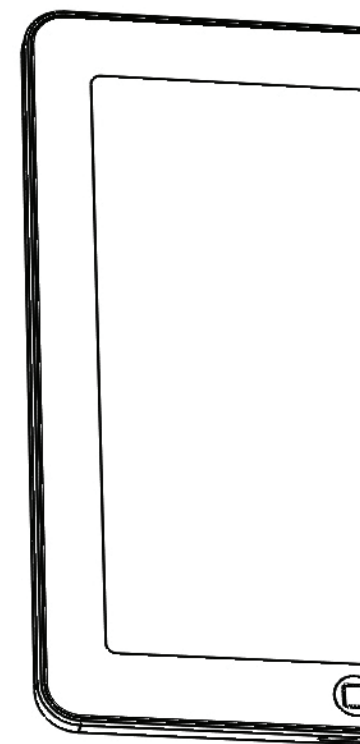
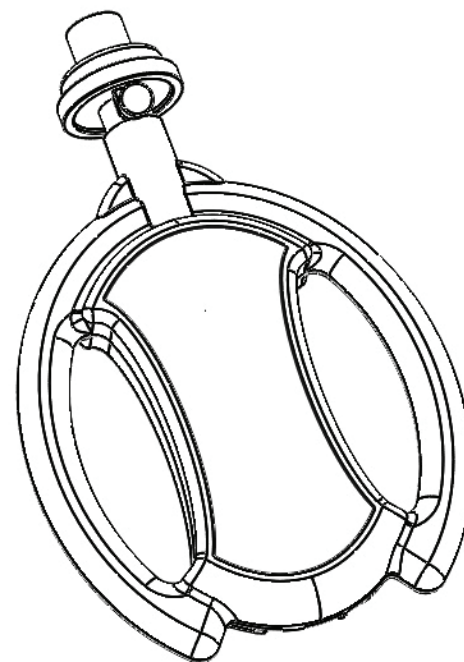


# groovtube

## User Manual



## Getting Started

The GroovTube is a unique device that enables breathing and oral motor skills to be visible and then analysed in an amusing and motivational way. It converts breathing patterns into real-time image effects to assist individuals who experience breathing, speech, or oral motor disabilities.

The GroovTube is a wireless device. To connect the GroovTube to your iPad, simply switch the device on, and it will connect to your iPad via Bluetooth. Just inhale or exhale into the mouthpiece of the GroovTube and the airflow is recorded and converted into visual effects for use with various apps that have been specially developed for the purpose.

It is strongly recommended that you first read the manual throughout before starting to use the GroovTube.

### System Components Required

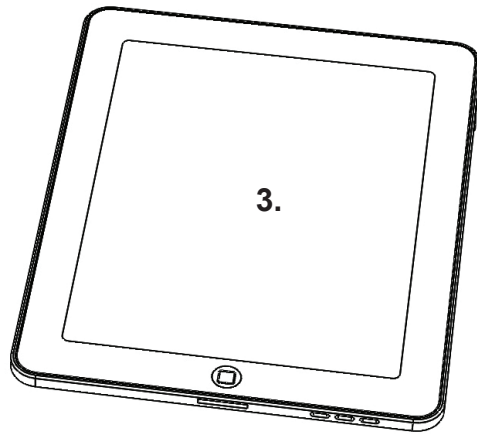
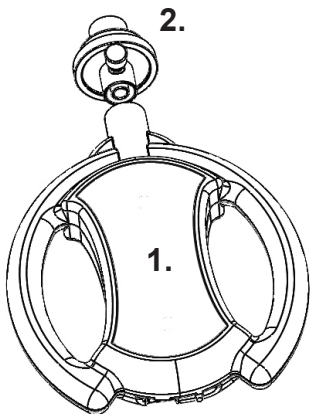
In order to use the GroovTube the following items are required:

1. GroovTube with cable
2. A antibacterial filter mouthpiece
3. iPad 3rd generation (since 03-2012) or 4th generation, iPad Air, iPad Mini or iPad Pro
4. AC adapter (*not displayed*)

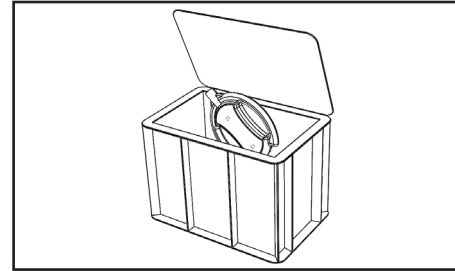
All these components are included in the starter kit, with the exception of the iPad. Do you have an older iPad generation? Then your iPad is unfortunately incompatible.

The following apps are available for free in the App Store:

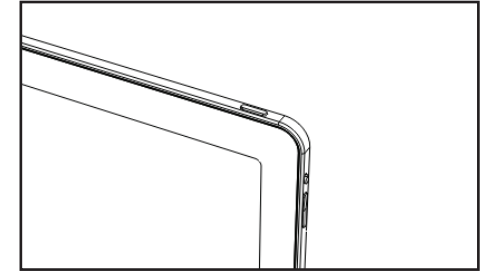
- GroovTube
- FairHammer
- BilliardBreath
- BreathMusic
- BreathTrainer
- BreathScore
- GroovyDragon



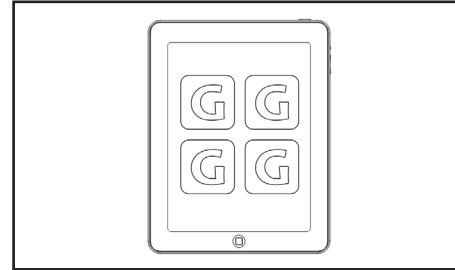
## Quick Start Guide



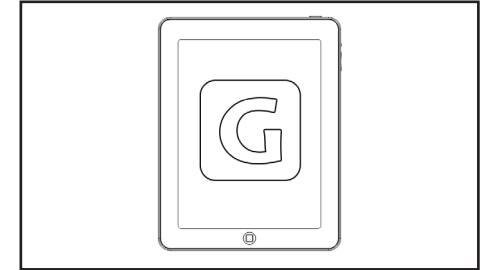
Step 1. Locate and remove the required items from the case.



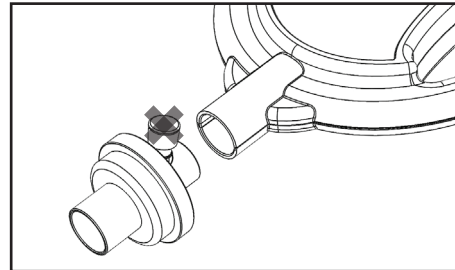
Step 2. Always start with turning the iPad on.



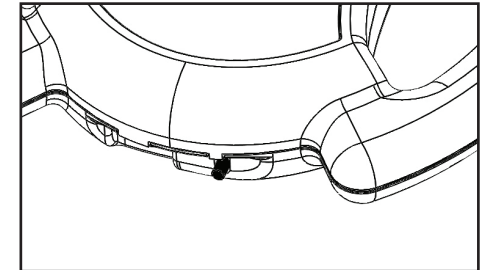
Step 3. Install our apps on your iPad if they are not already installed.



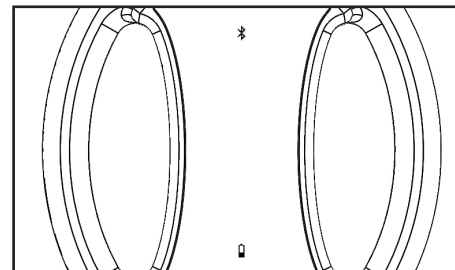
Step 4. Open one of the available GroovTube apps.



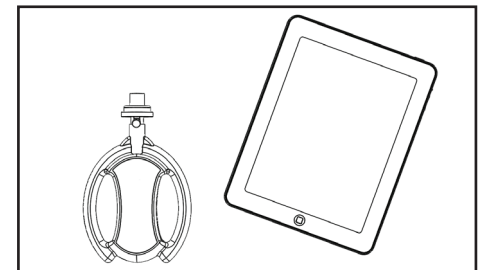
Step 5. Place the antibacterial filter mouthpiece and remove the white cap.\*



Step 6. Activate the GroovTube using the on-off button on the lower part of the unit.



Step 7. After a few seconds the LED lights will light up continuously.



Step 8. The GroovTube is now ready for use.

\* = NOTE: make sure you remove the white cap on the antibacterial filter mouthpiece!

## Initial Use

### Connecting the hardware

These steps are illustrated with images on the previous page.

Step 1. Select and remove the components from the case and prepare your iPad.

Step 2. Always start with turning the iPad on by pushing the SLEEP / WAKE button for a moment.

Step 3. Install our apps on your iPad if they are not already installed and open one of the available apps after the installation is finished.

Step 4. Activate the GroovTube using the on-off button on the lower part of the unit. The GroovTube will now start calibrating. This will only take a few seconds. You can start using the GroovTube when the LED light stops blinking and goes steady. On the iPad the Bluetooth logo will also light up.

Step 5. The GroovTube is now connected to the iPad and ready for use. Now follow the instructions below.

### Using the GroovTube

When the hardware is connected the GroovTube is ready for use. The apps needed to use the GroovTube are available for free in the App store. You will need to log in with an Apple ID in order to download them. To ensure that the apps function properly it is important that you carry out the following procedure for every use:

Step 1. Connect the GroovTube to the iPad as described above.

Step 2. Place the antibacterial filter mouthpiece on to Groovtube. This is done as follows: Please ensure that you wash your hands prior to working with the GroovTube! Avoid touching the front of the mouthpiece with your hands. If you are using an extender mouthpiece on top of the antibacterial filter mouthpiece place this without touching the front or back of it with your hands. Connect it firmly.

NOTE: the exercises are best done without the white cap on the Bacterial filter mouthpiece. Yet users with extremely limited lung capacity could use the white cap.

NOTE: each user will use his or her own bacterial filter mouthpiece. These can be stored in the supplied plastic containers that have lids. Depending on the requirement of the user you can place an extender mouthpiece on top of the antibacterial filter mouthpiece. Please observe a strict routine of the hygiene protocol. The extender mouthpieces are reusable. They can be cleaned with alcohol. For the correct hygiene protocol, see pages 5/6.

Step 3. Open the app you would like to use.

Step 4. You are now ready to use the GroovTube.

Step 5. Open the next app. Turn the GroovTube off and turn it back on. You are now ready to use the GroovTube.

NOTE: when switching between different apps it may happen that the GroovTube can not make a proper connection. In this case the LED light won't stop blinking. Double-click the Home button (the square on the iPad). You can see all the programs that are open. Close all programs (see also page 5) and open the desired app again.

## Turning off the GroovTube and storing it

After each session, close all apps and store the GroovTube in the storage case. To exit the session please follow this procedure:

Step 1. Double-click the HOME button (square on the iPad). You can see all the programs that are open. Swipe the app's screenshot up and off the screen. (Fig. 1).

Step 2. Turn the iPad off by pressing the SLEEP / WAKE button for a few seconds (Fig. 2).

Step 3. Turn the GroovTube off.

Step 4. Remove the antibacterial filter mouthpiece and store it in the provided container cup, with lid fastened. NOTE: Please ensure that the hygiene protocol is followed strictly as described on pages 5/6!

Step 5. Store all the materials in the storage case.



Fig. 1 Swipe to close apps



Fig. 2. SLEEP/WAKE knob

If you do not use the GroovTube for some time, it will switch itself off automatically.

### Charging the battery of the GroovTube

Ensure that you use only the supplied charger for GroovTube! Connect the GroovTube to the supplied AC power adapter. Connect charger to the GroovTube by inserting charger plug into input jack. During charging an indication LED on the GroovTube will light up. When charging is complete, this light goes out. If the battery runs down during use, the GroovTube will give a repeating audible tone.

### Keep the battery of the GroovTube in optimum condition

Store and charge your batteries in a cool area. Temperatures above normal room temperature will shorten battery life. The rechargeable battery performs best when it is used regularly. All batteries gradually lose their charge. If you store the GroovTube for long periods of time without using it, recharge the batteries once a month. This practice will prolong battery life.

## Hygienic protocol

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### Hand hygiene\*\*

Always wash your hands before and after working with the GroovTube to prevent cross-contamination.

### Work place and GroovTube hardware

Clean and disinfect your work surface before, between, and after usage.

Clean and disinfect the Groovtube device before, between, and after usage, especially the handles. Use a dry cloth with isopropyl alcohol or alcohol pads. Avoid wiping the MIDI and power ports.

### Antibacterial filter mouthpiece

To prevent cross-contamination always use the green antibacterial filter mouthpiece (type DAR™ Infant)\*\*\*

Each patient uses his own antibacterial filter mouthpiece that needs to be stored in a container cup with lid. The filter mouthpiece needs to be replaced at least once a month. The container cup needs to be dated with a sticker and also be replaced at least once a month. Do not touch the front of the mouthpiece with hands.

### Extender Mouthpieces

*(Only if you are using an extender mouthpiece on top of the antibacterial filter mouthpiece)*

Each patient uses his own extender mouthpiece that needs to be stored in a separate container cup with lid.

You can reuse the extender mouthpieces after cleaning: immerse the extender mouthpieces in alcohol (70%) for 5 minutes and then air dry.

### Periodic cleaning and charging

The following items have to be cleaned at least once a week:

The inside of the storage case, iPad\*\*\*\*, GroovTube and power adapter. Use a dry cloth with a little isopropyl alcohol or alcohol pads. Clean the inside of the mouthpiece holder with a cotton bud and a very little bit of isopropyl alcohol (70%).

Charge the batteries of the iPad and Groovtube just before the periodic cleaning in a dry and clean place.

\* The GroovTube is a Class I medical device (CE)

\*\* Hand hygiene is defined as hand washing or washing hands and nails with soap and water or using a waterless hand sanitizer.

\*\*\* (type DAR™ Infant) Pediatric Electrostatic Filter HME 355U5427

\*\*\*\* We advise the use of a screen protector on the iPad

## Hygienic protocol for hospitals

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### Hand hygiene\*\*

Always wash your hands before and after working with the GroovTube to prevent cross-contamination.

### Work place and GroovTube hardware

Clean and disinfect your work surface before, between, and after usage.

Clean and disinfect the Groovtube device before, between, and after usage, especially the handles. Use a dry cloth with a little isopropyl alcohol or alcohol pads. Avoid wiping the MIDI and power ports.

### Antibacterial filter mouthpiece

To prevent cross-contamination always use the green antibacterial filter mouthpiece (type DAR™ Infant)\*\*\*.

Use a new antibacterial filter mouthpiece for every new session. Do not touch the front of the mouthpiece with hands.

### Extender Mouthpieces

*(Only if you are using an extender mouthpiece on top of the antibacterial filter mouthpiece)*

Extender mouthpieces can be re-used after appropriate sterilisation. Suggested methods include autoclaving or immersion for 5 minutes in a sealed bath of 70% alcohol and then air drying.

### Periodic cleaning and charging

The following items have to be cleaned at least once a week:

The inside of the storage case, iPad\*\*\*\*, GroovTube and power adapter. Use a dry cloth with a little isopropyl alcohol or alcohol pads. Clean the inside of the mouthpiece holder with a cotton bud and a very little bit of isopropyl alcohol (70%).

Charge the batteries of the iPad and Groovtube just before the periodic cleaning in a dry and clean place.

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## Finally

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We hope that you and your users will have a lot of fun and enjoyment when using the GroovTube. There are some practical solutions to try if any malfunctions should occur.

The GroovTube uses Bluetooth Smart. This makes it possible to operate with several devices in the same area. The GroovTube will connect to the first free app that it encounters.

### What to do in cases of faults or failure?

In case of malfunction in the operation of the system, there are a number of possible solutions:

- Close the apps completely and restart the iPad again.
- Make sure that the iPad and Groovtube are sufficiently charged.
- To locate malfunctions you can use the indicator LED-lights on the GroovTube.
- Make sure the GroovTube is not too far away from the iPad. The maximum distance should be around 10 meters.

If the problems persist, than please contact your supplier. Contact information is listed on the rear cover of this manual.

### Warnings

We ask you to respect the following general points:

- Do not allow the GroovTube to get wet and therefore do not use it near to water or in a wet / damp environment.
- Use only the supplied adapter to charge the battery of the GroovTube.
- Always use the GroovTube under expert supervision.
- Always follow the cleaning protocol.
- The antibacterial filter mouthpiece contains a small removable cap, keep this away from small children as this can be a choking hazard.
- Keep the extender mouthpiece away from small children because it can be a choking hazard.
- Ensure that extender mouthpieces are placed firmly in the antibacterial filter mouthpiece. If these come loose, there is a choking hazard risk.
- Check for damaged parts. Observe if the handle develops any sharp edges or other damage.

## Contact us

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Please take a look at our website [www.groovtube.nl](http://www.groovtube.nl). There you can find most of the answers to frequently asked questions and download the latest version of this manual.

### Main contact information

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The Netherlands

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Website: [www.groovtube.nl](http://www.groovtube.nl)

Please also note the contact details of your local supplier.

