

Gradient
Palm-CyclerTM



CORBETT
RESEARCH

Gradient Palm-Cycler™

Corbett Research has redefined the programming interface of today's thermal cycler while maintaining all the features of a high performance machine. Cycling software is loaded onto an integrated Palm PC that communicates directly with the thermal cycler, providing the ultimate user interface. Software updates can be easily downloaded from the web.



User Friendly

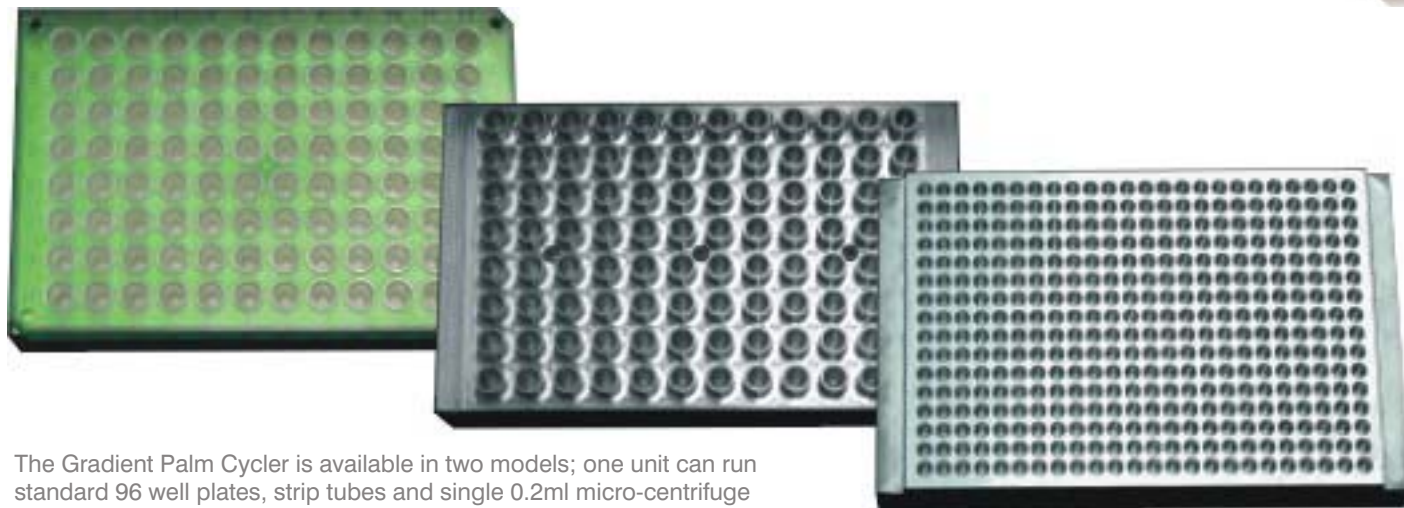
The colour touch-screen of the Palm PC makes it ideal for easy programming of your thermal profiles. Using a simple graphical interface, a standard thermal profile can be set up and saved in seconds.

Flexible

The Palm computer can be disconnected from the thermal cycler and programmed independently. Separate directories can be constructed for each of the individual users in the lab.

Versatile

Windows CE software allows for the maximum in programming options. Features include gradient capability, touch-down, long-range, ramp rate control, temperature logging, auto-restart after power failure and post-run reports.



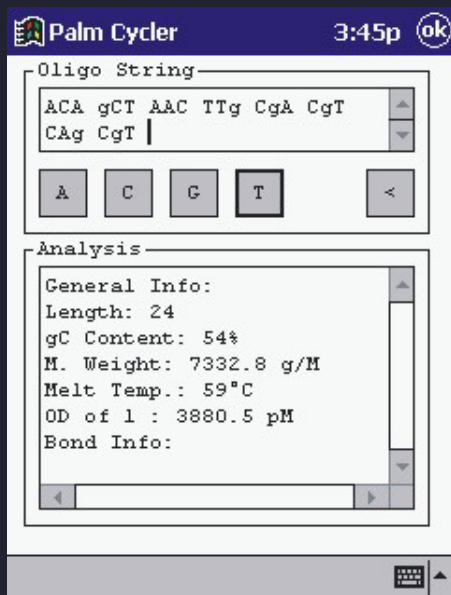
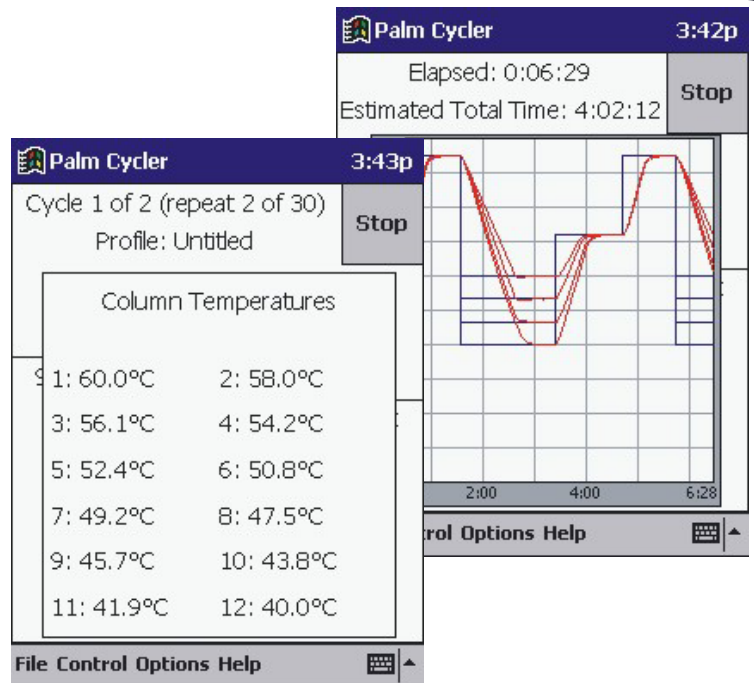
The Gradient Palm Cycler is available in two models; one unit can run standard 96 well plates, strip tubes and single 0.2ml micro-centrifuge tubes; the other is a 384 well block format.

Gradient Function

A temperature gradient can be defined at any point in a thermal profile. A range of up to 24 degrees Celsius can be achieved across the block from left to right.

Power across the block is controlled so that gradient set temperatures are achieved simultaneously.

The temperatures of all 12 columns are displayed during the run, making it easy to determine the optimum temperature conditions.

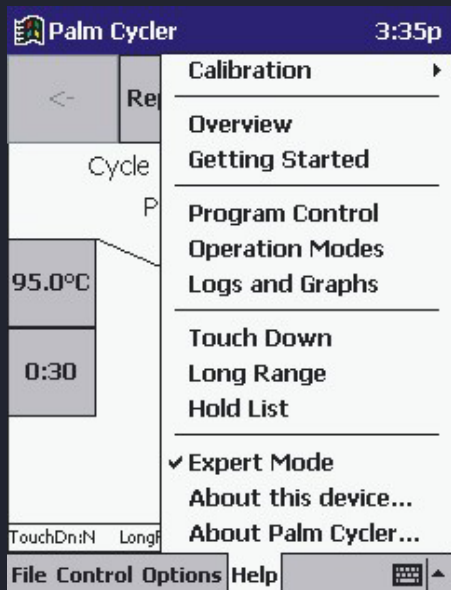


On-Line Help

There is comprehensive on-line help about all the functions of the unit. For first time users there is interactive help where you are guided through each step of the programming process.

Oligo Calculator

An oligo-calculator is embedded into the software. It is simple to use and determines T_m, O.D, mol.weight and secondary structure location.



Temperature Calibration

The unit can easily be re-calibrated if required without the need for a service technician.

The calibration software routine is run in conjunction with an external meter to measure block temperature. The meter readings are entered at each step of the calibration program and the Palm-Cycler automatically recalibrates.

