

# Package ‘NoSleepR’

November 24, 2025

**Title** Prevent System Sleep During Long R Tasks

**Version** 0.2.0

**Description**

Provides a cross-platform interface to prevent the operating system from going to sleep while long-running R tasks are executing.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**BugReports** <https://github.com/hetalang/NoSleepR/issues>

**URL** <https://github.com/hetalang/NoSleepR>

**Depends** R (>= 3.5.0)

**NeedsCompilation** yes

**Author** Evgeny Metelkin [aut, cre]

**Maintainer** Evgeny Metelkin <evgeny.metelkin@gmail.com>

**Repository** CRAN

**Date/Publication** 2025-11-24 09:40:12 UTC

## Contents

NoSleepR . . . . .	2
nosleep_off . . . . .	3
nosleep_on . . . . .	3
with_nosleep . . . . .	4

<b>Index</b>	<b>6</b>
--------------	----------

---

NoSleepR

*NoSleepR: Prevent system sleep during long R tasks*

---

## Description

NoSleepR exposes a tiny, cross-platform API that temporarily disables system sleep while your R script performs a long-running operation. The package delegates to the native inhibition mechanisms shipped with each platform (Win32 power requests, caffeinate, or systemd-inhibit) and automatically tears them down once you are done.

## Details

### Core helpers

- `nosleep_on()` — establish a sleep-prevention request and keep the handle alive for as long as the work runs.
- `nosleep_off()` — release a specific handle or clear all active ones when called without arguments.
- `with_nosleep()` — wrap a code block so that NoSleepR turns itself on before the block executes and reliably shuts down after it completes or errors.

All helpers accept the optional `keep_display` flag, allowing you to request that the monitor stays on (when supported by the OS) in addition to the system-wide sleep prevention.

## Typical workflow

1. Call `nosleep_on()` (optionally with `keep_display = TRUE`) right before a long computation or data transfer.
2. Run the expensive task.
3. Explicitly stop the request with `nosleep_off()` as soon as the work finishes, or rely on `with_nosleep()` to bracket the code block.

NoSleepR automatically cleans up pending requests when the R session ends, but it is still best practice to explicitly call `nosleep_off()` so that the operating system can resume managing power immediately after the protected job completes.

## Author(s)

**Maintainer:** Evgeny Metelkin <evgeny.metelkin@gmail.com>

## See Also

<https://github.com/hetalang/NoSleepR>

---

nosleep_off	<i>Turn nosleep off</i>
-------------	-------------------------

---

**Description**

Turn off a specific nosleep request or, if no handle is supplied, every active request opened by the current R session.

**Usage**

```
nosleep_off(handle)
```

**Arguments**

handle	Optional "NoSleepR_handle" object returned by nosleep_on(). If omitted, all active nosleep handles created in this session are turned off. Passing NULL is treated as a no-op.
--------	--

**Value**

Invisibly returns NULL.

**Examples**

```
## Not run:  
h <- nosleep_on()  
# ... do work ...  
nosleep_off(h)  
  
# Equivalent shortcut to clear everything  
nosleep_on()  
nosleep_on()  
nosleep_off()  
  
## End(Not run)
```

---

nosleep_on	<i>Turn nosleep on</i>
------------	------------------------

---

**Description**

Prevent the operating system from suspending or putting the display to sleep while long-running R work is executing.

**Usage**

```
nosleep_on(keep_display = FALSE)
```

**Arguments**

`keep_display` logical. If TRUE, also prevent the display from powering off (when supported by the underlying OS). Default is FALSE.

**Details**

The returned handle must stay alive for as long as you want the nosleep request to remain in effect. Call `nosleep_off()` with the handle to release the underlying system resource as soon as the protected work is complete.

If no backend is available for the current platform (e.g., missing dependencies), a warning is issued and invisible NULL is returned.

**Value**

An object of class "NoSleepR\_handle" that stores the active nosleep request for the current platform. Invisible NULL is returned when the request could not be established.

**Examples**

```
# Simple usage
## Not run:
nosleep_on()
long_running_job()
nosleep_off()

# Handle-based usage
h <- nosleep_on()
long_running_job()
nosleep_off(h)

# Keep the display awake as well (when supported)
h <- nosleep_on(keep_display = TRUE)
Sys.sleep(100) # simulate long job
nosleep_off(h)

## End(Not run)
```

---

with\_nosleep

---

*Execute an expression while preventing the system from sleeping*


---

**Description**

Helper that automatically brackets an expression with `nosleep_on()` and `nosleep_off()`.

**Usage**

```
with_nosleep(expr, keep_display = FALSE)
```

**Arguments**

`expr`                    Expression to execute while nosleep is on.  
`keep_display`        logical. If TRUE, also prevent the display from sleeping.

**Value**

The result of evaluating `expr`.

**Examples**

```
## Not run:  
with_nosleep({  
  message("Downloading a large file. . .")  
  download_large_file()  
})  
  
## End(Not run)
```

# Index

`nosleep_off`, [3](#)  
`nosleep_off()`, [2](#)  
`nosleep_on`, [3](#)  
`nosleep_on()`, [2](#)  
`NoSleepR`, [2](#)  
`NoSleepR-package (NoSleepR)`, [2](#)

`with_nosleep`, [4](#)  
`with_nosleep()`, [2](#)