

IN-14/IN-8-2/Z573M/IN-8 Nixie Desktop Clock

Product manual

Version 1.19.10

2026

Thank you for purchasing a nixieshop.com clock!

Please read the following manual carefully to ensure you get the most out of your Nixie Clock.

Unboxing

All **nixieshop.com** clocks are shipped as carefully as possible to ensure safe delivery to you. In the unlikely event that the clock does arrive damaged, or if you have any questions at all about using the product, please contact me on petro.vodopyan@gmail.com.

Carefully remove the clock from the box when unboxing this product. The clock is protected with a plastic sleeve to secure tubes during shipping - the nixie tubes are installed into sockets, and should be handled with care. Sometimes tubes may require realignment after shipping - they all are in sockets and could be aligned by hand.

WARNING: Please note that this clock is for indoor use only.

Contents

Each package contains the following items:

1. Clock base with mounted Nixie tubes (tube types are specific to purchased model).
2. 12v 1A power adapter with 5.5mm X 2.1mm jack.
3. IR remote control.
4. Built in motion sensor module (based on Doppler radar).
5. Product manual.
6. Extension cable (2m) for 12v power supply.
7. Pair of spare neon dots.

Warranty

Nixieshop.com values your business and always attempts to provide you the very best quality of service. We provide lifetime warranty for electronics and two year warranty for tubes. The warranty applies only to the products manufactured by Nixie Shop.

The warranty covers burned out tubes (up to three), problems with the electronics of the clock. The warranty does not cover: 12V external power supply, damage of a product resulting from negligence; damage of a product resulting from unauthorized modification of the product; damage caused by natural disaster; theft or loss of the product.

Powering up

On the rear panel of the clock there is a power socket for 12V 2.1mm x 5.5mm power jack. Plugging in and turning on the power, the clock will perform a brief self-test to confirm its operational. The digits on the clock will scroll through from 0-9, and then the clock will make a short beep. Some of the tubes may take several seconds to "warm up" and stabilize after being off and may flicker (especially IN-8, IN-8-2 and IN-14 with fine anode grid).

Sleep mode

Setting the clock to use sleep mode can help to prolong the life of the Nixie tubes and save electricity. To enter the sleep mode the clock can use the built-in motion sensor (see the menu #23 and #24), the sleep timer (see the menu #20 and #21) and the IR button “*”. To disable the sleep timer - set the start value equal to the end value. Please note the sleep timer uses 24 hour format values. For best results the clock should also be set into 24H mode (see the menu #12). The IR remote overrides sleep timer; the sleep timer overrides the motion sensor – please remember these priorities when setting the clock up.

Settings and Adjustments

There are two ways to adjust the various settings of the clock:

1. The knob on the rear of the clock. Pressing it in once changes through the menu items, twisting it changes the values.
2. Using the IR remote control. The "OK" button acts as a menu button and changes the current menu setting, pressing the up/right arrows increases current value and down/left arrows decreases the values. The 0-9 buttons change the color scheme of RGB lights. The "*" acts as OFF button and the "#" button switches the clock ON.



Feedback

If you don't mind, please give us positive feedback at our **Trustpilot** profile or visit our **Facebook** group and leave a comment - it will help us to develop the project. Your feedback is always appreciated and welcome.

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Menu

The menu items on the next page are listed in the order that they will appear when going through them.

LED RGB Values

The clock has one RGB LED under each nixie tube. All colors are adjustable and can be set to a custom brightness.

1. LED Red color brightness (0 - 20 levels).
2. LED Green color brightness (0 - 20 levels).
3. LED Blue color brightness (0 - 20 levels).

Alarm Settings

4. Alarm mode: 1 - enable; 0 – disable (default).
5. Alarm start hour.
6. Alarm start minute.

WARNING: The clock will make a short beeping sound (on each second) once it reaches the set off time. To stop the alarm, rotate the knob.

General Settings

7. Colon tube modes. 0 — blink (default), 1 — permanently ON, 2 — permanently OFF, 3 — sensor status (sensor testing mode see #24, ON when detecting motion).
8. Beep once per hour, on the hour. (0 — disable; 1 — enable (default)).
9. Slot machine frequency (1 – 5. Value is the interval in minutes. 0 - disable. (1 - default)).
10. Spin changing numbers mode (0 — classic; 1 - scroll changing numbers (default); 2 — wave scrolling).
11. Animate RGB LED lights: 0 — none (default); 1 — linear; 2 — random.

Time/Date Settings

12. 12/24 hour mode. (0 — 24h mode (default); 1 — 12h mode).
13. Date display mode: 0 - DDMMYY; 1 – MMDDYY (default); 2 - YYMMDD.
14. Set hours (the clock will display current time with blinking hours - **HH**:MM:SS).
15. Set minutes (the clock will display current time with blinking minutes - HH:**MM**:SS).
16. Set seconds (the clock will display current time with blinking seconds - HH:MM:**SS**).
17. Set month (the clock will display current date with blinking days - DD:**MM**:YY).
18. Set day (the clock will display current date with blinking month - **DD**:MM:YY).
19. Set year (the clock will display current date with blinking year - DD:MM:**YY**).

Sleep Settings

20. Set sleep starting hour - the clock displays ZZ:**XX**:YY (where **XX** is the value of the sleep start hour).
21. Set sleep ending hour - the clock displays ZZ:XX:**YY** (where **YY** is the value of the sleep end hour).
22. Display date at the end of period defined in setting #9 (1 – enable (default); 0 - disable).
23. Timeout for motion sensor (options from 1-5) - sets delay time from ~1 minute and longer (1 default).
24. Activates built-in motion sensor (for versions 1.14 and later). (0 — disable (default); 1 — enable). Motion sensor is overridden by the sleep timer (if activated) or IR remote (if pressed OFF button).
25. Silent mode: 0 – disable (default); 1 - enable. Switches on/off the built-in buzzer.
26. Seconds display mode: 0 – normal (default); 1 – off (seconds are blanked); 2 – zeros (displays 00 constantly).
27. IR Remote active mode: 0 – disable (to avoid interference with 3d-party remotes like TV, AC – the clock will ignore all IR commands sent from any remote); 1 – enable (default).
28. Internal temperature in Celsius - system information (read only).
29. Firmware version (e.g. 29:01:21 for ver. 1.21).