A USB Port

B Audio OUT Headphones

C Plant INPUT

D SDHC-card

E Display

F ON / OFF

G Charging-LED red - green

H STATUS-LEDs blue - red - green

I BACK (Center)

J Directional Arrows RIGHT / LEFT

K Directional Arrows UP / DOWN

L Internal Speaker

Music of the Plants

Music of the Plants
musicoftheplants.com

1 2

PRINCIPAL PARTS

A **USB Port** - This port has three functions:

1) **Recharging the Internal Battery** - connect to a USB-charging adapter (all versions).
2) **MIDI-Output** - connect the MIDI (5 pin DIN plug) –USB cable (**Bamboo M** version only) to an external synthesizer or via the **MIDI-Kit** to a computer.
3) **External Control via Computer** (control / record data) Use the enclosed USB date cable and connect the Bamboo to a computer. For this function, you will need the Bamboo software to be installed on your computer.

B **Audio Out** - Connection to an external speaker When an external speaker is connected or the earphones are plugged in, the internal speaker is off. Save the music as a music file in your smartphone by purchasing a smartphone cable at our online shop:

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 plays, unless an external speaker is connected.

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.

- **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:

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

NAVIGATING THE MENU

On the Bamboo, there are four directional arrows

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

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

```
P5                    🔋
music playing
(I)》 intern speaker
```
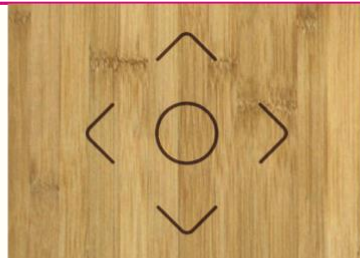
The **battery status** appears at the top right hand corner of the display.

The **active profile** is displayed top left hand corner (in this case Profile 5). The middle line shows the operating condition: no signal, awaiting signal, playing music, etc.

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:

Automatically adjusts
Manually adjusted from slightly sensitive to very
sensitive (1 to 15)

4. Tempo (musical notes played per minute):

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

5. Sound: (Bamboo M version only)

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:

Language
Output Mode
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 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 clear and strong.

4. Notes per Minute:

In our concept, the plant is the musician and have the ability to decide the speed, the dynamic and the composed music. This parameter set the maximum tempo we allow the plant to play.

That is important for us to tune the music with our mood or activity. You can set a low value if you want to meditate or doing yoga, and you can set an high value if you want to be more active.

Note that this is only a possibility given to the plant but the plant will always decide if to play faster or not.

5. Sound:

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

Instrument: Choose a musical instrument from the list (12 instruments). **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. Your 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.

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

Format SDHC: Format the SDHC-card.

Supported cards: ONLY "normal" 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,** or with the **Bamboo 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.

7. Settings:

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

Language: Choose one of the following languages:

Chinese

English

French

German

Italian

Japanese

Russian

Spanish

Output-Mode: Choose an output mode - Audio OUT, or MIDI, or Record Audio.

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

Factory Reset: You can return to the factory 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, for the **Bamboo M** upgrade (please see page 18 for details).