www.Kama-Labs.com

THYRATRON

(Assembly instructions and latest firmware you can find on my website)
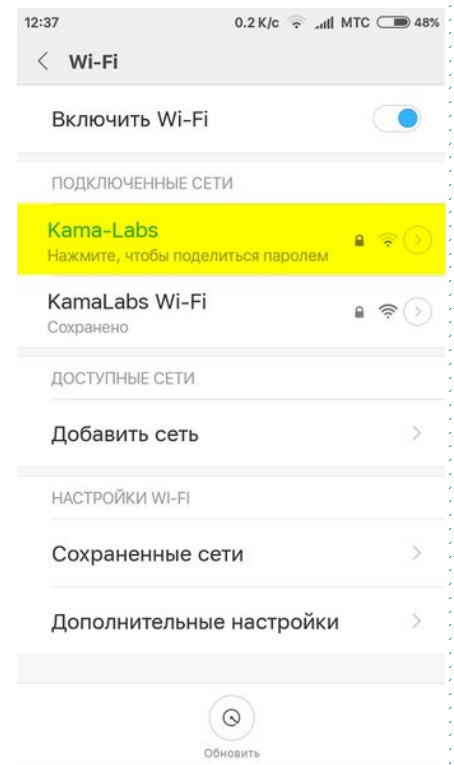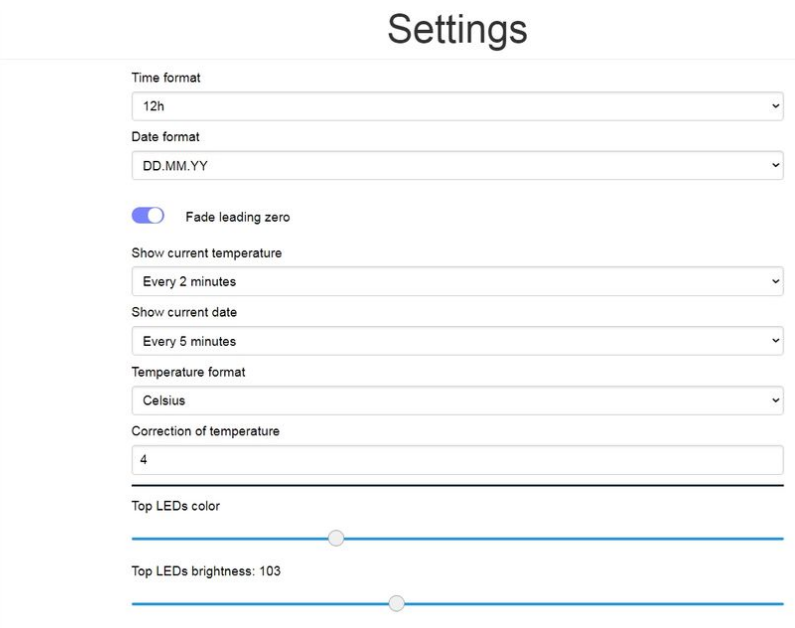
Assembled my own hands ☺

Thanks for purchase!!!

Features:

* 6x Soviet ITS1-A thyratron tubes (made in 1984)
* 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
* Thyratron tubes work in static mode
* Multicolour adjustable LED backlight
* Automatic change color mode for LED backlight
* Temperature / humidity / pressure sensor
* 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 - 180mm(W) x 50mm(L) x 60mm(H)

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 "irina.local" or 192.168.4.1 or scan QR-code.
4) You will see page with all setting of clock.

IRINA

Settings
Time and Alarm
Wi-Fi
Sensors
About

Version: 01.04.2021
Update firmware

Visit our site:
Kama-Labs.com

ID: C44F3364346A

Settings

Time format

12h

Date format

DD.MM.YY

Fade leading zero

Show current temperature

Every 2 minutes

Show current date

Every 5 minutes

Temperature format

Celsius

Correction of temperature

4

Top LEDs color

Top LEDs brightness: 103

12:37   0.2 K/c 🛜 .ıll MTC 🔋 48%

<   Wi-Fi

Включить Wi-Fi   ⬤

ПОДКЛЮЧЕННЫЕ СЕТИ

Kama-Labs   🔒 🛜 ⟩
Нажмите, чтобы поделиться паролем

KamaLabs Wi-Fi   🔒 🛜 ⟩
Сохранено

ДОСТУПНЫЕ СЕТИ

Добавить сеть   ⟩

НАСТРОЙКИ WI-FI

Сохраненные сети   ⟩

Дополнительные настройки   ⟩

Обновить

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
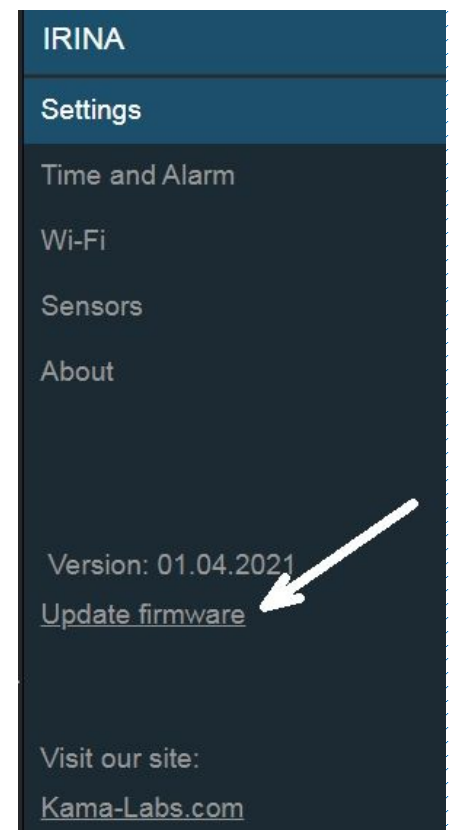
3) In "Wi-Fi mode" choose "Internet connection"

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!

IRINA
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ElegantOTA

OTA Successful

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How to use remote control:

Button	Action
OK	Tube test mode
◄	Set Wi-Fi mode as internet connection
►	Set Wi-Fi mode as Access point
▲ ▼	
1	Show pressure
2	Show alarm
3	Show humidity
4	Show temperature
5	Show date
6	On/off alarm
7	Change color LEDs
8	Turn off LEDs and tubes (clock still works)
9	Brightness of top LEDs
0	Wi-Fi status. Show IP address
*	
#	
9 + 3	Reset all settings

Look at back side 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.