

Display – shows particle concentration [pt/cm³] and average particle diameter [nm] on the left; Status (HiVolt, Flow, Heating, Recording) top right; remaining battery in % bottom right.

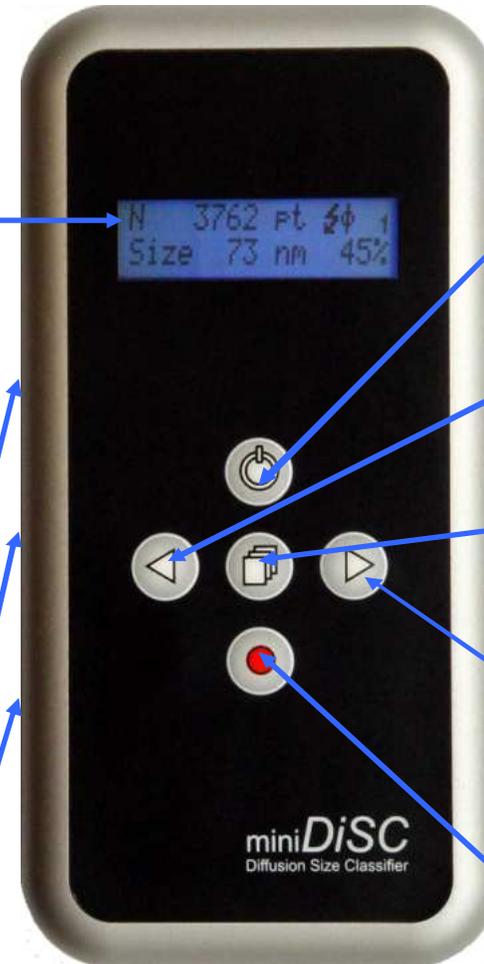
Press ► to display the two electrometer currents.

Press ◀ to display lung-deposited surface area concentration (alveolar)

SD-card slot – insert SD card face down

USB connector

Power connector



Inlet thread, accepts a tube connector or the impactor

Power Button: Press to turn on, press long to turn off (wait for an audible beep before releasing the button). After power-up, miniDiSC warms up for 5 minutes.

◀ Switch off things in menus

Menu button - press long for advanced menu selection (read the manual)

► Switch on things in menus

Record button: press to record, press long to stop - a beep will acknowledge the stop. Recording is indicated by a blinking full circle in the top right corner of the display.

Please follow this best practice guide to make the most of your miniDiSC

- **Warm-up:** The instrument warms up for 5 minutes before it is ready for measurements. If the instrument was very cold (e.g. after transport in winter), this can be too little. In this case, turn off the pump to avoid condensation within the instrument; wait longer, and do a new zero offset adjustment before measuring.
- **Impactor:** The instrument is equipped with an inlet impactor. Clean the impaction surface before use (unscrew the impactor cap, and wipe the flat surface below the thread). Make sure to screw the impactor cap firmly into the impactor to ensure proper functioning of the impactor. Clean the impactor orifices in an ultrasonic bath regularly.
- **Zero offsets:** The electrometer zero offsets may drift due to humidity changes or temperature changes. The miniDiSC turns off its pump once every hour when recording to measure the zero offsets. Use this feature, if possible, i.e. make one long measurement rather than many short ones. Check that the zero offsets are stable in the data file.
- **Maintenance:** Have your instrument serviced and calibrated once per year. Alternatively, if you own a CPC, do a cross check against your CPC in regular intervals. Please remember: the miniDiSC is not a precision instrument. Deviations of +30% compared to a CPC are normal.

