

## Frequently asked Questions

**Q: Do the various colors have any meaning? (E.g. Red for bad mood or green for good mood?)**

**A:** No. The colors are linked to the measured voltage signal of the plant. If the voltage signal is rising the color fades from red to green to blue to red. If it's dropping the color fades from red to blue to green to red. Just imagine the arm of a watch moving back and forth over a colorful rainbow dial.

**Q: Should we remove the conductive paste periodically so that the plant is not harmed?**

**A:** Yes. The conductive paste might leave a brown spot on the plants leaf if it's left there for a long time. Depending on how sensitive the plant reacts to the paste, it's probably a good idea to change the paste every few days. Clean the leaf carefully with a wet cloth or paper-towel after the electrode has been removed. If the paste turns brown remove it from the electrode and replace it with new paste as required.

**Q: Does the FLORANIUM lamp work on any kind of green plant?**

**A:** Yes. However some types of aquatic plants might not work (E.g. water will adversely affect the measured voltage signal).

**Q: Is the FLORANIUM lamp connected to a timer to change its light color automatically?**

**A:** No. Every change of color is caused by physiological influences to the plant.

**Q: Are the color changes caused only by the plant itself?**

**A:** A FLORANIUM lamp is an extremely sensitive bio-sensor. Both electrostatic charges and changes in climate will also alter its color.

**Q: How do I know, if the color changes are caused by the plant or by electro-smog?**

**A:** If the plant and the FLORANIUM lamp are placed in an area where there is no movement or change in temperature, the color changes will be caused by physiological changes of the plant. After watching the FLORANIUM lamp for a while, you will start to develop a good sense of which color changes are due to plant signals and which are due to environmental influences.

**Q: Do different plant species react differently?**

**A:** Yes. Some plants are more active than others. For example, a *Mimosa Pudica* is so active you can see an instantaneous change in light when you touch its leaves.

**Q: Where can I get more conductive paste?**

**A:** Conductive paste can be purchased separately online. Please visit our website at [www.floranium.com](http://www.floranium.com) for more information.



## User Guide

**FLORANIUM - What is it and how does it work?**

A FLORANIUM lamp is a very sensitive digital bio-signal meter for green plants. It's comprised of an electrode, signal amplifier, impedance meter, several noise filters, low frequency band pass filter, micro-controller, three super bright LED's and a power supply. When properly connected to a green plant it will pick up very slight changes in impedance and voltage between the plants leaf and root system and will visualize those changes by displaying various colors of light.

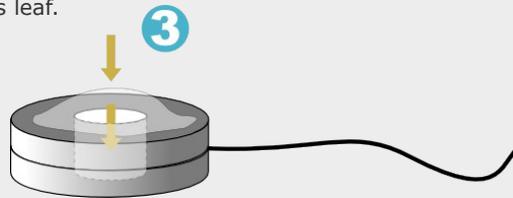
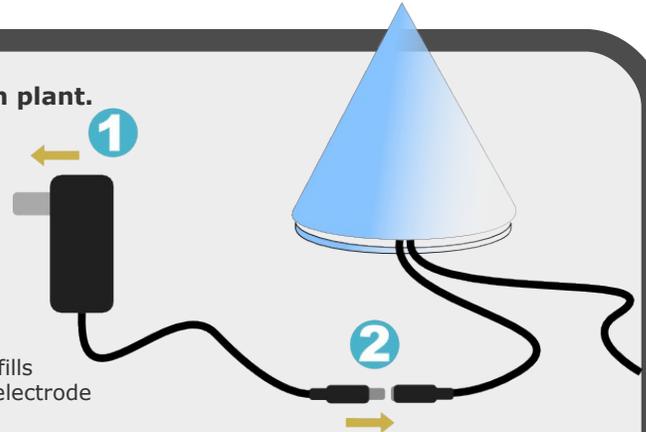




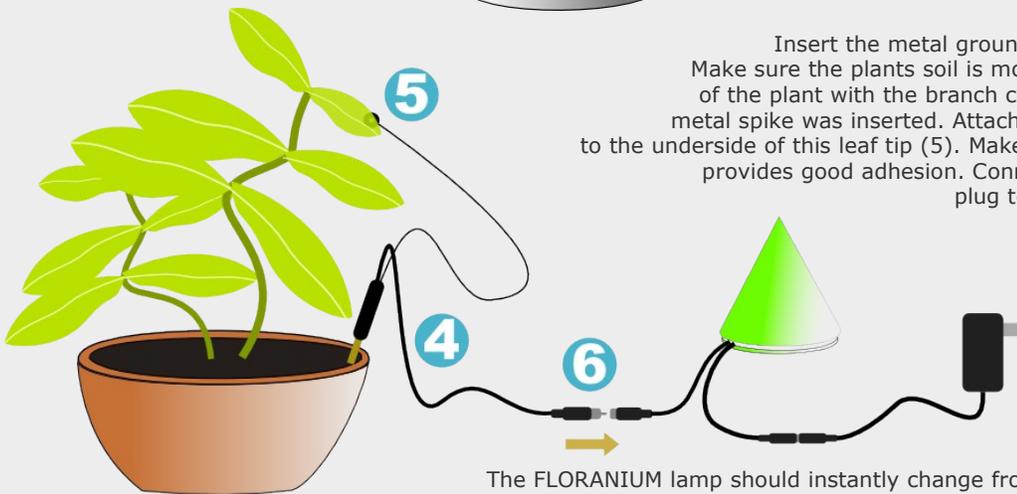
### How to properly connect the FLORANIUM to a green plant.

Plug in the wall mount power supply (1) and connect the black plug to the FLORANIUM lamp (2). The FLORANIUM lamp will slowly pulse a blue light which means it's in "stand-by" mode waiting for a green plant to be connected.

Fill the small cavity of the round green electrode that's attached to the thin wire with conductive paste (3). Make sure the paste fills the entire cavity. Place additional paste onto the surface of the electrode so that it can be connected to the plants leaf.



Insert the metal grounding spike into the soil (4). Make sure the plants soil is moist. Locate the longest leaf of the plant with the branch closest to the soil where the metal spike was inserted. Attach the round green electrode to the underside of this leaf tip (5). Make sure the conductive paste provides good adhesion. Connect the white sensor cable plug to the FLORANIUM lamp (6).



The FLORANIUM lamp should instantly change from a slow pulsing blue light to a faster pulsing green light. After approximately 2 ... 10 minutes the pulsing light will stop and a constant color will be emitted. The calibration process is complete. As the plant undergoes physiological changes the color of the FLORANIUM lamp will now alter.

### NOTE:

**Like many other types of sensitive measuring equipment the FLORANIUM lamp will react to different influences such as electro-smog, noise, static electricity and temperature change. To get the most accurate reading place the FLORANIUM lamp and plant in a spot where these influences can be minimized (E.g. away from an open window or door). Make sure you avoid any kind of electrostatic discharge.**