# Heliocom settings

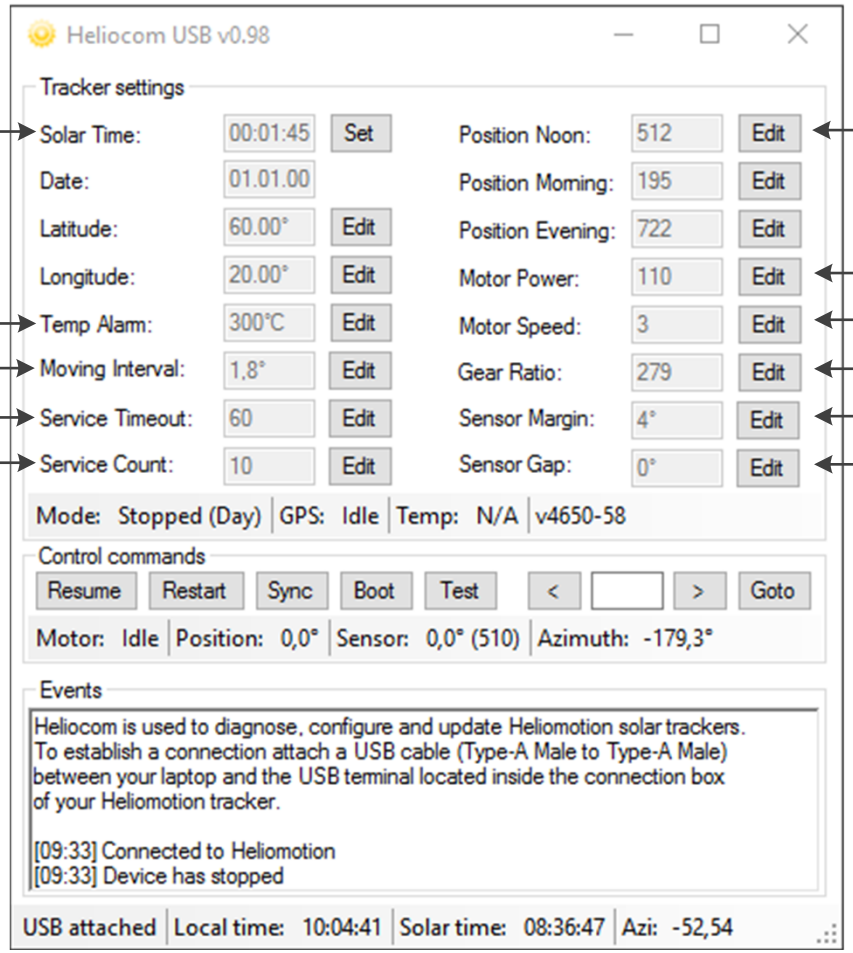
Time/date, latitude and longitude are set automatically by GPS

Temperature alarm setting. Only used with thermal installations

Tracker rotates this many degrees each step

Tracker pauses this many minutes if it is unable to rotate. Each successive pause is multiplied (up to 6 times, reset each day)

Tracker pauses after trying to move unsuccessfully clockwise this many times. Reset every morning or after 5 successful moves.




To edit a parameter:
1) Click the Edit button to make the field changable. ”Edit” button label then changes to ”Set”.
2) Type the desired value in the corresponding field.
3) Click the Set button to submit the change.

Specifies expected sensor value when reaching noon, morning (-90°) and evening (+90°) position when moving clockwise

Motor torque setting. Higher=stronger (non-linear)

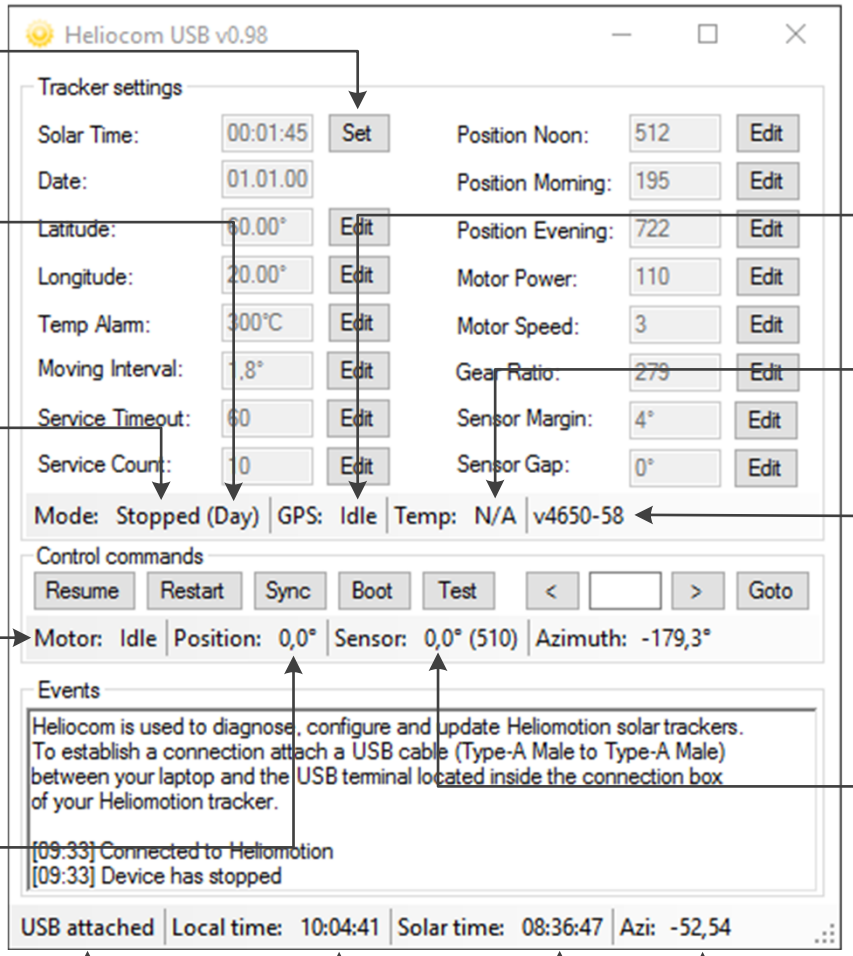
Rotational speed. Higher=faster (linear)

Gear ratio. Number of motor turns to rotate tracker a single turn

If calculated position deviates more than this number of degrees from measured sensor position the calculated position is adjusted (and service counter increased by 1).

Number of degrees subtracted from measured sensor value when moving counterclockwise (due to sensor lag)

# Heliocom status fields




Manually updates date/ time to local solar time

Shows if day or night. Tracker stays in noon position during night

Operation mode can be Tracking (automatic control) or Stopped (manual control)

Shows if motor is running or idle

The tracker's current calculated position in degrees. If sensor reading deviates more than Sensor Margin then Position is corrected to Sensor value (and service counter increased by 1).

Shows if GPS is idle or synching

Temperature sensor reading (N/A=not used)

Software version number

Position sensor reading in degrees. The value in parentheses is the raw sensor value between 0-1024 which is translated to degrees based on the Position Noon/Morning/ Evening parameters.

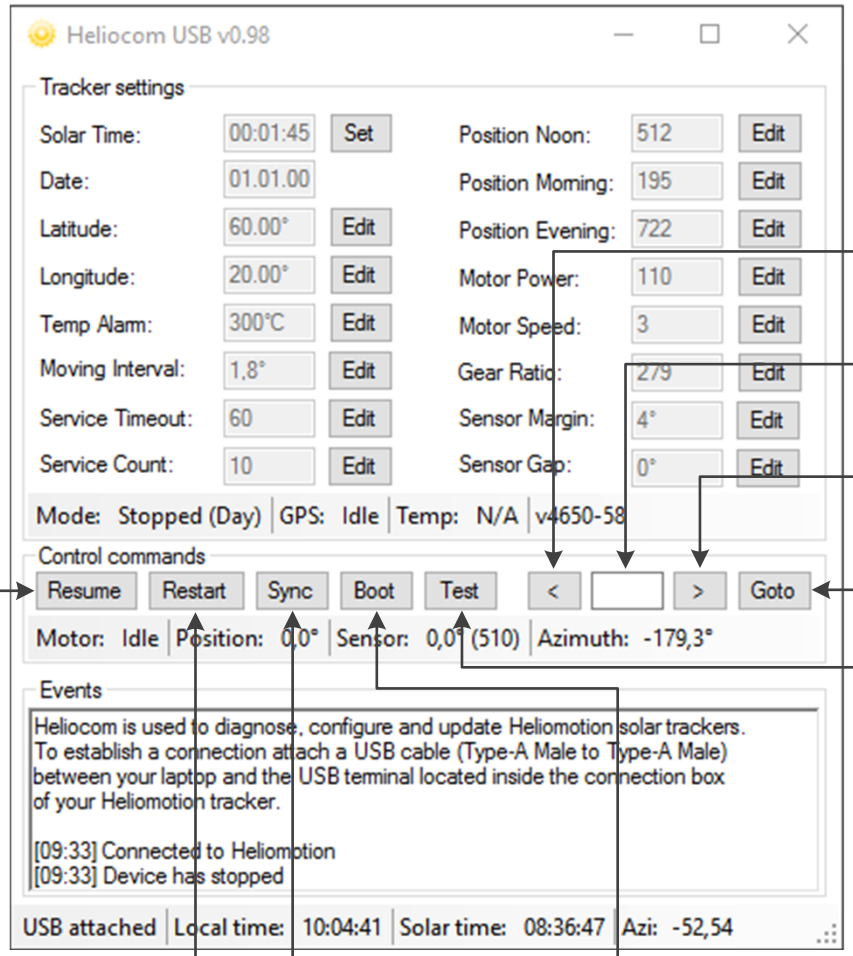
Shows if USB cable is attached or detached

Local time according to computer

Local solar time calculated from computer time and longitude parameter

Calculated solar azimuth angle based on local solar time and latitude parameter

# Heliocom control commands




Used to toggle between automatic tracking (Resume) and manual control (Stop). Note that sending a movement command automatically switches to manual control. Sending a stop command can also abort a GPS synchronization (after ~5 seconds).

Rotate counter-clockwise

Number of degrees to rotate (0.2° – 90°)

Rotate clockwise

Move to position specified in field (-90° – 90°)

Restarts tracker. Same as toggling power supply

Performs a manual GPS sychronization

Disconnects from Heliocom and connects to bootload app. Used for software updates

Automatic factory test to get tracker specific values for position sensor parameters.