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Peltier Thermal Cycler

DNA Engine Tetrad® 2

Features

- 4-bay high-throughput thermal cycling
- Up to 8 individual sample blocks, which can be controlled independently or as a group
- Up to 1,536 samples can be processed simultaneously
- Internal power supply — no separate boxes to accommodate
- High-density color display with point-and-click navigation
- Real-time monitoring of cycling temperatures



For more information, visit us on the Web at
www.bio-rad.com/amplification/

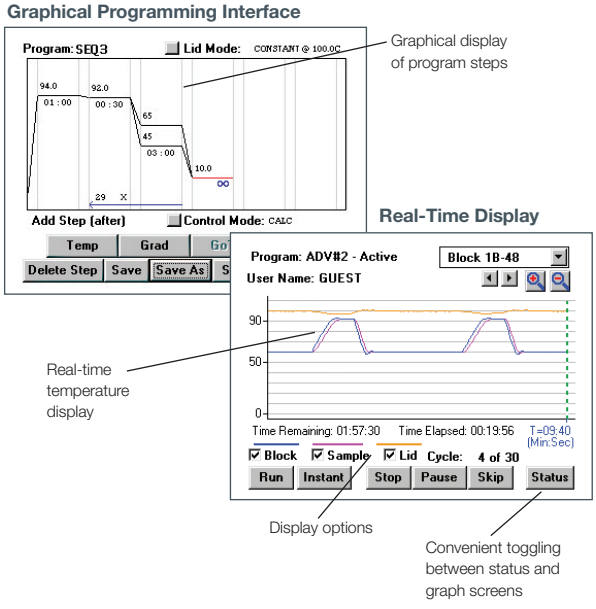
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The DNA Engine Tetrad 2 thermal cycler incorporates a completely redesigned and updated version of the original DNA Engine Tetrad chassis, and it accepts the full line of proven Alpha™ unit reaction modules. It delivers the same precision in thermal performance as the DNA Engine®, DNA Engine Dyad®, and original DNA Engine Tetrad thermal cyclers, allowing easy transport of protocols across platforms.

The DNA Engine Tetrad 2 cycler contains an onboard Pentium-class computer that delivers an advanced graphical interface — ideal for managing production-grade thermal cycling. For those laboratories that value quick training, the creation and editing of protocols can be accomplished rapidly and easily via the mouse-directed point-and-click navigation. Real-time displays of block, sample, and lid temperatures provide quality assurance that the thermal cycler is performing as directed. Superior software features, such as error tracking logs, run tracking files, problem resolution trees, and file management tools, offer invaluable information for troubleshooting during high-throughput runs.

Graphical Programming Interface



Specifications

Speed of ramping	Up to 3°C/sec
Temperature range	0–105°C, but no more than 30°C below ambient temperature (10–100°C for Slide Chambers™ unit)
Temperature accuracy	Average temp within ±0.3°C of programmed value at 90°C (±0.4°C for dual block)
Temperature uniformity	±0.4°C within 30 sec of arrival at 90°C (±0.5 for dual block)
Input range	200–240 VAC, 50–60 Hz, 12 A maximum, fitted with NEMA L6-P20 plug
Display	320 x 240 pixels, 256 colors
Ports	RS-232, Ethernet
Memory	1,000 typical programs
Dimensions	47 x 61 x 16 cm (W x D x H), chassis only
Weight	21.6 kg (chassis only)

Ordering Information

Catalog #	Description
PTC-0240G	**DNA Engine Tetrad 2 Thermal Cycler Chassis**, does not include the Alpha units (requires at least 2 and fits up to 4)
Alpha Units	
ALS-1260G	**60-Well Alpha Unit With Hot Bonnet® Heated Lid**, holds 60 x 0.5 ml tubes
ALS-1296G	**96-Well Alpha Unit With Hot Bonnet Heated Lid**, holds one 96-well V-bottom plate or 96 x 0.2 ml tubes
ALS-1238G	**384-Well High-Capacity Alpha Unit With Hot Bonnet Heated Lid**, holds 384-well microplates
ALS-1200G	**Flat Block™ Alpha Unit With Flat, Heated Inner Lid**, includes customizable flat-surface block with 4 screw-down points
ALD-1233G	**30/30 Dual Alpha™ Unit With Two Heated Lids**, 2 independent blocks, each holds 30 x 0.5 ml tubes
ALD-1244G	**48/48 Dual Alpha Unit With Two Heated Lids**, 2 independent blocks, each holds 48 x 0.2 ml tubes
ALD-1234G	**30/48 Dual Alpha Unit With Two Heated Lids**, 2 independent blocks, holds 30 x 0.5 ml and 48 x 0.2 ml tubes
ALD-0212G	**16/16 Slide Chambers™ Dual Alpha Unit**, rear-loading for DNA Engine Tetrad cyclers
ALP-2296G	**Moto Alpha™ Unit With Integrated Motorized Heated Lid**, holds 96-well microplates
ALP-2238G	**High-Capacity Moto Alpha Unit With Integrated Motorized Heated Lid**, holds 384-well microplates
ALP-2200G	**Flat Block Moto Alpha Unit With Integrated Motorized Heated Lid and Flat Inner Lid**, includes customizable flat surface block with 4 screw-down points

Purchase of this instrument conveys a limited non-transferable immunity from suit for the purchaser's own internal research and development and for use in applied fields other than Human In Vitro Diagnostics under one or more of U.S. Patents Nos. 5,656,493, 5,333,675, 5,475,610 (claims 1, 44, 158, 160–163 and 167 only), and 6,703,236 (claims 1–7 only), or corresponding claims in their non-U.S. counterparts, owned by Applera Corporation. No right is conveyed expressly, by implication or by estoppel under any other patent claim, such as claims to apparatus, reagents, kits, or methods such as 5' nuclease methods. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

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