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## INSTRUCTIONS FOR USE AND MAINTENANCE




MUSIC OF THE PLANTS

Model: **U1**

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
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		Pagina	2/38


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	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	3/38

## Summary:

A.1	User Instructions .....	5
A.1.1.	Basic instructions for safety .....	5
A.1.1.1	Possible dangers when using the device .....	6
A.1.1.2	Intended Purpose – Standard Use.....	6
A.1.1.3	Intended Purpose – General Use.....	7
A.1.1.4	Guarantee and responsibility .....	7
A.1.2.	Safety Rules.....	9
A.1.2.1	In general.....	9
A.1.2.2	Explanation of symbols and recommendations .....	9
A.1.2.3	Safety measures – Protective equipment .....	10
A.1.2.4	Protective equipment.....	10
A.1.2.5	Informal safety measures .....	10
A.1.2.6	Personnel training .....	10
A.1.2.7	Use of the device .....	10
A.1.2.8	Safety measures in normal conditions of use .....	11
A.1.2.9	Dangers using electrical devices.....	11
A.1.2.10	General risks.....	12
A.1.2.11	Maintenance and repairs, problem solving .....	12
A.1.2.12	Device modifications.....	12
A.1.2.13	Cleaning and suitable positioning of the device .....	12
A.1.2.14	Copyright.....	13
A.1.2.15	Take delivery of the device .....	13
A.1.2.16	Registration .....	13
A.1.2.17	Suitable places for using the device.....	13
A.1.2.18	Connection with power supply .....	14

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	4/38

A.1.4.	Operating Instructions .....	17
A.1.4.1.	Views of the device .....	17
A.1.4.2	View of the front panel.....	18
A.1.4.3	View of the rear panel .....	19
A.1.4.4	View of assembled device .....	20
A.1.4.5	Set up of the device .....	21
A.1.4.6	Connection to the power supply .....	21
A.1.4.7	Connection of the electrodes to the plant .....	22
A.1.4.8	Connection to pre-amplified speakers or to amplification system .....	23
A.1.4.9	Regulation and initial settings .....	23
A.1.4.10	Turning the device on .....	24
A.1.4.11	Auto-range .....	24
A.1.4.13	Menu for MIDI synthesizer settings.....	27
A.1.4.14	Tab. 1: Available musical timbers in the sound generator: .....	29
A.1.4.15	MIDI Synthesizer .....	30
A.1.5.	Maintenance .....	31
A.1.5.1	In general.....	31
A.1.5.2	Regular and extraordinary maintenance work.....	31
A.1.6.	Circuit diagrams .....	32
A.1.6.1	Layout of printed circuit – Basic board.....	32
A.1.6.2	Layout of printed circuit – Synthesizer board .....	33
A.2	COPY of the EU DECLARATION OF CONFORMITY.....	34
A.3	Technical details.....	35
A.4	LIST OF FIGURES.....	36
A.5	NOTES.....	37

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	5/38

## A.1 User Instructions


### A.1.1. *Basic instructions for safety*

It is important that you take time to read the following instructions on safety and health with care and attention.

The **Music of the Plants** device contains electrical components and failure to comply with the safety rules, leading to incorrect use of the device, could cause harm to people and property.

In order to avoid serious physical damage, we strongly recommend that the device be operated by adults only, after carefully reading and understanding this manual. In any case, the following standard safety instructions must be complied with:

- Read and follow the user instructions.
- Respect all the safety guidelines and warnings contained in this manual, to ensure safe use of the device.
- This device must be used (by adults) solely for the purpose for which it has been manufactured.
- Connect the device to the power supply, only after checking that the body (housing) of the device is not damaged in any way.
- Use only the transformer supplied in the package, otherwise, before using any other transformer; ask the manufacturer to suggest compatible products.
- Unroll the transformer cable completely in order to avoid possible damage or burnout.
- Do not insert any object into the device.
- Do not leave the device unsupervised when functioning, in order to avoid accidents due to improper use by non-authorized persons or children.
- Do not place the device on a wet surface or in a damp environment.
- Do not throw the device at people or property.
- The device must be connected only to the power supply with the voltage indicated on its plate.
- Place the device in a well-ventilated environment in order to avoid possible burnout.
- Do not tamper with the device's components to avoid risk of electric shock.
- The device must be transported with care to avoid any damage to the electronic circuits.
- The device must be utilized only in the recommended temperature range in order to avoid damage to the electronic circuits.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	6/38

- Do not modify the device structure, as it could cause unforeseen dangers and the guarantee would be invalidated.
- Comply with the safety rules that apply in the place where the device is utilized.

#### A.1.1.1 Possible dangers when using the device

The “**Music of the Plants**” device is built to the most technologically advanced standards and complies with existing safety rules.

Operating the device without complying with the recommendations of this manual can be dangerous.

The device must be used:

- solely for the purpose for which it has been manufactured;
- respecting all technical and safety guidelines (see paragraphs on *guarantee* and *safety rules*).

Any problem, which could affect safe use of the device, should be reported immediately to and resolved by authorized personnel (see paragraphs on *guarantee* and *safety rules*).

#### A.1.1.2 Intended Purpose – Standard Use

The device “**Music of the Plants**” is designed solely for purposes “consumer”.

The appliance must be used by responsible adults. It is not suitable for use by children. The device allows you to control a MIDI tone generator by measuring the electrical resistance of the tissues of a plant / tree. It is, therefore, a biofeedback system, which transforms the variations of a physical parameter of the plant in the control signals for a MIDI sound generator.

The system, choosing the desired sensitivity, is able to self-regulate with respect to changes of the resistance.


**It is NOT intended to function on any part of the human or animal body.**

For a different use than it’s designated origin requires specific authorization to the manufacturer. Otherwise use is not considered compliant.

The company Devodama Ltd shall in no event be liable for damage caused by improper use of electronic equipment in question.

Intended use includes:

- Complying with all the detailed instructions for use
- Compliance and enforcement of maintenance and overhaul

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	7/38

In case of doubt, please contact the Service Team (for contacts [www.musicoftheplants.com](http://www.musicoftheplants.com)) trained by the company **Devodama srl** to respond to every need.

#### A.1.1.3 *Intended Purpose – General Use*

The apparatus "**Music of the Plants**" is designed to control a MIDI tone generator by measuring the electrical resistance of the tissues of a plant / tree.

As described in the dedicated section, the equipment must be put in contact with the plant / tree by means of special terminals (electrodes) supplied (for how to connect please refer to the section).

The device "**Music of the Plants**" **U1** model can be connected directly to speakers pre-amplified and / or to an external MIDI tone generator. For more details on how to use please refer to the specific paragraph in this manual (A.1.3)

#### A.1.1.4 *Guarantee and responsibility*


For the device "Music of the Plants" U1 model we assume a warranty of 24 months from the date of purchase indicated on the invoice. Without the invoice there is no right for a replacement, or to a free repair.

For the application of the warranty, you must return the unit to the dealer complete in all its parts, in original packaging, together with the invoice. The repair and / or replacement of parts subject to wear (power supply, cables), as well as cleaning and maintenance are not covered by the guarantee and therefore subject to payment.

When the warranty has expired, repairs must be performed by a store or a specialized service for remuneration.

No responsibility concerning physical or property damage may be charged to us, if even one of these conditions was not met:


- Improper use of the device to the user manual;
- Incorrect power on, use and maintenance of the device;
- The non-compliance with the recommendations for the use of this manual about

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	8/38

transportation, installation, assembly, turning, use, maintenance of the device and its accessories;

- Modifications of the device without the consent of the manufacturer;
- Lack of periodic inspection of the parts of connection to the power supply;
- Repairs performed by unauthorized personnel;
- Connecting to a power supply system not under rules of safety;
- Influence of factors unrelated to force majeure;



	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	9/38

## A.1.2. **Safety Rules**

### A.1.2.1 *In general*

This device is manufactured in full accordance with the rules and European directives.



It bears the initials CE. The components used are all compliant with industry regulations. This ensures a standard of safety at European level. The misuse or errors in operation may lead to dangerous conditions. Carefully follow the safety instructions.

The device "**Music of the Plants**" **U1** model offers the following advantages:


- Gives the possibility to listen to the "voice" of your plants;
  - Gives the possibility to directly connect simple pre-amplified speakers (such as computers) or headset without the burden of costly external MIDI tone generators;
- The Company **Devodama srl** offers a fast and reliable after-sales for each unit delivered. For questions of a technical nature or related to our service, please contact us, during office hours, to our address published in the details of the contacts or on the site [www.musicoftheplants.com](http://www.musicoftheplants.com). We will be happy to help.

### A.1.2.2 *Explanation of symbols and recommendations*

For a clear understanding of the key safety recommendations, we have used the following symbols:

	General danger – possible danger for people's health and life.
	Possible danger from electrical power.

Failing to pay attention to these safety signs could lead to anything from superficial injury or material damage, to serious consequences for health.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	10/38

#### A.1.2.3 *Safety measures – Protective equipment*

Considering the type of device and the nature of possible risks connected with its functioning, users do not require protective equipment.

Nevertheless, the user instructions on how to use the device, as described in the relevant paragraphs of this manual, must be strictly adhered to.

#### A.1.2.4 *Protective equipment*

The electrical components of the device are protected inside a metallic body, which can be disassembled using special tools. This level of protection can be considered adequate regarding possible risks. **(Please note: the guarantee will no longer be valid after the metal body has been disassembled)**

As the device is under electrical tension (even though the tension level is low), users are safe from risk of electrocution only after the device has been disconnected from the power supply.

#### A.1.2.5 *Informal safety measures*

This user manual must be read and understood in full, and kept during the useful life of the device.

#### A.1.2.6 *Personnel training*

The device can be used by adults who have understood the risks mentioned in this user manual. The device is not a toy and unsuitable to be used by children.


Users can proceed to operate the device according to the guidelines only after they have read and understood the instructions in this manual.

Maintenance work should not be carried out on any part of the device. If this becomes necessary, please contact the manufacturer.

Please note: the guarantee is no longer valid if the seal has been tampered with.

#### A.1.2.7 *Use of the device*

Only people who are properly informed should use the device, using it according to its intended purpose.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	11/38

#### A.1.2.8 *Safety measures in normal conditions*

Before operating the device, users should check that details of the place chosen for the performance do not constitute any danger for not being compatible with the device (see section 'Suitable places for using the device').

Check also that the device is in good condition and all electrical connections are functioning correctly (feeder, if supplied with the device).

If you find the area unsuitable or the device or the electrical connections malfunctioning, do not use the device.

#### A.1.2.9 *Dangers using electrical devices*



The feed voltage for the **U1 model** of the **Music of the Plants** device, coming from an AC-DC transformer, or a rechargeable battery-powered charger, must be 12 V DC.

If you use an external feeder, other the one supplied with the device, please check that it is in good conditions and properly functioning.

The use of different types of transformers must be previously approved by the manufacturer, who will issue relevant authorisation in writing.


The AC-DC transformer must be connected to the device according to the guidelines described in the relevant section.

The AC-DC transformer must be connected to a F.M. system, which complies with the accepted national standards.

The electrical components of the device must be regularly inspected (see 'Maintenance').

If the electrical components are clearly damaged (as an example only: split, overheated or badly insulated cables) a qualified and authorised technician must repair or substitute them immediately.

The device must not be used where it might come in contact with water or any other liquid.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	12/38

#### A.1.2.10 *General risks*



Accidents and consequent physical damage could happen when the device is moved and handled in general.

Accidental collisions with the device could cause physical or material damage, especially as a consequence of inappropriate use. The manufacturer cannot be held responsible for damage caused by inappropriate use, which does not comply with the standard specifications.

- Handling and positioning:
  - Be careful in handling or moving the device, as even accidental collision with its metallic body, which has no sharp or uneven edges, could cause minor damage.

#### A.1.2.11 *Maintenance and repairs, problem solving*

The necessary maintenance and settings must be carried out at the recommended intervals.

During all maintenance or cleaning work, the device must be unplugged from the power supply.

Check the screws on the device's body and tighten them if necessary

#### A.1.2.12 *Device modifications*

The device must not be modified in any way (in its structure or electrical components) without previous consent in writing from the manufacturer, [Devodama Srl](#).

Avoid using spare parts that are not supplied by the manufacturer, thus invalidating the guarantee.

#### A.1.2.13 *Cleaning and suitable positioning of the device*


After it has been turned off, the device must also be unplugged from the power supply and from any other electrical source (battery-powered charger).

When not in use the device should be kept in its original box.

Keeping the device in a damp or wet environment could damage its electrical components, compromising the safety conditions during its functioning.

When cleaning the device, do not use solvents or liquid products. Gently rub the external surface only with a damp cloth.

**Before cleaning, the device must be turned off and disconnected from the power supply.**

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	13/38

#### A.1.2.14 *Copyright*

The copyright on this User Manual belongs to the manufacturing company **Devodama Srl**. This User Manual has been designed for users of the device.

It contains instructions and recommendations, which must not be either fully or partially:

- Duplicated
- Distributed
- Divulged to third parties

Failure to comply with these directives could lead to legal action.

#### A.1.2.15 *Take delivery of the device*

When you take delivery of the device, please check for possible damage/anomalies and report them on the delivery note. The data shown on the plate on the device must tally with those on the front page of this user manual. If any of the elements in the package are damaged, please contact us in writing within 8 days after returning the whole package to the manufacturer (see the contact details of **Devodama Srl** in this manual).

Possible damage during shipping to the customer must be notified to the carrier directly, following their procedure.

The packaging used for the delivery of the device and its accessories serve the purpose of protecting them from minor knocks and jolts during transportation.

#### A.1.2.16 *Registration*


Customers do not need to register the device, as it will already have been registered by the manufacturer, **Devodama Srl**, before delivery.

If you did not buy the device directly from the manufacturer, within 4 weeks from the purchase date you must send your data and those of the device to the manufacturer through the website [www.musicoftheplants.com](http://www.musicoftheplants.com).

#### A.1.2.17 *Suitable places for using the device*

The device has been designed for the consumer market, it is not therefore intended for professional use.

It should be used with proper care in 'normal', 'habitable' or 'accessible' places, or in open spaces (please note: do not place the device where it can be subjected to excessive damp, wet conditions, overexposure to sun, bad weather in general).

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	14/38

In order to guarantee its correct and safe functioning, all the general instructions must be carefully followed.



The device has not been designed to be used in 'places of increased risk in case of fire', and should not be used in such places.

The device has not been designed to be used in very damp or wet places or conditions, and should not be used in such places or conditions.

Safe use of the device also depends on the temperature being in the set range, which is between 0°C and +50°C. You must also consider the good conditions for the plant.

#### A.1.2.18 *Connection with power supply*




It is very important that the feed voltage for the device, coming from an AC-DC transformer, or better still from a rechargeable battery-powered charger (for ex. PSU 12 Pb, or a lead-acid battery 12 V 2/3 Ah, or four linked 4.5 V) is higher than 12 V DC, in the range of 12 to 18 V DC.

If you are using a transformer, connect the plug of the transformer to the power supply with the correct tension value (for Europe 230V/50Hz), according to the value shown on the plate on the transformer. It is important to plug in the transformer following the existing norms and regulations, and to comply with the safety measures as well as with grounding (earthing) procedures.



Unroll the AC-DC transformer cable completely in order to avoid possible burnout.

Use only the cable supplied in the package, or one which is basically identical. In any case, the cable must comply with the current regulations of the country where the device is utilized

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	15/38

A.1.2.19 *Basic Kit – accessories supplied in the package*


The **U1** model of the **Music of the Plants** device is supplied with accessories and is ready to be used.

The basic Kit includes:

AC-DC transformer with a 3 mm int. coaxial plug	1
Electrodes to connect to plant/tree	1



Figure 1 – View of full kit and packaging

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	16/38

A.1.3. User instructions

A.1.3.1.1 *Identification*

Identification: **Music of the Plants.**

Model: **U1**

Serial Number: see plate on the device

Year of manufacture: see plate on the device

A.1.3.1.2 *Information on the manufacturing company*

**Devodama Srl**

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Website: [www.musicoftheplants.com](http://www.musicoftheplants.com)

A.1.3.1.3 *Info on the assembling company*

**Solera sc**

Operational Headquarters: via Baldissero n. 21 - 10080 Vidracco (TO) - Italy


VAT Reg.Nr: IT08853420019

Tel +39 0125 789940– Fax +39 0125 791005

e-mail: [solera@solera.info](mailto:solera@solera.info)

Website: [www.solera.com](http://www.solera.com)



	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	17/38

### A.1.4. Operating Instructions


#### A.1.4.1. Views of the device

The device is made of the following parts:

A. – Central body	B. - Display
C. – Front Panel	D. – Rear Panel



Figure 2 – General view of the device

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	Istruzioni originali	Data	03/02/2015
		Revisione	0.1
		Pagina	18/38

#### A.1.4.2 View of the front panel

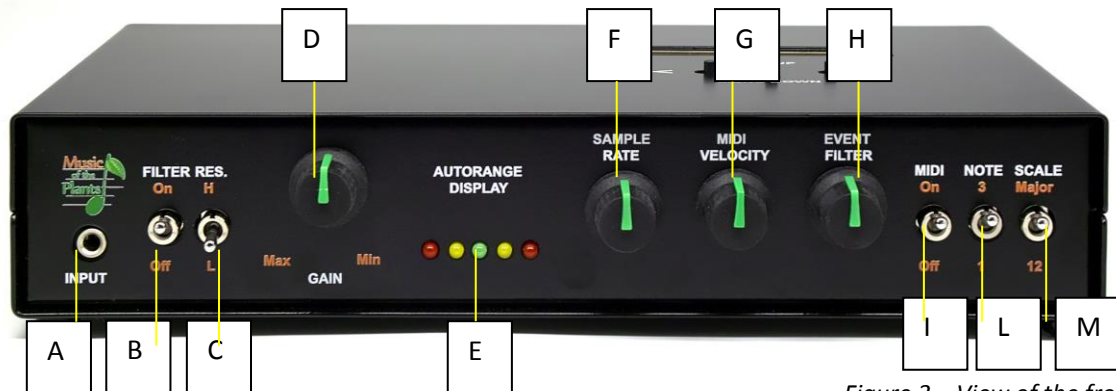



Figure 3 – View of the front panel

- A** **Input** - 3.5 mm stereo jack socket for the cable, which connects to the plant.
- B** **Filter on/off** - Switch to activate/deactivate a filter, which eliminates electromagnetic interferences from the power supply or electronic devices, which can generate sounds not coming from the plant activity. **For the correct detection of the signal of the plant, it must be kept always ON.**
- C** **Res H / L** - Selector of the scale of resistance to be measured; H = High (to be used for trees) / L= Low (for potted plants).
- D** **Gain** - Selector of sensitivity; amplification of variation in electrical resistance between electrodes [Min on the right, Max on the left].
- E** **Auto range display** - Shows the functioning of the auto-regulation system.
- F** **Sample Rate** - Scanning frequency of the measurement of the input signal from the plant
- G** **MIDI Velocity** - Dynamic control of the sound generated. When you turn to the left soft sound and low volume, when rotated right hard sound and higher volume.
- H** **Event Filter** – Define the cut-off level of the minimum electrical change to be translated. Increasing it by turning to the right, we need changes gradually wider because the instrument responds.
- I** **MIDI On/Off** - Enables/disables emission of MIDI codes to the synthesizer. When set to OFF, it sends a signal that turns off all the sounds from the synthesizer.
- L** **Note 3 / 1** - It selects monotonic or polyphonic modes (three notes).
- M** **Scale Major / 12** - It selects production of notes in a pre-set harmonic scale (A-major), or a Chromatic scale (12).

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	19/38

#### A.1.4.3 View of the rear panel

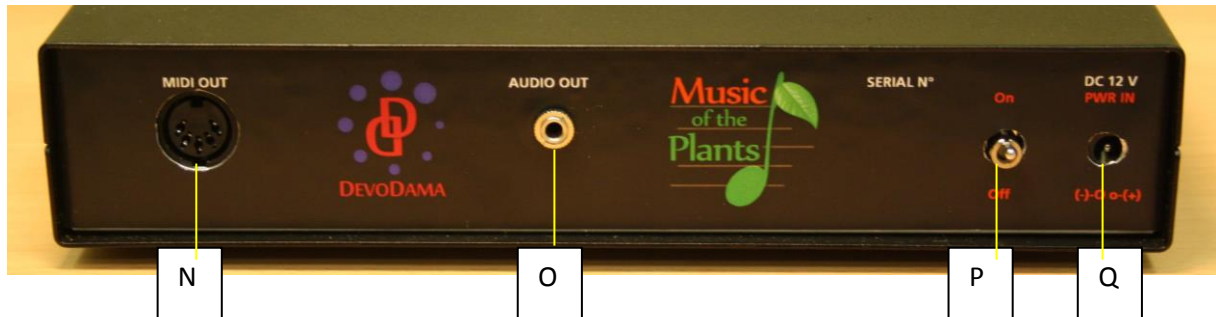



Figure 4 – View of the rear panel

- N** **MIDI Out** - to be connected optionally to an external MIDI synthesizer.
- O** **Audio Out** – Connection for speakers via jack.
- P** **On/Off** – Switch on / Switch off
- Q** **DC 12 V PWR IN** - Input for transformer - Power supply


	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	Istruzioni originali	Data	03/02/2015
		Revisione	0.1
		Pagina	20/38

#### A.1.4.4 View of assembled device



Figure 5 – View of assembled device

- 1 **Electrodes** – connect to plant/tree.
- 2 **Nail** - tip to be inserted into the ground and connected to the black electrode/clip
- 3 **AC-DC Transformer** – connect to the power supply. -output 12V, 500 mA, polarity +o)-

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	21/38

#### A.1.4.5 *Set up of the device*

Take the device and position it in a suitable place under the following conditions:


- On a stable and even surface.
- Surface and surroundings must respond to the requirements specified in the relevant section of this manual: the device must be protected from humidity, wet conditions, overexposure to sun, bad weather in general, dirt).

#### A.1.4.6 *Connection to the power supply*



Figure 6 – View of the AC-DC transformer and its connection to the device

The AC-DC transformer, included in the package, connects the device to the power supply (12V, 500 mA, polarity +o)-. Please take care of the following:

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	22/38

- Unroll the cable completely.
- The wiring system to which you are connecting must be made in accordance with current regulations, with life-saving protection and provided for connection to ground.

Connect the AC-DC transformer to the power supply and the jack at the other end of the cable to the input on the rear panel of the device (Fig. 3 – Q).

#### A.1.4.7 Connection of the electrodes to the plant

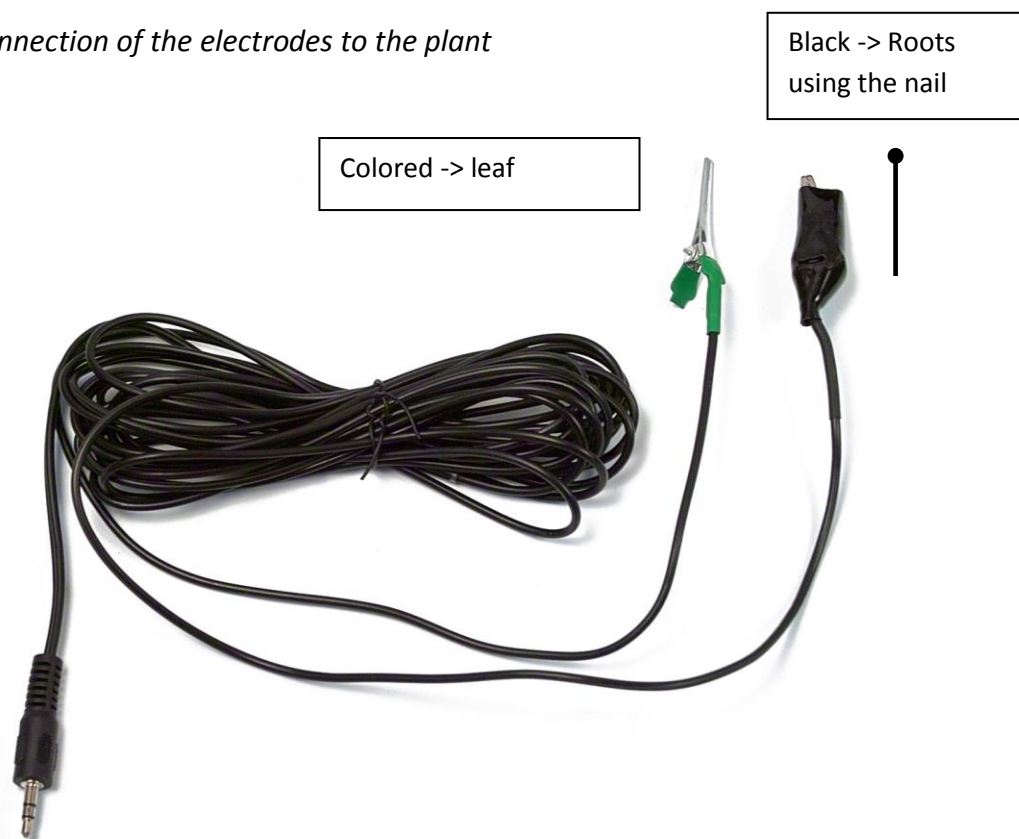



Figure 7 – View of the cable with electrodes

Connect the electrodes to the plant as follows:

- Insert the iron nail in the soil (pot or ground) near the roots of the plant or at the base of the tree.
- Connect the black electrode/clip to the nail in the soil.
- Connect the colored electrode to a green leaf wetting surface lightly

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	23/38

*Figura 8 – View of colored electrode clipped on plant*



#### *A.1.4.8 Connection to pre-amplified speakers or to amplification system*


Insert the jack into the appropriate port on the rear panel of the device.

Attention: check the volume set on the audio system to avoid a sudden emission of sound at high volume.

#### *A.1.4.9 Regulation and initial settings*

The following settings are necessary:

- Filter: On.
- Res: L in case of potted or small plants; H for large plants and trees.
- Gain: turn to centre position.
- Sample Rate: turn to centre position.
- MIDI velocity: turn to centre position.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	24/38

- Event filter: a little more than the minimum
- MIDI: On (high position).
- Note: 3/1 (high position).
- Scale: Major (high position).
- If necessary, using a MIDI cable connect the MIDI OUT port on the rear panel to the MIDI IN port on the external synthesizer (see relevant section).

#### A.1.4.10 *Turning the device on*

Use the main switch (ON-OFF) on the rear panel.

#### A.1.4.11 *Auto-range*

When the device is switched on, it activates an auto-range system, which can be monitored on the led display of the front panel.




Figure 9 – View of led display – Auto-range (front panel)

- Wait a few minutes until the device-plant system finds a good balance.


**Attention:** the information shown on the auto-range display are the following:

- ✓ **Green light** on: the device starts to produce music; system balanced, functioning.
- ✓ **Yellow light** on (left or right): the device produces music but the system is in alert, as the signal has reached the limits of the set range.
- ✓ **Red light** on (left or right): the sound is stopped; the system is operative and is trying to regulate the device, reverting it to correct functioning mode.



	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	25/38

- ✓ **Red light** on (both): after failing in the first attempt at balancing the device, the system has operated a reset in order to repeat the auto-ranging protocol. If the system is unable to find the correct balance, it will be necessary to check the following:
- Are the electrodes connected? (If necessary, try to move them)
  - Is the cable correctly connected and not damaged? (Be careful of short circuits)
  - Is the jack correctly plugged in?
  - Is the Res H / L value correct?
  - The Gain has too much low value?
  - The AC-DC transformer is working and has the correct setting (12 V)?

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	26/38

#### A.1.4.12 Sensitivity adjustment

- The plant is a living being, and it can happen that sometimes the plant doesn't play at all, especially at the beginning of the "training" of the plant, it may happen often. It may help to put the plant in a favourable condition, give it enough water and light, offering music (classical or melodic), talk to the plant. In time you will notice an evolution in the quality of the music produced by the plant and will be evident his reactions to the events, the presence or absence of people, etc.

- At power on and connection occurred with the plant, you should see the red light on the left, a sign that the device perceived the closure of the circuit and is trying to detect the resistivity value of the plant to gradually lower values. If you try to remove the electrode from the leaf it will turn on the red light on the right, which means that the unit is trying increasing resistivity values. Obviously it will not find anything and will arrive at its maximum detection capability. After a number of attempts the device will turn both red lights.


Reconnecting the electrode to the leaf will turn on the red light on the left and after few moments you should start to hear the sounds and the lights may alternate in various combinations. It means that the device has caught the signal and that the plant enters into a relationship with it. There will therefore be a phase of adaptation that may take some time, which will decrease as the plant becomes more experienced.

If you do not get any sound try to increase the GAIN, turning the knob a little to the left (Fig. 2 - D). This has the effect of amplifying the input signal, making the instrument more sensitive. At one point, the device should catch the signal from the plant.

Attention! If the GAIN is set too high, you can see the lights constantly move from right to left and again back, it means that the sensitivity is too high and the instrument cannot find a balance; therefore it's necessary to reduce the GAIN turning the knob to the right.

At a certain point the green light should be more stable, a sign of balance achieved. When balance occurred (green light), you can change the sound effects of the device using the buttons on the top panel, which manage the built-in MIDI sound generator.

- It's advisable to keep the main filter (Fig. 2 - B) always ON, because it protects from electromagnetic pollution which eliminates electromagnetic interferences from the power supply or electronic devices, that can generate sounds not coming from the plant activity.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	27/38

#### A.1.4.13 Menu for MIDI synthesizer settings

On the top panel (see fig 1 – general view of the device) there are four buttons for the setting of various output parameters.

When you switch on the device you will see this on the display:

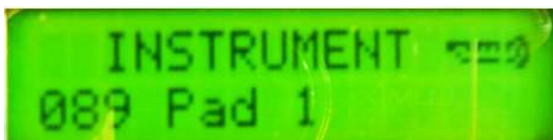


Figure 10 – General view of the top panel with display of output settings

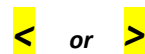
By pressing the **Menu DOWN** button the following appears:



By pressing the **Menu DOWN** button again the following appears:



**1. Instrument (Musical instrument)** – Here you can select one of the 128 available musical timbres (see Tab. 1 in the next pages) using the buttons



By pressing the **Menu DOWN** button again the following appears:



By pressing the **Menu DOWN** button again the following appears:



By pressing the **Menu DOWN** button again the following appears:



By pressing the **Menu DOWN** button again the following appears:



By pressing the **Menu DOWN** button again the following appears:



By pressing the **Menu UP** button, you can go back into all the screens.


**2. Volume** – Here you can increase the volume of the sound using the **>** button or decrease it using the **<** button.

**3. PAN** – Here you can balance the stereo sound to the right using the **>** button or to the left using the **<** button.

**4. Chorus** – Here you can increase the Chorus Midi effect using the **>** button or decrease it using the **<** button.


**5. Reverb** – Here you can increase the Reverb Midi effect using the **>** button or decrease it using the **<** button.

**6. Spatial** – Here you can increase the spatial Midi effect using the **>** button or decrease it using the **<** button.

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	29/38

A.1.4.14 *Tab. 1: Available musical timbers in the sound generator:*

1 Piano 1	27 El. Guitar 1	53 Choir Aahs	79 Whistle	105 Sitar
2 Piano 2	28 El. Guitar 2	54 Voice Oohs	80 Ocarina	106 Banjo
3 Piano 3	29 El. Guitar 3	55 Synth Voices	81 Lead 1	107 Shamisen
4 Honky-T Pian	30 Overd. Guit.	56 Orches. Hits	82 Lead 2	108 Koto
5 El.Piano 1	31 Dist. Guitar	57 Trumpet	83 Lead 3	109 Kalimba
6 El.Piano 2	32 Guitar Harm.	58 Trombone	84 Lead 4	110 Bag Pipe
7 Harpsichord	33 Ac. Bass	59 Tuba	85 Lead 5	111 Fiddle
8 Clavi	34 Finger Bass	60 Muted Trump.	86 Lead 6	112 Shanai
9 Celesta	35 Picked Bass	61 French Horn	87 Lead 7	113 Tinkle Bell
10 Glockenspiel	36 Fretl. Bass	62 Brass Sect.	88 Lead 8	114 Agogo
11 Music Box	37 Slap Bass 1	63 Synth Bass 1	89 Pad 1	115 Steel Drum
12 Vibraphone	38 Slap Bass 2	64 Synth Bass 2	90 Pad 2	116 Woodblock
13 Marimba	39 Synth Bass 1	65 Soprano Sax	91 Pad 3	117 Taiko Drum
14 Xylophone	40 Synth Bass 2	66 Alto Sax	92 Pad 4	118 Melodic Tom
15 Tubular Bel.	41 Violin	67 Tenor Sax	93 Pad 5	119 Synth Drum
16 Santur	42 Viola	68 Baritone Sax	94 Pad 6	120 Rev. Cymbal
17 Drawbar Org.	43 Cello	69 Oboe	95 Pad 7	121 GT. F. Noise
18 Percu. Organ	44 Contrebass	70 English Horn	96 Pad 8	122 Breath Noise
19 Rock Organ	45 Trem. String	71 Bassoon	97 FX 1	123 Seashore
20 Church Organ	46 Pizz. String	72 Clarinet	98 FX 2	124 Bird Tweet
21 Reed Organ	47 Orches. Harp	73 Piccolo	99 FX 3	125 Teleph Ring
22 Accordion	48 Timpani	74 Flute	100 FX4	126 Helicopter
23 Harmonica	49 Strings 1	75 Recorder	101 FX5	127 Applause
24 Tango Accor.	50 Strings 2	76 Pan Flute	102 FX 6	128 Gunshot
25 Ac. Guitar 1	51 Synth Str.	77 Blown Bottle	103 FX 7	
26 Ac. Guitar 2	52 Synth Str. 2	78 Shakuhachi	104 FX 8	


	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	30/38

#### A.1.4.15 *MIDI Synthesizer*

If you want to use an external MIDI synthesizer (not supplied in the package), please follow the general instructions below:

- Using a MIDI cable, connect the MIDI OUT port on the rear panel (Fig. 3 – N), to the MIDI IN port on the synthesizer.
- Connect the charger of the synthesizer to the power supply.
- Connect the feeding cable to the DC IN port on the rear panel of the synthesizer.
- Turn on the synthesizer.
- Select desired timber on the synthesizer.

**And now you can enjoy the Music of the Plants!**

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	31/38

### **A.1.5. Maintenance**

#### *A.1.5.1 In general*

Any maintenance work should be carried out by specialized technicians who have been appropriately trained and authorized by the manufacturer.

Before any maintenance work the device must be unplugged from the power supply.

Before opening the metallic body the device must be unplugged from the power supply.

Regular cleaning of the device prolongs its life and allows you to detect wear and tear, as well as any potential damage, more easily.

#### *A.1.5.2 Regular and extraordinary maintenance work*

<b>Intervals</b>	<b>Where</b>	<b>Description</b>	<b>Paragraph ref.</b>
Each use	AC-DC Transformer	Inspect the power cable for imperfections	
Each use	Connecting cable for the electrodes	Inspect the electrode cable for imperfections	
Each use	Metallic body	Check the screws of the metallic body	
Every year/when necessary	Metallic body	Wipe away superficial dirt	
Every year/when necessary	Metallic body	Ensure the electrodes are free from rust	
Two years/breakage	AC-DC Transformer	Electrical check / replacement	

## A.1.6. Circuit diagrams

### A.1.6.1 Layout of printed circuit – Basic board

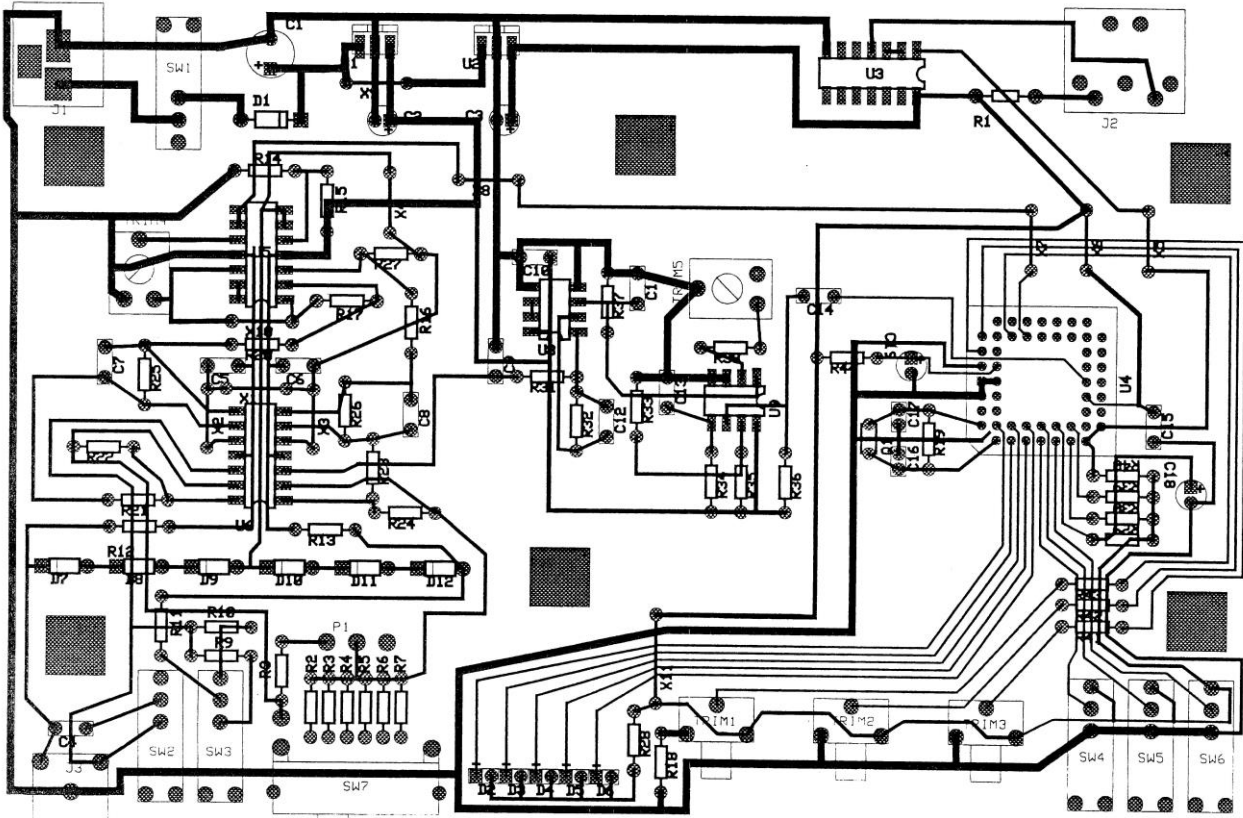


Figure 11 – Layout of printed circuit – Basic board



### A.1.6.2 Layout of printed circuit – Synthesizer board

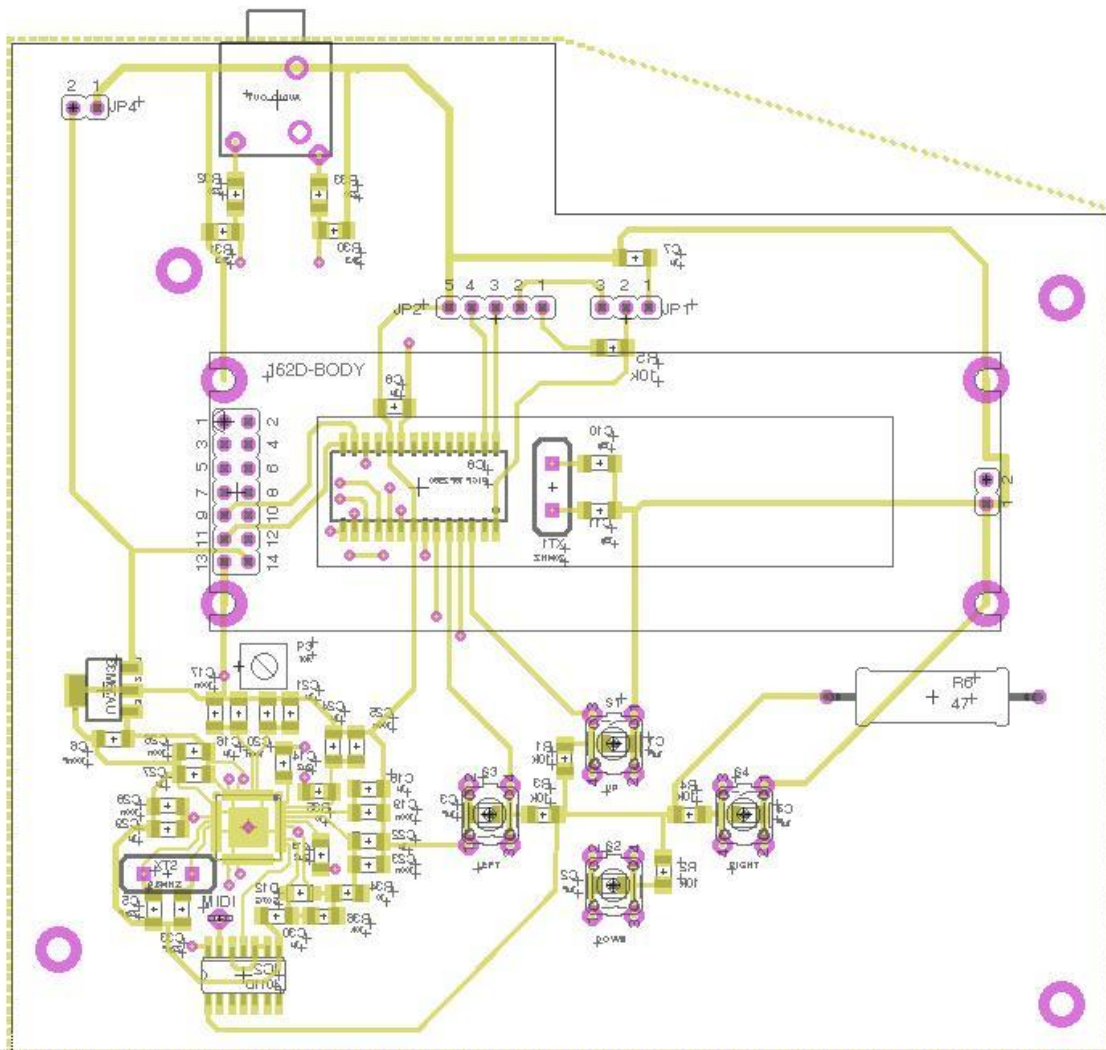



Figure 12 – Layout of printed circuit- Midi Synthesizer

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	Istruzioni originali	Data	03/02/2015
		Revisione	0.1
		Pagina	34/38

## A.2 COPY of the EU DECLARATION OF CONFORMITY

# DECLARATION OF CONFORMITY



1. Company name and address of the manufacturer:

**Devodama Srl** Operational Headquarters: via Baldissero n. 21 - 10080 Vidracco (TO) VAT Reg.Nr IT10742430019 - Tel +39 0125 789945 - e-mail: [musicoftheplants@devodama.it](mailto:musicoftheplants@devodama.it) - website: [www.musicoftheplants.com](http://www.musicoftheplants.com)

2. Name of authorized person for the technical specifications:

Domenico BIADENE c/o Devodama Srl - via Baldissero n. 21 - 10080 Vidracco (TO)  
Tel +39 0125 789945

On his own responsibility Mr Biadene declares that the device

Commercial Name: **Music of the Plants**

Model: **U1**

Serial number: *see plate on the device*

Year of manufacture: *see plate on the device*

has been manufactured in accordance with:

**Directive 2004/108/CE EMC** (electromagnetic)

**Directive 2002/95/CE RoHS I**

**Directive 2011/65/CE RoHS II**

**Directive 2002/96/CE RAEE**


**Directive 2012/19/CE RAEE II**

It complies with the following harmonized norms:

- ✓ CEI EN 50581 - EN 50581:2012 – Technical documentation for the assessment of electrical and electronic products in relation to the limitation of dangerous substances
- ✓ CEI EN 62321 – Electrical products – Level determination of six substances subject to control (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)

Place, Date: Vidracco, 28/03/2014

Signature

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
	<i>Istruzioni originali</i>	Data	03/02/2015
		Revisione	0.1
		Pagina	35/38

### A.3 Technical details

Overall specifications	
Max overall dimensions (LxBxH)	220x150x42 mm
Basic weight	0,9 kg
Body material	Powder coated steel


Electrical details	
Voltage	DC 12V
Consumption	6 VA

*The device may not be disposed of with household rubbish. This appliance is labelled in accordance with European Directive 2002/96/EG concerning used electrical and electronic appliances (waste electrical and electronic equipment - WEEE).*

*The guideline determines the framework for the return and recycling of used appliances as applicable throughout the EU. To return your used device, please use the return and collection systems available to you.*




Identification Code RAEE: D211

	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	Istruzioni originali	Revisione	0.1
		Pagina	36/38

#### **A.4 LIST OF FIGURES**

<i>Figure 1 – View of full kit and packaging</i> .....	15
<i>Figure 2 – General view of the device</i> .....	17
<i>Figure 3 – View of the front panel</i> .....	18
<i>Figure 4 – View of the rear panel</i> .....	19
<i>Figure 5 – View of assembled device</i> .....	20
<i>Figure 6 – View of the AC-DC transformer and its connection to the device</i> .....	21
<i>Figure 7 – View of the cable with electrodes</i> .....	22
<i>Figura 8 – View of colored electrode clipped on plant</i> .....	23
<i>Figure 9 – View of led display – Autorange (front panel)</i> .....	24
<i>Figure 10 – General view of the top panel with display of output settings</i> .....	27
<i>Figure 11 – Layout of printed circuit – Basic circuit</i> .....	32
<i>Figure 12 – Layout of printed circuit- Midi Synthesizer</i> .....	33



	Manuale di istruzioni d'uso e manutenzione	Doc. Numero	
		Data	03/02/2015
	<i>Istruzioni originali</i>	Revisione	0.1
		Pagina	38/38



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