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LADA v1

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

Assembled my own hands 😊

Thanks for purchase!!!

Features:

- * **IVL2-7/5** Russian VFD 4 digit display (made in 1990-93)
 - * 32bit STM32F100C8 processor
 - * 8 parameters
 - * 20 years lifetime of tubes
 - * 12/24h time mode
 - * 3 brightness levels *1
 - * Fade leading zero
 - * HH:MM or MM:SS time format
 - * Date in format **DD.MM.YY** or **MM.DD.YY**
 - * 7 modes of digits animations
 - * Accurate to **+/- 1 minute/year**
 - * Setup of clock accuracy
 - * Noiseless work
 - * Smooth PCB routing
 - * Full remote control
 - * **USB connection to PC** (for update firmware)
 - * Power source - DC **5V** Micro-USB
 - * Consuming current - 350mA

Dimensions of the clock - 30mm(L) x 20mm(H) x 70mm(W).

Dimensions of the clock in case - 80mm(L) x 80mm(W) x 95mm(H)

*1 works properly only when 3rd parameter set to 0

No	Parameter	Value
1	12/24 time format	0 - 12h time format 1 - 24h time format
2	Hi.Hour tube fading	0 - disable fading 1 - enable
3	Show time mode	0 - hard mode 1 - constructor 2 - smooth 3 - slot machine №1 4 - slot machine №2 5 - wave 6 – all effects one by one every 1 minute
4	Show current date	0 - off 1 - every 2 minutes 2 - every 5 minutes
5	Clock accuracy correction	0 .. 9 Bigger value - slowly clock
6	Date format	0 - DD.MM.YY 1 - MM.DD.YY
7	Brightness of display	0 .. 2
8	Work of separator dots	0 - off 1 – blink together 2 – blink one by one

How to use remote control?

Button	Action
OK	Enter/exit in parameters mode
◀ ▶	Next effect of switch time
▲ ▼	Change value
0	HH:MM or MM:SS time format
1	Time setup
2	Date setup
3	Show date
▲	Change brightness of tubes

- Use ◀ ▶ for change position in setup modes

- For change value you can use ▲ ▼ or use any number buttons

How to set time?

1) Press 1 key on remote for enter in time.

* Note: in time setup current time shows in 24h format only

2) Set hours

3) Press ► key for go to minutes setting

4) Press ► key again for set seconds

6) Seconds will reset to "00" if you will press ▲ key

7) Press ► key for exit from setting time mode

How to change settings?

1) Press OK for enter into menu

2) You will see number of parameter (1) and value of parameter

(0): 1_ : _ _ : _ 0

3) Press ▲ ▼ for changing value

4) Press ◀ ▶ for switch parameter

5) Press OK for exit.

How to set current date?

1) Press 2 key

2) You will see date in DD.MM.YY format

3) Use ▲ ▼ for changing value or use any number buttons

4) Press ◀ ▶ for switch position

How to make HARD RESET if something wrong?

When your clock starts, you will see firmware version. Something

like: 27 05

If you will press **OK key** in this moment, clock will reset all your setting. You will see long animation. That's mean HARD RESET is done.