

Use Case Model

14 Use cases, alongside a use case diagram at the end of the document.

Use Case 1 - Power (ReplaceableBattery)

Primary Actor - Oasis Pro UI

Level - Subfunction

Precondition - 9 volt battery required

Success Guarantee - Oasis Pro powered successfully.

Main Success Scenario:

1. User slides the cover off of the back of the unit's battery compartment.
2. User inserts the 9-volt battery as indicated on the diagram
3. User slides the cover back into place.

Postcondition - Doing this grants 25-30 hours of operation. Repeat use case after battery life drained.

Extensions:

2a. Diagram not there/ Damaged.

- 2a1. User can view diagram online or on the original box with purchase(?)

Use Case 2 - Power (RechargeableBattery)

Primary Actor - Oasis Pro UI

Level - Subfunction

Precondition - wires to charge the device

Success Guarantee - Oasis Pro powered successfully.

Main Success Scenario:

1. User inserts power charging cable into outlet
2. User inserts power charging cable into Oasis Pro.
3. User slides the cover back into place.

Postcondition - remove cable when battery fully charged

Extensions:

Use Case 3 - Power On

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Device is charged enough or powered with a battery.

Success Guarantee - Oasis Pro Powers on and the graph displays the battery level.

Main Success Scenario:

1. User presses and holds the power button until the power LED turns on.

Postcondition - If no session is selected within 2 minutes, the Oasis Pro will turn off.

Extensions:

- 1a. Button is stuck or doesn't function properly.
 - 1ab. View "Warranty & Care" Section in the Oasis Pro Manual

Use Case 4 - Power Off

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Device is on.

Success Guarantee - Oasis Pro shuts off safely.

Main Success Scenario:

1. User presses and holds the power button at any time to turn off the Oasis Pro.

This may take up to 1 second if a session is running.

Extensions:

Use Case 5 - Battery Level Display

Primary Actor - Oasis Pro UI

Level - Subfunction

Precondition - Device is powered

Success Guarantee - Battery level visible to user initially and periodically afterwards.

Main Success Scenario:

1. User *Powers on*(UC3) the Oasis Pro.
2. Battery level is displayed on the graph for a couple seconds initially.
3. Battery Level continuously monitored and periodically displayed while session running.

Postcondition: -

Extensions: -

Use Case 6 - Battery Level Low

Primary Actor - Oasis Pro UI

Level - Subfunction

Precondition - Device is powered on and battery getting low

Success Guarantee- Battery level continuously monitored for when to be low

Main Success Scenario:

1. The graph will display two bars and blink.

Postcondition:

Extensions:

Use Case 7 - Battery Level Critical

Primary Actor - Oasis Pro UI

Level - Subfunction

Precondition - Device is powered on and battery critically low

Success Guarantee- Battery level continuously monitored for when its critically low

Main Success Scenario:

1. The graph will display a single bar.
2. If this warning occurs during a session, the session will end early and the battery indicator will continue to blink for a short period of time. The battery must now be

Powered by Use Case 1 or 2, respectively.

Postcondition:

Extensions:

Use Case 8 - Starting a Session

Primary Actor: Oasis Pro UI

Level: User Goal

Precondition: Device is powered on and the user would like to start a session

Success Guarantee: The user can start a specific session, see it through to completion, or end it early.

Main Success Scenario:

1. User presses and releases the power button to switch between groups, and they can see which one is being selected as the lit group icon will change.
2. User presses the INT Up or Down arrows to highlight a session number.

3.The frequency and mode icons associated with the session light up to indicate what frequency range and CES pulse type will be used.

4.User presses the Select button to start the highlighted session. The session number will flash and the session will begin after a five second delay.

Use Case 9 - Connection Test

Primary Actor - Oasis Pro





Level - User Goal

Precondition - Currently in session start

Trigger - Oasis Pro checks for an electrical connection by entering a test mode

Success Guarantee - After connection test mode is done, you can adjust the intensity.

Main Success Scenario:

1. Oasis Pro enters test mode. CES Mode light blinks ( or ) and the graph shows the status of the connection as shown in p6 of the manual.
2. User can either resume a saved preference or start a new one, for the latter, the display goes blank. For the former, it displays a Soft On animation.
3. The Oasis Pro will run with either an **Excellent** or **Okay** connection.
4. If the ear clips are disconnected, the Oasis Pro will pause the session and wait for the ear clips to be reconnected by *Placing Electrodes*. The No Connection signal will blink for a couple of seconds, then the graph scrolls up and down indicating the unit is returning the voltage to a safe testing level; this may take up to 20 seconds. (the  and  lights may turn on as well).

Extensions:

Use Case 10 - Placing Electrodes

Primary Actor : User


Level : User Goal

Precondition: No object interfering with ear clips

Trigger: User desires to place electrodes on earlobes

Success Guarantee:

Main Success Scenario:

1. Plug in the stimulus cable into the CES output jack(.
2. User attaches black clip to the left ear, and the red clip to the right ear.

Extensions:

2a.Connection still weak

2a1. Wet the earlobes using tap water, conductive gel, or saliva, before attaching the ear clips.

Use Case 11 - Ending A Session(Soft Off)

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Oasis Pro currently in a valid session, and the user wishes to end it early.

Success Guarantee - Soft Off takes place and the graph scrolls from 8 to 1.

Main Success Scenario:

1. User presses and releases the power button.
2. Soft Off begins and the Oasis Pro gradually reduces the CES stimulus.
3. The graph will scroll from 8 to 1 to confirm that Soft Off is in progress.

Postcondition: -

Extensions: -

Use Case 12 - Adjusting Intensity

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Oasis Pro currently in a valid session, and the user wishes to adjust intensity.

Success Guarantee - When the user adjusts INT on the Oasis Pro UI, the topmost lit number will blink.

Main Success Scenario:

1. User presses the UP or DOWN INT arrow to increase or decrease intensity, respectively.
2. The graph lights 1 to 8 only show an approximate intensity level, but when the intensity is adjusted, the topmost lit number will blink

Postcondition: - Intensity of Oasis Pro CES is adjusted as requested.

Extensions: -

Use Case 13 - Recording Therapy Session

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Oasis Pro currently in a valid session, and the user wishes to record the therapy and history of treatment.

Success Guarantee - User will see details of recorded session in the list view of history.

Main Success Scenario:

1. User presses the save session button during therapy.

2. The session alongside its corresponding type, duration, and last used intensity gets saved into the database.

Postcondition: - The session is now visible in the list view for history of recorded sessions.

Use Case 14 - Saving Preferences

Primary Actor - Oasis Pro UI

Level - User Goal

Precondition - Oasis Pro currently in a valid session, and the user wishes to save preferred intensity setting for the session.

Success Guarantee - Oasis Pro saves your preferred intensity and uses it the next time you run that session.

Main Success Scenario:

1. User adjusts to his preferred intensity, then presses and holds the Select button for 1 second.
2. The graph displays a short animation and the Oasis Pro saves the user's preferred intensity in the database for preferences.

Postcondition: after every save, and on each startup, the Oasis Pro remembers saved preferences from the database connected.

Oasis Pro

