



INSTRUCTION MANUAL

MUSIC OF THE PLANTS
Bamboo (V.8.2)



Damanhur.org

ENGL.

You can find this Instruction Manual in English language at our website

www.musicoftheplants.com

ITA.

Per la versione in **italiano** di questo Manuale di Istruzioni, consultare il nostro sito web

www.musicoftheplants.com

FRA.

Pour la version **française** de ce Manuel d'Instruction, veuillez consulter notre site web

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DEU.

Die **deutsche** Fassung dieser Bedienungsanleitung finden Sie auf unserer Website

www.musicoftheplants.com

SPA.

Para consultar el Manual de Instrucciones en **español**, visite nuestro sitio web

www.musicoftheplants.com

*"Our aim is the re-unification
of human beings
and the plant world."*



**We believe that plants are
living beings with a
collective consciousness.**

If we start to look at plants as active conscious beings, we become more aware of their subtle behavior and strategies. The apex roots have an electrical activity which is very similar to our own "brain."

Many scientists have found that plants are not just able to "smell" chemical substances and "see" the light emitted by their surrounding plants but they can even "hear sounds" emitted by themselves and other plants.

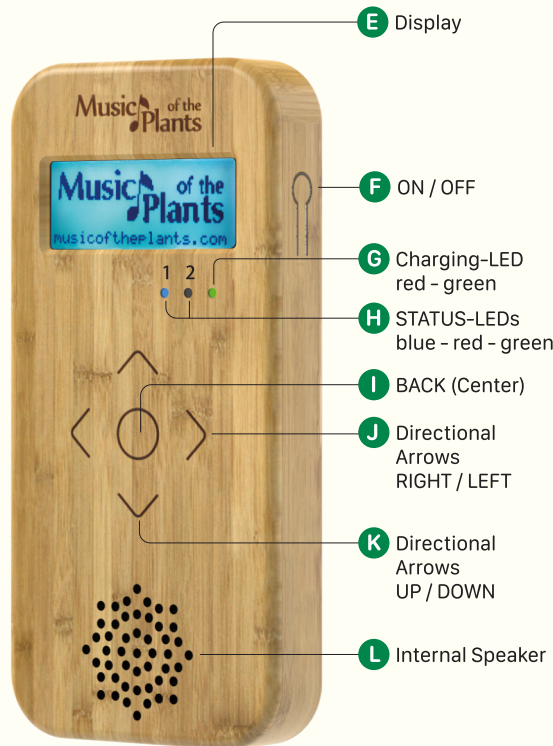
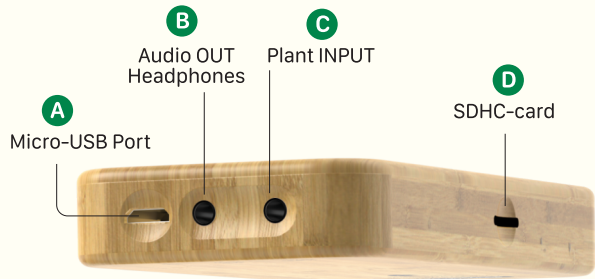
Since the 1970's, the Damanhur Federation of Communities in Italy has been researching communication with plants. This device deciphers the electrical impulses of plants and translates them into music.

Plants respond in very sophisticated ways to both physical and intellectual stimuli. The electrical pulse stream of each organism is unique, with each plant manifesting its own individual biological "signature sound."

Moreover, we have found that plants can learn to interact with human beings. After a plant realizes that the sounds generated by the Music of the Plants' device are a consequence of their own electrical activity, they learn to modulate their energy to change the sound.

The more experience the plant has with "playing music," the better able they are to modulate their sound to interact with humans and create a real form of communication.

***Welcome to the growing community
dedicated to exploring the intelligence
of the plant world.***



PRINCIPAL PARTS

- A Micro-USB Port** - This port has three functions:
- 1) Recharging the Internal Battery** - connect to a USB-charging adapter.
 - 2) MIDI output to computer** - connect the USB cable to a computer
 - 3) Data output to PC (Windows only).** Use the enclosed USB cable and connect the **Bamboo** to a PC. For this function, you will need the **Bamboo Control Software** to be installed on your PC.
- B Audio Out** - This port has 2 functions:
- 1) Connection to an external speaker** -
When an external speaker is connected or the earphones are plugged in, the internal speaker is disabled.
Save the music as a music file on your smartphone by purchasing a smartphone cable at our online shop:
www.MusicOfThePlants.com
 - 2) MIDI output to a MIDI interface** -
Connect the special (Micro-USB — 5pin DIN) cable to a MIDI interface, like a synthesizer or mixer.
- C Plant INPUT** - 3.5mm stereo-jack socket for the sensor cable which connects the electrodes to the plant:
Spring Clip - to be clipped onto a leaf
Metal Probe - to be inserted into the soil
- D SDHC-card** - you can record data from a plant to an SDHC-card. The SDHC-card is inserted here.
- E Display** - Displays the menu and status information.

F ON / OFF – Power switch

G Charging-LED – **Red:** charging in progress
Green: fully charged

H Status-LED 1 – **Blue (Flashing):** the sensor cable is not inserted

Blue (Fixed): cable is inserted but there is no signal from the plant

Status-LED 2 – **Red:** looking for the plant's signal
Green: playing music

I BACK – Touching in the middle between the four directional arrows at any time will return you to the next higher level of the menu.

J K Directional Arrows – On the **Bamboo** there are four directional arrows used to set various parameters.

- **UP** scroll UP → previous menu item
- **DOWN** scroll DOWN → next menu item
- **LEFT** horizontal scroll → select left or smaller value
- **RIGHT** horizontal scroll → select right or higher value

L Internal Speaker – The internal speaker is enabled, unless an external speaker is connected via a 3.5mm stereo plug.

CONNECTION TO A PLANT OR TREE

Connect the electrodes to a plant or tree as follows:

- **Insert the metal probe into the soil** near the roots of a plant or at the base of a tree. Be sure to pour some water around the metal probe to increase conductivity.
- **Moisten the surface of a leaf** and connect the spring clip to it. If the signal is not stable, to increase connectivity between the leaf and the clip you can purchase conductivity gel at our online shop:

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- Once the two electrodes are connected as above, insert the 3.5mm stereo plug into the **Plant INPUT C** on the device.

IF THE MUSIC DOES NOT PLAY

If the **Bamboo M** does not play, please check the following:

1. Music of the Plants is a technology that gives voice to plants. As with human beings, sometimes plants do not wish to speak. When this happens, its signal strength falls to a sub-audible level.

A plant's behavior depends on a number of factors, i.e. ambient light, water availability, temperature, soil fertility, and so on. Other factors which affect the plant's "music" are the plant's current health, if it is blooming, leaf fall, etc. Human factors which affect the plants are our thoughts, intentions, emotions, and touch, among others.

2. Please be sure to start each music session by moistening the leaf under the metal clip. In addition, please pour some water into the soil on top of the roots where you insert the metal probe. Water helps to improve the electrical conductivity between the plant and the device.
3. Plants whose leaves are thick and shiny (such as camellias) or have hard leaves (such as succulents or cactus) prevents the clear transmission of electrical signals. Choose plants with thin and soft leaves. Please be careful that the cable does not put too much weight on the branch.

4. The music played from clones (plants which are genetically identical) is less consistent than the music produced from non-genetically altered plants of the same species. Likewise, wild plants perform better than flowers purchased from a florist.
5. Tap water in many cities is chlorinated to kill bacteria, and often has traces of other chemicals which will negatively affect a plant's health and vitality. In addition, when a plant is in a small restrictive plastic pot, or there is too much activity in the room, this can stress the plant, leading to subdued or no activity.
6. Our thoughts and feelings, as well as our behavior and attitude, will influence the plants activity level. If you find that your plants are not responding, try communicating your sincere desire to interact with your plant.

NAVIGATING THE MENU

On the **Bamboo**, there are four directional arrows

- **UP – DOWN**
 - **LEFT – RIGHT**
 - **CENTER:** Back Button
- } for setting various parameters.

After starting the device, the status information appears on the display.



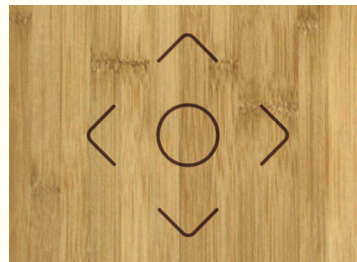
The **battery status** appears at the top right-hand corner of the display.

The **active profile** is displayed in the top left-hand corner (in this case Profile 5). The middle line shows the operating condition: such as music playing, no signal, bad signal, or waiting for signal.

By touching the **UP** and **DOWN** directional arrows you can scroll through the Main menu and the Sub menus.

By touching the **LEFT** and **RIGHT** directional arrows you can make a selection or change the value to a higher or lower level.

PLEASE NOTE: The value you see is automatically saved as your preference.



Without touching the directional arrows for 30 seconds the background-light of the display will switch off to save power.

When you touch the directional arrows again, the background-light will automatically turn back on.

MENU - TABLE OF CONTENTS

1. Volume:

The volume can be adjusted by pressing the RIGHT or LEFT arrows when you are not in a specific menu.

2. Music Profiles:

Preset music profiles: P1 to P12
All 12 preset musical profiles can be customized.

3. Device Sensitivity options:

Automatically adjusts
Manually adjusted from slightly sensitive to very sensitive (1 to 7)

4. Tempo (musical notes played per minute):

30, 45, 60, 120, 180, 240, 360

5. Sound:

Instrument
Root Note
Scale
Note Spacing
Chord
Base Frequency
Mystery
Reverb
Chorus
Spatial
Profile Save

Back to Main Menu

6. Record:

Record Setting
To Record
Recordings
Play Record Number
Format SDHC-card

Back to Main Menu

7. Settings:

Output Mode
Language
Version
Factory Reset
Upgrade

Back to Main Menu

FUNCTION DESCRIPTIONS

1. Volume:

The volume can be adjusted by pressing the **RIGHT** or **LEFT** arrows when you are not in a specific menu.

2. Profiles:

A profile is a pre-defined set of sound parameters, which includes a musical instrument, a specific musical scale, and a base frequency.

All changes made in the sound-menu are temporarily stored in the short term memory until they are saved to one of the profiles.

	Instrument	Musical Scale	Base Freq.
P1	Pad 1	C Major	440Hz
P2	Celesta	D Lydian	440Hz
P3	Kalimba	B Healing	432Hz
P4	Synth Str. 1	F Phrygian	440Hz
P5	Synth Str. 2	A Minor	440Hz
P6	Pad 2	G Japanese Folk	440Hz
P7	Tinkle Bell	C Arabic	440Hz
P8	Pad 6	C Indian	432Hz
P9	FX 6	C Native American	432Hz
P10	Pad 2	G Damanhurian	432Hz
P11	Piano 1	E Major	432Hz
P12	Piano 1	C Chromatic	440Hz

3. Device Sensitivity:

The sensitivity parameter controls the amplification of the plant's signal.

When set on **automatic**, it automatically adjusts to the strength or weakness of the plant's signal. It works seamlessly in the background to give you the ideal output level.

For research purposes, we recommend that you select the **manual** sensitivity option. You will be able to closely monitor the plant's actual signal strength and its relationship to various inputs.

You will find in most cases there is no audible difference between various sensitivity settings. This simply means that the signal is already at its strongest level.

4. Notes per Minute:

The plant is the musician and decides the speed of the composed music.

However, this function allows the listener to tune the music to their current mood or activity. For example, if you would like to meditate or practice yoga, you can set this function to a lower speed. Or, conversely, you can set a higher speed if you would like to be more active.

Please Note: this is only a suggestion given to the plant, and the plant may override this suggestion.

5. Sound:

Enter the Sub-Menu for the **Sound** settings. In the Sub-Menu you will find all available **Sound** settings, like instruments, scales, effects, and more.

Instrument: Choose a musical instrument from the list.
Bamboo M (128 instruments)

Root Note: Choose the Root Note for the Scale:
C, C#, D, D#, E, F, F#, G, G#, A, A#, B

Scale: Choose a scale from the following list: Chromatic, Major, Minor, Harmonic Minor, Pentatonic, Blues, Dorian, Phrygian, Lydian, Healing, Japanese Folk, Chinese, Damanhurian, Native American, Indian, Arabic, Persian

Notes per Minute: Choose the maximum notes per minute you would like for your plant to play.

Chord: Choose your preferred chord pattern:
1 note / 3 notes / triad (3 notes x 3 times = up to 9 notes)

Base Frequency: Choose 440Hz, 432Hz, or 426.7Hz as the base frequency.

Mystery: It gives a sense of suspense to the music. Choose the mystery-level of the music (0 – 7).

Reverb / Chorus / Spatial: Choose the effect intensity (0 – 15).

Profile Save: This function saves the temporarily stored values to the last used profile (P1 – P12). If you would like to change a profile do it in the following way:

1. Choose the profile you would like to change (P1 – P12).
2. Go to the **SOUND-menu** and change the parameters.
3. Save these temporarily stored values in that profile.

6. Record:

It is now possible to record the data from a plant to an SDHC-card. You can save and listen to up to 99 recordings.

If you would like to use this function, please insert an SDHC-card in the slot **D** **BEFORE you start the Bamboo**. The device can only initialize the SDHC-card at start up.

If the Bamboo recognizes the SDHC-card, you will see an SDHC-card icon in the bottom right-hand corner of the display as shown below:



When this icon appears, an SDHC-card has been inserted and is ready to receive data.



When this icon appears, an unsupported card has been inserted, or an error has occurred during initialization.

Enter the Sub-menu for the SDHC-card settings.

In this Sub-menu you will find all available functions which work with the SDHC-card.

Record Settings: You can pre-set the recording-duration. Pre-set durations are: 1min, 3min, 5min, 10min, 15min, or manual.

To Record: To make a recording

For pre-set durations the recording stops automatically.

For the manual option (non-pre-set duration recordings) you can terminate the recording here.

Recordings: See a list of the saved recordings, and select anyone of them to play.

Track #: (Play Recording Number): Start playing or stop the selected recording.

Format SDHC: Format the SDHC-card.

Supported cards: ONLY "standard" micro SDHC-cards (4GB-32GB) can be used.

- Basic SD-cards are **NOT** supported.
- SDHC UHS-1 cards usually referred to as "ULTRA" are also **NOT** supported.

PLEASE NOTE:

1. The data file recorded on the SDHC-card can ONLY be played on the **Bamboo M**, or with the **Bamboo M Control Software**. It is NOT a standard mp3 or wav audio file which can be read or listened to on any other device, such as a laptop or smartphone.
2. All saved recordings are deleted when reformatting!
3. Compatible SDHC-cards can be purchased from our online store:
4. If you would prefer, you can record the music directly to your smartphone using a smartphone cable, which can also be purchased from our online store.

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7. Settings:

Enter the Sub-menu **Settings**. In this Sub-menu you will find all of the general settings.

Output-Mode: Choose an **Audio OUT** output mode

1. **Audio Speaker:** The **Bamboo**'s internal speaker is enabled, unless an external speaker is plugged into the **Audio OUT** socket.
2. **MIDI-USB → PC (MAC):** The **Bamboo** can supply a MIDI signal from the Micro-USB port to either a PC or a MAC computer.
3. **MIDI-jack > Synth:** The **Bamboo** can supply a MIDI signal from the Audio OUT socket to a MIDI interface like a synthesizer or mixer via the specialty MIDI-jack cable (can be purchased from our online store).
4. **Record Audio:** When a jack cable is plugged into the Audio OUT socket you can listen to music from both the internal speaker and to an external device. This function is particularly handy when using our "Smartphone" cable. You can listen to the music and record it at the same time.

Language: Choose one of the following languages:

English
Italian
French
German
Spanish
Chinese
Japanese
Russian

Version: Shows the version of the device, and the device's serial number.

Factory Reset: You can return to the factory default sound settings for the profiles (P1- P12).

PLEASE NOTE: This will delete all of your changes !

Upgrades: Upgrade your device here by entering the upgrade code you will receive by email, after purchase from our online store.

USING THE MIDI-SIGNAL OUTPUT

You can use the MIDI signal to compose music with the help of your favorite professional music software. The **Bamboo M** has 2 different options:

1. Use the Bamboo M's MIDI signal to connect directly to your computer (PC or MAC).

You can supply the MIDI signal directly to your computer by using the USB cable (Micro-USB - USB plug) supplied with the **Bamboo**.

Plug the Micro-USB cable end into your **Bamboo's** "USB port"

From the menu go to **SETTINGS**
Select **OUTPUT MODE** and
Then select **MIDI-USB → PC or Mac**

2. Use the custom MIDI-jack cable (which needs to be purchased separately*) to connect your Bamboo M to a MIDI interface.

You can supply the MIDI signal directly to a MIDI interface like a synthesizer or mixer via a MIDI-jack cable*.

Plug the **MIDI-jack cable** into your **Bamboo M's Audio OUT** socket.

From the menu go to **SETTINGS**
Select **OUTPUT MODE** and
Then select **MIDI-jack > Synth**

* The custom **MIDI-jack cable** can be purchased at our online store: www.musicOfThePlants.com

USING THE BAMBOO CONTROL SOFTWARE

Bamboo M Control Software is a revolutionary new software (currently available for Windows PC only) which allows you to VIEW your plant's electrical signal in real time. Researchers will find this option particularly helpful when studying plant behavior.

This software opens up a new era in plant research for scientific laboratories as well as for people who are passionate about their plants and have been seeking a deeper connection. It comes with a detailed instruction manual.

Bamboo M Control Software can be purchased from our online store.

www.MusicOfThePlants.com

RECHARGING THE BATTERY

The battery usage time is about 5 hours.

If you press the ON/OFF button **F** and the device does not start, it means that the device needs to be recharged or connected to a power source before using.

To recharge, connect the supplied **USB-charging cable** to an AC-DC adapter and the other end to the **Bamboo's** USB port **A**. Alternatively, you can connect it to a computer or an external powerbank.

Please recharge when the battery Indicator indicates a low power level. The RED LED charging light **G** is on when the AC-DC adapter is correctly connected to a suitable power source. The RED LED charging light turns GREEN when the battery is fully charged.

PLEASE NOTE: To increase your battery's lifetime, please fully charge it at least once every 6 months.

WARRANTY

The seller guarantees the absence of flaws and defects and nonconformity of this product at the time of purchase, and for the duration provided for by the laws of the country in which the purchaser resides. If your product is found to be defective due to the materials used or due to the way it was manufactured, during the period covered by this warranty, **Streampath s.r.l.** guarantees free repair or free replacement of the product, if proof of purchase date is provided by presenting a valid receipt.

For any defects that may occur in the first six months from the date of purchase of the product, **Streampath s.r.l.** will carry out at its own expense the verification of the nature of the defect. Subsequently, in the sole case in which the malfunction does not depend on a conformity defect, **Streampath s.r.l.** may request reimbursement of the cost - reasonably and previously indicated - that **Streampath s.r.l.** has incurred by said verification.

If a conformity defect is found, **Streampath s.r.l.** will carry out the repair or replacement of the product within 30 days of the request and without charge to the consumer.

This warranty is not applicable in the following cases:

- Improper use of the product
- Damage resulting from repairs or modifications carried out by unauthorized personnel
- Damage caused by extraneous objects or substances
- Damage caused by the use of unauthorized accessories
- Flaws, defects and damage caused by natural or atmospheric events

This warranty does not apply to accessories.

For the battery, given the average life cycle of this component, the warranty period for manufacturing defects is 12 months from the date of purchase. This warranty does not cover normal wear and tear in conditions that jeopardize the correct functioning of the battery itself (i.e. use at high temperature, overload, etc.).

This warranty is valid only for the original purchaser and cannot be transferred. All repairs and replaced components will be covered by a limited warranty. This warranty will expire on the same date as the original warranty.

Connect to our social networks:

 **Website** – <http://www.musicoftheplants.com>



Facebook - Music of the Plants – <http://www.facebook.com/musicoftheplants>



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https://www.instagram.com/music_oftheplants



Youtube – Music of the Plants –
<http://www.youtube.com/musicoftheplants>



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Printing version 2.1 (2023)