

## Team Project Use Case

### Use Case 1: Normal Operation

#### Primary Actor:

- Device User

#### Precondition:

- Oasis Pro is not damaged and fully functional when removed from the box.

#### Success Guarantee:

- Transmission of electrical impulses for the designated amount of time.

#### Main Success Scenario:

1. Insert a 9V battery if no battery is currently installed or if an old battery needs to be replaced.
2. Connect the ear clips to the earlobes.
3. Turn on the Oasis Pro device.
4. Select a session group (20 minutes, 45 minutes, User Designated).
5. Adjust the intensity of the electrical output.
6. Activate electrodes and start therapy timer. Includes Use Case 7 Activate Electrodes
7. After the session is complete, the Oasis Pro will automatically shut off.

#### Extensions:

- 1.a Continue to Use Case 2 Battery Installation.
- 2.a To ensure electrodes are placed correctly. Continue to Use Case 3 Placement of Electrodes.
- 3.a For turning the Oasis Pro on Continue to Use Case 4 Turn On.
- 4.a Instructions on how to select a session. Continue to Use Case 5 Selecting a Session.
- 5.a Instructions on how to adjust the intensity. Continue to Use Case 6 Adjust Intensity.

#### Related Information:

- During the use of the Oasis Pro, the Battery will deplete.
- The battery is getting low when the graph displays two bars and blinks. It is recommended that the battery be replaced before running a session.
- The battery is critically low when a single blinking bar appears. If the warning occurs during a session, the unit will end the session early. If the warning is displayed during powering on the device, then replace the battery immediately. Return to Use Case 2 Battery Installation.
- At any point the user can power off the device. Continue to Use Case 5 Turn Off.

## **Use Case 2: Battery Installation**

### **Primary Actor:**

- Device User

### **Precondition:**

- Oasis Pro is not damaged and fully functional when removed from the box.

### **Success Guarantee:**

- The correct installation of a battery within the Oasis Pro device.

### **Main Success Scenario:**

1. Slide the cover off the battery compartment on the back of the unit.
2. Insert a 9V battery, as indicated on the diagram in the battery compartment.
3. Slide the cover back into place.

### **Related Information:**

- An alkaline 9V battery will provide approximately 25-30 hours of operation.

## **Use Case 3: Placement of Electrodes**

### **Primary Actor:**

- Device User

### **Precondition:**

- Oasis Pro is not damaged and fully functional when removed from the box.

### **Success Guarantee:**

- Oasis Pro ready to commence a session.

### **Main Success Scenario:**

1. Remove glasses, earrings or any objects that may interfere with the ear clips.
2. Plug in the stimulus cable into the CES output jack.
3. For better electrical connection, wet the earlobe using tap water, saliva or a small amount of conductive gel before attaching the ear clips.
4. Attach the black clip to the left ear and the red clip to the right ear.

#### **Use Case 4: Turn On**

##### Primary Actor:

- Device User

##### Precondition:

- Oasis Pro is not damaged and fully functional when removed from the box.

##### Success Guarantee:

- Oasis Pro is powered on and can be navigated.

##### Main Success Scenario:

1. Press and hold the power button until the power LED turns on.

##### Related Information:

- If no session is selected within two minutes of powering on, the Oasis Pro will turn off.

#### **Use Case 5: Turn Off**

##### Primary Actor:

- Device User

##### Precondition:

- Oasis Pro is not damaged and fully functional when removed from the box.

##### Success Guarantee:

- Oasis Pro is powered off and is no longer draining charge.

##### Main Success Scenario:

1. Press and hold the power button until the power LED turns off.

#### **Use Case 6: Selecting a Session**

##### Primary Actor:

- Device User

##### Precondition:

- Oasis Pro is fully functional and powered on.

##### Success Guarantee:

- Oasis Pro has started the therapy session.

### Main Success Scenario:

1. Press and release the power button to switch between session groups (20 minutes, 45 minutes, or user designated)
  - a. If user designated is selected, press and hold the confirm button for at least 1 second to select a frequency
  - b. Press the INT up or down arrows to select a session frequency and press confirm to continue.
  - c. Press INT up or down arrows to select the length of the session, press confirm to continue.
2. Press the INT up or down arrows to select a session frequency.
3. Press the confirm button to start the highlighted session and the session will begin after a five second delay.

### Extensions:

- 3.a A connection test will run before the session commences. If the connection test returns a blinking 7 or 8 on the graph, return to Use Case 3 Placement of Electrodes.
- 3.b User can click the record button to have the current session be recorded to memory. Continue to Use Case 9 Record Session.

### Related Information:

- Session length has a minimum of 20 minutes and changes by increments of 20 minutes maxing at 180 minutes.

## **Use Case 7: Adjust the Intensity**

### Primary Actor:

- Device User

### Precondition:

- Oasis Pro currently running a session, or the user is selecting a session.

### Success Guarantee:

- The intensity has increased or decreased to the desired level.

### Main Success Scenario:

1. To increase the intensity of the stimulus, press the INT Up arrow.

### Extensions:

- 1.a To decrease the intensity of the stimulus press the INT Down arrow.

### Related Information:

- The graph lights 1 to 8 will show the approximate intensity level

## **Use Case 8: Activate Electrodes**

### **Primary Actor:**

- Device User

### **Precondition:**

- Oasis Pro currently running a session.

### **Success Guarantee:**

- The correct electrical current over the allotted time has been administered.  
Device is powered off.

### **Main Success Scenario:**

1. Oasis Pro checks if Electrodes have a good connection to the earlobes
2. Device outputs an electrical current
3. Steps 1 and 2 repeat until the specified therapy time has been completed
4. Device powers off.

### **Extensions:**

- 3.a If the connection test returns a blinking 7 or 8 on the graph, return to Use Case 3 Placement of Electrodes.
- 3.b At any time during the therapy session the user can save the intensity level. Continue to Use Case 10 Saving Preferences.

## **Use Case 9: Record Session**

### **Primary Actor:**

- Device User

### **Precondition:**

- User has successfully started a session.

### **Success Guarantee:**

- The session has been recorded to memory.

### **Main Success Scenario:**

1. After starting the session, click the record button.
2. The device is will now save the current session to history

### **Related Information:**

- User can print recorded sessions by clicking the print recorded sessions button

## Use Case 10: Saving Preferences

### Primary Actor:

- Device User

### Precondition:

- User has successfully started a session.

### Success Guarantee:

- The intensity level has been saved for that session duration and frequency pairing.

### Main Success Scenario:

1. During the session hold the confirm button for at least one second to save the current intensity level.

### Related Information:

- The intensity is saved to each combination of duration and frequency type. When the same session is started again the saved intensity will be the initial intensity.

