



User Manual March 2025



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MindViewer Overview



MindViewer is a visualization tool for Neeuro SenzeBand*, an EEG (Electroencephalogram) device that lets you understand your mental states in realtime while doing your day-to-day activities such as studying, working, or just taking a break.

MindViewer can measure your brain signals (EEG), gauge your mental states (attention and relaxation) and compare the relative strength of your frequency bands including delta, theta, alpha, beta and gamma waves.

Alongside the application, it uses a brain signal sensor device, the SenzeBand*, to analyse the brain signals received, to understand the mental state of the user. The user's mental state is then tracked throughout the duration of use.

MindViewer is an application that is designed to fit mobile devices. The application is available for Android and iOS.

*Neeuro SenzeBand or Neeuro SenzeBand 2





SenzeBand 2







MindViewer -SenzeBand Connection Panel





5



MindViewer - Main Panel





Back Button Return to SenzeBand Connection panel

3 Help Button

MindViewer Guide

Activity Screen - Display the selected panel activity

5 Elapsed Time

- Live recording duration

6 Live Feed Button

- Toggle between ON/OFF to start and stop data recording. In Live Feed is ON data recording is ongoing. Press button to stop recording session and save data into CSV.

Statistics

 View the time the session started and the time the user checked the statistic panel. - Show summary of the user's mental states and frequency band.



MindViewer Overview





EEG Panel





PPG Sensor

- Heart rate (bpm)
- Oxygen level (%)

2 Live EEG signals Waveforms

– Live EEG signals monitored from each of the 4 individual channels

3 Impedance Check

– Enter/Exit the signal quality check mode

– Off (White button) / ON (Blue button)

4 More information Button

 Explanation on what the
 "Impedance Check" means and how it affects the SenzeBand's signal sensitivity is displayed



Frequency Band Panel



EEG Individual Channel **Buttons**

- Left: Temporal Left
- Center Left: Frontal Left
- Center Right: Frontal Right
- Right: Temporal Right

Frequency Band Waveforms - Displays all 5 frequency bands of each Individual channels

3 Frequency Band Buttons

- Legend to define each graph representation
- Toggle to ON/OFF the graphs

Gamma (>31Hz)

Gamma increases when a person is in stress or high arousal.

Beta (14-30Hz)

High Beta indicates heavy mental workload, also increases when the user pays attention. May also infer inability to relax

Alpha (8-13Hz)

High Alpha is related to a relaxed state of mind.

Theta (4-7Hz)

Related to the person's intuition, creativeness, and feeling of emotions.

Delta (1-3Hz)

Increases when a person is in deep sleep; more common in infants.





Mental State Panel





EEG Individual Channel **Buttons**

- Displays the attention, relaxation and metal workload values of the user

- The user can manipulate the high and low values of the mental states with the following activities stated on the right

Attention

- Try not to have any type of distraction nearby

- Focus on one task at a time
- Drink a cup of coffee or tea

Relaxation

- Listen to a piece of soothing music
- Take a deep and slow breath
- Close your eyes

Mental Workload

- Learning something new
- Enough rest and keeping fit can increase mental workload efficiency





Motion Sensor Calibration Panel

| < | EEG | Frequency Band | Mental State | Motion Sensor Calibrator | Other Info | 0 |
|---------|--------------------|---------------------|--------------------------|-----------------------------|------------|---|
| | Q | XGain: 0.000 | YGain: 0.000 | ZGain: 0.000 | | |
| | | Position the Senz | eBand upright and rotate | 360° anti-clockwise | | |
| | | | | | | |
| | | 3 Start Calibration | | Stop Calibration | | |
| Elapsed | time: 00 : 00 : 12 | (| Live Feed is ON | | Statistic | s |



Calibration parameters

 For best accuracy, the parameters after calibration shall be as close as 1

2 SenzeBand 2 Calibration Guide

– SenzeBand 2's motion sensor calibration guide video

3 Start Calibration Button

- Enter calibration mode
- Flashing LED power indicator

4 Stop Calibration Button

- Exit calibration mode
- Solid LED power indicator

Note:

 Avoid compromising the accuracy of the SenzeBand 2's calibration by moving away from all the magnetic sources (metal items, electronic gadgets and power socket).

 Recommended to perform calibration at first-time using the new SenzeBand.

 Thereafter, only perform calibration if you feel there is an inaccuracy in your collected motion sensor data.



Other Info Panel

| Ģ | MCUID / MAC Address | | F7:46:81:9B:AC:8C | | Ŋ |
|----|---------------------|-----------|-----------------------|------------|---|
| 2 | Accelerometer | X: -0.125 | Y: 0.836 | Z: -0.475 | |
| ٦. | Direction | X. 27.767 | SE | 2. 107.040 | J |
| 3 | Valid Signal | | Valid | | 5 |
| ſ | | Left Ce | nter Left Center Righ | t Right | ר |
| 4 | Signal Strength | • | • | | |
| l | PPG | | | | |

1 SenzeBand ID Number

- SenzeBand 1 displays MCUID
- SenzeBand 2 displays MAC Address
- 2 Motion Sensor Data
 - XYZ axes acceleration
 - XYZ axes orientation
 - Ordinal and cardinal
 - directions (8 points)

3 Valid Signal Status

– Valid / Invalid

4 Sensors Contact Status

- Signal Strength: EEG sensors contact status
- PPG: PPG sensor contact status

5 More information Button

- Explanation on what Valid
 Signal Status means in
 SenzeBand 1 versus
 SenzeBand 2
- Explanation on what the
 '50-60Hz noise signal' and
 'Gamma frequency signal power' means and how it affects the SenzeBand's signal sensitivity is displayed



Statistics Panel

| < | EEG | Frequency Band | Mental State | Motion Sensor Calibrator | Other Info | 0 |
|-------|------------------|------------------------|---------------------------|-----------------------------|------------|---|
| | | | Mental State | | | |
| | | Time Started 1 | Statistics 6:24:53 Tim | 2 e Checked 16:24:53 | | |
| | tention | Mental State | | Frequency Band | \wedge | |
| | At | Attention 54% | Alpha | 54% Delta | 54% | |
| | Relaxation | Relaxation 54% | 4 Beta | 54% Theta | 54% | |
| | ental Workload | Mental Workload 54% | Gamma | 54% | | |
| | × | 5 | Ok | כ | | |
| | | | | | | |
| Elaps | ed time: 00 : 02 | : 59 | Live Feed is OFF | | Statistics | |



Time Started

- The time the session started

2 Time Checked

- The time the user checked the statistic panel

3 Summary of Mental States - Attention. Relaxation and Mental Workload scores in percentage

4 Summary of Frequency Band

- Alpha, Beta, Delta, Theta, and Gamma scores in percentage

5 Ok Button

- Close the statistics panel





Retrieving EEG Data





Retrieving EEG Data from iOS Device using Mac

After getting the EEG data from MindViewer App, connect device to a computer.



2 Select the connected device under 'Locations' in Finder.





3 Select on the 'Files' tab. You should be able to see a MindViewer folder.

| ••• | < > Neeuro-S04 | 88 ≎ | | ⊘ ⊙ ∽ Q |
|--------------|---|----------|------------|----------------|
| Favourites | Neeuro-S04 | | | |
| Documents | iPad Air 2 · 9.3 GB (5.74 GB Available) · 93% 🚱 | | | Manage Storage |
| Desktop | General Music Movies TV Show | s Photos | Files Info | |
| Ownloads | Name Size | | Date Mo | dified |
| 🖂 Pictures | > 🤄 MindViewer | | | |
| E Movies | | | | |
| 🎵 Music | | | | |
| iCloud | | | | |
| iCloud Drive | | | | |
| 📑 Shared | | | | |

4 Double-click on MindViewer. You should be able to view the following MindViewer folders.

| ••• | < > Neeuro-S04 | | |
|--------------------------------|---|-----------------|----------------|
| Favourites AirDrop Documents | Neeuro-S04 iPad Air 2 · 9.3 GB (5.74 GB Available) · 89% 🗭 | | Manage Storage |
| 🚍 Desktop | General Music Movies TV Sho | ows Photos File | es Info |
| Ownloads | Name Size | | Date Modified |
| Pictures | ✓ < ⊂ MindViewer | | |
| E Movies | PlayerData 856 bytes | | Today at 09:45 |
| Music | Sessions 99 KB | | Today at 10:23 |
| | Unity 438 bytes | | Today at 09:43 |
| iCloud | | | |
| iCloud Drive | | | |
| 😁 Shared | | | |





5 Click on the 'Sessions' folder and drag it into Desktop, or your desired location.

| ••• | < > Neeuro-S04 | | | ⊘ ~ Q |
|---------------------------------|---|-----------------|------------|----------------|
| Favourites AirDrop Documents | Neeuro-S04 iPad Air 2 · 9.3 GB (5.74 GB Available) · 89% (| 9 0, | | Manage Storage |
| Desk op Sessions | General Music Movies | TV Shows Photos | Files Info | |
| Ownloads | Name Size | | Date Modif | ied |
| Pictures | MindViewer | | | |
| E Movies | BlayerData 856 by | /tes | Today at 0 |)9:45 |
| Musia | Sessions 99 KB | | Today at 1 | 0:23 |
| | Unity 438 by | /tes | Today at 0 |)9:43 |
| iCloud | | | | |
| iCloud Drive | | | | |
| 📑 Shared | | | | |

6 You should be able to open and view the contents of the 'Sessions' folder.

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| - | | | | | |
|--------------|------------------|---------------------|--------------------|--------------|----------------------------------|
| Favourites | Neouro-S | 04 | | | |
| MirDrop | iPad Air 2 - 9.3 | GB (5.74 GB Availa | ble) - 89% 🚺 | | Manage Storage |
| Documents | | 00 (0.74 00 7110110 | | | |
| 🚍 Desktop | | General Music | Movies TV Shows | Photos Files | Info |
| Ownloads | Name | | Size | | Date Modified |
| Pictures | ✓ € MindViewer | | | | |
| E Movies | PlayerData | | 856 bytes | | Today at 09:45 |
| 🎵 Music | Sessions | | 99 KB 438 bytes | | Today at 10:23 Today at 09:43 |
| iCloud | | | | | |
| iCloud Drive | | | | | |
| 🖰 Shared | | | | | |
| Locations | | | | | |
| ■ Neeuro-S04 | | | | | |
| OneDrive | | | | | |
| Tags | | | | | |
| • Grey | | | | | |
| • Red | | | | | |
| Orange | | | | | |
| Blue | | | | | |
| Purple | Calculating | | | | Sync |
| Ch. All Tege | | | | | |



Retrieving EEG Data from iOS Device using Windows





2 Open 'iTunes' application on your computer. Select the connected device.







3 Under Settings, select 'File Sharing'. You shall see the following screen.

| \geq | | Neeuro-S04 | | |
|--|---|--|-------|----------------|
| Neeuro-S04 ▲ 1608 72% ■)+ tings Summary | File Sharing The apps listed below can transfer of Apps | documents between your iPad and this computer. MindViewer Documents | | |
|] Music | (B) | PlayerData | 4 KB | Today 9:45 AM |
| Movies | 5 MindViewer | Sessions . | 88 KB | Today 10:04 AM |
| TV Shows | | Unity | 8 KB | Today 9:43 AM |
| Photos | | | | |
| 1.1.1 | | | | |
| File Sharing | | | | |
| My Device | | | | |
| E Videos | | | | |
| Music | | | | |
| Movies | | | | |
| TV Shows | | | | |
| Books | | | | |
| Audiobooks | | | | |
| Tones | | | | |
| tere Sentenenten | | | | |
| | | | | |
| | | | Ad | d File Save |

Under Apps, select 'MindViewer'. You should be able to see a MindViewer folder.

| | | Neeuro-S04 | | |
|-----------------------------------|---|--|-------|----------------|
| Neeuro-S04 1668 72% summary | File Sharing The apps listed below can transfer of Apps | documents between your iPad and this computer. MindViewer Documents | | |
| Music | (@) | 📔 PlayerData | 4 KB | Today 9:45 AM |
| Movies | 5 MindViewer | Sessions | 88 KB | Today 10:04 AM |
| TV Shows | | Lunity | 8 KB | Today 9:43 AM |
| Photos | | | | |
| Info | | | | |
| File Sharing | | | | |
| ly Device | | | | |
| Videos | | | | |
| Music | | | | |
| Movies | | | | |
| TV Shows | | | | |
| Books | | | | |
| Audiobooks | | | | |
| Tones | | | | |
| | | | | |
| | | | | |



5 Click on the "Sessions" folder, followed by "Save...". Save the folder into your Desktop, or your desired location.

| | The apps listed below can transfer docume | nts between your iPad and this computer. | | | | |
|---------------------------|---|--|--------------|------|---------------|---------------------------------|
| igs Summary | Apps | MindViewer Documents | | | | |
| Music | MindViewer | PlayerData | | | 4 KR | Today 9:45 AM |
| TV Shows | 5 | Sessions | | | 88 KB 8 KB | Today 10:04 AM loday 9:43 AM |
| Photos | | | | | | ,, |
| Info | | | | | | |
| by Device | | | | ~ | | |
| Videos ← → • • | ↑ 🔜 → This PC → Desktop | ٽ ~ | , Search Des | ktop | | |
| Music | | | | | | |
| Movies Organise TV Shows | New folder | | | | | |
| Books > OneDriv | - Persor Name | Date modified | Туре | Size | | |
| Audiobooks | Neeuro | 12/12/2022 10:18 AM | File folder | | | |
| Tones | | | | | | |
| > 📑 3D Obj | ects | | | | Ad | ld File |
| > Deskto | P | | | | Ad | d File Save |
| > 🚔 Docum | ents | | | | | |
| > 🕹 Downle | bads | | | | | |
| > 👌 Music | | | | | | |
| > E Picture | 5 | | | | | |
| > 🙀 Videos | | | | | | |
| > 🏪 Windo | ws (C:) | | | | | |
| | | | | | | Sync Done |

6 Once the folder is saved to your destination. You should be able to open and view the contents of the 'Sessions' folder.

| * > * - | | Copying Files from "Neeuro-S04" Copying 1 of 1: Sessions | | Qv Search X |
|---|--|--|------------|---|
| File Edit View Controls Account Help | _ | Neeuro-S04 | | |
| Neeuro-S04 ▲ 1008 74% ● * Settings Summary J Music Movies TV Shows ● Photos ● ① Info ▲ KV Videos Ĵ Music J Movies ● ① Movies ● ③ Movies ● ③ Movies ● ③ TV Shows ● ● Books ● ④ Tones ● | File Sharing The apps listed below can transfer Apps MindViewer | documents between your iPad and this computer. MindViewer Documents PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerData PlayerDa | | 4 KB Today 9:45 AM 104 KB Today 10:23 AM 8 KB Today 9:43 AM |
| | Other | 5. | 34 GB Free | |

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Retrieving EEG Data from Android Device using Mac

| 1 After getting the l device to a comp | EEG data from MindViewer App, connect uter. | |
|---|---|---------|
| | | |
| 2 Open 'Android Fil and transfer files | e Transfer', a third party application, to browse between Mac computer and Android device. | |
| | 🗬 SM-T505 | |
| $\langle \rangle$ | | |
| Name | A Last modified | Size |
| > 🚞 .face | | - |
| > 🚞 .wallpaper | | - |
| > 📄 Alarms | | - |
| > 📄 Android | | - |
| > Audiobooks | | - |
| | == | - |
| > Documents | | - |
| Download | | - |





3 Use the following folder path to retrieve your EEG data from MindViewer App:

'Android > data > com.neeuro.mindviewer > files > Sessions'

| | 🗬 SM-T505 | |
|----------------|-----------------------------------|---------|
| | | |
| Name | Last modified | Size |
| > 🚞 .face | | - |
| > 📄 .wallpaper | | - |
| > 📄 Alarms | | - |
| 🗸 🛅 Android | | - |
| > 📄 .Trash | == | - |
| > 🛅 data | | - |
| > 🛅 media | | - |
| > 🛅 obb | | - |
| > 🔁 Audiobooks | | - |

学 SM-T505

| $\langle \rangle$ | l l | ÷ |
|--|-----------------------------------|-------|
| Name | Last modified | Size |
| > 📄 com.microsoft.office.officehubrow | | - |
| > 🛅 com.microsoft.skydrive | | - |
| > important commonotype.android.font.foundation | | - |
| > 🛅 com.monotype.android.font.samsungone | | - |
| > 🛅 com.neeuro.cogo | | - |
| > 🛅 com.neeuro.galini2 | | - |
| > 🛅 com.neeuro.memorie | | - |
| com.neeuro.mindviewer | | - |
| > 🚞 cache | | - |
| ✓ ■ files | | - |
| > 🛅 il2cpp | | - |
| > 📄 PlayerData | | _ |
| 🗸 🚞 Sessions | | - |
| 20221210T220839_Session.csv | 10/12/22, 22:13 | 38 KB |
| > 🛅 Unity | | - |
| > is com.neeuro.Neeuro_SenzeBand_Example_Project | | - |
| > 🛅 com.neeuro.neeurobits | | - |



4 Click on the 'Sessions' folder and drag it into Desktop, or your desired location. You should be able to open and view the contents of the 'Sessions' folder.

| | ● ● ● ● ● ● ● ● ● | | |
|-----------------------|---|---|------|
| | $\langle \rangle$ | | |
| Favourites | | La companya di | |
| AirDrop | Name | Last modified | Size |
| | > 📄 com.neeuro.galini2 | | - |
| 🕒 Document | > 🚞 com.neeuro.memorie | | - |
| Deskton Sessions | com.neeuro.mindviewer | | |
| | > 🛅 cache | | - |
| 🕘 Downloads | ✓ | | - |
| Pictures | > 📄 il2cpp | | - |
| - Instances | > 🛅 PlayerData | | - |
| Movies | > 🛅 Sessions | | - |
| Music | > 🛅 Unity | | - |
| | > com.neeuro.Neeuro_SenzeBand_Example_Proje | | - |
| iCloud | > com.neeuro.neeurobits | | - |
| | > com.neeuro.NeeuroCoach | | - |
| | > 📄 com.neeuro.neeurocycle | | - |
| E ⁹ Shared | > com.neeuro.NeeuroVital | | - |





Retrieving EEG Data from Android Device using Windows

1 After getting the EEG data from MindViewer App, connect device to a computer.



2 Select the connected device under 'This PC' in the file explorer.

| │ 🛃 🚽 ╤ │ This PC File Computer Vi | iew | | | | | | - | ٥ | ~ |
|---------------------------------------|--------------------------|----------------|------------|----------|---------|-----|---|---|---|
| > • 🛧 💻 > Th | is PC | | | | | 5 v | | | |
| 🖈 Quick access | Name | Туре | Total Size | Free Spa | ce | | | | |
| E Desktop 📌 | Polders (7) | Surteen Folder | | | | | | | |
| Downloads * | Desktop | System Folder | | | | | | | |
| 😫 Documents 🛛 🖈 | Documents | System Folder | | | | | | | |
| Pictures 🖈 | | System Folder | | | | | | | |
| This PC | 👌 Music | System Folder | | | | | | | |
| 3D Objects | Pictures | System Folder | | | | | | | |
| E Desktop | Videos | System Folder | | | | | | | |
| Dev's Tab A7 | V Devices and drives (3) | | | | | | | | |
| 😫 Documents | Dev's Tab A7 | Mobile Phone | | | | | | | |
| 🖊 Downloads | EENOVO (D:) | Local Disk | 24 | .9 GB | 24.8 GB | | | | |
| 👌 Music | Windows8_OS (C:) | Local Disk | 4 | 24 GB | 178 GB | | | | |
| Pictures | | | | | | | | | |
| 📕 Videos | | | | | | | | | |
| 🏪 Windows8_OS (C:) | | | | | | | | | |
| LENOVO (D:) | | | | | | | | | |





 Use the following folder path to retrieve your EEG data from MindViewer App: 'Internal Storage > Android > data > com.neeuro.mindviewer > files > Sessions'

| I I I I I File Home I | Share | View | | | | |
|---|--------|--------------------------------|--|-----------|--------------------|---------|
| ← → ~ ↑ 📘 | > Thi | s PC → Dev's Tab A7 → Internal | storage > Android > data > com.neeuro.mindview | ver files | | |
| | | Name | Туре | Size | Modified | Created |
| Quick access | * | il2cpp | File folder | | 31/10/2022 4:10 PM | |
| Downloads | * | Sessions | File folder | | 11/12/2022 2:26 PM | |
| Documents Pictures | Я Я | Unity | File folder | | 31/10/2022 4:10 PM | |
| This PC | | | | | | |
| Desktop | | | | | | |
| Dev's Tab A7 | | | | | | |
| Documents | | | | | | |
| b Music | | | | | | |
| Dictores | | | | | | |

NOTE: If after connecting the tablet to the PC you don't see any files, make sure that file sharing on the Android tab is enabled. Swipe down the tab's Menu and Select Android System. Then select File Transfer.







4 Click on the 'Sessions' folder and drag it into Desktop, or your desired location. You should be able to open and view the contents of the "Sessions" folder.

| \rightarrow This | PC > Dev's Tab A7 > | Internal storage > And | roid > data > com.neeuro.mi | indviewer > files > | , | | 5 v | , ○ Search files | |
|--------------------|---------------------|------------------------|-----------------------------|---------------------|--------------------|---------|-----|------------------|--|
| | Name | ^ | Туре | Size | Modified | Created | | | |
| Quickaccess | il2cpp | | File folder | | 31/10/2022 4:10 PM | | | | |
| Desitop | PlayerData | | File folder | | 31/10/2022 4:10 PM | | | | |
| Downloa → Move to | Desktop | | File folder | | 11/12/2022 2:26 PM | | | | |
| Documents 🖈 | Unity | | File folder | | 31/10/2022 4:10 PM | | | | |
| Dicture: | | | | | | | | | |
| This PC | | | | | | | | | |
| 3D Objects | | | | | | | | | |
| Desktop | | | | | | | | | |
| Dev's Tab A7 | | | | | | | | | |
| Documents | | | | | | | | | |
| Downloads | | | | | | | | | |
| Music | | | | | | | | | |
| Pictures | | | | | | | | | |
| | | | | | | | | | |
| Videos | | | | | | | | | |



EEG Data CSV file

| Home | Inse | rt Draw | Page | Layout | Formulas | Data Re | view Vie | w Auto | mate Deve | eloper | Tell me | | | | | | | | | | | | 🖻 Share | Co Co | omments |
|--------------|------------------------|---------------------------|--------------|-------------|---------------------|-------------|-------------|-----------------------|---------------------------|-------------|--------------------|-----------------|-----------------------|--------------------------|-------------------|---------------|---------------|---------------|----------|-----------------|--------------------|------------------|------------------|-----------------|---------|
| ĥ | X Cu | t A | rial | • | 10 - A^ | A = | | 89 v | ab Wrap Text | ~ | General | | - | - 🏢 - | Normal | Bad | | - | · 🗮 · | • | ∑ Auto-sum v | ∳∆ . | Q. | | |
| Paste | Co V For | rmat E | B I <u>U</u> | • 🗄 • | <u>⊘</u> - <u>A</u> | • = | ≡ ≡ | <u>e</u> = <u>=</u> = | 🖶 Merge & Ce | entre 🗸 | \$ ~ % | 9 58 - | Condition Formatti | al Format ng as Table | Good | Neutra | Ú | Insert | Delete | Format | ↓ Fill ∨ ♦ Clear ∨ | Sort & Filter | Find & Select | Analyse Data | |
| Z21 | * | × v j | fx | | | | | | | | | | | | | | | | | | | | | | , |
| 4 | A | В | с | D | E | F | G | н | · · · · · · · · · · · · · | J | к | L | м | N | 0 | Р | Q | R | s | т | U | V | w | | x |
| 1 Date | 2022-12- | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 Time | Ended: 00 | 0:00:00:000 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 Time | of first dat | ta: 22:08:40.0 | 042 | | | | | | | | | | | | | | | | | | | | | | |
| 6 Dura | ion: 00:05 | a: 22:13:39.9 6:00.549 | P48 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 Aver | ige Attent | ion: 0.31 ation: 0.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Aver | ige Menta | Workload: 0 | 0.00 | | | | | | | | | | | | | | | | | | | | | | |
| 11 Avera | ge Delta: | 0.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 Avera | ige Theta ige Alpha | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 Aver | ge Beta: | 0.10 | | | | | | | | | | | | | | | | | | | | | | | |
| 15 Avera | ige Gamn | na: 0.36 | | | | | | | | | | | | | | | | | | | | | | | |
| 16 17 FEG | Values. | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 Time | values. | Attention | Relaxation | Mental Worl | kk Delta Right | Theta Right | Alpha Right | Beta Right | Gamma Right D | elta Center | Theta Center | - Alpha Center- | Beta Center-F 0 | amma Cent | ti Delta Center-I | Theta Center- | Alpha Center- | Beta Center-L | Gamma Ce | enti Delta Left | Theta Left | Alpha Left | Beta Left | Gamr | ma Left |
| 19 | 00:00.5 | 0 | | 0 | 0 0 | 0 | 0 | (| 0 | (|) (| 0 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | | 0 | 0 0 | | 0 | 0 | 0 |
| 20 | 00:01.5 | 0.28 | | 0 | 0 1 | 0.02 | 0 001 | 0.01 | 0 | 0.9 | 8 0.0 ⁴ | 0.01 | 0.01 | 0 | 0.77 | 0.13 | 0.06 | 0.1 | 0.0 | 03 0. | 86 0.07 | 0 | 01 0 | 1.08 | 0.02 |
| 22 | 00:03.6 | 0.66 | | 0 | 0 0.93 | 0.05 | 0.01 | 0.02 | 0 | 0.95 | 6 0.03 | 0.01 | 0.01 | 0 | 0.48 | 0.13 | 0.02 | 0.13 | 0.3 | 38 0. | .63 0.14 | ő | .03 0 | 3.08 | 0.25 |
| 23 | 00:04.5 | 0.42 | | 0 | 0 0.99 | 0 | 0 | (| 0 0 | 0.93 | 2 0.00 | 0.02 | 0.02 | 0 | 0.23 | 0 | 0 | 0.05 | 0. | 73 | 0.4 0.01 | | 0 0 | 1.04 | 0.57 |
| 24 | 00:05.5 | 0.12 | | 0 | 0 0.92 | 2 0.06 | 0.02 | 0.02 | 0 | 0.0 | 0.00 | 0 0 | 0 37 | 0 64 | 0.03 | 0 | 0 | 0.06 | 0.9 | 93 0. 96 | 07 0 | | 0 0 | 1.06 | 0.89 |
| 26 | 00:07.6 | 0.01 | | 0 | 0 0.97 | 0.02 | 0.01 | 0.01 | 0 | 0.03 | 2 (| 0 | 0.08 | 0.95 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 3.06 | 0.96 |
| 27 | 00:08.5 | 0.01 | | 0 | 0 0.93 | 0.05 | 0.02 | 0.02 | 0 | 0.0 | (| 0 0 | 0.05 | 0.95 | i 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 |).05 | 0.96 |
| 28 | 00:09.6 | 0.01 | | 0 | 0 0 | 0 0 | 0 | 0.28 | 0.86 | (| | 0 0 | 0.06 | 0.96 | 0 | 0 | 0 | 0.06 | 0.9 | 96 | 0 0 | | 0 0 | 1.06 | 0.96 |
| 30 | 00:10.5 | 0.01 | | 0 | 0 0 | 0 0 | 0 | 0.05 | 0.96 | | | 0 0 | 0.06 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 3.06 | 0.96 |
| 31 | 00:12.5 | 0.01 | | 0 | 0 0 | 0 0 | 0 | 0.05 | 0.96 | (|) (| 0 0 | 0.05 | 0.96 | 6 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 |).05 | 0.96 |
| 32 | 00:13.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.06 | 0.96 | | | 0 0 | 0.06 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 1.06 | 0.96 |
| 34 | 00:14.5 | 0.01 | | 0 | 0 0 | 0 0 | 0 | 0.06 | 0.96 | | | 0 0 | 0.05 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 96 | 0 0 | | 0 0 | 3.06 | 0.96 |
| 35 | 00:16.5 | 0.01 | - | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | (|) (| 0 0 | 0.05 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 1.05 | 0.96 |
| 36 | 00:17.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.06 | 0.96 | (| | 0 | 0.06 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 1.06 | 0.96 |
| 38 | 00:18.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.06 | 0.96 | - | | 0 | 0.05 | 0.96 | 0 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 0.05 | 0.96 |
| 39 | 00:20.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | i |) (| 0 0 | 0.05 | 0.96 | 0.31 | 0.17 | 0.06 | 0.07 | 0.4 | 44 0. | .17 0.37 | 0 | 19 0 | 1.22 | 0.14 |
| 40 | 00:21.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.06 | 0.96 | | | 0 | 0.06 | 0.96 | 0.7 | 0.08 | 0.03 | 0.04 | 0. | 18 0. | .81 0.23 | 0 | 04 0 | 1.04 | 0.03 |
| 42 | 00:22.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | 0.0 | | 0 | 0.05 | 0.96 | 0.44 | 0.42 | 0.16 | 0.12 | 0.0 | 37 0 | 36 0.58 | 0 | 03 0 | 0.1 | 0.12 |
| 43 | 00:24.5 | 0.05 | | 0 | 0 0 |) Ö | 0 | 0.06 | 0.96 | i |) (| 0 0 | 0.06 | 0.96 | 0.08 | 0 | Ő | 0.06 | 0.1 | 87 0. | 69 0.13 | 0 | 12 0 | 1.11 | 0.04 |
| 44 | 00:25.5 | 0.22 | | 0 | 0 0 | 0 | 0 | 0.06 | 0.96 | (| | 0 0 | 0.06 | 0.96 | 0.02 | 0.01 | 0 | 0.06 | 0.1 | 94 1 | 0.7 0.21 | 0 | 02 0 | 1.09 | 0.04 |
| 45 | 00:26.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | | | 0 | 0.05 | 0.96 | 0.09 | 0.01 | 0.01 | 0.06 | 0.0 | 87 0 | 61 0.04 22 0.01 | 0 | 0 0 | 1.03 | 0.34 |
| 47 | 00:28.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | i | | 0 0 | 0.05 | 0.96 | 0.03 | 0.01 | 0 | 0.06 | 0.1 | 93 0. | 03 0 | | 0 0 | 3.06 | 0.94 |
| 48 | 00:29.5 | 0.01 | | 0 | 0 0 | 0 0 | 0 | 0.06 | 0.96 | (|) (| 0 0 | 0.06 | 0.96 | 0.01 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | J.06 | 0.96 |
| 49 | 00:30.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | 0.00 | 0.00 | 0 0 | 0.05 | 0.96 | 0.01 | 0 | 0 | 0.06 | 0.1 | 96 | 0 0 | | 0 0 | 1.06 | 0.96 |
| 51 | 00:32.5 | 0.01 | | 0 | 0 0 | 0 | 0 | 0.05 | 0.96 | 0.00 | 0.04 | 0 | 0.07 | 0.93 | | 0 | 0 | 0.06 | 0.1 | 95 | 0 0 | | 0 0 | 0.06 | 0.96 |

- 1 Mental State classification values and Frequency Band power density derived from EEG data are recorded in CSV files
- 2 For Mental States, it is in a range from 0 to 1, the closer to 1 means the user is hitting closer to that particular Mental State
- For Frequency Bands, it is about power spectral density

 X% of brain wave power in which frequency band will add up to 100%







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