

# Manual for Presentation Setting

2025.09.23 黄作成

Note: In MRI experiments of language production, Presentation can reduce noise compared to other software. Therefore, we recommend using Presentation for such experiments.

言語産出のMRI実験では、他のソフトよりもPresentationを使用することでノイズを減らすことができます。そのため、言語産出のMRI実験にはPresentationの使用を薦めします。

# Presentation settings (Receive start signal)

**Step 1:** Open the Presentation software and ① click **Settings**. In the left column, ② select **Response**.

On this page, ③ set **Devices** to *Keyboard*, and ④ set **Buttons** to 5. And press ⑤ **Use fMRI**.

**Note:** This setting is to receive the start signal from the MRI.

The screenshot shows the Presentation software interface with the Settings window open. The interface includes a menu bar (Experiment, Editor, Tools, License, Help) and a tabbed interface (Main, Scenarios, Parameters, Settings, Editor). The Settings window is divided into several sections:

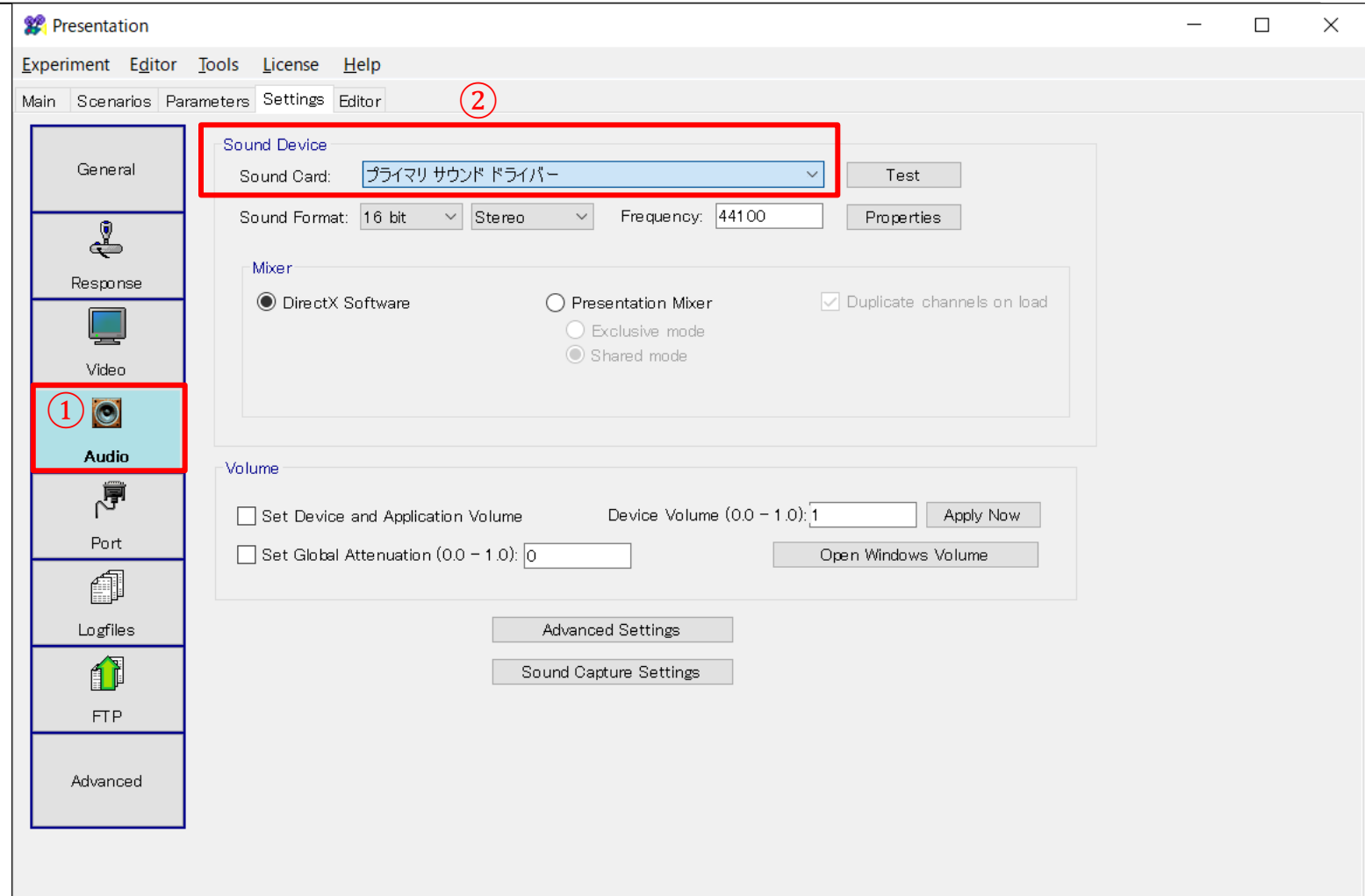
- Scenarios:** A list box containing "default" (circled 1).
- Active Buttons:** A table with columns "Label", "#", "Button Name", and "Device". It contains one entry: Label "1", # "5", Button Name "キーボード", Device "キーボード".
- Active Axis/Force Devices:** A table with columns "Type", "Index", and "Device".
- Response Devices:** A list box containing "マウス", "キーボード", "Standard PS/2 Keyboard", "ELAN Input Device", "Gameport Device", "Sound Device", "Speech Recognition", and "Pointing Device". "キーボード" is selected (circled 3).
- Buttons:** A list box containing "Esc", "Esc (up)", "1", "1 (up)", "2", "2 (up)", "3", "3 (up)", "4", "4 (up)", "5", "5 (up)", "6", "6 (up)", "7", "7 (up)". "5" is selected (circled 4).
- Buttons:** A list box containing "Esc", "Esc (up)", "1", "1 (up)", "2", "2 (up)", "3", "3 (up)", "4", "4 (up)", "5", "5 (up)", "6", "6 (up)", "7", "7 (up)". "5" is selected (circled 4).
- Buttons:** A list box containing "Esc", "Esc (up)", "1", "1 (up)", "2", "2 (up)", "3", "3 (up)", "4", "4 (up)", "5", "5 (up)", "6", "6 (up)", "7", "7 (up)". "5" is selected (circled 4).
- Buttons:** A list box containing "Esc", "Esc (up)", "1", "1 (up)", "2", "2 (up)", "3", "3 (up)", "4", "4 (up)", "5", "5 (up)", "6", "6 (up)", "7", "7 (up)". "5" is selected (circled 4).

Additional elements include buttons for "Test", "Remove", "Clear", "Properties", and "Remove" for the Active Buttons and Active Axis/Force Devices sections. The "Use fMRI" button is circled 5. A checkbox "Require device name match when loading" is also visible.

# Presentation settings (Device Selection)

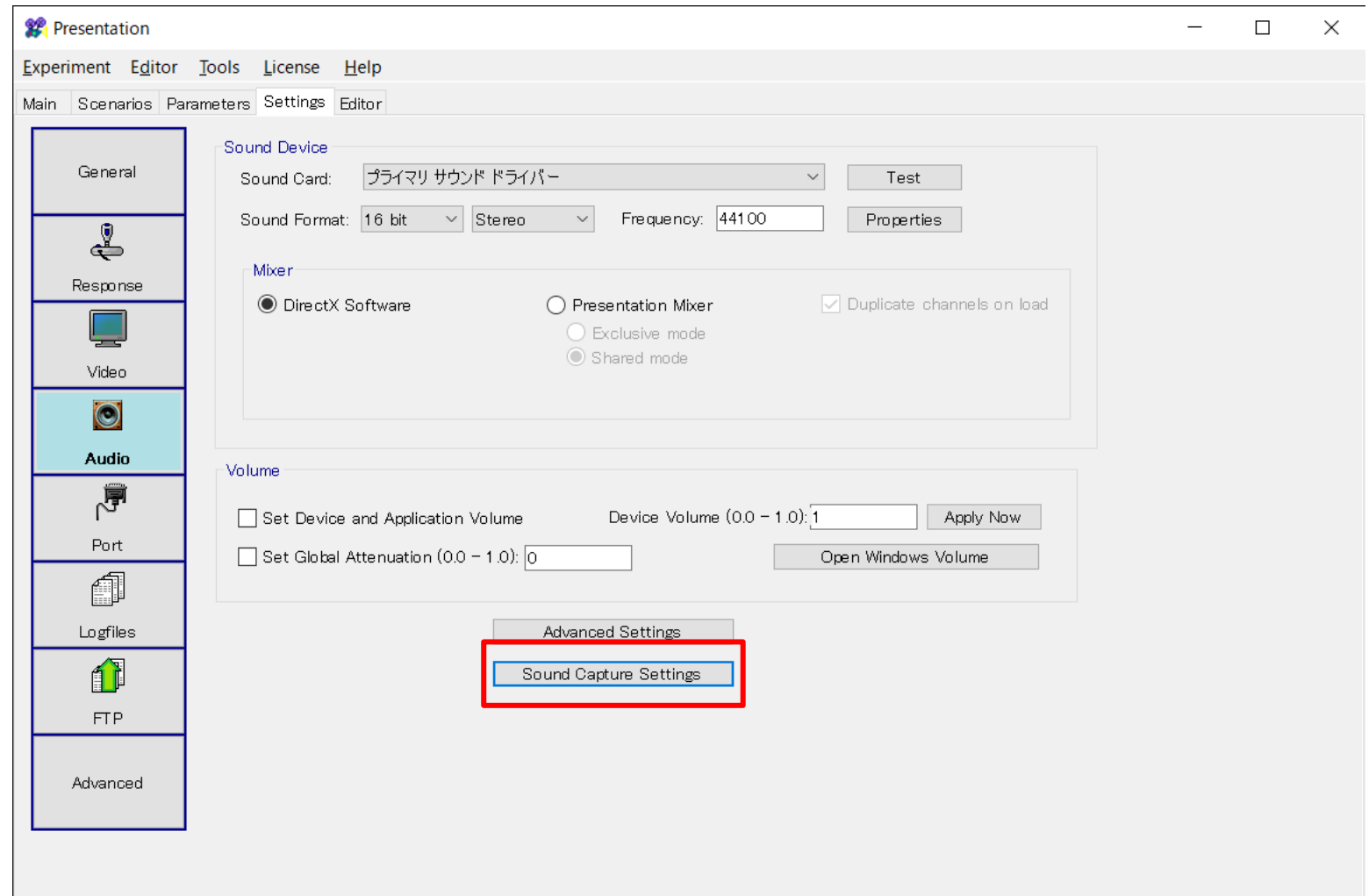
**Step 2:** In the left column, ① select **Audio**.

② Set **Sound card** to *Primary Sound Driver* (プライマリ サウンド ドライバー).



# Presentation settings (Device Selection)

**Step 3:** On the **Audio** page, click the **Sound Capture Settings** button.



# Presentation settings (Device Selection)

**Step 4:** In the **Sound device** section, select *Microphone (Realtek(R) Audio)*.

Sound Capture Settings

Sound Device: **None** (highlighted with a red box)

Sound Mode: (channels, bits per sample, frequency)

Ignore dropped captured data:  Abort scenario if maximum warning count is exceeded:

Display warnings after scenario if data is dropped:  Maximum dropped data warning count: 250

Maximum Recognition Recording Duration (seconds): 10

Set recording level: 0 (0-1)

Sound Response Device | Speech Recognition

Threshold: (0-1)  Use ignore interval: ms

Offset interval: ms  Save responses

Offset threshold: (0-1)  Recording duration: ms

Combine into one file

Test

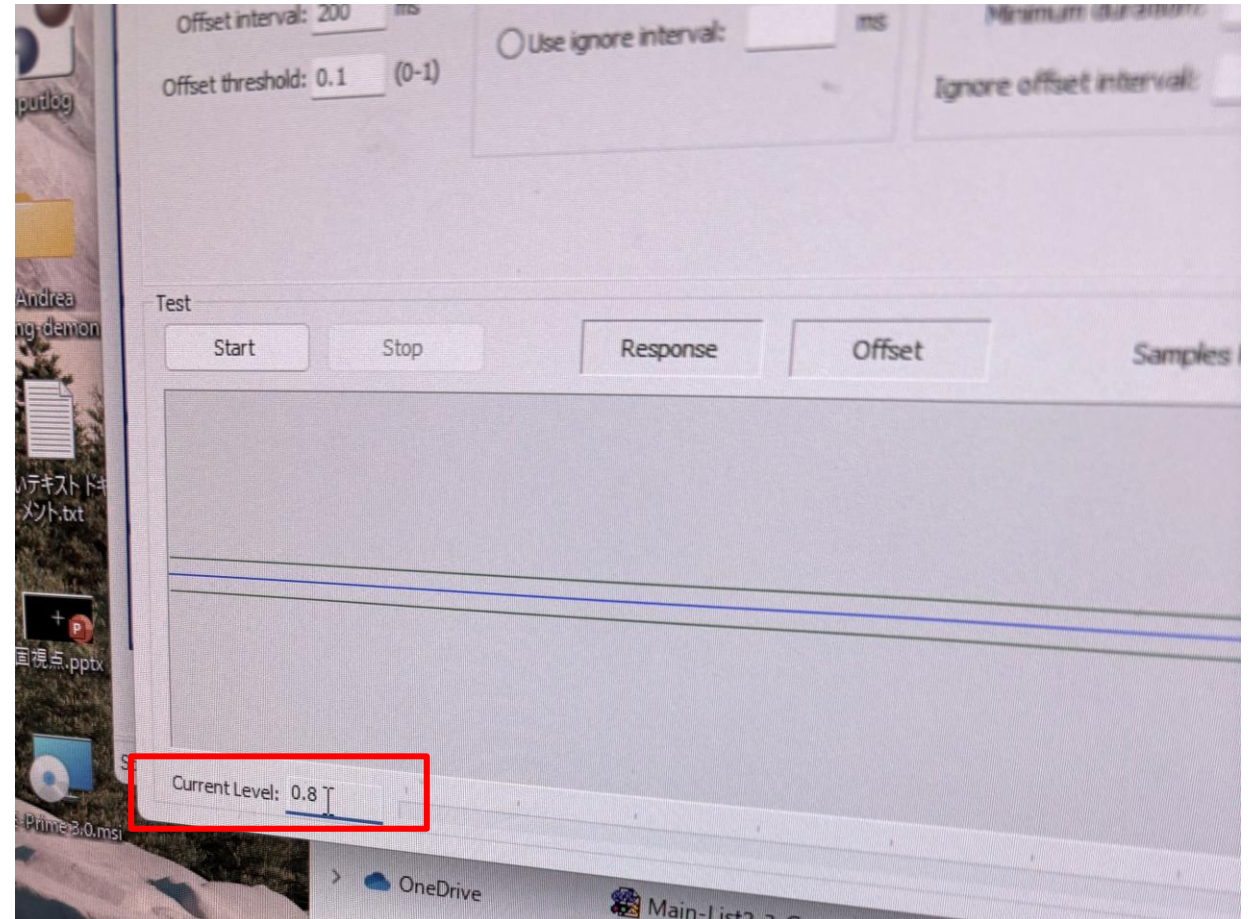
Samples Per Pixel: 64

# Presentation settings (Noise reduction)

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**Step 5:** On the same page, select **0.8** in **Current level**.

**Note:** This setting controls the noise reduction strength in Presentation. We recommend using **0.8**. If the value is too high, the participant's voice may not be heard.



# Presentation settings (Microphone test)

**Step 6:** On the same page, click **Start** to begin recording for a microphone test.

**Note:** Be sure to check that the microphone can record properly before starting the experiment.

