

3004 Team 35 Oasis Pro Use Cases

Use Case 1: Turn On

Main Actor: Device User

Precondition: The user has a device with a non-empty battery

Main Success Scenario:

1. User presses and holds power button
2. Device turns on
3. Start 2-minute idle timer
4. Start battery interval timer

Postcondition: Device is on and in the main menu

Extensions:

- 2a. The power has been turned on and 2 minutes passes
 - 2a1. The 2-minute idle timer sends its signal
 - 2a2. Check if session has been started
 - 2a3. If session has not been started, device turns off
 - 3a. Battery interval timer sends its signal
 - 3a1. Check if battery percentage remaining is 0
 - 3a1. If battery remaining is 0, device turns off
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Use Case 2: Turn Off

Main Actor: Device User

Precondition: The device is on

Main Success Scenario:

1. User press and holds power button
2. Device turns off

Postcondition: The device is off

Extensions:

- 2a. A session is in progress when the power button is pressed
 - 2a1. **Go to UC6: End Session**
 - 2a2. Return to step 2
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Use Case 3: Change Intensity

Main Actor: Device User

Precondition: Device is turned on

Main Success Scenario:

1. User presses up button or down intensity button
2. The power level increases if up is pressed, and vice versa

Postcondition: The intensity is at the new setting until either an in-progress session ends or is changed manually

UC4: Select Session

Main Actor: Device User

Precondition: Device is turned on

Main Success Scenario:

1. User presses power button to change the session group
2. User presses up or down buttons to change the selected session

Postcondition: A session is selected and ready to start once the user confirms their selection

UC5: Start Session

Main Actor: Device User

Precondition: Device is turned on and user has selected a treatment

Main Success Scenario:

1. User presses the confirm (checkmark) button
2. Starts a connection test (**Go to UC7: Connection Test**)
3. Create new session
4. Create recording object
5. Display session on UI
6. Begin outputting current

Postcondition: A session is in progress

UC6: End Session

Main Actor: Device User

Precondition: A treatment is in progress

Main Success Scenario:

1. The treatment timer ends, or the user manually stops the treatment by pressing the back button or the power button
2. (Soft Off™) a process by which the intensity slowly decreases to 0 before ending the session
3. The session object is saved to the database

Postcondition: The session has ended and is saved

UC7: Connection Test

Main Actor: Electrodes (ear clips)

Precondition: The user has started a session

Main Success Scenario:

1. Light starts blinking
2. User applies the ear clips
3. Device displays the connection quality
4. Once a good connection is confirmed, display goes blank

Post condition: The treatment begins (**Return to UC5: Start Session**)

Extensions:

- 4a. The electrodes are disconnected during the treatment
- 4a1. The treatment pauses (current output and timer are paused)
 - 4a2. The user is prompted to reconnect the electrodes
 - 4a3. Once reconnected, the treatment resumes from the time it left off
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UC8: Saving Preferences

Main Actor: Device User

Precondition: The device is on and a session is in progress

Main Success Scenario:

1. User adjusts the intensity to desired level
2. User presses the Select (checkmark) button and holds for one second
3. This intensity is saved as the default whenever this session is selected in the future
4. Device displays an animation to confirm the action

Post condition: The session resumes with the new intensity

Related Information:

By default, each session will start with an intensity of 0 and need to manually adjusted. Saving a new default intensity will override the default for this type of session only, other sessions will still default to an intensity of zero until a preferred new intensity is selected for them as well.

UC9: Replay Session

Main Actor: Device User

Precondition: The user has completed a session and saved it in the DB

Main Success Scenario:

1. User navigates to recordings menu on the interface
2. User selects a recording they wish to replay using the Up and Down buttons
3. User confirms selection using the Checkmark button
4. **Go to UC5: Start Session**

Related Information:

When selecting to replay a recording, the device will auto-fill the settings to match the selected recording, the user can then start a new session with the auto-filled settings using the normal checkmark button to confirm. Selecting a replay will NOT automatically start a new session.