



**Labcare
de Colombia**



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DTlite real-time PCR system

DTlite real-time PCR system is used for qualitative and quantitative analysis of DNA and RNA targets in the fields of

- **Human genetics;**
- **Gene Expression profiling;**
- **Pathogen detection, quantification and genotyping;**
- **Complex bacterial communities testing.**

Optimal choice

for medium and small diagnostic laboratories.

Original DTmaster

software lowers the probability of mistakes and is used for sophisticated assays requiring multiple settings application.

Several devices can be operated from one PC allowing high performance and multitasking.

Customer service and technical support

Manufacturer guarantees quick diagnostics and replacement of the failed parts.

Wide range of performing tests

HCV, HBV, HIV

HPV Genotyping

HLA Genotyping

BRCA Genetics

Cardio and Thrombophilia Genetics

Androflor® and **Femoflor®** microbiome composition tests.

Best ratio of size and productivity.

4 or 5 channel optical system

with narrow spectral range custom-made filters accounts for reliable multiplex detection.

Adapted for integration with laboratory information system LIS.

Variant design of thermal unit allows easy adaptation to medium- and low throughput laboratory workflows.

Technical highlights and specifications

- Cost-effective CCD detection provides high quantum efficiency;
- Silver-layered optical path accounts for unbiased transduction of signal;
- Separate LED for each optical channel provides high sensitivity, optimal signal-to-noise ratio and low crosstalk;
- Wide dynamic range of detection achieved by employing original multiple exposure approach;
- All resistors and thermoelectric elements are produced at leading enterprises, supplying space and defense industry;
- Embedded microcontrollers allow autonomic program completion and resuming the program even in a case of a power failure or an unexpected computer shutdown.

Thermal unit plate format	• Monoblock (S1 version) – 48 0.2 ml tubes (8x6 arrangement) • 2-section thermal unit (S2 version) – 48 0.2 ml tubes (8x6 arrangement) • Monoblock (L1 version) – 192-well 0.045 ml plate (16x12 arrangement)
Consumables type	For S versions: 0.2 ml PCR tubes (separate or in strips, 8 pieces each) For L1 versions: PCR 192-well 0.045 ml plate
Thermal unit temperature range (°C)	from 0 to 100
Temperature step (°C)	0.1
Temperature accuracy (°C)	+/- 0.2
Maximum heating rate of thermal unit (°C/sec)	• For S versions: 6 • For L versions: 4
Maximum cooling rate of thermal unit (°C/sec)	• For S versions: 2.5 • For L versions: 1.5
Heating and cooling method	2 Peltier thermoelectric elements
Excitation source	LED
Detector	CCD
Number of fluorescence measuring channels	• 4 (versions 4S1, 4S2 and 4L1) • 5 (versions 5S1, 5S2 and 5L1)
Spectral range (nm) Excitation and detection for each channel	• Fam – 470/40 – 515/30 (compatible with SybrGreen) • Hex – 530/20 – 560/20 (compatible with VIC, R6G) • Rox – 580/30 – 620/30 (compatible with TAMRA) • Cy5 – 630/20 – 660/20 • Cy5.5 – 687/20 – 731/30
Hot lid temperature (°C)	105
Line voltage (V)	220
Power consumption (W)	Max 500
Frequency (Hz)	50
Size (WxDxH) (mm)	210x480x310
Mass (kg)	17