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Website: http://24-7.motionx.com
1. Overview

Sleeptracker 24/7 Standalone Monitor helps you move and improve your sleep as well as monitor your health with tools including an activity monitor, sleep recorder, heart rate monitor, and weight tracker.

Personalize Sleeptracker 24/7 Standalone Monitor

After launching Sleeptracker 24/7, you will be prompted to answer a few questions about yourself such as your height, weight, age and gender to help optimize accuracy for distance and calorie computations.

Sleeptracker 24/7 is fully integrated with Apple’s Health app so you can share data with other Health app-enabled applications.

Home Screen

The Home screen provides your stats at a glance. Use the large “plus” button at the bottom to record your sleep, steps, timed activities, heart rate, and weight.
Scoring, Coaching tips, Almanac

The Sleep Score is a value from 1 to 100 based on a number of factors. Your sleep efficiency, total sleep duration compared to the number of recommended hours of sleep, the ratio of deep to light sleep and the number of times you awoke during the night all contribute to your score. Daily sleep tips are customized for you based on your sleep recording and Sleep Score.

The Move Score is a value from 1 to 100 and is calculated using several data points. The total number of steps taken, the number of aerobic steps taken and the number of hours in the day you were moving all factor into the score. Daily move tips are provided based on your previous day’s Move Score.

The time of year influences how much sleep your body needs. Reference the almanac to see today’s night and day length, sunrise/set and moonrise/set.
2. Sleeptracker

Record your sleep with patented Sleeptracker® technology to visualize your sleep patterns and to be woken up at the optimal time by the Smart Sleep Cycle Alarm. Choose between placing the iPhone on your bed next to your pillow, or wearing your iPhone in a wristband/armband. Use the screen lock button to conserve power while sleeping.

Sleeptracker 24/7 can monitor your sleep with your iPhone placed in your bed. Sleeptracker 24/7 will work with any mattress type (including Tempur-Pedic®) if the phone is positioned properly: go to Settings > Optimize Position. Turn off the screen to conserve power while recording your sleep; activate airplane mode to turn off cellular and Wifi signals.

For optimal accuracy, wear your iPhone on a wristband or armband while you record your sleep.
2. Sleeptracker (continued)

Alarm Clock
Start a sleep recording to begin monitoring your sleep (from the Home screen select ‘+’ > Sleep > Record Your Sleep). When you wake up in the morning, press and hold Stop Sleep to end the recording. Use the Sleep Cycle Alarm to wake up at the optimal time in your sleep cycle. You must be recording your sleep to activate the alarm. Choose the alarm sound you would like to be awoken with and other settings.

**Alarm:** Toggle to turn the alarm on/off (use the off setting to record your sleep without using the Sleep Cycle Alarm)

**Alarm Setup:** Update alarm day, time, window, sounds, and volume. Optionally add multiple alarms; for example one for weekdays and one for weekends.

**Optimal Window:** In the specified window preceding your set time, the Sleep Cycle Alarm will pick the optimal time to wake you so you feel refreshed. Touch the Set marker to change the alarm time.
2. Sleeptracker (continued)

Sleeptracker Setup

Choose to record just your sleep, just your snoring, or both

Position your phone to ensure your device is positioned properly for recording sleep

Record Sleep

Record Snore

Measure HR at wake up

Sleep Soundscapes

White Noise

Phone Position

Record Snore: Use the iPhone’s microphone to record snoring or apnea sounds while you sleep

Receive a reminder to measure your heart rate using your iPhone when you wake up

White Noise: Optionally fall asleep to white noise or a track from your iPod. Noise gently fades away after you fall asleep.

Don't show me this again

Start Recording

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¹ The first few times you record your sleep, use the Phone Position test to ensure your device is positioned properly for recording sleep with your iPhone on the mattress. Proper placement will increase accuracy. Access the placement test any time from Settings > Optimize Position.
1. Alarm volume is independent of your iPhone ringer volume, and will sound even if your iPhone ringer is set to vibrate.

Tip: 24/7 works with your iPhone in airplane mode to avoid having phone calls and text messages disrupt your sleep.

To save power, use the screen lock button to turn off the display, or place your iPhone face-down on the bed to activate the proximity sensor (iPhone only).

Earliest sleep cycle alarm wakeup time, set by your wake-up window¹

Latest sleep cycle alarm wakeup time

¹ Alarm volume is independent of your iPhone ringer volume, and will sound even if your iPhone ringer is set to vibrate.
3. Sleeptracker Log

View detailed sleep graphs for individual recordings, plus 7-day and 30-day trend charts and statistics.

Sleeptracker Graph, Statistics, and Score

View your Sleep Score, bed time, rise time, sleep efficiency, actual sleep time, and total time spent in bed.

- orange = awake
- light blue = light sleep
- dark blue = deep sleep

Your Sleep Score is a value from 1 to 100 based on a number of factors. Your sleep efficiency, total sleep duration compared to the number of recommended hours of sleep, the ratio of deep to light sleep and the number of times you awoke during the night all contribute to your score.

Sleep Efficiency is calculated using the formula:

\[
\text{Sleep Efficiency} = \frac{\text{actual sleep time in bed}}{\text{total time spent in bed}} \times 100\%.
\]

Try a set of ear plugs if uncontrollable noises are keeping you awake at night.

\[1\] Your Sleep Score is a value from 1 to 100 based on a number of factors. Your sleep efficiency, total sleep duration compared to the number of recommended hours of sleep, the ratio of deep to light sleep and the number of times you awoke during the night all contribute to your score.
4. Powernap

Use a powernap to recharge your battery mid-day. A 25 minute powernap will leave you feeling more refreshed than the short-term boost from caffeine.

Choose a powernap duration between 15-180 minutes, or let Sleeptracker 24/7 set the optimal time for you. The timer will start once Sleeptracker 24/7 has determined you are asleep. For example, if you set a duration of 25 minutes and it takes you 10 minutes to fall asleep, the alarm will sound after 35 minutes.

Alarm Setup: Turn optimal duration setting on/off, select alarm volume, sound, iPod song, and vibration settings.

Set the latest time you want to wake up from your powernap. This time overrides the nap time window if necessary.

The default optimal powernap time is set to 26.5 min; as 24/7 learns more about your sleep habits the app will automatically optimize this duration for you.
5. Goals

Step and sleep goals keep you motivated. Configure your personal goals and adapt them over time. Set the Active Alert to help you get moving throughout the day.

Active Alert: Receive a notification when you’ve been idle for too long. Set the idle time and between what hours of the day you’d like to be alerted. Notifications must be enabled from iPhone Settings for this feature.

For iPhone 5 devices: Background Step Count must be turned ON.

Daily Sleep Goal: Set a sleep goal between five and ten hours. Sleep requirements vary from person to person, so use your sleep recordings as a guide to select the optimal sleep goal for you.

Weight Goal: Set a weight goal; view your progress by selecting Weight from the 24/7 Home screen.
6. Heart Rate

Your resting heart rate is a great measure for your general well-being. Measure your resting heart rate at the same time each day to spot upward or downward trends.

Place your finger so it covers both the rear camera lens and the flash (for iPhone 7+ and 8+, place your finger over the lens furthest from the flash) then press the Start button. Press gently and move your finger around until you see a waveform and hear a beeping noise to indicate the sensor is collecting data. For best results, take measurements in a well lit room or outdoors and ensure your device is running the latest iOS version.
7. Steps

View your daily steps or toggle between 1-day, 7-day or 30-day summaries. Review your Moves score, total steps, aerobic steps, calories burned, active time, idle time and daily goal percentage. Access from the Sleeptracker 24/7 Home Page by selecting Steps. Turn ON Background Step Count from Settings > General > Background Step Count Steps to track daily steps.¹

1 Required for iPhone 5 devices.

2 The Move score is a value from 1 to 100 and is calculated using several data points. The total number of steps taken, the number of aerobic steps taken and the number of hours in the day you were moving all factor into your score.

3 Active time is defined by periods of time during which several steps are taken. Activities such as yoga and weightlifting typically will be counted as idle time.

4 Even while sedentary or sleeping, your body burns calories. Calories burned may be displayed as a combination of your BMR (basal metabolic rate) and your activity level, configurable in Settings > General.
8. Record Activity

Record walks, jogs or runs. This is different from Daily Steps which Sleeptracker 24/7 automatically monitors all-day if enabled (see Section 7 on Daily Steps). Recorded activities also count towards your daily steps total.

Activity Recorder Stopwatch

**Avg. Cadence:** Average number of steps taken per minute

**Coach:** Access and update the voice coach settings at any time during your recording

**Calories:** Based on the number of steps, cadence and personal information such as height, weight, age and gender

Swipe the bottom half of the display right-to-left to see a bar chart showing steps vs. time
Recorded Activity Summary

- Touch to edit the name of the recording
- Slide the graph side-to-side to see the entire timeline.

**Walk 1**

- Steps: 1,906
- Elapsed Time: 21:13
- Step Calories: 80
- Distance (m): 0.96
- Date: 10/16/17
- Avg Cadence: 89
9. Share

Share your sleep recordings, daily steps and recorded walks with friends and family to show your progress, to help motivate them to sleep better and to be more active.

Share your sleep and/or activity from today or yesterday, or share a summary from the last seven days or the last 30 days. Share via email, Twitter or export a CSV file containing all sleep and daily steps data.

**My Sleep:** Share your sleep recording from today or yesterday, or 7-day or 30-day average and trend chart.

**My Daily Steps:** Share activity from today or yesterday, or select a summary with a 7-day or 30-day average and trend chart.

**My Walks:** Share a recorded walk from your Walk Log.

**Export CSV File:** Export all sleep and daily steps data in CSV (comma-separated value) format.

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1 Sharing via CSV export is useful to maintain a history of your sleep and activity locally on your computer, so if anything happens to your iPhone, or if you upgrade to a new device, your data is preserved.
10. Settings

Configure Sleeptracker 24/7 application preferences from the Settings page.

Sleep Settings

This Page mirrors the second Record Sleep page when starting a Sleep Recording. See Section 2 of the manual for details.

Optimize Position

Use the Optimize Position test to ensure your device is positioned properly for recording sleep with your device on the mattress. Proper placement will increase accuracy.

NOTE: Placing your device on a solid surface such as the floor or a table while recording sleep causes 24/7 to become highly sensitive to very small movements. This level of sensitivity is required for users sleeping on a very firm or motion-absorbing mattress (such as Tempur-Pedic®). However, with the iPhone on the floor or table, noise from the accelerometer sensor can be registered as sleep cycles resulting in a random sleep graph and random sleep statistics.

Ensure that you place your iPhone according to the instructions, either in bed or in an armband, so that Sleeptracker 24/7 can accurately monitor your sleep and wake you up at the optimal time.

General Settings

- **Units:** Select preferred units for distance, height, and weight.
- **Sounds:** Turn button sounds on or off. This only affects button sounds and not other sounds (e.g. alarm, voice coach) made by the app.
- **BMR Calories:** Turn on basal metabolic rate (BMR) calories to include the calories your body burns at rest in the Calories field on the Daily Steps page. Turn this setting off if you only want to see calories you’ve burned from the steps you take.
- **Share sleep logs anonymously:** Help us improve the accuracy of Sleeptracker 24/7 by sharing your sleep logs anonymously.
- **Personal Information:** Enter your gender, height, weight, and age for greater accuracy in determining the distance traveled and calories burned when you walk, jog or run.
- **Background Step Count:** On the iPhone 5S, 6, 6+, 7, 7+, 8 and 8+, Sleeptracker 24/7 Standalone Monitor uses Apple’s motion co-processor without additional battery consumption. For iPhone 5 devices:
General Settings (continued)

24/7 Background Step Count OFF: The 24/7 Background Step Counter is off.
24/7 Background Step Count ON: Monitor your daily steps while the app is running or while the app is in the background.

Goals

See section 5 of the user manual for details.

Voice Coach

Activate the voice coach to hear audible feedback while you are recording timed walks. Select to hear progress updates for steps, time, calories, and/or distance. The voice coach trigger is based on either number of steps taken or elapsed time.

Reset

**Reset Calibration:** Reset all calibration history.

**Restore Help Pages:** Restore the in-app help pages if you chose to not show them again (these pages are shown by default the first time you use the app).

**Delete Snore Recordings:** Delete your entire log of snore recordings.

**Restore to Factory Settings:** Delete all data and restore to factory settings.
If you are using Sleeptracker 24/7 with an iPad or iPod touch, please be aware of the following considerations:

- iPads and iPod touches do not have a proximity sensor, so placing your device face-down on the mattress during sleep recordings will not turn the display off.
- iPads and iPod touches do not contain a vibrate motor, so the Get Active Alerts will be issued via audible notifications only.
- The iPod touch does not support heart rate monitoring.
12. FAQ

**Q: I have an iPhone 5S or later but the Sleeptracker 24/7 App is not being populated with motion activity data from the Apple motion co-processor — why is this?**

Ensure you have enabled motion activity access for Sleeptracker 24/7 from iPhone Settings > Privacy > Motion Activity.

**Q: Why is Sleeptracker 24/7 asking for permission to use the microphone?**

Sleeptracker 24/7 uses the microphone for sleep analysis and to help the app record your sleep throughout the entire night in the background. The only time Sleeptracker 24/7 actually records audio is when snore recording is turned on and sleep sounds are detected. These sleep sound files are stored on your iOS device so you retain complete privacy. You can still use the app without providing access to the microphone but sleep monitoring accuracy and alarm reliability will decrease. To change your microphone permissions for Sleeptracker 24/7, open your iPhone’s settings and go to Privacy > Microphone.

**Q: Has a clinical trial been performed comparing the non-invasive Fullpower Sleeptracker technology to a typical polysomnogram?**

Yes, a clinical trial comparing Sleeptracker technology (the sleep monitoring technology in Sleeptracker 24/7) to a typical polysomnogram can be viewed [here](#).

**Q: After upgrading Sleeptracker 24/7 from a prior version, my alarm settings seem strange. How can I ensure my alarm will go off at the correct time?**

If you see issues with your alarms, the best method is to delete all existing alarms and create new ones.
To do this, from the Record Sleep page, select the Alarm section to see a list of your current alarms.
Delete any existing alarms by pressing the Edit button, then touch the "Minus" icon followed by the Delete button. Now add a new alarm using the "Plus" button.

**Q: How do I change my alarm settings such as sound, etc?**

To create or edit an alarm, go to the Record Sleep/Snore page, select the Alarm section and either select + to add an alarm or select Edit, then choose an existing alarm. Configure the alarm details such as time, window, days of the week to repeat, alarm volume, alarm sound, vibration duration and Global Alarm Snooze.

**Q: Does Sleeptracker 24/7 Standalone Monitor work on a Tempur-Pedic® mattress?**

Yes, Sleeptracker 24/7 works on any mattress when your iPhone or iPod touch is positioned correctly.
Use the audible in-app placement test to help. Go to Settings > Optimize Position and follow the instructions.
Q: How do I know where to put my iPhone in bed for best accuracy?
To help optimize the placement of your iPhone in bed, use the audible in-app placement test. Go to Settings > Optimize Position and follow the instructions on the page. Ideal placement depends on your mattress and pillow type.

Q: Does Sleeptracker 24/7 Standalone Monitor work when sharing a bed with your spouse?
Yes, Sleeptracker 24/7 works well even with two people in bed. Place your iPhone on the outside edge of your bed. Use the in-app audible placement test to check the sensitivity level and to ensure your iPhone is in the optimal position.

Q: My iPhone was on the floor or table while recording sleep, so why do I see sleep data?
Placing your iPhone on a solid surface such as the floor or a table while recording sleep causes Sleeptracker 24/7 to become highly sensitive to very small movements. This level of sensitivity is required for users sleeping on a very firm or motion-absorbing mattress (such as Tempur-Pedic®). However, with the iPhone on the floor or table, noise from the accelerometer sensor can be registered as sleep cycles resulting in a random sleep graph and random sleep statistics.
Ensure that you place your iPhone according to the instructions, either in bed or in an armband, so that Sleeptracker 24/7 can accurately monitor your sleep and wake you up at the optimal time.

Q: Why doesn’t the alarm fire when my iPhone is plugged into a charger?
The Smart Sleep Cycle Alarm will fire when your iPhone or iPod touch is connected to an Apple branded charger.
Some 3rd party USB iPhone cables prevent the iPhone from playing sounds. If you charge your iPhone while recording sleep, please ensure you are using the Apple branded USB cable that came with your iPhone or iPod touch. If you use a 3rd party cable, check that your iPhone can still play sounds when it is plugged into power with that cable.

Q: How can I make the App count my daily steps in the background?
The iPhone 5S or later records your daily steps in the background or even when Sleeptracker 24/7 is not running automatically using the iPhone's built-in motion processor.
To count steps while backgrounded with the iPhone 5, turn on the Background Step Count button from the + button under Steps>Record Steps. Your iPhone’s location services must also be turned on in order for Sleeptracker 24/7 to access the accelerometer sensor when backgrounded or screen-locked. Find location services in iPhone Settings > Privacy > Location Services.
If you reboot your iPhone (power it off and back on), re-launch Sleeptracker 24/7 to continue monitoring your steps in the background. All apps are shut down when you reboot your iPhone.

Q: How do I position my iPhone in bed for best accuracy?
In the App, go to Menu > Settings > Optimize Position. Ideal placement depends on your mattress and this will help you optimize. Follow the on screen directions.

Q: How are calories calculated in Sleeptracker 24/7 Standalone Monitor?
Even when you are sedentary or sleeping, your body burns calories; this is known as BMR (basal metabolic rate) calories. The default setting for calories burned is a combination of your BMR and your activity level. Your height, weight, age, and gender influence these values. From Settings > General you may specify whether to include BMR calories or focus just on calories based on your activity.
Q: What are aerobic steps?
Steps are considered aerobic steps when you walk, jog, or run at a cadence of at least 60 steps per minute for 5 minutes or longer.

Q: How do I review my activity for specific times throughout the day?
From the home page, select the Moves progress arrow. The graph on the Activity Logbook page provides an overview of your daily activity. To view your progress at a specific time, press and hold on the graph and move your finger left to right. Your steps will display at the top of the screen for specific times throughout the day.

Q: Does the iPhone need to be plugged in during a sleep recording?
In general a fully charged iPhone should have plenty of battery capacity to run the sensors used to monitor you sleep throughout the night. For older iPhones with less battery capacity, you can opt to plug in your iPhone and place it on your mattress. To conserve battery, place the iPhone screen-down so the proximity sensor can turn the screen off to reduce battery consumption.

Q: I'm having trouble hearing the voice coaching. Do you have any tips?
From the Voice Coach settings page (Settings > Voice Coach), scroll to the bottom and turn up the Master Volume and the Relative Voice Volume. The Relative Voice Volume adjusts the volume of the voice updates relative to your iPod music.

Q: Why doesn’t the proximity sensor work to turn off the screen when using the ‘Use Armband’ sleep option?
Due to the variety of armband styles, we’ve found the proximity sensor may not properly turn off the screen or could result in flickering. The proximity sensor is active when recording sleep with the ‘On Bed’ option.

Q: Why are my “Get Active” Alerts not working?
Check the time settings on your Get Active alerts. You can find these in Menu > Goals. Also, 24/7 Step Count must be turned ON in the main Menu for Sleeptracker 24/7 Standalone Monitor to monitor your daily steps. For Sleeptracker 24/7 to monitor your steps in the background, you must enable Location Services in the iPhone’s settings.

Q: On the sleep graph, how much time is represented by each bar on the graph?
Each bar represents 5 minutes of time.

Q: "What does the Sleep Score represent?"
A. The sleep score is a value from 1 to 100 based on a number of factors. Your sleep efficiency, total sleep duration compared to the number of recommended hours of sleep, the ratio of deep to light sleep and the number of times you awoke during the night all contribute to your score. Your daily sleep tips are customized for you based on your sleep recording and sleep score.

Q. "What does the Move Score represent?"
A. The move score is a value from 1 to 100 and is calculated using several data points. The total number of steps taken, the number of aerobic steps taken and the number of hours in the day you were moving all factor into the score. Your daily move tips are based on your previous day’s move score.