www.Kama-Labs.com

TANYA

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

Assembled my own hands ☺

Thanks for purchase!!!
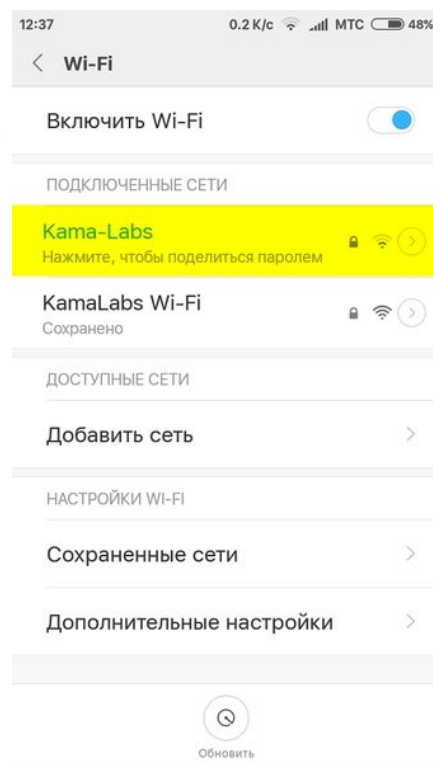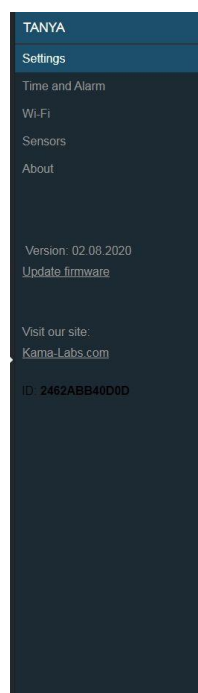
Features:

* 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

Settings

Time format
24h

Date format
MM.DD.YY

Fade leading zero

Animations
Hard mode

Show current temperature
Every 2 minutes

Show current date
Every 2 minutes

Separates mode
Flash

Temperature format
Fahrenheit

Correction of temperature
0

Tubes brightness: 50

Auto brightness

Top LEDs color: 105

12:37   0.2 K/c   МТС   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
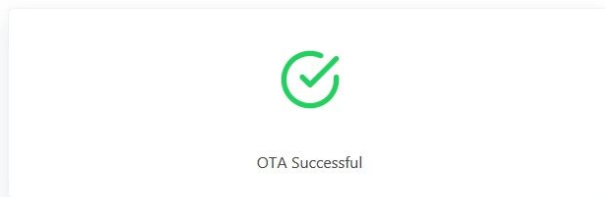3) In "Wi-Fi mode" choose "Internet connection"

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!

ElegantOTA

OTA Successful

If you like this Library, You can support the author at Patreon. Github Repo:
ElegantOTA

ANUTA

Settings

Time and Alarm

Wi-Fi

About

Version: 20.02.2020

Update firmware

Visit our site:
Kama-Labs.com

ID: B4E62DF6E52E

How to use remote control:

Button	Action
OK	Show message
◀ ▶	Next animation of digits
▲ ▼	Change brightness of tubes
1	
2	Show alarm
3	
4	Show temperature -> humidity -> pressure
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

High-precision time chip

Light sensor

Free ports

Reset button

Micro-USB

Power plug for 5V DC power adapter

ESP32 MCU

Wi-Fi status led

Buzzer

Diagnostic points

BME 280 sensor

Battery holder

IR receiver

VFD tube driver

IV-8 separator

clock-iv6v3

www.Kama-Labs.com

Made in Russia

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