User Manual

Year: 2023 Semester: Spring Team: 8 Project: Engineer’s Chess

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Assignment Evaluation:

| **Item** | **Score (0-5)** | **Weight** | **Points** | **Notes** |
| --- | --- | --- | --- | --- |
| **Assignment-Specific Items** | | | | |
| **Product Description** |  | x1 |  |  |
| **Product Illustration** |  | x2 |  |  |
| **Setup Instructions** |  | x3 |  |  |
| **Usage Instructions** |  | x3 |  |  |
| **Troubleshooting Instructions** |  | x3 |  |  |
| **Writing-Specific Items** | | | | |
| **Spelling and Grammar** |  | x2 |  |  |
| **Formatting and Citations** |  | x1 |  |  |
| **Figures and Graphs** |  | x2 |  |  |
| **Technical Writing Style** |  | x3 |  |  |
| **Total Score** |  | | |  |

5: Excellent 4: Good 3: Acceptable 2: Poor 1: Very Poor 0: Not attempted

Comments:

*Comments from the grader will be inserted here.*

1. Product Description

Engineer’s Chess, to put it simply, is a voice operated chess board. This product provides a refreshing way to play a game so many of us have enjoyed. The board receives chess moves as a voice input of the start square and end square. The squares are identified using the phonetic alphabet (Alpha, Bravo, Charlie, etc.) for the files, and a number for the rank. For example, “Echo Two to Hotel Five” would move the piece on E2 to H5. To play a game, grab a friend and follow the instructions!

“WARNING: This display may potentially trigger seizures for people with photosensitive epilepsy. User discretion is advised.”

1. Product Illustrations





1. Setup Instructions

Setting up Engineer’s Chess is a simple procedure of following these steps:

1. Plug the Ethernet cable into an Ethernet port with network access.
2. Plug in the power brick into a power socket.
3. Usage Instructions

Playing game:

1. Wait for the device to finish booting.
2. Once the Setup screen is shown, press the Timer Up/Down buttons to set the timers for the game. The will increment or decrement the minutes with limits of 0 and 99.
3. Once the timers have been set, press the Confirm button to start the game.
4. To record a move, press the Undo button and speak into the microphone within the 5 second window.
5. If your words were not a valid or legal chess move, this will display the appropriate message to the feedback displays.
6. Once a valid and legal move is received, the start and end square will be displayed to the screen.
7. Press the Confirm button to play the move. Press the Undo button to re-record a different move.
8. Once the move is confirmed, it is the next player’s turn.
9. Repeat steps 4 to 8 until the game is complete.

Restarting game:

1. When in any state other than Booting, Setup, or Recording, press the Timer Up button to bring up the “Restart game” prompt. If a game is in progress, this will also act as a pause on the timers.
2. Press Undo to cancel and return to the previous state. Press Confirm to restart the game.
3. Once Confirm is pressed, wait for the Loading state to complete.
4. Follow the instructions above to play a new game.

Recycling:

1. To recycle the product at the end of life, please follow instructions at the following website: <https://www.cta.tech/Landing-Pages/Greener-Gadgets/Recycle-Locator#/>
2. Troubleshooting Instructions

* *Is the device booting indefinitely (over a minute)?*

Check that the Ethernet cable is receiving a connection. You may easily do so by plugging it into a PC or laptop. If the Ethernet is not the issue, try unplugging the power brick and plugging it back in.

* *Do the feedback displays show any unreadable text?*

Continue playing until another message is displayed to the screens. This will erase the previous message.

* *Do some of the buttons not do anything?*

This is likely because you are in a game state where that button is disabled. For example, the Timer Down button only functions in the Setup state.

* *Do the feedback displays show “Invalid move!” even for a valid move?*

This is because the voice recognition did not capture your words accurately. Try moving closer to the microphone and stress each word during your pronunciation. Trying a more common American/English accent may help.

* *Other concerns or issues?*

Please email us at [help@engineerschess.com](mailto:help@engineerschess.com) and allow us to help you.