Camera settings

Preview Resolution is the resolution value for the settings window. Resolution is the resolution for the picamera python module. You can have a look to the documentation of picamera. If you set this to other values please be sure what you are doing, not all resolutions are supportedby the picam. Some might lead to slower image capturing.

Serial

In this section you can set your port. By default this value is not set, because theFabScanPi Server software autodetcts the correct port. Some Arduino and compatible boards differ in the port name. The port can be set if you are not using an Arduino UNO or compatible Board. In case that your Arduino is not detected and you can see an error in the /var/log/fabscanpi/fabscan.logyou should add the "port" attribute to your config.

The autoflash option is True by default, that means that the firmware is flashed automatically to the Arduino or FabScanPi HAT. If you want to use a custom board e.g. sanguinololu, you can set thisto False and flash the Firmware manually to your board.

The default firmware flashing baudrate can be changed by adding "flash_baudrate" to the serial settings.

Texture illumination

In this section you can change the pre-set brightness level of the LED-Ring during texture scan.

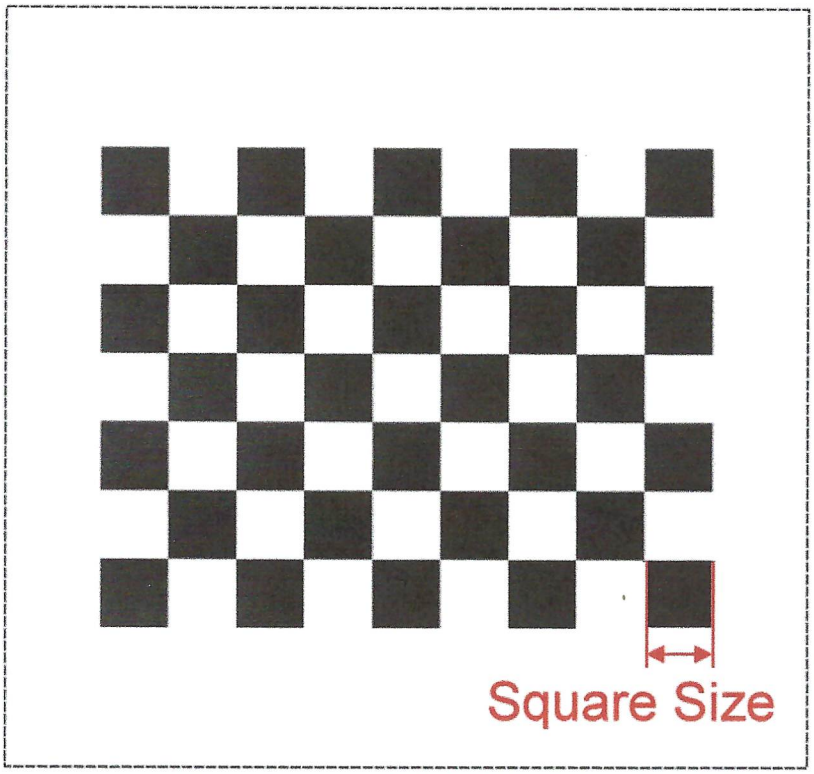
Calibration Values

In this section you can change the parameters of the configuration sheet. If your printout of the calibration sheet has not the exact scale you can adjust the parameters here instead of scaling the print.

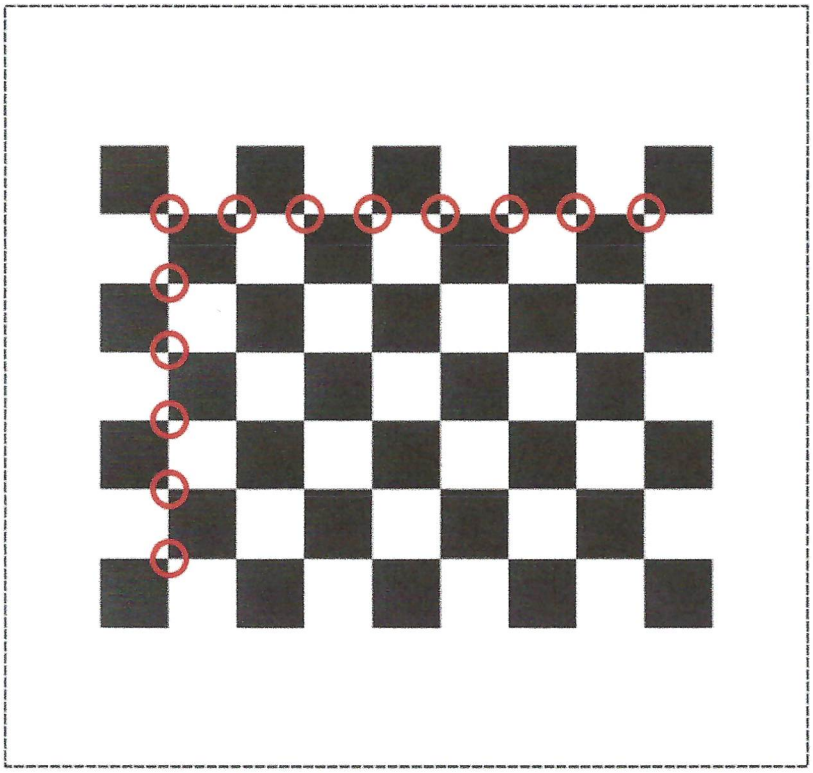
Note

There is a new " 8x6 Calibration Pattern". If you are still using the old 9x6 Pattern you'll need to modify the columns value:

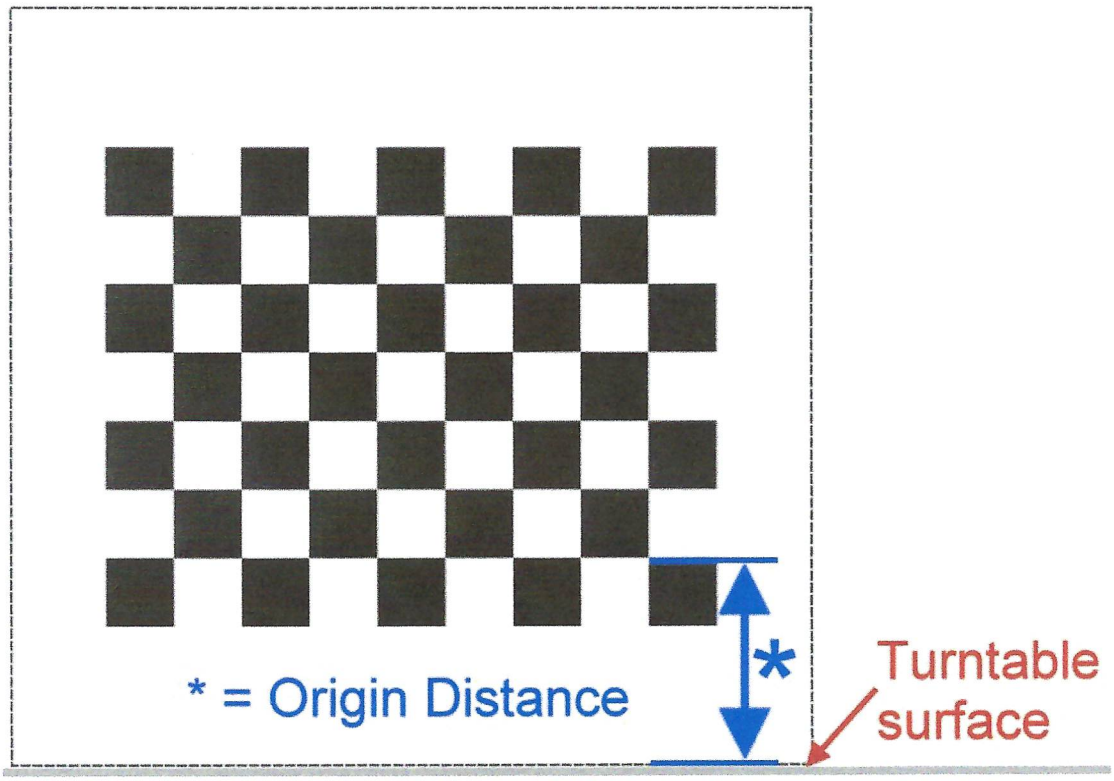
- Square Size is the side length of one black square in millimeters.



- Rows and Columns are the connection points of the black squares. The correct number is 8 for columns and 6 for rows :



- Origin Distance is the distance between turntable surface and the upper edge of the black squares in the row close to the turntable.



Scanner Calibration Values

In this section you can check the calibration parameters. Please make sure you have performed the auto-calibration before starting your first scan. Do not change these values manually. This values are generated by the autocalibration process.