

# **e-BLEACH manual**

## Table of Contents

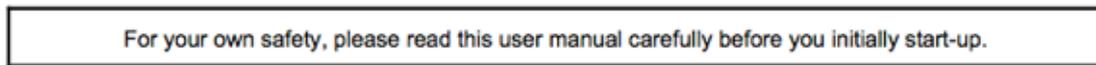
<b>Introduction .....</b>	<b>3</b>
<b>General description and warnings .....</b>	<b>3</b>
Introduction.....	3
e-BLEACH - infinity .....	3
e-BLEACH - 10x4.....	4
<b>Safety instructions .....</b>	<b>5</b>
Operation Determinations.....	5
Exclusion of liability: .....	6
<b>Online resources .....</b>	<b>6</b>
<b>Mounting the device .....</b>	<b>7</b>
<b>Remove Chip from existing guide .....</b>	<b>7</b>
The original Guide .....	7
Push in the hooks to loosening the chip cover.....	8
Remove the chip cove .....	8
Prepared guide.....	9
<b>Fix the e-BLEACH device by using the cover clip .....</b>	<b>10</b>
Cut the clip.....	10
Prepare the clip .....	11
Insert e-BLEACH connector .....	12
Insert the clip .....	12
Prepared Guide .....	13
<b>Fix the e-BLEACH device by using glue (only if no cover clip present) .....</b>	<b>14</b>
<b>Attach e-BLEACH to the Lamp .....</b>	<b>15</b>
Attach Velcro to the Device .....	15
Attach Velcro to the Lamp .....	16
Attach device to the lamp .....	16
Attached device.....	17
<b>Using the device .....</b>	<b>18</b>
<b>Remove Battery Protection .....</b>	<b>18</b>
<b>Reset Device (find out how many cycles are left on a 'e-BLEACH - 10x4') .....</b>	<b>19</b>
<b>Renew Device to the next cycle.....</b>	<b>20</b>
e-BLEACH - infinity .....	20
e-BLEACH - 10x4.....	20
Switch off the lamp or remove the guide from the lamp.....	20
1. Press renew button and hold it pressed.....	20
2. Press the reset button shortly while keeping the renew button pressed.....	21
Finalize the renewal .....	21
<b>Replace Battery.....</b>	<b>22</b>
Safety warning.....	22
Open battery tray.....	22
Insert CR2025 battery.....	23
Battery disposal .....	23
<b>Troubleshooting.....</b>	<b>24</b>
<b>Display shows "Replace Guide" .....</b>	<b>24</b>
<b>Display shows "Improper Guide" .....</b>	<b>24</b>

## Introduction

### General description and warnings

In this chapter you can find general information about the e-BLEACH devices.

### Introduction



Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual to be part of the total product
- pass this manual on every further owner or user of the product
- download the latest version of the user manual from the Internet

### e-BLEACH - infinity



The 'e-BLEACH - infinity' is a replacement chip for the Guide of the "ZOOM! Advanced Power" bleaching device. It is designed to enable the lamp for test purposes. It is made in a way where you can always reset the state of the chip to its four times 15 minutes of usage. Like this it is possible to always use the Lamp without the need to always exchange the Guides after using them for 60 minutes.

## e-BLEACH - 10x4



The 'e-BLEACH - 10x4' is the little brother of the 'e-BLEACH - infinity' for occasional users of the UV lamp. It is a lot cheaper but in the same way limited to nine renew cycles. Like this it is possible to enable the Lamp for ten hours. IT is also designed for people who want to test the performance of the chip.

## Safety instructions

The device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



### Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

Keep away from heaters and other heating sources!

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Please note that damages caused by manual modifications on the device or unauthorized operation by unqualified persons are not subject to warranty,

Keep away children and amateurs from the device and batteries!

## Operation Determinations

Batteries are hazardous waste which need to be disposed of appropriately. If the device is to be disposed, the batteries have to be removed first.

Make sure that the poles are correct when inserting the batteries. Never let batteries lying around openly as there is the danger that these can be swallowed by children or domestic animals.

Immediately consult a doctor when batteries are swallowed!

Leaking or damaged batteries can cause irritations when getting into contact with the skin. In this case use appropriate protective gloves.

Make sure that the batteries cannot be short-circuited, thrown into the fire and be charged. There is a danger of explosion.

Never put any liquids on the device or close to it. Should any liquid enter the device nevertheless, disconnect from mains immediately and remove the batteries. Please let the device be checked by a qualified service technician before you operate it again. Any damages caused by liquids having entered the device are not subject to warranty!

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

Do not operate the device in extremely hot (more than 35° C) or extremely cold (less than 5° C) surroundings. Keep away from direct insulation (particularly in cars) and heaters.

Operate the device only after having familiarized with its functions.

Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

If the device will not be used for a longer period of time, remove the batteries in order to avoid battery leakage.

Never use solvents or aggressive detergents in order to clean the device! Rather use a soft and damp cloth.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short- circuit, burns, electric shock, etc.

**Exclusion of liability:**

We are not liable for any property damage or damage to persons. This device is designed only for test purposes or demonstration.

**Online resources**

On the website <http://www.e-bleach.com> you will find always the newest version of this manual in the PDF format and additional video tutorials.

Check out the website and feel free to contact us via e-Mail to [to@e-bleach.com](mailto:to@e-bleach.com) for any reason.

## Mounting the device

### Remove Chip from existing guide

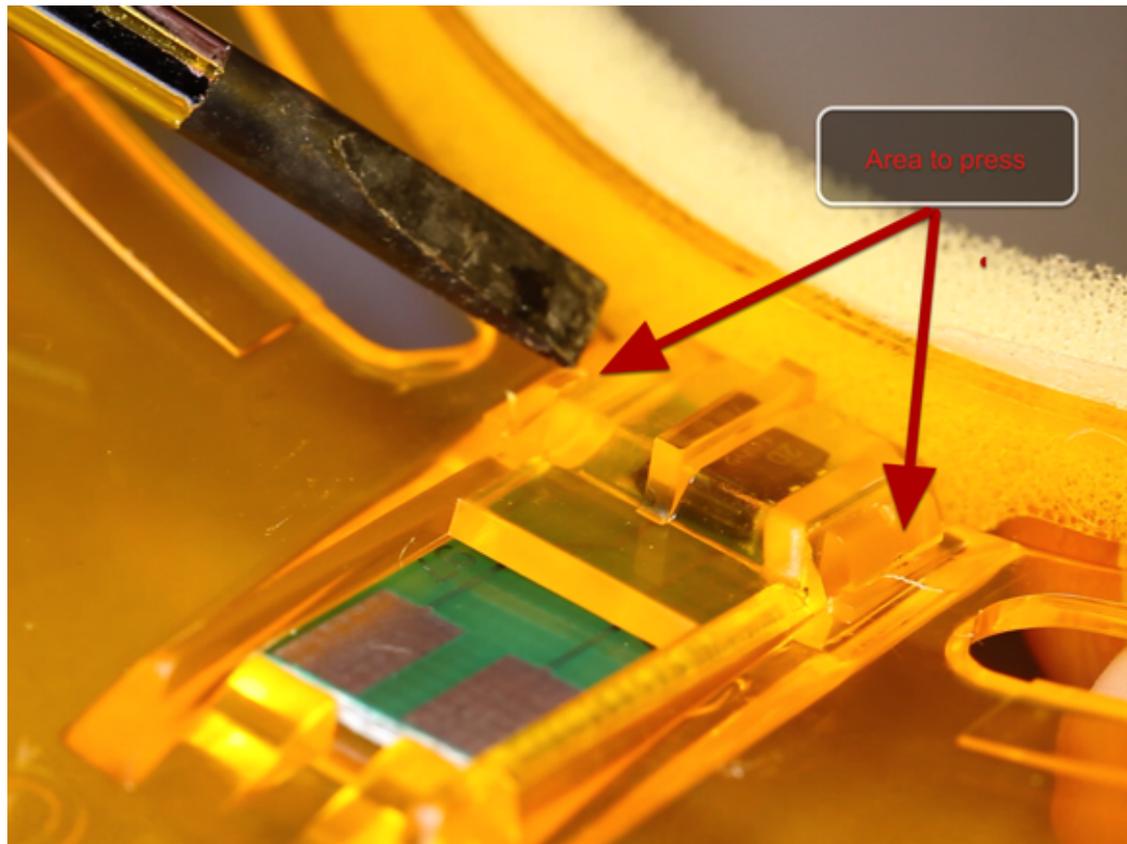
In this section it is explained how you prepare your Guide to work with an e-BLEACH chip

### The original Guide



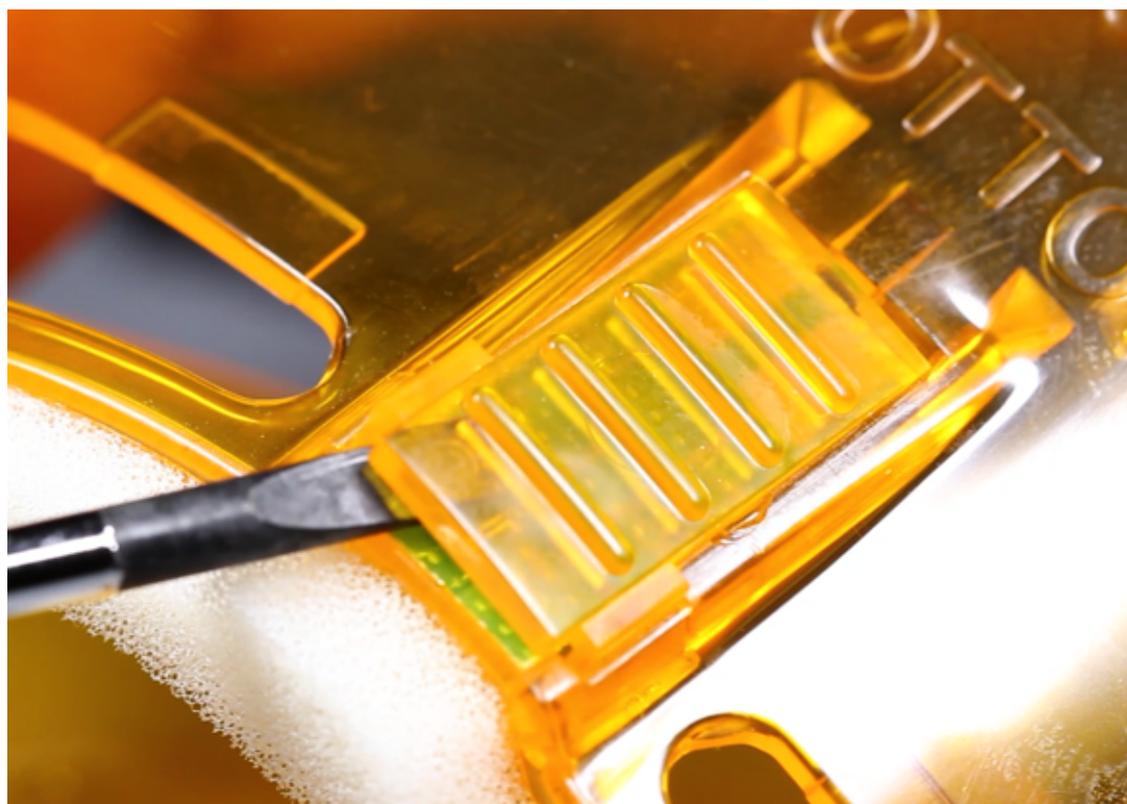
Your original Guide contains a microchip on a circuit board which has to be replaced with the e-BLEACH connectorboard.

## Push in the hooks to loosening the chip cover



The circuitboard is held into the guide by a little cover which is clipped into the guide. This cover can be removed by firmly pressing against the hook which is marked in the picture (there are two hooks - one on each side of the chip)

## Remove the chip cover



Turn around the Guide to finally remove the cover by sliding a screwdriver in the gap and lift the cover.

### **Prepared guide**



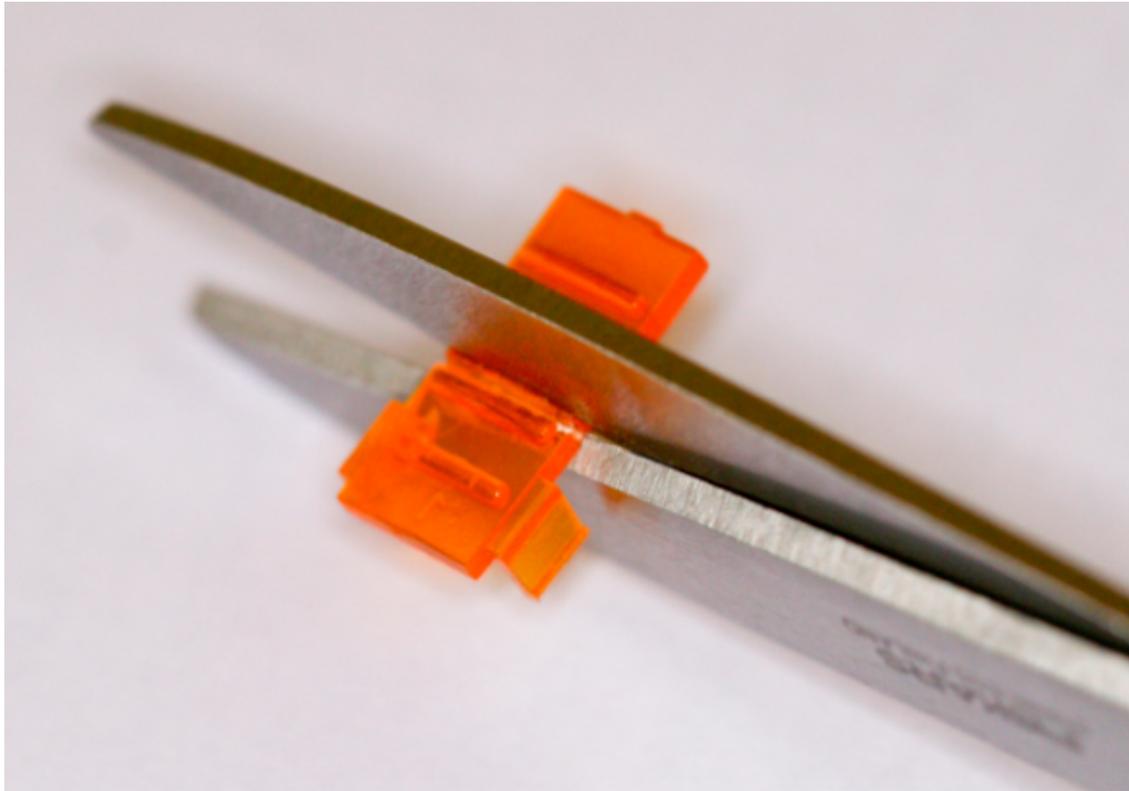
Now you have your guide ready to insert the e-Bleach connector board.

### **Fix the e-BLEACH device by using the cover clip**

There are several ways to finally fix your e-BLEACH device in the plastic of an existing Guide.

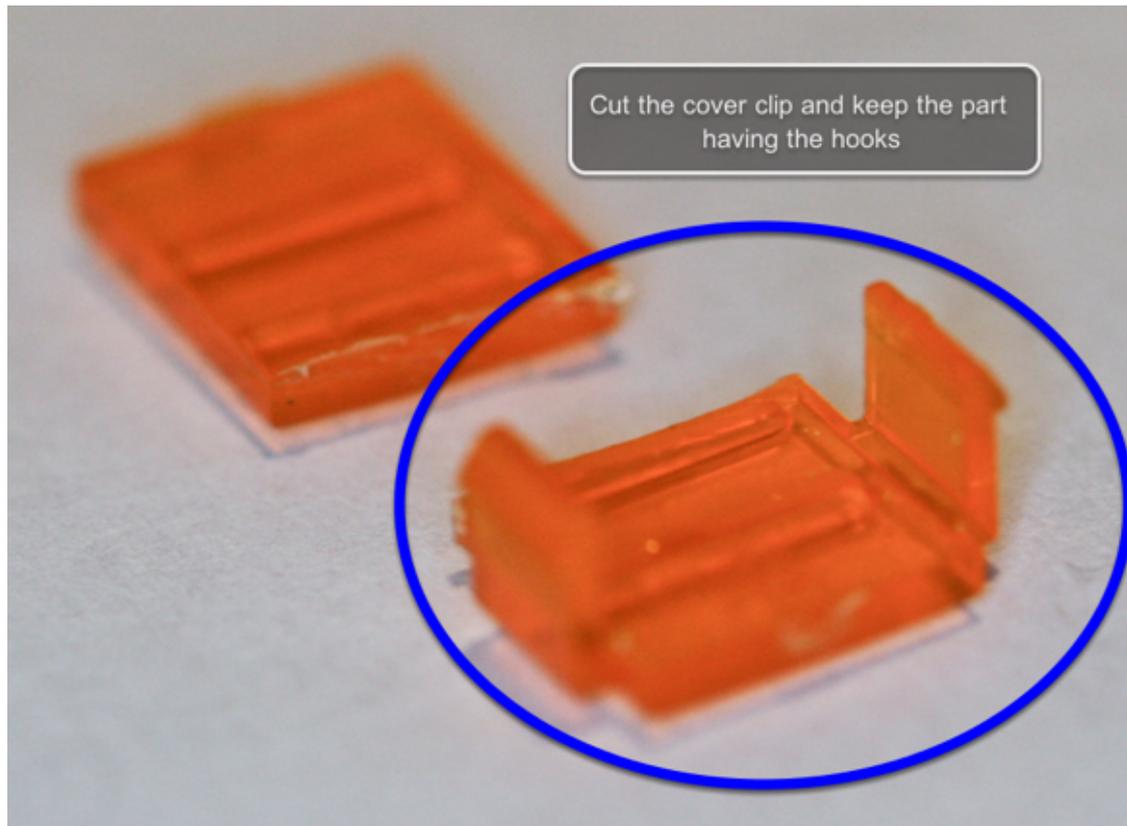
The best way to do this is by using the removed cover clip like explained in this section.

### **Cut the clip**



Use Scissors or a side cutter to cut the clip you removed before into two pieces.

## Prepare the clip



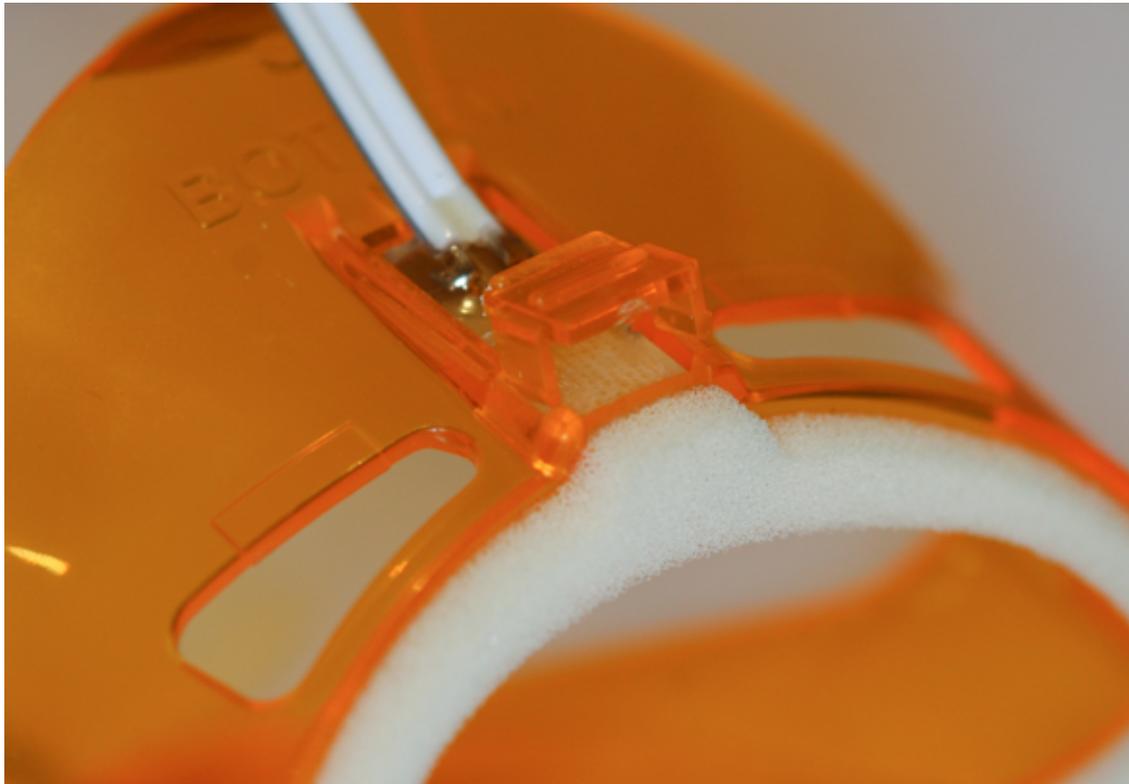
Take the plastic cover you removed before from the guide and cut it with a tool like a (saw; side cutter; cutting wheel; scissors; etc) in two pieces like illustrated in the image. The important piece is the part having the hooks.

### Insert e-BLEACH connector



Insert the connector board of the e-BLEACH device like displayed in the picture.

### Insert the clip



Clip in the left over piece of the plastic cover clip. It should go all the way in and hold the connector board firmly inside the Guide.

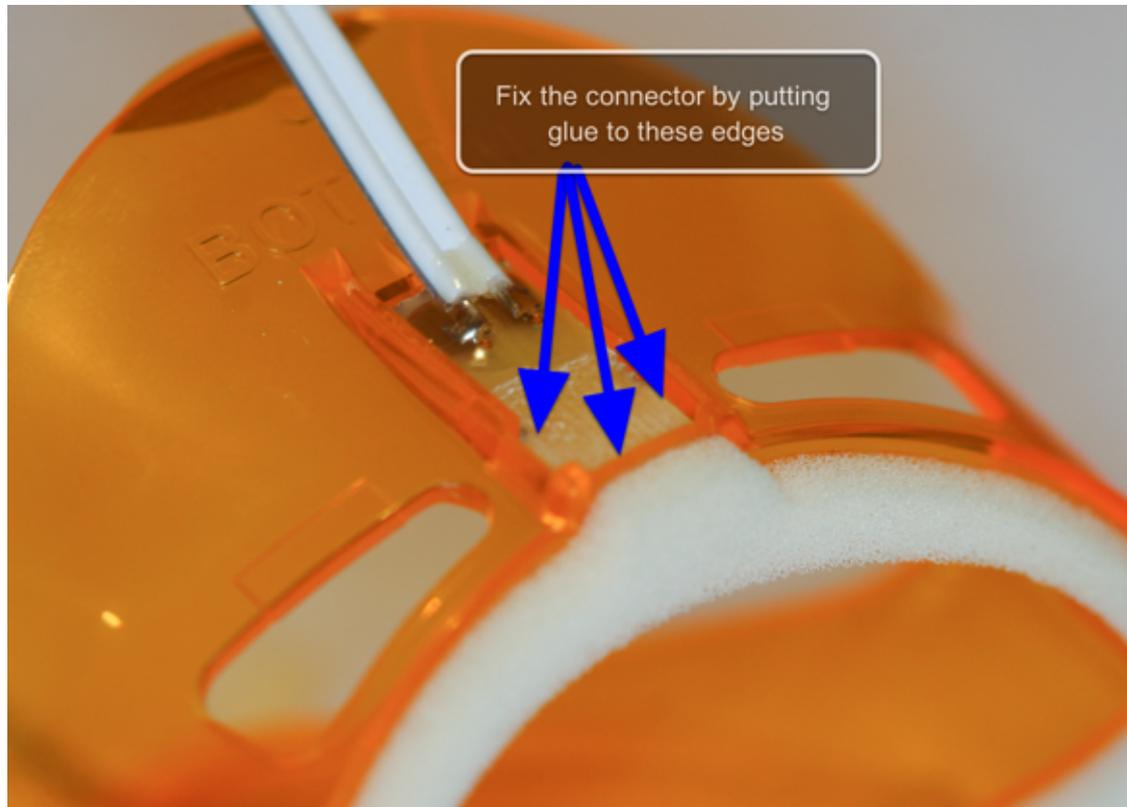
## Prepared Guide



Now the device should look like in the above picture and be ready to be connected to the Lamp.

### Fix the e-BLEACH device by using glue (only if no cover clip present)

If you lost your cover clip or it was broken during the preparation process you can also fix the connector board of the e-BLEACH device using any kind of glue.



Just insert the connector board inside the guide and fix it by putting glue to the marked locations and let it dry. The connector board needs to hold firmly inside the plastic to assure the faultless use of the e-BLEACH chip.

## Attach e-BLEACH to the Lamp



## Attach Velcro to the Device



Attach one part of the Velcro pad included in the package to the device.

## Attach Velcro to the Lamp



The matching Velcro pad needs to be fixed on the downside of the Lamp. You can position it using the e-BLEACH device to match the cable length.

## Attach device to the lamp



From now on you can attach and detach the e-BLEACH device easily to the Lamp.

## Attached device



The picture shows the Lamp with the properly mounted e-BLEACH chip.

## Using the device

### Remove Battery Protection

Before using the e-BLEACH device the battery safer foil has to be removed.



For storage and unwanted battery discharging the battery is protected by foil which has to be removed before the chip can be used. Just pull out the foil and press the RESET button on the device. If you want to preserve your battery at times, where you don't use the Lamp you can put the foil back in by removing the Battery and slide it in covered from the foil. This step (reprotecting the battery) should not be necessary.

## Reset Device (find out how many cycles are left on a 'e-BLEACH - 10x4')

To see how many sessions are left on a 'e-BLAECH - 10x4' just press the reset button short and see the red LED.



After pressing the reset button the LED will first doubleflash. Then it will flash as many times as you can renew the device. Like this you can count the flashes and check how many cycles are left on the device. On a new device this will be nine times.

When the device was renewed nine times you will only see the doubleflash and the renewal will not be possible anymore.

### **Renew Device to the next cycle**

Reading "REPLACE GUIDE" in the display after using it for four sessions requires a renew procedure which is described in this manual chapter.

#### **e-BLEACH - infinity**

Having the 'e-BLEACH - infinity' you can renew your device as often as you like. Even if you only used the device for one session you can always renew it to the full four sessions.

#### **e-BLEACH - 10x4**

Please be aware that the renewal process will decrement the amount of cycles you have left on your device. For security reasons you cannot lose a cycle if you do the renewal process twice. But as soon as you used the chip for at least one minute with every renewal process you will lose the time and sessions still available of your current cycle.

### **Switch off the lamp or remove the guide from the lamp**

If you want to be safe please switch off the lamp or detach the guide from the head of the lamp during the renewal process.

#### **1. Press renew button and hold it pressed**



**2. Press the reset button shortly while keeping the renew button pressed**



**Finalize the renewal**



After releasing the finger from the reset button the LED will doubleflash followed by a long flash to show that the renewal process was performed. Now you can release the renew button as well.

If you have the 'e-BLEACH 10x4' and no more cycle left it will only doubleflash and will not renew anymore (there will be no long flash).

Caution: If you do a renew twice, without using the chip on the lamp, you won't see the long flash either but it will be still operational.

## Replace Battery

Read this chapter carefully before replacing the battery.

### Safety warning

**Caution!**  
Danger of explosion when batteries are replaced improperly.  
Only replace by the same type or similar types recommended by the manufacturer.  
Remove empty batteries in accordance with the instructions of the manufacturer.

Leaky or damaged batteries might cause cauterisation when in contact with the skin; therefore use suitable protective gloves.

### Open battery tray



Open the battery tray by pushing the locker to the middle of the device like illustrated with the yellow arrow and pull out the tray in the direction shown with the red arrow.

## Insert CR2025 battery



Insert the tray again with the battery inserted in the illustrated direction.

## Battery disposal

### **BATTERY DISPOSAL NOTICE**

Please dispose of old and used batteries properly.  
Batteries are hazardous waste and should not be disposed of with regular domestic waste!  
Please take old and used batteries to a collection center near you.

## Troubleshooting

### Display shows "Replace Guide"

Seeing "Replace Guide" means that your device is working properly but needs to be renewed like described in the renew chapter.

### Display shows "Improper Guide"

If your display shows "Improper Guide" please remove the Guide, and press the reset button shortly. Wait until the LED stops blinking and reattach it.

If the problem still exists please replace the battery.