



# Screen Lock 1.0

## USER MANUAL

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Lock the workstation during breaks. Screen Lock covers your screens with an always-on-top overlay, blocks the usual ways out to Windows, and only releases on your PIN — or on command from your control surface over OSC. Built for live shows, museums and AV control rooms.



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# 1 Introduction

Screen Lock is a lightweight Windows tray application that locks an unattended workstation during a coffee break or lunch. While locked it covers the chosen monitors with an always-on-top overlay, blocks the usual keyboard shortcuts that lead back to the desktop, and only releases when the correct **PIN** is entered — or when an authorised **OSC** command is received.

It is designed for live shows, museums, exhibitions and AV control rooms, where a machine must be left running but protected from curious hands. It needs no .NET installation, runs entirely from the system tray, and starts a lock in one keystroke.

## Key features

- ▶ **Tray application** — lives in the system tray; no taskbar clutter.
- ▶ **PIN unlock** — set on first run, stored only as a salted hash. On-screen keypad and keyboard entry.
- ▶ **Multi-monitor** — lock every screen, or pick specific monitors.
- ▶ **Custom lock image** — show your own full-screen background while locked.
- ▶ **System-key blocking** — Windows key, Alt+Tab, Alt+Esc, Ctrl+Esc, Ctrl+Shift+Esc and Alt+F4.
- ▶ **Global hotkey** — lock instantly (default **Ctrl + Alt + L**).
- ▶ **OSC control** — lock and unlock remotely from a show controller such as Bitfocus Companion.
- ▶ **Start with Windows** and optional Task-Manager lock-down while locked.

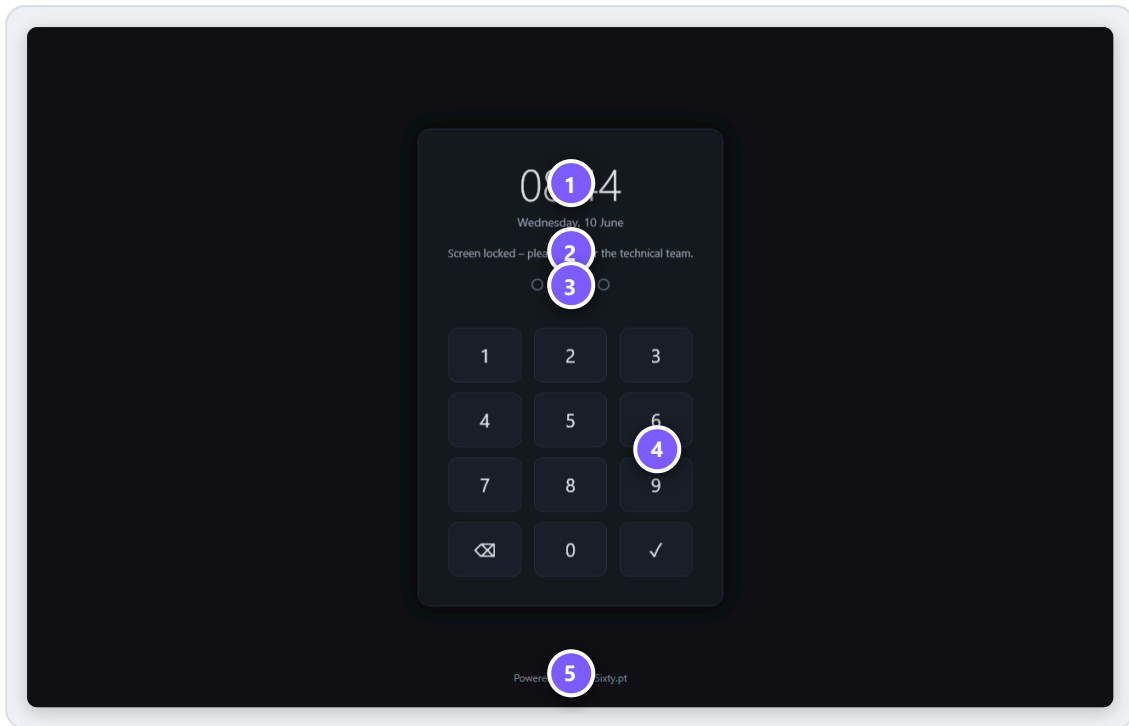




Figure 1.1 — The lock screen, shown on the primary monitor.

- 1 **Clock & date** — a live clock so the operator can see the screen is alive.
- 2 **Lock message** — your custom text (set in Settings).
- 3 **PIN indicator** — one dot per digit entered.
- 4 **Keypad** — tap digits,  to backspace,  to confirm.
- 5 **Branding** — the “Powered by ThreeSixty.pt” overlay, shown on every locked screen.

## 2 Installation & First Run

Screen Lock ships as a standard Windows installer. Everything it needs is bundled — there are no prerequisites to install separately.

### Installing

1. Double-click `Screen Lock 1.0 Setup.msi`.
2. Approve the Windows **User Account Control** prompt (the installer copies files to Program Files).
3. Screen Lock is installed to `C:\Program Files\Three Sixty\Screen Lock`, with a **Desktop** shortcut and a **Start Menu** shortcut.

#### NO PREREQUISITES

The application is self-contained: the .NET runtime is built into the program, so it runs on any Windows 10 or Windows 11 (64-bit) PC with nothing else to install.

### First run — create your PIN

The first time Screen Lock starts it asks you to create an unlock **PIN**. This step is required: a lock with no PIN cannot protect the machine, so if you close the dialog without setting one, the app simply exits.

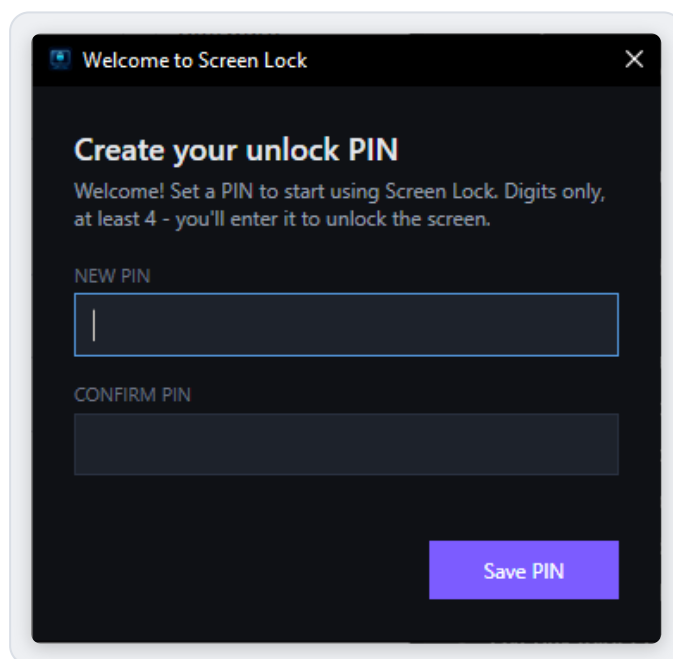


Figure 2.1 — The first-run “Create your unlock PIN” dialog.

- The PIN is **digits only** and at least **4** digits long.
- Type it again in **Confirm PIN** and click **Save PIN**.
- The PIN is never stored in clear text — only a salted PBKDF2–SHA256 hash is saved.

After the PIN is set, Screen Lock starts in the system tray and is ready to use. You can change the PIN at any time from **Settings** (Chapter 5).

## 3 Locking the Screen

Screen Lock runs quietly in the system tray. There are three ways to start a lock.

### From the tray

Find the padlock icon in the Windows notification area (next to the clock; you may need to click the “show hidden icons” arrow). You can:

- **Double-click** the tray icon to lock immediately, or
- **Right-click** it and choose **Lock now**. The same menu has **Settings...**, **About** and **Exit**.

### With the hotkey

Press the global lock hotkey — by default **Ctrl + Alt + L** — from anywhere in Windows to lock instantly. The hotkey is configurable in Settings.

### Over OSC

A control surface can send an OSC message to lock the screen. See Chapter 6.

### What is blocked while locked

While the screen is locked, the overlay stays on top of everything and the following keyboard shortcuts are intercepted so the user cannot reach the desktop or other apps:





Shortcut	Normally does
<b>Win</b>	Opens the Start menu / Win+key combinations
<b>Alt + Tab</b>	Switches between applications
<b>Alt + Esc</b>	Cycles windows
<b>Ctrl + Esc</b>	Opens the Start menu
<b>Ctrl + Shift + Esc</b>	Opens Task Manager
<b>Alt + F4</b>	Closes the active window

#### IMPORTANT — CTRL+ALT+DEL AND WIN+L

Windows reserves **Ctrl + Alt + Del** and **Win + L** for the operating system (the Secure Attention Sequence). **No application can intercept these.** For extra protection you can block Task Manager while locked — see Chapter 7.

## 4 Unlocking

To release the lock, enter your PIN on the panel shown on the primary monitor (Figure 1.1).

- Tap the on-screen **keypad**, or simply type the digits on the keyboard.
- Each digit adds a dot to the **PIN indicator**.
- Press  (or ) to correct a digit.
- Press  (or ) to confirm.

If the PIN is correct, every locked screen closes at once and you are back at the desktop. If it is wrong, the panel shakes, shows “*Incorrect PIN*”, and clears so you can try again. There is no limit on attempts and no way to dismiss the lock without the PIN (or an authorised OSC unlock).

### TIP

The lock can also be released remotely over OSC, which is handy if an operator forgets the PIN during a live show. This can be disabled for higher security — see Chapters 6 and 7.

## 5 Settings

Open **Settings...** from the tray menu. Settings are organised into a **Settings** tab and an **About** tab.

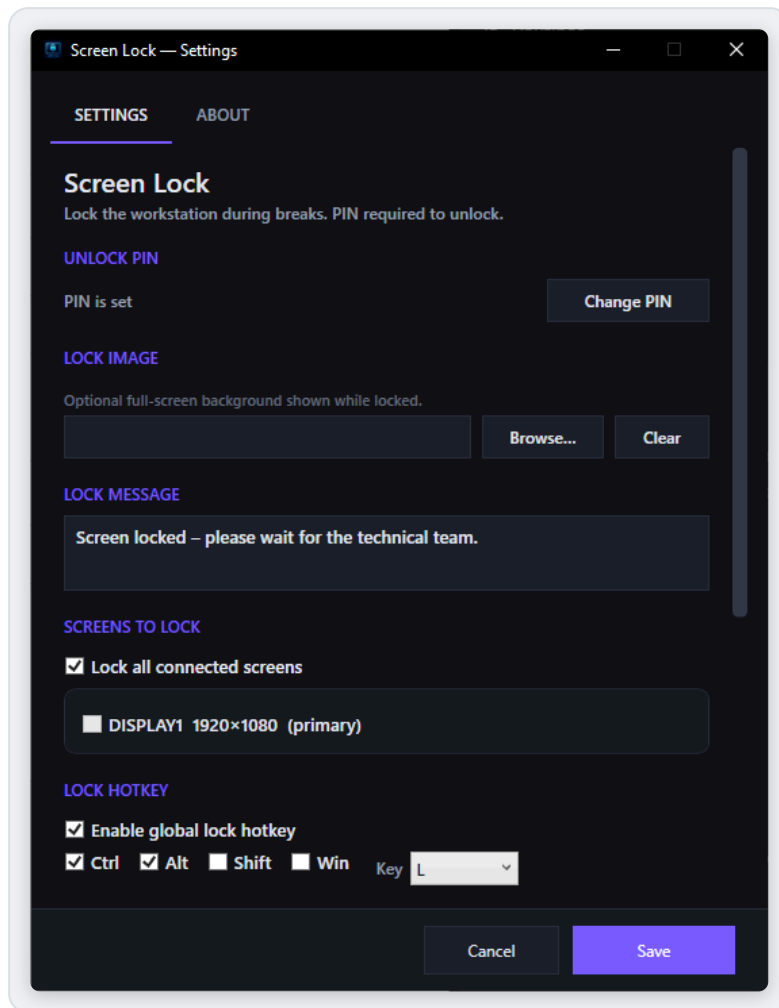


Figure 5.1 — The Settings window.

### Unlock PIN

Shows whether a PIN is set and lets you **Change PIN**. Changing the PIN opens the same dialog as first run; the new PIN takes effect when you click **Save**.

### Lock image

Optionally choose a full-screen background image shown while locked (your logo or a wallpaper). Use **Browse...** to pick a PNG/JPG, or **Clear** to remove it. With no image, the lock screen uses a clean dark background.

### Lock message

The text shown under the clock on the lock screen — for example *“Screen locked — please wait for the technical team.”*

## Screens to lock

Tick **Lock all connected screens** to cover every monitor (recommended for a true lock-out). Untick it to choose specific monitors from the list below.

### MULTI-MONITOR

If you lock only one screen, the other monitors stay clickable. For an unattended machine, locking all screens is strongly recommended.

## Lock hotkey

Enable or disable the global lock hotkey and choose the combination — any of **Ctrl**, **Alt**, **Shift**, **Win** plus a key. The default is **Ctrl** + **Alt** + **L**.

## OSC control

Enable the OSC listener, set the UDP **port** (default **9000**), and customise the lock/unlock addresses. **Allow remote unlock** controls whether OSC may unlock the screen. See Chapter 6 for the command reference.

## Security & startup

- |                      |   |
|----------------------|---|
| Disable Task Manager | When ticked, Task Manager is blocked while the screen is locked, and re-enabled automatically on unlock or exit. Useful against the Ctrl+Alt+Del route. |
| Start with Windows   | Launches Screen Lock automatically when you sign in.  |

## About

The **About** tab shows the version and support contact.

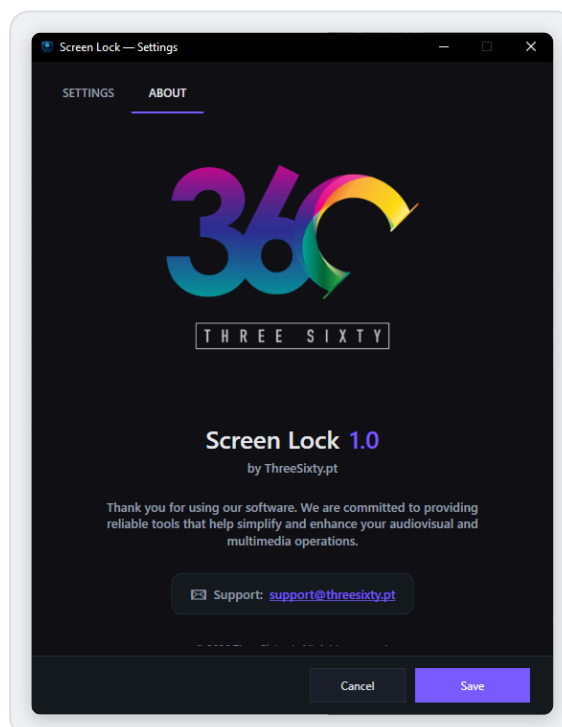


Figure 5.2 — The About tab.

## 6 OSC Remote Control

When the OSC listener is enabled (Settings → OSC), Screen Lock receives OSC messages over UDP and can lock or unlock on command — ideal for driving it from a show controller such as Bitfocus Companion.

### Command reference

Address	Effect
<code>/screenlock/lock</code>	Lock the screen now.
<code>/screenlock/unlock</code>	Unlock — only if <b>Allow remote unlock</b> is enabled.

No arguments are required. The addresses and the listening port are configurable in Settings; the defaults are shown above with port `9000`.

#### COMPANION EXAMPLE

Add a *generic* OSC instance in Bitfocus Companion pointing at the PC's IP address and port `9000`, then create buttons that send `/screenlock/lock` and `/screenlock/unlock`.

#### SECURITY

OSC has no authentication. If remote unlock is enabled, anyone who can reach the port on your network can unlock the screen. On untrusted networks, leave **Allow remote unlock** off so the PIN stays mandatory.

## 7 Security Notes

Screen Lock blocks the everyday ways out of a locked screen, but it is an application running as the signed-in user — not a replacement for the Windows lock screen. Understanding the limits helps you deploy it well.

### What cannot be blocked

Windows handles `Ctrl + Alt + Del` and `Win + L` in the operating system kernel (the *Secure Attention Sequence*). No user application can intercept them. From the Ctrl+Alt+Del screen a user could open Task Manager and close the app.

### Closing the gap

- Enable **Disable Task Manager while locked** (Chapter 5). This blocks Task Manager — including from the Ctrl+Alt+Del screen — and is always reverted on unlock or exit.
- For a fully tamper-proof kiosk, combine Screen Lock with Windows policies such as **Assigned Access** or a custom shell. That is an operating-system configuration, outside the scope of this application.

### Where settings are stored

Configuration is saved at `%AppData%\ScreenLock\settings.json`. The PIN appears there only as a salted hash, never in clear text.

## 8 Troubleshooting & Support

### Frequently asked questions

#### I forgot my PIN.

Use the **administrator recovery code** (see below) to unlock and set a new PIN. If OSC remote unlock is enabled you can also unlock from your controller. As a last resort, an administrator can end the app via Ctrl+Alt+Del → Task Manager (unless that is disabled) and delete `%AppData%\ScreenLock\settings.json` to reset.

#### The lock hotkey does nothing.

Another application may have already registered the same combination. Choose a different hotkey in Settings → Lock hotkey.

#### OSC commands are ignored.

Check that the OSC listener is enabled, that the port matches your controller, and that no firewall is blocking inbound UDP on that port. For unlock, confirm **Allow remote unlock** is enabled.

#### A second monitor was still usable.

Enable **Lock all connected screens**, or add that monitor to the list in Settings → Screens to lock.

#### The first-run PIN dialog didn't appear.

A PIN is already saved on this machine. Use Settings → Change PIN, or delete `%AppData%\ScreenLock\settings.json` to start fresh.

### Administrator recovery code

Screen Lock includes a built-in master code so an administrator can always regain access if the PIN is lost. On the lock screen, **hold** `Shift` **and type** `ADMIN`. Nothing appears as you type; when the code is recognised the screen unlocks and the Settings window opens so you can set a new PIN.

#### KEEP THIS CONFIDENTIAL

The recovery code bypasses the PIN and is the same on every installation. Share it only with trusted technical staff.

### Getting help

For support, contact [support@threesixty.pt](mailto:support@threesixty.pt).