



**BAIOSPHERE**  
**MANUAL**  
**» ENGLISH**

HEY!

# MAY WE INTRODUCE - *your Baiosphere.*

**Congratulations!**

Now you are the proud owner of a living light, of an unique biotope, which almost completely cares for itself.

With this living light you can place the wild Amazon, a mysterious marshland or the silent desert oasis directly in your home.

On the following pages, we have summarized a few helpful hints and some technical information that you may read before you get started.



# THAT'S WHY YOUR BAIOSPHERE *works so well* :



## The perfect Lighting

The light of our full-spectrum LEDs acts as a small, artificial sun above your biotope. These LEDs come closest to natural sunlight.



## Always enough Water

Moisture stays in the Baiosphere for a very long time, because the evaporated water runs back via the pane. That's why you only have to water it so rarely.

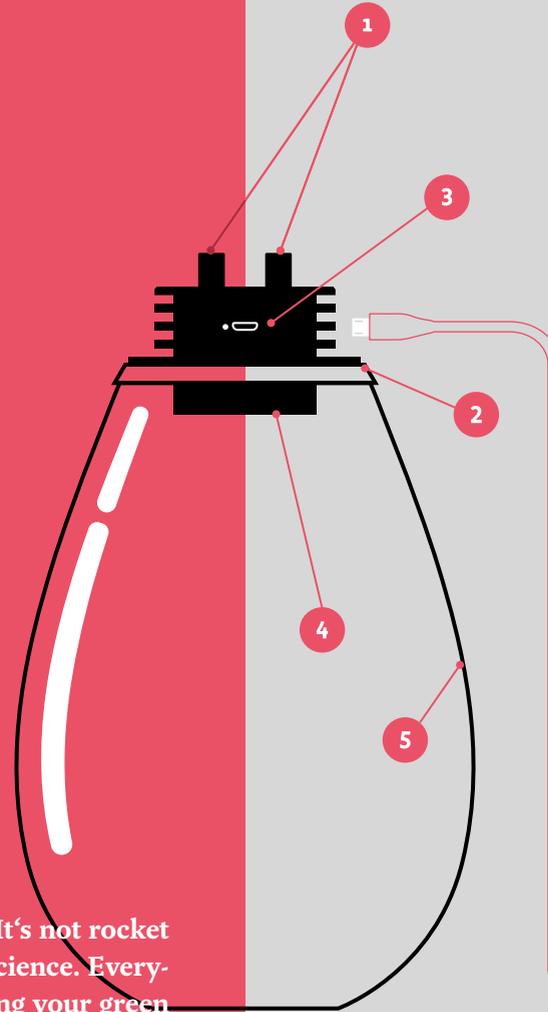


## An optimal Microclimate

There is always a balanced microclimate in the Baiosphere, perfect for exotic plants.

Via the light controllers and the aeration slots you can adjust the humidity and temperature according to the needs of your biotope.

It's not rocket science. Everything your green flatmates need is always available.



### >1 Two Controllers, your Light

Adjust the lighting to suit your personal feel-good atmosphere. No matter if warm and dimmed as a fall-asleep-light or as a bright sunrise to wake up.

**Light Intensity**  
Adjust the brightness - always fitting to your mood.

**Light Temperature**  
Find your temperature - cozy evenings guaranteed.

### >2 The Aeration

The size of the aeration slots can be adjusted by rotating. Thus you can control the perfect humidity inside.

### >3 Easy Plug `n Play

Just connect your Baiosphere anywhere. Micro-USB to USB (cable length 2m).

### >4 5 Watts Power

Not only saves stress, but also energy.

### >5 The Glass

Made with love and accuracy. The glass container of the Baiosphere consists of individually handmade and hand blown glass. Due to this traditional way of crafting, each glass is sort of an individual item. Therefore it is normal that you may find tiny imperfections like air bubbles in the glass.



# CREATE YOUR OWN BAIOSPHERE IN *three* *simple steps.*

## ONE

*First things first -  
things you need.*

- > **Enough Soil**  
*Choose the substrate suitable for the biotope you want to design.*
- > **Expanded Clay Balls as Drainage**  
*Expanded clay serves as a great drainage as it absorbs the moisture and releases it slowly again. That's why there's always a perfect soil climate in your Baiosphere without waterlogging.*

- > **Plants of Your Choice**  
*Furthermore you may choose your plants according to the biotope you want to design.*
- > **Scaping Tools**  
*You can try your best with a long spoon and barbecue tongs. Ideally you use our special Baiosphere Scaping Tools to reach even the remotest corners of your biotope.*

- > **Spray Bottle with Water**  
*Use soft (rain-) water to keep the glass of your Baiosphere clear.*

## TWO

*Choose the Biotope you'd like to design.*

In the end, the Baiosphere is similar to a shared flat just with plants. That's why it's important to choose them just equally, as they probably can occur together in nature, so that every plant has got similar needs.

*Many plant varieties, special substrate mixtures, fertilizer and also various hardscape for the design of your Baiosphere can be found in our online shop!*

### Desert Oasis

A biotope where you can discover the true idyll and the incredible variety of succulents.

#### > Plants

Desert and rock garden plants such as the mistletoe cactus, thick-leaved plants or many different haworthia variations offer almost unlimited possibilities of design.\*

#### > Soil

Use only loose, high quality succulent soil and not pure sand. This would condense the substrate too much and lead to rot.

#### > Hardscape

Stones in different sizes, like our Fata Morgana Rocks, can be wonderfully combined into miniature mountain ranges and give the desert an unique touch.

### Rainforest

Probably, the most common way of planting a Baiosphere is to create a thicket of different tropical plants.

#### > Plants

Plants like tillandsias, mini orchids or different sorts of moss are suited best.\*

#### > Soil

Good rain forest soil is loose and keeps the moisture. In this way it supports a strong root growth.

#### > Hardscape

Especially our Amazonas Rocks or our driftwood emphasizes the tropical character of your rainforest.

### Marshland

The fascination of carnivorous plants on the windowsill can usually only be enjoyed only for a very short time - not with the Baiosphere!

#### > Plants

Plants like sundew, the venus flytrap or peat moss grow and thrive by the unique microclimate.\*

#### > Soil

Especially important is the use of special acidic carnivorous soil, otherwise the plants will do a bunk.

#### > Hardscape

Cleverly arranged, branched wood, like our Muddy-Moorwood, intensifies the unique atmosphere of an apparently untouched moor landscape.

*\* You can find more species in our plant directory on page 20-21.*

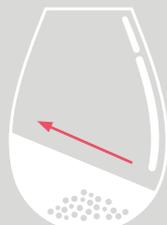
# THREE

*Now we come to the most important part - The design of your Baiosphere.*

>1

### The Drainage

First, fill the Baiosphere 2-3 cm with the expanded clay balls. This layer is particularly important to prevent waterlogging. Besides you can check the water level through it.



>2

### Fill in Soil

Next, fill the respective soil mixture into the Baiosphere so that a slope is formed. This way, the design can be viewed a lot better later.



>3

### Insert Plants and Hardscape

Dig small holes where the plants should grow and plant them carefully. Then cover the root ball with soil. You should rather place larger plants in the background and smaller plants in the foreground of your creation.

Depending on what's easiest for you, put your hardscape into the Baiosphere either before or after planting.



>4

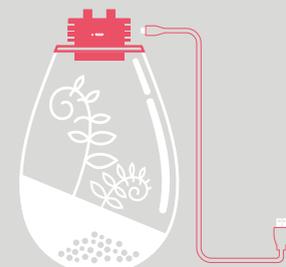
### Water and Clean

Certainly, the glass has become very dirty after planting. Adjust your spray bottle to the hard jet and rinse off the dirt, then leave the Baiosphere open for a few hours. Be thrifty with the water at the desert oasis.

>5

### Almost there

Now, just put the silicone ring and the lamp on top of the glass. Plug the lamp into the power socket and your customized Baiosphere is ready!



*Wow... And once again a new biotope sees the light of the Baiosphere. We always become quite sentimental.*

Send us photos of your creation to:  
[mycreation@baiosphere.de](mailto:mycreation@baiosphere.de)  
or tag us on Instagram with [@baiosphere](https://www.instagram.com/baiosphere).

# HERE ARE A FEW SELECTED DESIGN *Inspirations* FOR YOU.

More Baiosphere Landscapes and a lot of scaping tutorials can be found on our website on: [baiosphere.de](https://baiosphere.de)





**DESERT OASIS**  
designed by Franziska Lerch  
©baiosphere



**RAINFOREST**  
designed by Benedikt  
Vimalavong ©baiosphere

# YOU DON'T NEED TO HAVE A GREEN THUMB TO CARE FOR YOUR BIOTOPE.

*We promise!*

## ONE *Water and Fertilize*

> **Less water is usually more!**

*As you may have realized, no water can leave from the Baiosphere compared to normal flower pots. The right amount of moisture can best be checked through the drainage layer.*

> **Please use only soft water.**

*Ideally you use rain-water. Otherwise, due to the high chalk content of tap water, the glass would quickly turn cloudy. Especially plants from the marshland biotope do not tolerate hard water.*

> **Our watering recommendations are only rough guidelines.**

*Finally, every biotope is individual. After a few months, you'll learn how often you have to water your Baiosphere.*

### Desert Oasis

Here you should never see any water in the drainage and the soil should never be wet.

Water the succulents only selective with a few splashes about every four to six weeks.

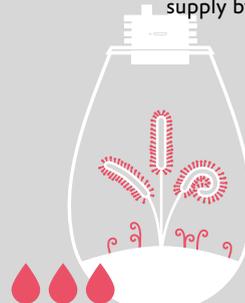
Only use specific cactus fertilizer about every two months.



### Marshland

Check the drainage layer every two weeks. A thin film of water inside the drainage is perfect.

The Marshland biotope needs no further nutrient supply by fertilizing.



### Rainforest



Water about once every month. Stop watering if you can see that the water is slowly damming in the drainage.

Fertilize this biotope about every two months with a weakened mineral fertilizer.

## TWO *Create Day and Night.*

The light should shine onto your plants for at least 12 hours a day. Best way to automate this day-night cycle is to use a timer.

*Please do not expose your Baiosphere to direct sunlight neither place it close to a heater, otherwise it's going to get too warm inside.*



27 Beiträge 456 Abonnenten 861 abonniert

Baiosphere  
Your individual, living interior light | Made by @stasu\_koi | Shipping to Europe  
Abonniert von [BaioSphäre](#), [A.S.D./Z.](#), [natuR&S](#) und 12 weiteren



Plants

BEITRÄGE HDV MARKIERT



SUISEKI LANDSCAPE  
designed by Johannes  
Vimalavong @baiosphere



# THAT'S ALL YOU NEED TO KNOW. AND NOW, HAVE FUN WITH *your Baiosphere!*

If you still have problems with your Baiosphere, the following questions and answers may help you.

If not, then we can personally assist you! Just send us an email to: [help@baiosphere.de](mailto:help@baiosphere.de)

Stationary retailer near you can be found on our website at: [baiosphere.de/storelocator](https://baiosphere.de/storelocator)

## >1 The pane of your Baiosphere is fogging?

The fogging of the pane occurs especially in a cold environment and after watering, which is completely normal.

Open the vent slots or leave the Baiosphere open for a few hours to lower the humidity.

## >2 The biotope smells weird and the plants wither?

In this case, you definitely watered too much. Waterlogging leads to root rot and harms your inhabitants.

Try to drain excess water slowly by gently tilting the Baiosphere. Then do not give water for a long time. Most plants recover from it.

## >3 Mold is forming in the Baiosphere?

That dead plant parts or inserted wood begins to mold is quite normal, especially in the beginning. The microclimate, which degrades the mold, has not yet developed.

Remove affected parts of the plants so that the mold does not spread further. Ventilate the Baiosphere and open the slots. A brush works best to get rid of coatings on hardscape.

## >4 Plants form long weak stems?

The affected plants obviously do not get enough light. This happens either because of too dimmed light or by insufficient illumination time. Also a shady place under a larger plant or large hardscape could be the reason.

Make sure the light stays on for at least 12 hours a day and turn up the intensity if needed. If the plant's location is too shady, better put it in a brighter place or trim its competitor.

## >5 The LEDs or the light controllers are not working anymore?

Since the LEDs are wearing parts, they also may go to heaven of electrical appliances someday. They have a lifetime of at least 25,000 hours. You have a 2-year limited warranty from the date of purchase.

If this problem occurs within the warranty period, you have the right to a free repair. Otherwise, we can bring your LEDs back to light for a fair price. Just contact us via email: [help@baiosphere.de](mailto:help@baiosphere.de) For more Warranty details, please visit: [baiosphere.de/warranty](https://baiosphere.de/warranty)

# THESE PLANTS ARE PARTICULARLY SUITABLE FOR THE DESIGN OF *your Biotope.*

It exists an almost infinite variety of plants on this planet. Over time, it turned out that specific species grow remarkably well in the Baiosphere. We've created a list of our favorite plants for you, by which you can ideally plant your biotope.

A choice of plants for the design of the Baiosphere can be found in our online shop.



## Succulents

- > **Zebra Cactus**  
(*Haworthia fasciata*)
- > **Echeveria**  
(*Echeveria peacockii*,  
*Echeveria agavoides*)
- > **String-of-Pearls Plant**  
(*Senecio rowleyanus*)
- > **Rosary Vine**  
(*Ceropegia woodii*)
- > **Jade Necklace Vine**  
(*Crassula hottentot*)
- > **Mistletoe Cactus**  
(*Rhipsalis cassutha*)
- > **Princess Pine**  
(*Crassula lycopodioides*)
- > **Elephant Bush**  
(*Portulacaria afra*)
- > **Happy Bean**  
(*Peperomia ferreyrae*)
- > **Hardy Iceplant**  
(*Delosperma cooperi*)

## RAINFOREST

### Ferns

- > **Squirrel's Foot Fern**  
(*Davallia mariesii*)
- > **Maidenhair Fern**  
(*Adiantum pubescens*)
- > **Microgramma vacciniifolium**
- > **Green Penny Fern**  
(*Lemmaphyllum microphyllum*)

### Bromeliads

- > **Earth Bromeliads**  
(*Cryptanthus bivittatus*,  
*Cryptanthus acaulis*)
- > **Nidularium**  
(*Nidularium innocentii*)
- > **Dwarf Bromeliads**  
(*Neoregelia narziss*,  
*Neoregelia lilliputiana*)

### Tillandsia

### Foliage Plants

- > **Radiator Plant**  
(*peperomia caperata*  
*peperomia polybotrya*)
- > **Oakleaf Ficus**  
(*Ficus scandens*)
- > **Weeping Fig**  
(*Ficus benjamini*)
- > **Nerve Plant**  
(*Fittonia albivenis*)



## MARSHLAND

### Moss

- > **Peat Moss**
- > **Liverworts**
- > **Java Moss**

### Carnivorous Plants

- > **Cape Sundew**  
(*Drosera capensis*)
- > **Alice Sundew**  
(*Drosera aliciae*)
- > **Dwarf Sundew**  
(*Drosera nitidula*,  
*Drosera dichrosepala*)

### Venus Flytrap

- (*Dionaea muscipula*)
- > **Albany Pitcher Plant**  
(*Cephalotus follicularis*)
- > **Tropical Pitcher Plant**  
(*Nepenthes*)
- > **Bladderworts**  
(*Utricularia sandersonii*,  
*Utricularia livida*)
- > **Common Butterwort**  
(*Pinguicula vulgaris*)





[www.baiosphere.de](http://www.baiosphere.de)

**BAIOSPHERE** powered by **TATSU - KOI UND BONSAI**  
Pfarrer-Vogt-Straße 10, 37359 Küllstedt GERMANY  
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BAIOSPHERE Model: ML-01  
Designed by TATSU in Germany Assembled in China