

Menu for parameterization:

- Measurement should be active; if not: disconnect and reconnect to supply

Start with UPPER or LOWER keys on the back side of the module:

1. Resolution

UPPER selects next menu: IF-setting

LOWER toggles resolution 10Hz / 100Hz; then select with UPPER key > back to measurement

2. IF-setting

UPPER selects next menu: IF up/down

LOWER: To change IF setting it's necessary to change 1st digit (toggle through back to "0") even if you don't want to change it. Then you can change with LOWER and store all digits (each digit separately) as you want with UPPER.

After you changed all 6 digits with the last UPPER > back to measurement

3. IF-sign

UPPER selects next menu: Light intensity

LOWER toggles IF-sign between "u" and "n"

u: subtracts set IF; e.g. if set to 455kHz and input is 10.455MHz then 10.000 is indicated

n: adds set IF; e.g. if set to 455kHz and input is 9.545MHz then 10.000 is indicated

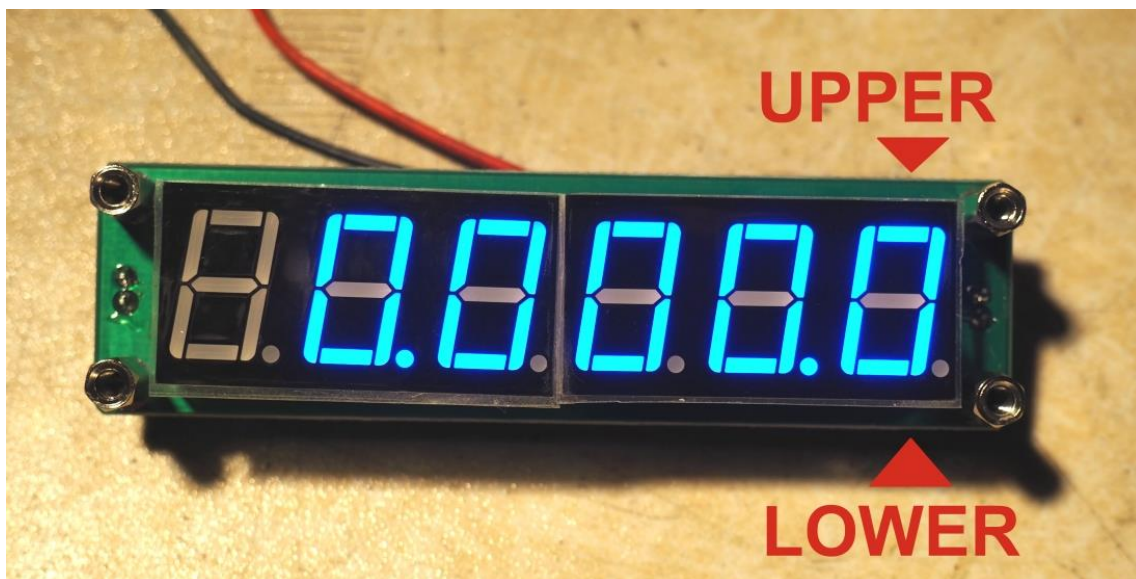
Then select with UPPER key > back to measurement

4. Light Intensity

UPPER: End of parameterization and back to measurement

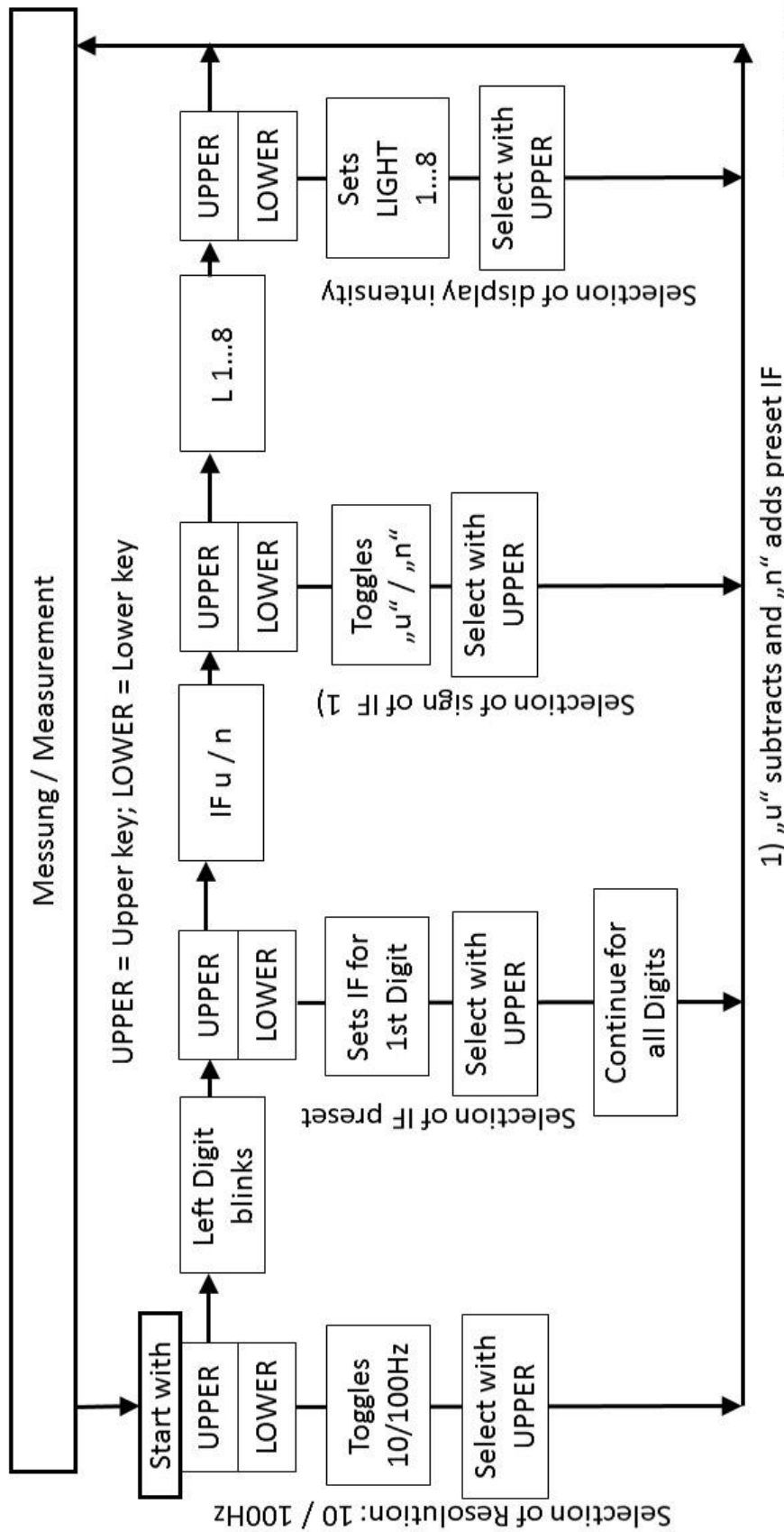
LOWER toggles through 1 to 8 and increases intensity.

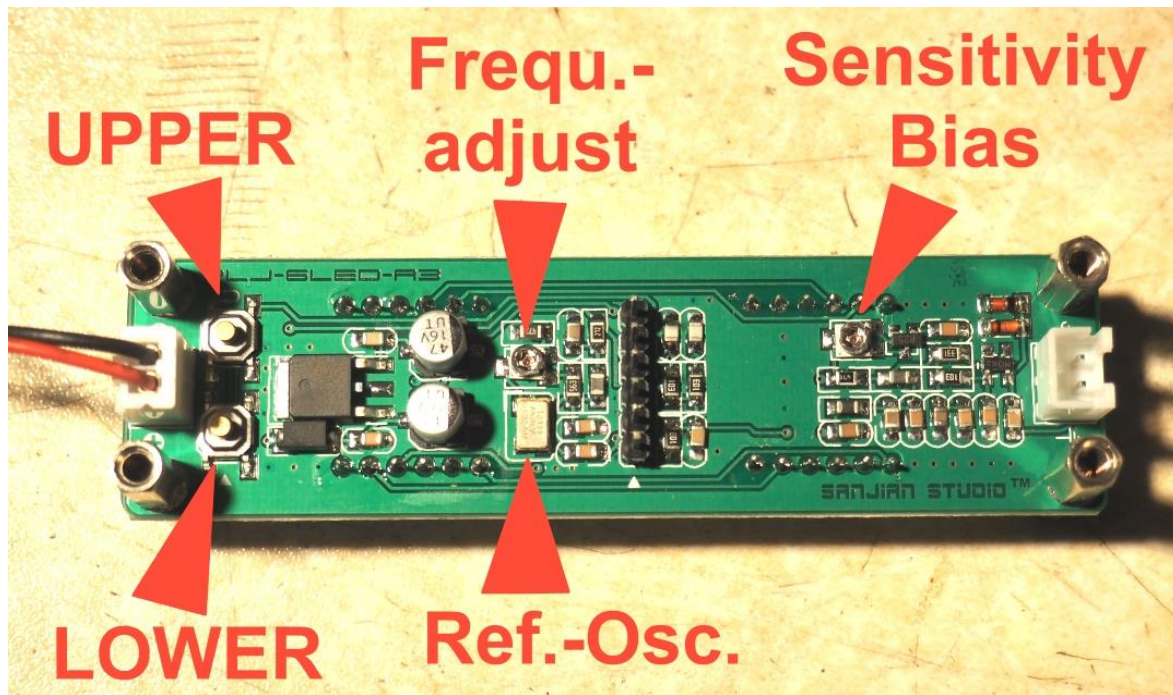
Then select with UPPER key > back to measurement



UPPER and LOWER keys are on the back side

Menu / Parameterization of Frequency Counter Sanjian Studio PLJ-6LED





Setting of Sensitivity/Bias

The sensitivity (DC-Bias) can be set with a trimpot in the DC-feedback of the amplifier for optimum DC-bias:

Use a HF-signalgenerator with 50 to 60MHz and adjust trimpot when reducing input voltage for best and stable readout.

Setting of Timebase/Frequency adjust

The timebase is a DSA535SA (look for datasheet in the www), the frequency can be changed by a tuning voltage.

Use a reference at 50 to 60MHz with 10Hz resolution and 100mVPP with a stable readout and adjust trimpot for exact frequency indication; give the unit some minutes to stabilize.

- Ignore that the first digits are suppressed in this setting, only the last digits are relevant

Specification

Supply: DC 8V-15V; 90mA(max)

High impedance input

Range: 0.1 MHz to 65 MHz (**below 100kHz definitely no measurement!**)

If you want to contact the author:

Stefan Steger, DL7MAJ, eMail: dl7maj@darcd.de

Homepage: www.dl7maj.de