

www.Kama-Labs.com

TANYA

(Assembly instructions and latest firmware you can find on my website)

Assembled my own hands 😊

Thanks for purchase!!!

Features:

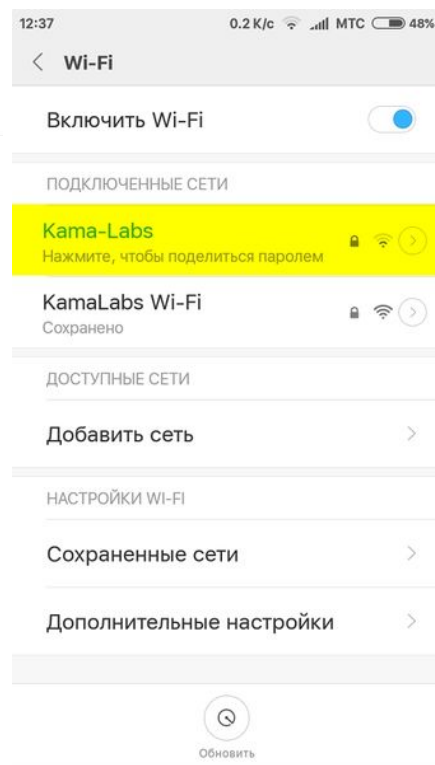
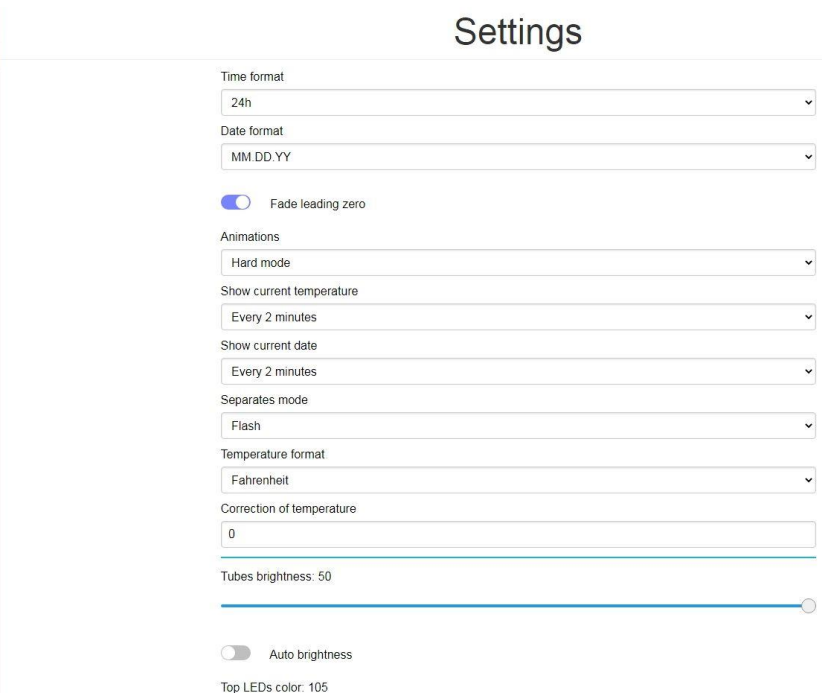
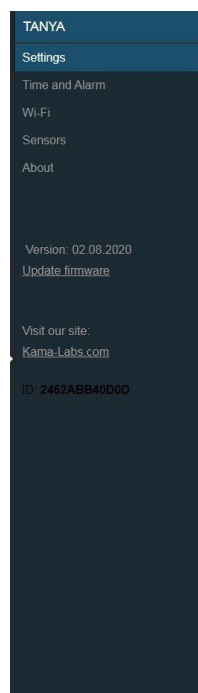
- * 6x Soviet IV-6 VFD tubes (made in 1992)
- * 2x Soviet IV-8 VFD tubes (made in 1994)
 - * Full remote control
 - * Full control of clock via Wi-Fi
 - * 32bit ESP32 processor
 - * 12/24h time mode
 - * Fade leading zero
 - * Wi-Fi connection to PC or smartphone
- * Synchronizing time and date from NTP server
 - * Over-the-air firmware update
- * High-precision onboard time chip DS3231
 - * High effective smooth routing of PCB
 - * 1 Alarm
- * IV-6 and IV-8 tubes work in static mode
- * Double Multicolour adjustable LED backlight
- * Automatic change color mode for top and bottom backlights
- * Temperature / humidity / pressure sensor
- * Automatic brightness of tubes using light-sensor
 - * 8 animations for digits
 - * Binary clock
- * Off clock at night by schedule
 - * Temperature C° or F°

- * Correction of temperature
- * Accurate to **+/- 1 minute/year**
- * Date in format **DD.MM.YY** or **MM.DD.YY** or **YY.DD.MM**
 - * Backup battery. Data is no lost when power off
- * Power source - DC 5V barrel plug 5.5mm/2.1mm ("+" inside, "-" outside) or **Micro-USB**
 - * Consuming current - 700mA
 - * Noiseless work
- * Dimensions of the clock in case - 145mm(W) x 84mm(L) x 75mm(H)

Dimensions of the clock - 135mm x 61mm x 60mm.

How connect to clock via Wi-Fi:

- 1) Turn on clock.
- 2) Connect to “Kama-Labs” Wi-Fi network via your smartphone or PC. Password: **nixieclock**
- 3) Open browser and go to “tanya.local” or 192.168.4.1 or scan QR-code.
- 4) You will see page with all setting of clock.



TANYA

Settings

Time and Alarm

Wi-Fi

Sensors

About

Version: 02.08.2020

[Update firmware](#)

Visit our site:

[Kama-Labs.com](#)

ID: 2462ABB40D0D

Time and Alarm

Local time

12:00

Local date

05.10.2019

Apply

Alarm

12:00

☒ Alarm ON/OFF

Night fading start

12:00

Night fading stop

12:00

☐ Night fading ON/OFF

Connecting to home Wi-Fi network:

The clock can connect to your home Wi-Fi network and synchronize time from NTP server. Also you will have access to clock from any device connected.

- 1) Go to “Wi-Fi” in menu
- 2) Fill fields “Name of Wi-Fi network” and “Password of Wi-Fi network” of your Wi-Fi network
- 3) In “Wi-Fi mode” choose “Internet connection”

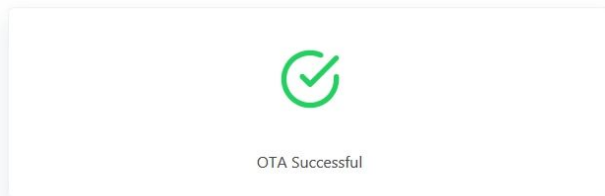
At now clock will connected to your Wi-Fi network.

If you will press “0” key on remote control clock will show status and IP-address. Also, to know IP address you can use “**Network Service Discovery**” app from PlayStore.



How to update firmware:

- 1) Go to https://kama-labs.com/manuals_and_firmwares and check for new firmware version. Current version you can see here:
- 2) Click "Update firmware" link
- 3) Choose file with firmware
- 4) Click "Update". Done!



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How to use remote control:

Button	Action
OK	Show message
◀ ▶	Next animation of digits
▲ ▼	Change brightness of tubes
1	
2	Show alarm
3	Show humidity
4	Show temperature
5	Show date
6	On/off alarm
7	Brightness of bottom LEDs
8	Turn off LEDs and tubes (clock still works)

9	Brightness of top LEDs
0	Wi-Fi status
*	Change brightness of top LEDs
#	Change color of top LEDs
9 + 1	Set Wi-Fi mode as internet connection
9 + 2	Set Wi-Fi mode as Access point
9 + 3	Reset all settings
9 + 5	Tube test mode

Look at backside of clock and there you will see orange LED. It show Wi-Fi status of clock:

- LED not glow – the clock connected to you home Wi-Fi network;
- LED blink fast – the clock try connect to you home Wi-Fi network;
- LED blink slow – the clock in Access Point mode.

