www.Kama-Labs.com



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

Made my own hands 😉

Thanks for purchase!!!

Features:

* 24x Soviet IVLM1-1/7 VFD tubes (made in 1983) * 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 * Programmable scrolling line * High-precision onboard time chip DS3231 * Unique high effective smooth routing of PCB * 1 Alarm * IVLM 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 * 5 animations for digits * 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 12V barrel plug 5.5mm/2.1mm ("+" inside, "-" outside) * Consuming current - no more 800mA * Noiseless work * Dimensions of the clock - 222mm(W) x 54mm(L) x 95mm(H) * Dimensions of the clock in case – 250mm(W) x 75mm(L) x 110mm(H)

How connect to Anuta clock via Wi-Fi:

1) Turn on clock.

2) Connect to "Kama-Labs" Wi-Fi network via your smartphone or PC. Password: nixieclock
2) Open browner and go to "apute level" or

3) Open browser and go to "anuta.local" or

192.168.4.1 or scan QR-code.

4) You will see page with all setting of Anuta clock.



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Connecting to home Wi-Fi network:

Anuta 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
- 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.

How to update firmware:

1) Go to https://kama-

<u>labs.com/manuals_and_firmwares</u> 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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KamaLabs Wi-Fi						
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Access Point name						
Kama-Labs						
Access Point passwo	rd					
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Time zone GMT						
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If you like this Library, You can support the author at **Patreon**. Github Repo: ElegantOTA

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			

