



DX Technical Specifications



TECHNICAL	
Sample Capacity	✚ 4 wells (Standard 0.2 ml PCR Tubes)
Two-temperature PCR	✚ Combines annealing and extension steps
Detection Modes	<ul style="list-style-type: none"> ✚ End-point / Real-time (With appropriate license) ✚ Qualitative / Semi-Quantitative ✚ Single-channel detection (500 nm - 580 nm)
Operational Requirements	✚ Built-in LCD display and keypad. No external computer required.
Data Storage & transfer	✚ Flash memory (SD) card and Flash card reader
Ease of Use	✚ Simple menus and user interface. Learn to use it in 10 minutes.
Reaction times	✚ 15 min - 90 min
Graphing software	✚ Microsoft Excel® macro
Reverse Transcription	✚ Enables RNA analysis
Voltage Requirements	✚ 100 - 240V, 50/60Hz
Power Usage	✚ 15V DC, 4.3A, 65W, DIN-5 Connector (female)

CONSUMABLES	
Chemistry compatibility	<ul style="list-style-type: none"> ✚ DNA Binding Dyes: SYBR® Green ✚ Fluorophores: FAM, TET, and CAL Fluor Gold® 540 ✚ Quenchers: Non-fluorescent Quenchers (Black Hole Quencher®)
Reagent compatibility	✚ For use with commercially-available reagents and kits

TECHNICAL	
Dimensions weight	✚ 17(W) x 36(D) x 12(H) cm / 4.2 kg [6.69"(W) x 14.17"(D) x 4.72"(H) / 9.3 lbs]
Package Contents	✚ Spartan DX™, User manual, Flash memory (SD) card, Flash card reader, Power Adaptor + Power
Warranty	✚ 1 Year Spartan Standard Warranty, Optional Spartan Worry Free Warranty

OPTICAL		THERMAL	
Excitation Source	✚ Blue LED <500 nm	Sample capacity	✚ 4 X 0.2 ml PCR tubes
Emission filter	✚ Detects >500 nm	Temperature control range	<ul style="list-style-type: none"> ✚ Block 1: 40 - 110°C ✚ Block 2: 40 - 80°C
Detector	✚ CCD Camera	Control Accuracy	✚ ± 0.2°C
Fluorescence Acquisition modes	✚ Real-time (every cycle) and end-point (first & last cycle)	Warm-up time from ambient start	✚ 10 minutes

ENVIRONMENTAL			
Operating temperature	✚ 15 - 25°C	Installation Category	✚ II
Relative humidity	✚ 20 - 80% non-condensing	Pollution Degree	✚ 2
Operating Altitude	✚ 0 - 2000 meters	Noise Level	✚ 40db
Operating Environment	✚ Indoor use only		

Higher Productivity Rapid Diagnosis