

ClariMate

Silent practice, digital play

User Manual



English

v-3.4.9

We thank you for choosing Buffet Crampon and the ClariMate.

This manual contains instructions and technical information for ClariMate, your gateway to silent practice and the realm of digital music.

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About the ClariMate

The ClariMate is a reversible hybrid instrument manufactured in the UK and designed in partnership with Buffet Crampon and Audio Inventions LTD that allows you to use your clarinet for silent practice and digital music creation. It uses high precision sensors and patented note recognition technology to translate reed, breath, and fingerings into digital signals. Connect your wired headphones to the ClariMate to play silently with a virtual, sample-based clarinet synthesizer, or connect it to a computer, tablet, or phone to use it as a MIDI controller and unlock the possibilities of digital music creation.

How Does It Work?

High precision sensors within the ClariMate translate reed and breath control into digital signals. Fingering is detected through the use of a patented audio stimulus technology, which is the soft continuous buzzing sound that is produced by the ClariMate. Because the ClariMate needs to continuously measure this audio stimulus, it is not recommended for use in live performance or with an amplifier, as this will interfere with the ClariMate's fingering recognition. The ClariMate can be used in standalone mode without the use of a computer, phone, or tablet, but must be connected to the ClariMate app for setup and configuration. For the best playing experience, it is recommended to calibrate the ClariMate note detection to your own instrument. Be aware that drastic changes in temperature can also interfere with the ClariMate's note recognition capabilities, and that the ClariMate works best with an instrument that is at room temperature.

Box Contents

- USB A to C cable
- Carrying case
- 2 Active Reeds
- ClariMate unit
- Breath tube
- 3 plugs of diameters 2mm, 3mm, and 4mm
- 3 replacement O-rings

Buttons and LED Functions



Pressing button 1 turns the ClariMate on in **Standalone Mode**. This will be indicated by a green light. Pressing it again turns the ClariMate off.

Holding button 3 while pressing button 1 turns on the ClariMate in **Bluetooth Mode**. This will be indicated by a blue light.

Holding button 4 while pressing button 1 turns on the ClariMate in **USB Mode**. This will be indicated by an orange light.

Holding buttons 3 and 4 at the same time while pressing button 1 turns on the ClariMate in **Safe Mode**. This will be indicated by a yellow light.

Pressing buttons 3 and 4 will turn the **volume** of the ClariMate up or down.

NOTE: Do not blow into the ClariMate until you hear the soft buzz of the audio stimulus. Blowing during startup can disrupt the breath sensor calibration process.

Getting Started

Charging

It is recommended that you charge the ClariMate for up to 8 hours before using it for the first time by plugging it into a compatible AC adapter.

Important: The ClariMate can be damaged by USB cables that support Quick Charge technology. The best way to avoid this is to use only USB A to C cables, such as the one included with the ClariMate.

Assembly

1. Slide the black end of the breath tube over the air vent in the bottom of the unit.
2. Insert the grey end of the tube into the barrel of your assembled clarinet, then firmly twist your ClariMate into the barrel of your clarinet.
3. (Optional) Place the Active Reed onto your mouthpiece, positioning it the same way you would with an ordinary reed, and fasten it in place with your ligature.
4. Insert your mouthpiece into the barrel of the ClariMate.
5. (Optional) You may choose to increase the air resistance by inserting one of the included plugs into the end of the breath tube. The plug labeled “D2” will provide the most resistance, while the plug labeled “D4” will provide the least.

Firmware Update

It is highly recommended to do a firmware update before getting started to ensure that you are benefitting from the most recent improvements to the ClariMate. To do a firmware update, you will need to download the ClariMate application for Windows or MacOS, and connect your ClariMate to the application in USB mode. The application can be found in the Apple App store or on our website at <https://clarimate.us> (USA/Canada) or <https://clarimate.eu> (Europe).

Once you have downloaded the ClariMate app for Windows or MacOS, follow these steps to update the firmware:

1. Connect your ClariMate to your computer with the provided USB cable.
2. Turn on the ClariMate in USB mode by holding down the top left button (4) while powering on the unit. You’ll know that the unit is in USB mode if the orange light on the top left of the unit remains lit.
3. Open the ClariMate app on your computer, and wait while the app establishes a connection with the ClariMate. When a connection has been established, the orange LED will begin to flash slowly, and you’ll see a bright green light next to the word “Connected” in the bottom left corner of the ClariMate application.
4. If your ClariMate has outdated firmware, you will be prompted to update to the latest version. The Training Set that is currently in use on your ClariMate will automatically be saved to the Note Training Manager (for more information about Training Sets and the Note Training Manager, refer to the Note Training Tab section of the ClariMate Application chapter of the manual).

If you choose not to update the firmware, you can update it later from the Tools menu.

Note Recognition

Every clarinet is unique; even clarinets with the same make and model will be slightly different. The ClariMate should be able to recognize the notes on most modern clarinets, but the note recognition can always be improved through the Note Training process. If you are experiencing latency or note recognition problems, this can be addressed by using the ClariMate application to “train” the ClariMate to recognize the notes on your particular instrument. See the Note Training Tab section in the ClariMate Application chapter for more information.

Adjusting the ClariMate Airflow and Breath Response

The ClariMate was designed with flexibility in mind. Clarinetists use a wide range of mouthpiece and reed combinations, resulting in different levels of air resistance which greatly affects the player's breath control and playing experience. To provide you with something that most resembles your setup, ClariMate comes with three plugs that can be inserted into the breath tube to change the air resistance, and a Breath Sensitivity dial that affects the breath response (see *Reed and Breath Controls* tab in the *ClariMate Application* chapter for more information on the Breath Sensitivity dial).

The way that you combine these two variables will be a result of your personal preference and may require some fine tuning. Here are some settings that might help you get started:

For a free-blowing, responsive setup, try:

Plug: None

Breath Sensitivity: 100

For a responsive setup with more air resistance, try:

Plug: D2

Breath Sensitivity: 100

For a free blowing setup that requires you to use a lot of air, try:

Plug: None

Breath Sensitivity: 50

For a setup that requires a lot of air while offering a lot of air resistance, try:

Plug: D2

Breath Sensitivity: 50

Reed Calibration (Beta)

The ClariMate includes specially designed Active Reeds that allow you to exercise fine control over the pitch of the ClariMate's embedded synth, or send pitch bend messages via MIDI. This functionality is optional; cane or synthetic reeds may be used in place of the Active Reed if you do not wish to use this feature. If you use a cane or synthetic reed, take care that it does not vibrate as you play, as this will disrupt the breath sensor and note recognition. This can be avoided by placing your reed further away from the tip of the mouthpiece than you would for ordinary, acoustic play.

The Active Reeds require calibration in order to function properly. This can be done on the *Reed and Breath Controls* tab of the application. Active Reeds should be recalibrated each time they are placed on the mouthpiece. To calibrate the reed, the ClariMate needs to measure the open and closed positions of the reed.

The closed position can be calibrated in two ways:

For beginning or intermediate players: Press your thumb against the tip of the reed to hold it against the mouthpiece

For intermediate to advanced players: Place the mouthpiece in your mouth and assume a firm embouchure, as though you are playing with perfect tone and intonation

The open position can be calibrated by simply removing your thumb from the tip of the reed, or by removing the mouthpiece from your mouth.

Tip: Active Reeds are best calibrated after they have been played for a minute or two. This allows the optical sensor of the ClariMate to compensate for the buildup of condensation on the ClariMate unit and the mirror on the Active Reed.

Tip: If you are using a cane or synthetic reed in place of the Active Reed, be sure to turn off the Active Reed functionality in the app to avoid playing out of tune. See the *Reed and Breath Controls* tab section of the *ClariMate Application* chapter for more information.

Note: The Active Reeds are designed to be used with hard rubber mouthpieces. They may not function correctly if your mouthpiece is made of a different material, like plastic. If you have questions about the material of your mouthpiece, please contact the manufacturer.

Standalone, USB, and Bluetooth Modes

The ClariMate has three operating modes: Standalone, USB, and Bluetooth. The ClariMate enters these modes from a powered-off state, so you will need to turn the ClariMate off before switching modes. For more information, see the Buttons and LED Functions section in the Introduction chapter.

Standalone

Standalone mode allows you to play your ClariMate free of any cables or devices. Your ClariMate will remember any settings that you applied in Bluetooth or USB mode.

USB

USB mode allows you to connect your ClariMate to the ClariMate app on a Windows or MacOS computer via the included USB cable. This is useful for changing settings, calibrating, and customizing your ClariMate, as well as for using it as a MIDI controller. Firmware updates must be done in USB mode.

Bluetooth

Bluetooth mode allows you to connect your ClariMate to the ClariMate app on an iOS, Android, MacOS, or Windows device. This is useful for changing settings, calibrating, and customizing your ClariMate, as well as for using it as a MIDI controller on iOS, MacOS, and Windows. When using Bluetooth mode for the first time, you must pair the ClariMate with your device through your device's Bluetooth settings page before connecting within the ClariMate application.

In Bluetooth mode, your ClariMate can act as a receiver for audio, allowing you to stream audio from your device to your ClariMate so that you can listen to it in your headphones, alongside the sound of the ClariMate.

Note that while the ClariMate can receive audio over Bluetooth, it cannot send audio from its embedded synthesizer over Bluetooth. For this reason, it is not possible to use the ClariMate with Bluetooth headphones or a Bluetooth speaker.

ClariMate Application

The ClariMate app allows you to change the settings on your ClariMate, adjusting it to your preferences and your clarinet. It's available on Windows and MacOS computers, as well as iOS and Android phones and tablets. You can connect to the app via Bluetooth, or via USB for the Windows and MacOS versions. The app can be downloaded from

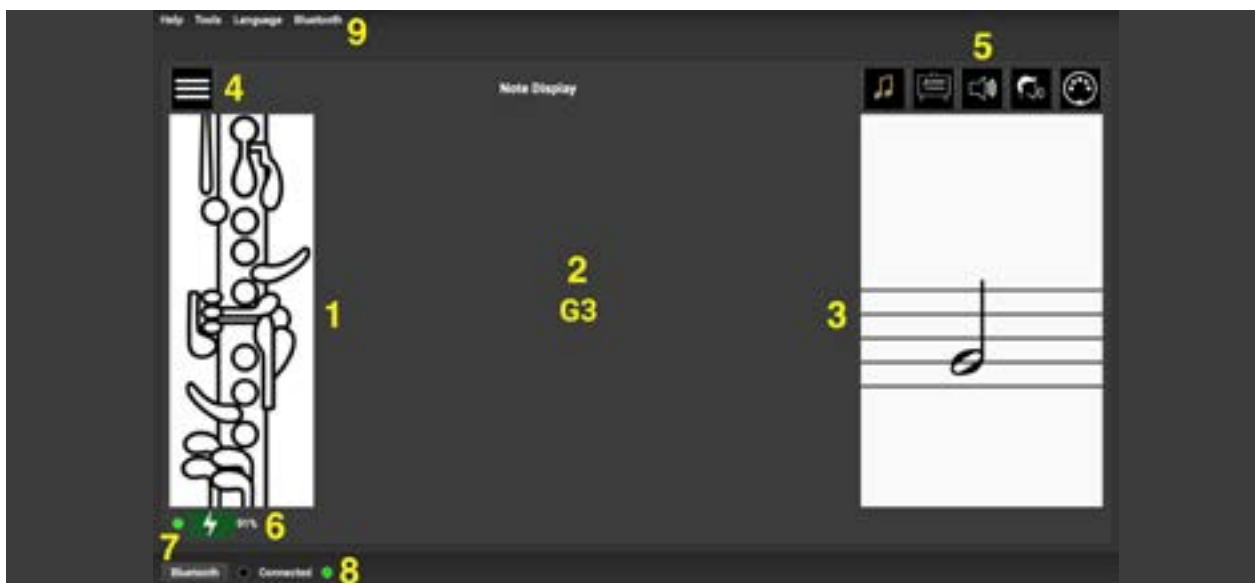
<https://clarimate.us> (USA/Canada) or

<https://clarimate.eu> (Europe).

Minimum requirements:

- Windows 10
- MacOS 11
- iOS 14
- Android 8.1

Note Display Tab



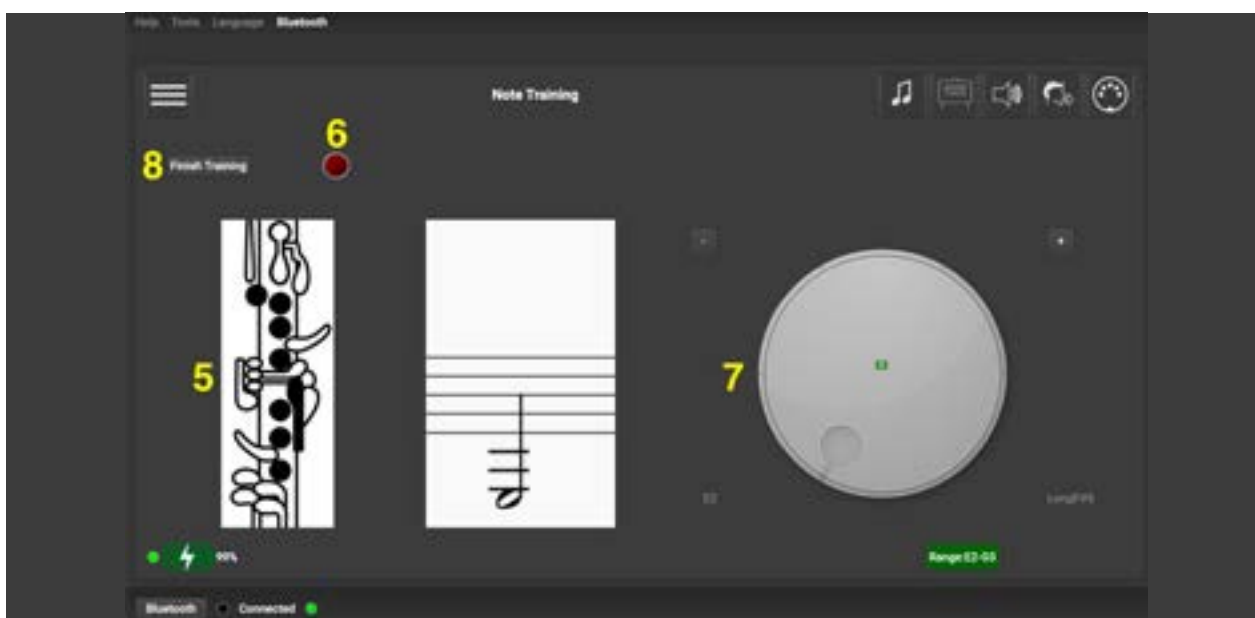
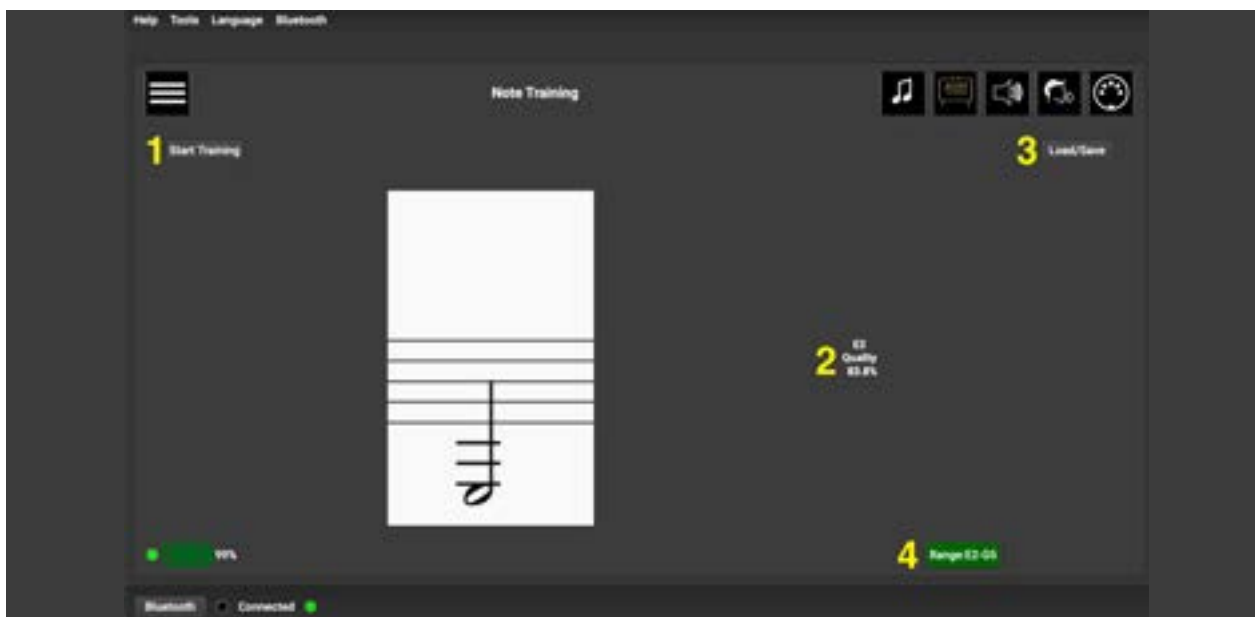
1. Shows one of the possible fingerings for the note you are currently playing.
2. Shows the name of the note as well as the quality of recognition:
 - Green: Outstanding - Note is recognized with more than 99% confidence.
 - Yellow: Good - Note is recognized with more than 97% confidence.
 - Red: Bad - Note is recognized with less than 97% confidence. Retraining recommended.
3. Shows the currently played note on a treble staff.
4. Menu with access to the following:
 - Note Range:** Gives the option to extend the fingering range of the ClariMate up to C6.
 - Power Options:** Allows you to configure automatic shutoff for the ClariMate.
 - Factory Reset:** Returns the ClariMate to its default settings and reinstalls the Factory Training Set.
5. Allows you to access the different tabs of the app. The current tab is highlighted in gold.
6. The battery monitor shows how much battery your ClariMate has left and gives you information about its current charging status.
7. The Bluetooth button opens a window that allows you to connect your ClariMate to the application via Bluetooth.
8. The light next to the word "Connected" shows the connection status of the ClariMate.
 - Green: Connected via USB
 - Blue: Connected via Bluetooth
 - Dark green or red: Not connected.
9. This toolbar gives you access to the following buttons (note that these buttons are located in the menu icon for the iOS and Android versions of the ClariMate app):
 - Help: About:** Gives you information about the current app and firmware version.
 - About Qt:** Information on the toolkit used to create the ClariMate app.
 - Read the Manual:** Opens lnk.bio/clarimate in your web browser, where you can find the user manual and other useful resources.
 - Tools: Update Firmware:** Update to the latest available firmware.
 - Update Firmware from local directory:** Opens a file browser to search for locally available firmware
 - Update App:** Updates the ClariMate app to the latest version (Windows only)
 - Language:** Set the ClariMate app language to English, French, Spanish, German, Chinese, or Japanese.

Note Training Tab

Use this tab to load, modify, or create a Training Set for your ClariMate. The Training Set is an important component of the note recognition technology used by the ClariMate. When you place your fingers on the clarinet, the ClariMate uses a Training Set in combination with the audio stimulus to determine the note that you are playing.

The included Factory Training Set should work with most clarinets, however, if you are experiencing latency or note recognition problems, it is recommended to create your own training set.

It is important to know that all of the ClariMate’s additional settings – volume, breath sensitivity, transposition, MIDI settings, etc – are saved as part of the Training Set.



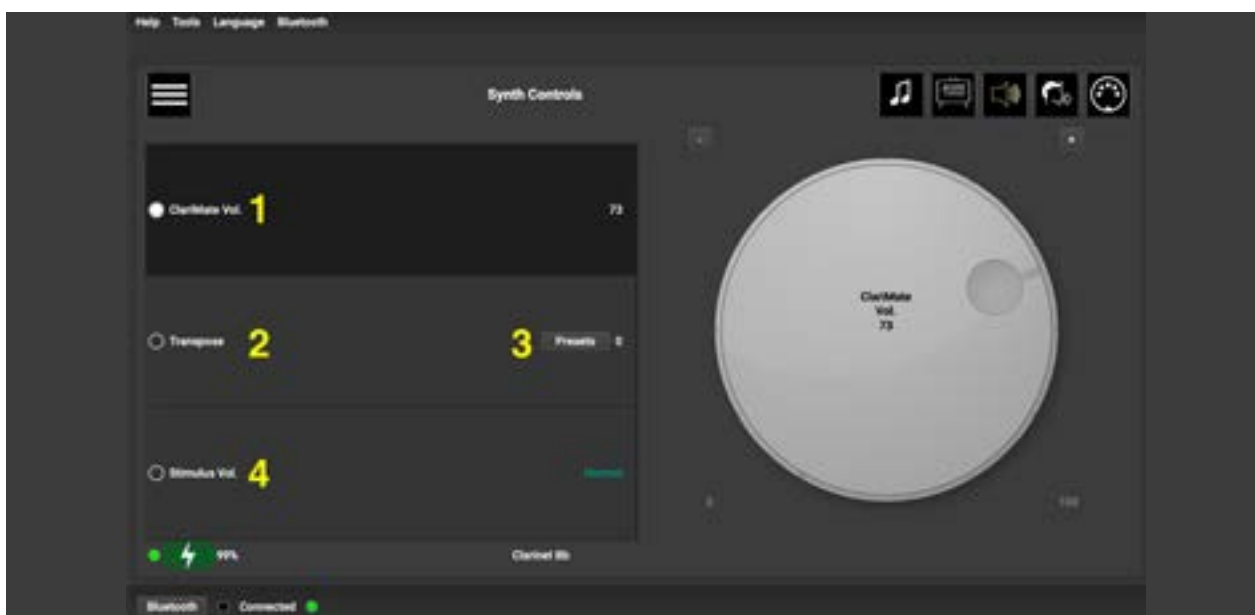
1. Enters training mode (bottom screen), allowing you to modify or create a Training Set.
2. Shows the confidence with which a fingering is recognized by the ClariMate. 99% or more is outstanding, and 97% or more is good. Consider retraining any notes that are less than 97%.
3. Takes you to the Note Training Manager screen, where you can save a currently loaded Training Set, load a previously saved Training Set, or delete unused Training Sets.
4. Shows the range of the currently loaded Training Set.
5. Shows one of the possible fingerings for the selected note.

6. This light will turn on when you blow into the ClariMate to train a fingering. **Do not move your fingers while the red light is on.**
7. The selection wheel allows you to select which note to train. You can also use the +/- buttons to the left and right of the wheel.
8. Saves your Training Set modifications to your ClariMate unit and returns you to the default screen.

To create or modify a Training Set, follow these steps:

1. Connect your ClariMate to the ClariMate app via Bluetooth or USB.
2. Go to the Note Training tab.
3. Click or tap Start Training in the top left of the app.
4. Use the wheel or the +/- buttons to select the note that you want to train.
5. Finger the note that you have selected, and blow one short, staccato breath into the mouthpiece. The calibration process will begin once the breath sensor is no longer receiving air. **Do not move your fingers** until the red light in the app has gone out and the ClariMate stops producing sound through the headphones.
6. Once the red light has gone out, the next note up in the chromatic scale will automatically be selected. At this point, you are free to repeat steps 4 and 5 to train any other notes.
7. When you are finished training, click/tap "Finish Training" on the left hand side of the screen. This will automatically save the new Training Set to the ClariMate, overwriting the Training Set that was previously on the ClariMate.
8. At this point, you will be prompted to save a copy of the Training Set to the app. This will allow you to reload the same training set later, which can be useful if you need to restore your settings. The training set will be automatically labeled with the date and time, but you may want to give it a more descriptive name, such as the model of your clarinet.
9. Once the Training Set has been saved to the application and the stimulus on your ClariMate has started again, you are free to return to the note display tab and resume playing.
10. You can view the note recognition quality from the Note Training tab at any time. Ideally, the quality reading should be above 98%.

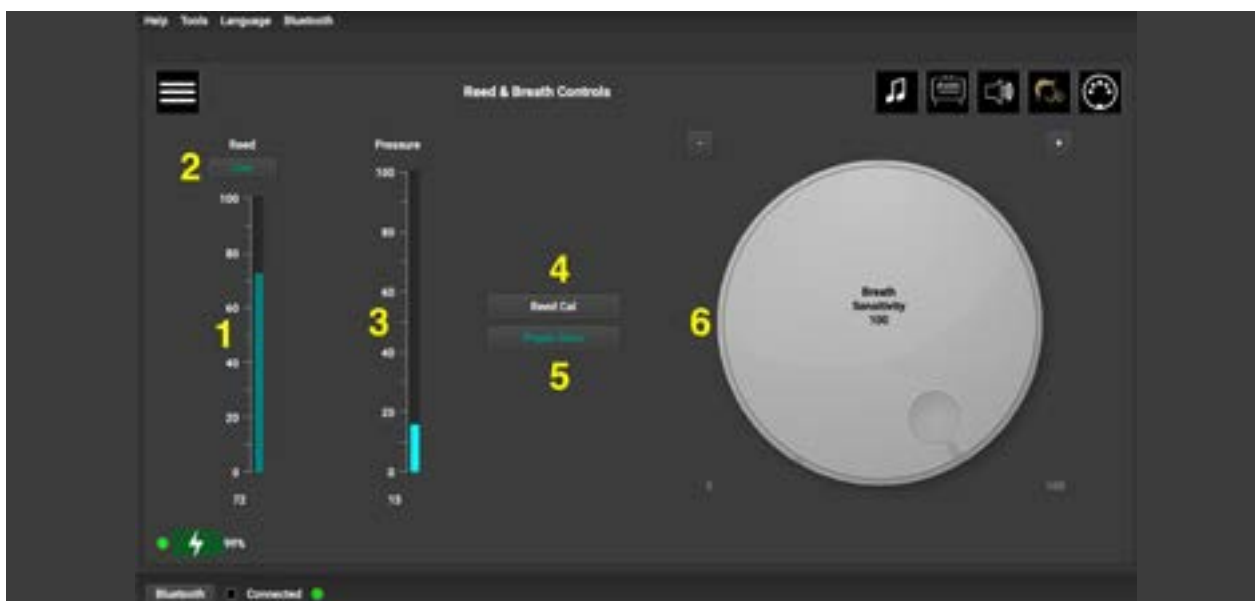
Synth Controls Tab



1. Selecting this allows you to set the ClariMate volume using the dial or +/- buttons on the right.
2. Selecting this allows you to set the ClariMate transposition using the dial or +/- buttons on the right. Once a transposition is chosen, click "Load" to confirm. The ClariMate will take up to a minute to load the new transposition. This does not affect the outgoing MIDI notes (for more information see the *MIDI Tab* section below).

3. Allows you to choose between five presets for transposition.
4. Allows you to set the level of the ClariMate audio stimulus, an important component of the note recognition technology. This should be set to a “Loud” when in a noisy environment.

Reed and Breath Controls Tab



1. When the reed is active, this gauge shows the position of the reed, with 100 being all the way open and 0 being a normal playing position. The ClariMate will play in tune between 0 and 10.
2. Toggles the reed between “Off” and “Live.” When “Off” is selected, the ClariMate will automatically play in tune.
3. Represents the breath pressure data. The player must blow past the light blue threshold to make a sound on the ClariMate.
4. Begins the reed calibration procedure. Follow the prompts to calibrate the reed. For more information, see the section *Reed Calibration* above.
5. Toggle between Player-Blow and Auto-Blow. Player-Blow is the standard function, while Auto-Blow will cause the ClariMate to make sound by itself without input from the player.
6. Use this dial or the +/- buttons to adjust the breath sensitivity. **Do not blow** while adjusting this parameter. The lower the setting, the more air will be required from the player to make a sound.cause the ClariMate to make sound by itself without input from the player.

MIDI Tab

When the ClariMate app is opened, it automatically creates a virtual MIDI port called “ClariMate MIDI Out.” You can select this as your MIDI input in other music creation applications, such as virtual synthesizers or digital audio workstations, allowing you to control these applications with the ClariMate. For more information see *Using the ClariMate as a MIDI Controller*.



1. Allows you to choose which MIDI CC message is sent by the breath sensor. Cycles between CC2 (Breath), CC7 (Volume), and CC11 (Expression). CC11 is the default.
2. Allows you to choose between a constant MIDI velocity and a dynamic MIDI velocity. Choosing a constant velocity will cause every note to be sent with a MIDI velocity of 80, while choosing dynamic will send a different MIDI velocity based on the breath pressure level of each note.
3. Choose which MIDI channel the ClariMate app will use to send messages. Options are 1 through 16.
4. Allows you to choose between Playing Mode (default) and Transcription Mode. Playing Mode sends Note Off messages for the current note in a phrase after a subsequent Note On message, allowing for better legato playing in most synths. Transcription Mode sends Note Off messages for the current note in a phrase before a subsequent Note On message, allowing for better compatibility with music notation software.
5. Allows you to switch between three Pitch Bend modes: Clarinet, Classic, and MIDIMate. Clarinet mode emulates the pitch bend characteristics of a normal clarinet by limiting the maximum amount of pitch bend available on a per note basis. MIDIMate mode does the same thing in a manner that is compatible with our companion application, MIDIMate. Classic allows for unrestricted pitch bend down for every note..
6. Allows you to see your breath pressure level.
7. The MIDI Transpose option allows you to transpose the outgoing MIDI notes. MIDI Transpose does not affect the transposition of the internal ClariMate sounds.
8. Clears all outgoing MIDI messages in the case of a stuck note or other MIDI issues.
9. Disables the “ClariMate MIDI Out” virtual MIDI port.

Using the ClariMate as a MIDI Controller

MIDI is an acronym for “Musical Instrument Digital Interface,” and it is a communications protocol that transmits musical information in a digital environment. Much like sheet music is used to communicate musical information between musicians, MIDI was created to communicate musical information between digital devices such as synthesizers, samplers, computers, and MIDI controllers, such as the ClariMate. MIDI is not audio; it is more like a “recipe” for creating audio. The ClariMate sends the following four types of MIDI data:

Pitch: The note that you are playing.

Velocity: The intensity, or dynamic of the note. For the ClariMate, this defaults to a constant value of 80, as MIDI CC messages are typically a more useful way to control dynamics on digital wind instruments.

MIDI CC: Control Change messages (also known as MIDI CC messages) can be used to control dynamics independently of Velocity, allowing for expressive techniques such as crescendos and diminuendos within a single note. They can also be used to dynamically modify any number of parameters on a synthesizer or sampler, allowing for limitless expressive control. On the ClariMate, breath sensor data is conveyed through MIDI CC messages, and you can choose which MIDI CC is used in the MIDI tab of the ClariMate app.

Pitch Bend: Used to convey expressive variations in pitch such as vibrato. This information is produced by the ClariMate reed.

As a MIDI controller, the ClariMate can communicate with hundreds of other music creation applications through the ClariMate app’s virtual MIDI port. However, while the ClariMate is compatible with other music applications, there are few which take advantage of the ClariMate’s expressive breath control capabilities. This is why Buffet Crampon has partnered with Acousticsamples to create **MIDIMate**, a free, simple to use, and easy to understand MIDI sampler made for the ClariMate that gives you access to five different expertly designed instruments: clarinet, tenor saxophone, trumpet, flute, and viola. MIDIMate can be downloaded from our website at <https://clarimate.us> (USA/Canada) or <https://clarimate.eu> (Europe).

MIDIMate is programmed to “listen” for breath control data transmitted via CC11. If you have configured the ClariMate to send breath control data via CC2 or CC7, then MIDIMate will not function correctly. Similarly, there are other software synthesizers designed for digital wind instruments that require breath data to be sent via CC2 or CC7. If your ClariMate is not working as expected with these programs, consult the manual for the application that you are trying to use with the ClariMate to find out what CC message that application is expecting to receive.

Cleaning Instructions

1. Make sure your ClariMate is fully turned off and unplugged.
2. Remove the rubber tube by pulling lightly until it comes off. Once removed, the tube can be washed with water and air dried.
3. Your ClariMate can be cleaned with a dry cloth.
4. The ClariMate reed can be cleaned carefully with warm water and air dried.
5. 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.
6. Do not put any liquids on the ClariMate as this may damage the unit and void your warranty.

Troubleshooting and Support

Common Issues:

Below are some common issues and how to fix them. Please see the Support section of the ClariMate website at <https://clarimate.us> (USA/Canada) or <https://clarimate.eu> (Europe) to access our most up-to-date collection of articles and tutorial videos.

If you can not solve your issue, please contact us at:

<https://clarimate.freshdesk.com/support/home> (USA/Canada)

<https://clarimate-europe.freshdesk.com/support/home> (Europe)

My ClariMate is not working correctly

If the specific issue you are experiencing is not listed in the Common Issues section of this manual, or if you cannot fix the issue, we recommend first trying a Factory Reset on the ClariMate. This will replace the current Training Set on your ClariMate with the Factory Training Set reset all parameters to their default settings.

1. Connect your ClariMate to the app via USB or Bluetooth
2. Click on the menu icon in the top left hand corner of the screen
3. Select Factory Reset

If the issue persists, we recommend reinstalling the firmware by following these steps:

1. Be sure that you are using the most recent version of the ClariMate app for Windows or MacOS. You can update the ClariMate app by downloading the most recent version from the App store or from our website, <https://clarimate.us> for North America, or <https://clarimate.eu> for Europe.
2. Be sure that your ClariMate is fully charged by connecting it to a wall adapter with the supplied cable for at least eight hours.
3. Connect the ClariMate to the ClariMate app on your computer via USB
4. In the toolbar on the top left, click Tools, then click Update Firmware

My ClariMate will not turn on, what should I do?

1. Be sure that you are using the most recent version of the ClariMate app for Windows or MacOS. You can update the ClariMate app by downloading the most recent version from the App store or from our website, <https://clarimate.us>
2. Be sure that your ClariMate is fully charged by connecting it to a wall adapter with the supplied cable for at least eight hours. After that, follow these instructions to turn the ClariMate on in Safe Mode:

Press and hold the Volume Up and Volume Down buttons

While holding down the buttons, press and release the Power button

Continue to hold down the Volume Up and Volume Down buttons until the yellow LED lights up

Once the ClariMate is turned on in safe mode, connect it via USB cable to the ClariMate app. From the Tools menu in the app, select Update Firmware.

My ClariMate is playing wrong notes/my ClariMate is not responding quickly

This is likely a result of the Training Set that is currently loaded onto the ClariMate. You can use the “Note Training” tab of the ClariMate app to train the ClariMate to better recognize certain fingerings, or load a Training Set based on the model of your clarinet (if available). For more information, read the *Note Training Tab* section of the ClariMate Application chapter of the manual.

Be aware that the ClariMate is not to be used with an amplifier or in loud environments, and that extreme temperatures can affect the note recognition capabilities of the ClariMate. Be sure that your ClariMate and your clarinet are at room temperature before use.

Also be aware that the ClariMate should be pushed all the way into the barrel, and that the barrel should be pushed all the way into the clarinet.

The breath recognition on my ClariMate is too sensitive/not sensitive enough

In the “Reed and Breath Controls” tab of the ClariMate app, decreasing the Breath Sensitivity will increase the amount of air required.

To increase the air resistance, add one of the included plugs to the ClariMate tube. Plug D4 will add the least amount of air resistance, while D2 will add the most.

For more information see the *Adjusting the ClariMate Airflow* section of the Getting Started chapter.

My ClariMate reed does not work/will not calibrate

Issues with reed calibration may be caused by the material of your clarinet mouthpiece. The Active Reeds are designed to be used with hard rubber mouthpieces and may not function correctly if your mouthpiece is made of a different material, like plastic. If you have questions about the material of your mouthpiece, please contact the manufacturer.

Issues with the Active Reeds may also be due to a manufacturing defect with the ClariMate's carrying case. We regret to inform you that ClariMates with serial numbers below 5756 may have been shipped with a faulty case that may have damaged the included reeds. If you are using a hard rubber mouthpiece and experiencing issues with your reeds, please contact us.

There is no sound coming through my headphones

1. Try adjusting the volume level, either in the app or by using the volume buttons on the unit
2. Try using a different set of wired headphones
3. Check the breath sensor meter in the Reed and Breath Controls tab of the application. If the meter is not moving, try the following:
 - a. Adjust the Breath Sensitivity Dial
 - b. Be sure that your breath is reaching the breath sensor – it may be that the opening between the mouthpiece and active reed is closed, or that something else is blocking the airflow
4. Try a Factory Reset

I'm experiencing Bluetooth connection issues

Be sure that the ClariMate is in Bluetooth mode (blue led) and that Bluetooth is enabled on your device.

Be sure to connect first through your device's Bluetooth connection settings page before attempting to connect in the app.

Android users should be sure that location permissions, communications permissions, and battery permissions are enabled for the application. Deleting and reinstalling the app will prompt you to enable these settings if you haven't already.

If you still cannot connect, erase your ClariMate from your phone/tablet/computer's list of previously paired Bluetooth devices. Restarting your phone/tablet/computer can also help.

Technical Specifications

- High-quality breath sensor with realistic clarinet settings
- High-quality embedded clarinet synthesizer
- Lithium-ion battery for up to 4 hours battery life
- USB-C port for charging, MIDI, and software updates
- Bluetooth for integrated play along experience and configuration via app
- Reed positioning and usage emulating acoustic clarinet embouchure (beta)
- Audio output through 3.5mm headphone jack
- 5.4cm x 6.9cm x 5.0cm and 68.8 grams

Compatible Apple models



• iPhone 13 Pro Max®, iPhone 13 Pro®, iPhone 13®, iPhone 13 mini®, iPhone SE® (3rd generation) • iPad mini® (6th generation) • iPad® (9th generation) • iPad Pro® (12.9-inch) 5th Generation, iPad Pro (11-inch) 3rd Generation, iPad Air® (5th generation) • iPhone 12 Pro Max®, iPhone 12 Pro®, iPhone 12®, iPhone 12 mini® • iPhone 11 Pro Max®, iPhone 11 Pro®, iPhone 11®, iPhone SE® (2nd generation) iPad Pro (12.9-inch) 3rd Generation, iPad Pro (11-inch) • iPhone XS Max®, iPhone XS®, iPhone XR® • iPhone X®, iPhone 8 Plus®, iPhone 8® • iPhone 7 Plus®, iPhone 7® • iPhone SE® • iPhone 6s Plus®, iPhone 6s®, iPad (6th generation), iPad Pro (9.7-inch), iPad (5th generation), iPad Pro (12.9-inch) 1st Generation Apple, iPad, iPad Air, iPad Pro, iPad mini and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Important ClariMate Safety and Regulatory Information

Warning: Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to ClariMate or other property. Read all the safety information below before using ClariMate.

Handle ClariMate with care. ClariMate contains sensitive electronic components and can be damaged if dropped, burned, punctured, or crushed. Don't use a damaged ClariMate, as it may cause injury. Avoid heavy exposure to dust or sand.

Repairing: Do not open your ClariMate and don't attempt to repair your ClariMate by yourself. Disassembling your ClariMate may damage it and may cause injury to you. If your ClariMate is damaged or malfunctions, contact Buffet Crampon or an authorized service provider. For a list of Buffet Crampon service centers and official Buffet Crampon dealers, refer to the Buffet Crampon website.

Charging: Charge your ClariMate with the USB-C to USB-A cable included with your ClariMate. You may also charge ClariMate with other third-party USB cables and power adapters that are compliant with USB 2.0 standard or later and with applicable country regulations and international or regional safety standards, provided that they do not use Quick Charge technology. Other adapters may not meet applicable safety standards, and charging with such adapters could pose a risk of death, injury or damage to the ClariMate unit. Using damaged cables or chargers, or charging when moisture is present, can cause fire, electric shock, injury, or damage to ClariMate or other property.

Do not store or use in locations that are:

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

To prevent hearing damage, do not listen at high volume levels for long periods. 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 the unit, other than normal saliva content from proper use of the device (e.g. blowing into it normally). Never place containers with liquid on the 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 the ClariMate 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 charging cable 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 stepping on the unit, or placing heavy objects on top of it, as this may cause injury and/or damage to the unit.

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.

Handling 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.
- The ClariMate is not designed to be used with amplification, and should only be used with a pair of wired headphones.

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).

Consult the dealer or an experienced radio/TV technician for help.

Contains Transmitter Module FCC ID: 2ABRU-2564C

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: clarimate-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.

JAPAN

The equipment contains a transmitter module approved for use in the Japanese market.

MIC certified number 210-193220

CHINA

The equipment contains a transmitter module approved for use in China.

CMIIT ID: 2023DP19829

Contains Lithium battery in compliance with GB31241-2022.

China RoHS 2 Directive MIIT Order No 32, 2016:

No hazardous material exists over the threshold of GB/T 26572-2011 standard - China's Requirements for Concentration Limits for Certain Hazardous Substances in Electrical and Electronic Products.