

UC1: Turn OASIS device on

Primary actor: User

Precondition:

- User wants to start a session.

Success Guarantees:

- The device is turned on and the last session used is displayed.

Main Success Scenario:

1. User presses and holds the power button.
2. The power LED turns on.
3. The graph displays the battery level.

Extensions:

- 3a. The graph displays a single blinking bar indicating the battery level is critically low.
 - 3a1. User replaces the battery.
- 3b. The graph displays two blinking bars indicating the battery level is low and a message.
 - 3b1. The user should replace the battery.

UC2: Turn OASIS device off

Primary actor: User

Precondition:

- User wants to turn off the device.

Success Guarantees:

- The device is turned off.

Main Success Scenario:

1. User presses and holds the power button.
2. The device shuts off.

Extensions:

- 1a. A session is running.
 - 1a1. The user must hold the power button up to one second until the device is turned off.

UC3: Select a session

Primary actor: User

Precondition:

- The CES device has been turned on

Success Guarantees:

- The user has a session ready to start

Main Success Scenario:

1. The user presses and releases the power button to navigate between the groups of 20min/45min/user-designated. The selected group and its available session types light up.

2. The user uses the up and down buttons to select a session type between Sub-Delta/Delta/Theta/Alpha by choosing its corresponding number (1 to 4). The respective CES Mode and frequency lights for that session turn on.
3. Proceed to UC4.

Extensions:

- 1a. User selects the user-designated group
 - 1a1. The session types that have been configured using the DAVID Session Editor (sold separately) are lit up. Two sessions have been pre-configured into numbers 1 and 2.
- 2a. User presses the up arrow while on the top-most number
 - 2a1. The top-most number remains light up
- 2b. User presses the down arrow while on the bottom-most number (1)
 - 2b1. The bottom-most number remains light up

Related Information:

- If the user does not select a session within two minutes of the device turning on, it will turn off.

UC4: Start the session

Primary actor: User

Precondition:

- The user has selected a session (UC3)

Success Guarantees:

- The user has gone through a session

Main Success Scenario:

1. The user dampens their earlobes with a small amount of tap water, saliva, or conductive gel.
2. The user attaches the left ear clip to their left earlobe and the right ear clip to their right earlobe.
3. The user presses the Select button to start the previously selected session.
4. The session number flashes for 5 seconds.
5. The device's CES mode light starts blinking.
6. The device verifies the quality of the electrical connection between itself and the user.
7. The device displays an okay (numbers 4, 5, 6 light up solid yellow) or excellent (numbers 1, 2, 3 light up solid green) connection.
8. The display goes blank.
9. The device sends electrical stimulation to the user for the selected time.
10. The session ends and the device gradually reduces the CES stimulus intensity while the on-screen graph scrolls from 8 to 1.
11. Go to UC6

Extensions:

- 6a. There is no connection between the device and the user.
 - 6a1. The numbers 7 and 8 start blinking red.
 - 6a2. The user revises that their earlobes are dampened enough.
 - 6a3. The user checks that their ear clips are properly adjusted.

- 6a4. Repeat steps 6a1 to 6a3 until the connection is okay (numbers 4, 5, 6 light up solid yellow) or is excellent (numbers 1, 2, 3 light up solid green).
- 9a. The user wants to adjust the intensity.
- 9a1. Go to UC5.
- 9b. The user wants to end the session.
- 9b1. The user presses and releases the power button
- 9b2. Go to step 10.
- 9c. The ear clips are disconnected.
- 9c1. The device pauses the session and waits for the ear clips to be reconnected.
- 9c2. The device displays the No Connection state (numbers 7 and 8 blink in red). The left (L) and right (R) lights turn on as well.
- 9c3. The device returns to a safe voltage, notifying the user by scrolling up and down through its graph.
- 9c4. Go to step 6.
- 9d. The battery depletes to a low level.
- 9d1. The device graph displays two blinking bars while continuing the session.
- 9e. The battery depletes to a critically low level.
- 9e1. The device displays a single (number 1) blinking bar.
- 9e2. The device ends the session early.
- 9e3. The battery indicator continues to blink.
- 9e4. Go to step 11.

Related Information:

- The battery level is monitored and displayed periodically while the session is running.

UC5: Adjust intensity

Primary actor: User

Precondition:

- The user has started a session
- The connection test has ended
- The user feels over- or under-stimulation with the current intensity level

Success Guarantees:

- The intensity satisfies the user's comfort level

Main Success Scenario:

1. The user presses the up arrow or the down arrow buttons to raise or reduce the intensity level.
2. The user sees the approximate intensity level displayed on the device graph through lights 1 to 8, with the topmost lit number blinking.
3. User keeps increasing or decreasing the intensity until they are satisfied with the level.

Extensions:

- 1a. User presses the up arrow while on the top-most intensity (level 8)
 - 1a1. The intensity stays at level 8
- 1b. User presses the down arrow while on the bottom-most intensity (level 1)
 - 1b1. The intensity stays at level 1

UC6: Record a session

Primary actor: User

Precondition:

- A session has just concluded.

Success Guarantees:

- The session is added to the records history

Main Success Scenario:

1. A prompt appears on the screen asking the user whether they want to save the session
2. User selects the option "Yes" indicating that they would like the session to be saved to the records history.
3. The device automatically turns off after two minutes.

Extensions:

- 2a. The user does select any option from the prompt
 - 2a1. The device automatically turns off after two minutes
- 2b. The user selects "No" indicating that they would not like to save the session.
 - 2b1. The device automatically turns off after two minutes

UC7: View recorded sessions

Primary actor: User

Precondition:

- The user presses the Recorded Sessions button

Success Guarantees:

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Main Success Scenario:

1. The records history is displayed to the user.
2. The user uses the up and down button to scroll through the records history.

Use Case Diagram

