

SPECIFICATIONS

Thermal Cycling System

Temperature Range

Active heating and cooling using 8 Peltier elements + 4 Platinum sensors

Temperature Accuracy

4°C–99°C

Temperature Uniformity

±0.25°C

Temperature Resolution

±0.5°C

Heating/Cooling Rate

0.1°C increments

Condensation control

2.5°C/sec

Special Functions

Automatic using a heated lid design

Auto-resume on power fail, on-line logging and graphing, touchdown and long-range programming, linear thermal gradient (programmable up to 24°C), adjustable ramp rate, oligonucleotide calculator, program holds, manual mode, online help, thermal calibration wizard.

Configurations

60-Well version (CG6000-000)

- Supported consumables: 0.5 mL tubes with attached caps

96-Well version (CG9600-000)

- Supported consumables: 0.2 mL tubes or strip tubes with flat or domed caps; 96-well high- or lowskirt plates with strip caps or an adhesive cover

384-Well version (CG3840-000)

- Supported consumables: 384-well plates with an adhesive cover

Dimensions

H 220 mm (8.7") lid closed

H 330 mm (13.0") lid open

W 310 mm (12.2")

D 295 mm (11.6"); 370 mm (14.6") including cables

Weight

10.9 kg (24 lbs)

Electrical

100–120 VAC @ 4 Amp (50/60 Hz), 200–240 VAC @ 2 Amp (50/60 Hz)

Startup Accessories (included)

Silicon Pad. Provided with 96- and 384-well configurations only

Palm Computer Device (P/N Comp-0045)

SD Memory Card 2GB (minimum)

Power Cable

User Manual

Palmtop PC device

Janam Technologies LLC, USA, Model no. XM66AM

Microsoft Windows Mobile 6.1, Freescale™ i.MX31 @533MHz, 128MB DDR SDRAM, 128MB NAND, User accessible MicroSD card slot, Swappable 3.7V 2000mAh rechargeable Li-ion battery, Backlit PDA keypad (with 4-way navigation), 3.5" Color TFT QVGA (240x320); 262K colors (**with Service Support**).

Multiple 4ft / 1.2m drops to concrete on all sides across a wide temperature range,

Safety-CSA C22.2 No. 60950-1-03, EN60950-1:2001+A11

Software

Supplied, with unlimited user license. Free upgrades by web download.

Warranty

1 year

Palm-Cycler

Gradient Thermal Cycling



Large Display Window PDA



Combining Robust Engineering,
Advanced Performance and
a Palmtop PC Interface
for Supreme User-Friendly Flexibility



GENETIX BRAND

Designed in Australia, manufactured by

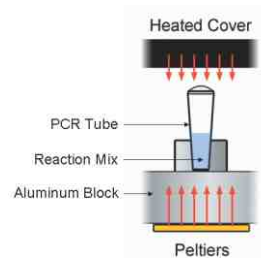


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Features

- ◆ Active-cooled block (range 4°C to 99°C)
- ◆ 8 Peltiers and 4 Platinum Sensors
- ◆ True linear gradient capability (1°C to 24°C)
- ◆ Intuitive Palm computer interface
- ◆ Easy programming and backup
- ◆ Advanced cycling options (Touchdown, Long Range, Ramp Rate, Hold List, etc)
- ◆ Advanced functions (graphing interface, auto-calibration, oligo calculator etc)
- ◆ Built tough to last
- ◆ Familiar Windows operating system
- ◆ Allows total flexibility in cycle programming
- ◆ SD memory cards for program transfer & backup
- ◆ Computer supports advanced software (for auto-calibration, primer design, virtual runs, etc)
- ◆ Intuitive graphical user interface with large back-lit, color, touch-sensitive screen
- ◆ In-built palm calendar software makes a perfect lab booking system!
- ◆ It is an indigenous product
- ◆ Oligo Calculator Software



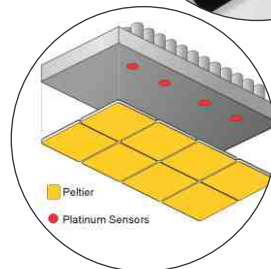
Heated Lid (Hot Bonnet) Technology

Applications

- ◆ In Long Range programming, the extension step of an amplification cycle is automatically time incremented
- ◆ This provides the DNA polymerase more time to complete strand synthesis in later cycles where this becomes limiting
- ◆ Useful for targets greater than about 1 Kb in length

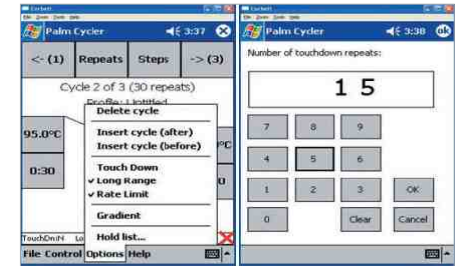


Auto-Calibration



Logging & Graphing information

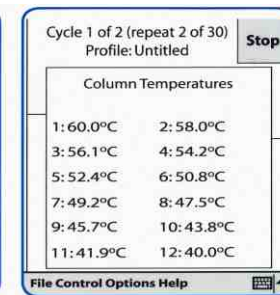
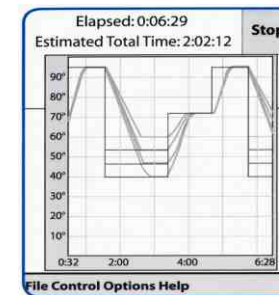
- ◆ A real-time temperature graph provides information on temperature across block during cycling
- ◆ The Blue line shows set temperature and the Red line actual temperature
- ◆ Four sensors across the block enables accurate indication of the temperature in each well across all 12 columns



Long Range Applications

Thermal Gradient Cycling

- ◆ When enabled, a programmable gradient from 1°C to 24°C can be setup from left to right on the Palm-Cycler
- ◆ 8 Peltiers and 4 sensors enable a true linear gradient to be established
- ◆ Gradient technology allows the user to quickly identify the best possible set of annealing conditions in one run when optimizing cycling conditions



Ordering Information

- | | |
|------------|---|
| CG6000-000 | CG Palm Cycler, 60 well version ; supported consumables (0.5 ml tubes with attached caps) |
| CG9600-000 | CG Palm Cycler, 96 well version ; supported consumables (0.2 ml tubes or strip tubes with flat or domed cap : 96-well high - or low - skirt plates with strip caps or an adhesive cover |
| CG3840-000 | CG Palm Cycler, 384 well version ; supported consumables 384-well plates with an adhesive cover |

Electrical 100-120VAC @ 4 Amp (50/60Hz), 200-240 VAC @ 2 Amp (50/60 Hz)