



**IN-12 Nixie Desktop Clock**

**Product manual**

**Version 1.4**

# 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](mailto:petro.vodopyan@gmail.com).

Carefully remove the clock from the box when unboxing this product. The clock unit is protected with a plastic cover to secure tubes during shipping - the nixie tubes are installed into sockets, and should be handled with care.

**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.

## 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. Plugging in and turning on the power, the clock will perform a brief self-test to confirm it's operational. The digits on the clock will scroll through from 0-9, then the clock will beep once.

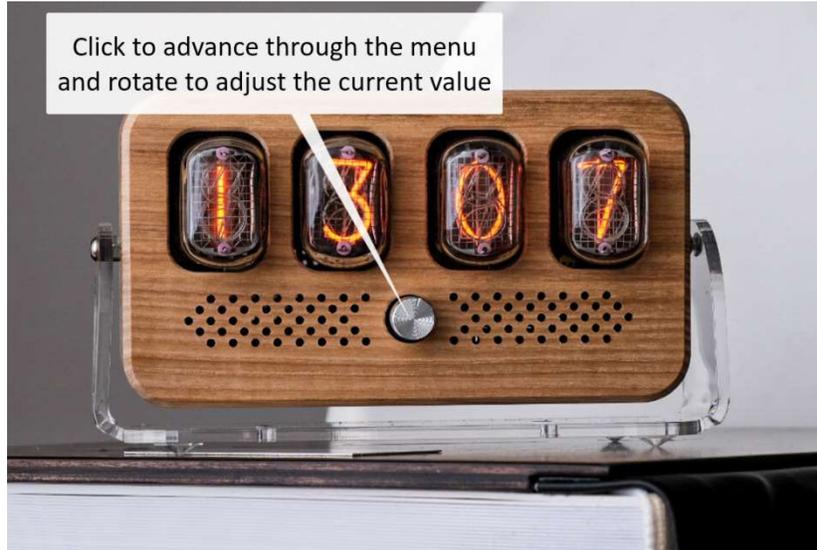
## Sleep mode

Setting the clock to sleep when not required can help to prolong the life of the Nixie tubes and save power. The sleep feature works using 24 hour time values. For best results the clock should also be set into 24H mode (menu option 12). To disable sleep feature - set start value equal to end value .

# Settings and Adjustments

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

1. The knob on the front side 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 changes 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 a 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 below are listed in the order that they will appear when going through them. Once you click the menu button the clock will switch into the edit mode – it will display setting number (**SN**) on the leading position and the current setting value (**SV**) on the last two numbers which will be blinking.

## 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. Red color brightness (0 - 40 levels).
2. Green color brightness (0 - 40 levels).
3. Blue color brightness (0 - 40 levels).

## Alarm Settings

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

**WARNING:** The clock will make short beep sound once it reaches the time. To stop the alarm rotate the knob.

## General Settings

7. Colon tube modes. 0 — blinks once a second (default), 1 — permanently ON, 2 — permanently OFF, 3 — sensor status (sensor testing mode see #23, ON when detects motion).
8. Beep once per hour, on the hour. (0 — disable (default); 1 — enable).
9. Slot machine frequency (1 – 5. Value is the interval in minutes. 0 - disable).
10. Spin changing numbers mode (0 — classic; 1 - scroll changing numbers; 2 — wave scrolling).
11. Animate RGB LED lights: 0 — none; 1 — linear; 2 — random.

## Time/Date Settings

12. 12/24 hour mode. (0 — 24h mode (default); 1 — 12h mode).
13. Set hours.
14. Set minutes.
15. Set seconds.
16. Set month.
17. Set day.
18. Set year.

## Sleep Settings

19. Set sleep starting hour - the clock displays ZZ:**XX**:YY (where **XX** is the value of the sleep start hour).
20. Set sleep ending hour - the clock displays ZZ:XX:**YY** (where **YY** is the value of the sleep end hour).
21. Display date at the end of period defined in setting #10 (1 - enable; 0 - disable).
22. Timeout for motion sensor (options from 1-5) - sets delay time from ~1 minute and longer.
23. Activates built in motion sensor (for versions 1.14 and later). (0 — disable (default); 1 — enable). Motion sensor also overrides the sleep timer (if activated).
24. Silent mode: 0 - disable; 1 - enable. Switches on/off buzzer.
25. Internal temperature in Celsius.
26. Firmware version.