**

1. Make sure your ClariMate is fully turned off, and unplug it from its charger
2. Remove the rubber tube by pulling lightly until it comes off
3. The tube can be washed with water once removed, and air dried
4. Your ClariMate can be cleaned with a dry cloth on both the mouthpiece end and the barrel end
5. The ClariMate reed can be cleaned carefully with some warm water and air dried or dried with a cloth. Make sure not to apply too much pressure on the moving parts as this may damage the reed!
6. Do not put any cleaning material through the ClariMate breath hole or inside the headphone or charging ports, as this may damage the unit and void your warranty
7. Do not put any liquids on the ClariMate itself as this may damage the unit and void your warranty

## **F. Troubleshooting**

If your ClariMate is having any issues, please follow these steps:

1. Make sure it is fully charged by plugging in the supplied charging cable to a wall adapter for 4 hours
2. Download and install the latest firmware and app updates in the app as detailed in the Software/Firmware Updates section of this guide
  - a. If your ClariMate is unable to start, you can start your ClariMate in safe mode by following these steps
    - b. Press and hold the two left (USB and Bluetooth) buttons and press the power button.
    - c. Release the buttons after 1 second. Your instrument should start in safe mode with a yellow LED.
    - d. Follow the update instructions listed in the Software/Firmware Updates
3. Restart your ClariMate normally (not in safe mode)
4. Contact Buffet Crampon support on our ClariMate.us website



## G. Technical Specifications

- Reversible hybrid instrument allowing you to turn your clarinet into an electronic wind instrument
- Adapts to any Bb or A clarinet with customisable fingering recognition
- High-quality breath sensor with realistic clarinet settings.
- High-quality onboard clarinet sounds thanks to physical modelling technology
- Lithium-ion battery for up to 4 hours battery life
- USB-C port for connecting to a computer, charging, MIDI and software updates
- Bluetooth included for a seamless play along experience and changing settings through your phone
- Realistic reed positioning and usage emulating acoustic clarinet embouchures
- Headphone/line output through 1/8" port
- 5.4cm x 6.9cm x 8.0cm and 45g

## H. Box contains:

- USB C to A cable
- Carry case
- 2 (two) active reeds
- ClariMate unit
- Breath tube
- 3 (three) plugs of diameters 2mm, 3mm and 4mm
- 3 (three) replacement O-rings

## I. Important ClariMate Safety Instructions

Do not disassemble or modify by yourself

Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.

Do not repair or replace parts by yourself. Be sure to contact Buffet Crampon or a Buffet Crampon authorised dealer or service center. For a list of Buffet Crampon service centers and official Buffet Crampon dealers, refer to the Buffet Crampon website.

Do not use or store in the following types of locations:

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.

Avoid extended use at high volume. Use of the unit at high volume for extended periods of time may cause hearing loss. If you ever experience any hearing loss or ringing in the ears, you should immediately stop using the unit and consult a specialized physician.

Do not allow foreign objects or liquids to enter unit, other than normal saliva content from proper use of the device (e.g. blowing into it normally); never place containers with liquid on unit Do not place containers containing liquid (e.g., flower vases) on this product.

Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

Turn off the unit if an abnormality or malfunction occurs

In the following cases, immediately turn off the power and contact your dealer, a Buffet Crampon service center, or an official Buffet Crampon dealer for service.

- If smoke or unusual odor occurs; or
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

For a list of Buffet Crampon service centers and official Buffet Crampon dealers, refer to the Buffet Crampon website.

Be cautious to protect children from injury Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.

Do not drop or subject to strong impact. Otherwise, you risk causing damage or malfunction.

Handle batteries carefully. If used improperly, you risk fluid leakage, overheating, combustion, explosion, etc.

Carefully observe the following:

- Do not heat, disassemble, or toss them into a fire or water.
- Do not expose them to sunlight, flame, or any other source of extreme heat.
- Do not attempt to charge a dry cell battery.
- Make sure to use only the charger that has been provided by Buffet Crampon.

**Route all power cords and cables in such a way as to prevent them from getting entangled.**

Injury could result if someone were to trip on a cable and cause the unit to fall or topple.

**Avoid climbing on top of the unit, or placing heavy objects on it**

Otherwise, you risk injury as the result of the unit toppling over or dropping down.

**Disconnect all cords/cables before moving the unit**

Damage or malfunction may result if you fail to disconnect all cables before moving the unit.

## **PLACEMENT:**

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

## **MAINTENANCE:**

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

## **REPAIRS AND DATA:**

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Buffet Crampon assumes no liability concerning the restoration of any stored content that has been lost.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Buffet Crampon SAS is under license.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

## **ABOUT BLUETOOTH**

Bluetooth is a technology for wireless communication between devices within an area of about 10 meters (33 ft.), and employs the 2.4 GHz frequency band.

### **nHandling Bluetooth communications**

- The 2.4 GHz band used by Bluetooth compatible devices is a radio band shared by many types of equipment. While Bluetooth compatible devices use a technology minimizing the influence of other components using the same radio band, such influence may reduce the speed or distance of communications and in some cases interrupt communications.
- The speed of signal transfer and the distance at which communication is possible differs according to the distance between the communicating devices, the presence of obstacles, radio wave conditions and the type of equipment.
- Buffet Crampon SAS does not guarantee all wireless connections between this unit and devices compatible with Bluetooth function.

**ADDITIONAL PRECAUTIONS:**

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Buffet Crampon assumes no liability concerning the restoration of any stored content that has been lost.
- Use a reasonable amount of care when using the unit's buttons, jacks and connectors. Rough handling can lead to malfunctions.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels when playing through an amplifier.

**CAUTION REGARDING RADIO FREQUENCY EMISSIONS:**

- The following actions may subject you to penalty of law:
- Disassembling or modifying this device.
- Removing the certification label affixed to the back of this device.
- Using this device in a country other than where it was purchased
- Keep this product at least 22 cm (8-11/16 inches) away from a location where a cardiac pacemaker is installed. There is a risk that it could affect the operation of a pacemaker.
- Radio Frequency (Operational Frequency) . . . . . 2402 MHz to 2480 MHz
- Maximum Output Power (EIRP) . . . . . 4.0 dBm (2.5 mW)

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

## J. Regulatory Information

### USA

#### NOTE:

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

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

Contains Transmitter Module FCC ID: 2A9ASGC727884

This transmitter should not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The equipment generates very low levels of radio frequency energy and meets the FCC exposure guidelines.

Model Name: ClariMate  
Type of Equipment: Digital Wind Synthesizer  
Responsible Party: Buffet Crampon USA  
Address: 7255 Salisbury Road, Suite 4  
Jacksonville – FL 32256 – USA  
Telephone: +1 904 821 0234  
Email: [corporate-usa@buffetcrampon.com](mailto:corporate-usa@buffetcrampon.com)

## CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with ISED applicable licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device

Cet appareil est conforme aux normes RSS pour les dispositifs exempts de licence d'ISED. Son fonctionnement est soumis aux deux conditions suivantes:

1. cet appareil ne doit pas provoquer de brouillage préjudiciable, et
2. il doit accepter tout brouillage reçu, y compris le brouillage pouvant entraîner un mauvais fonctionnement

This equipment complies with ISED RF exposure limits set forth for an uncontrolled environment.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé.

## EU / UK

The equipment is in conformity with RE Directive (2014/53/EU). The following harmonised standards and/or other relevant standards have been applied:

### **ELECTROMAGNETIC COMPATIBILITY (ARTICLE 3.1 (B) OF THE RE DIRECTIVE)**

EN 301 489-17 V3.2.4 (2020-09), EN 55032:2015, EN 55035:2017

### **RADIO FREQUENCY SPECTRUM USAGE (ARTICLE 3.2 OF THE RE DIRECTIVE)**

EN 300 328 V2.2.2, (2019-07)

### **HEALTH AND SAFETY (ARTICLE 3.1(A) OF THE RE DIRECTIVE)**

EN 62368-1:2020, EN 62479:2010

### **ROHS - THE EQUIPMENT IS IN CONFORMITY WITH ROHS DIRECTIVE (2011/65/EU). THE FOLLOWING STANDARD HAS BEEN APPLIED:**

IEC 63000:2018

### **DISPOSAL AND RECYCLING**

The equipment must be disposed of properly according to local laws and regulations such as WEEE. It contains electronic components and a battery and must be disposed of separately from household waste.