

INTELLIQUBE

Fully Automated PCR Setup, Amplification and Analysis System



This instrument is first fully automated medium to high-throughput instrument featuring seamless integration of liquid handling, thermal cycling, detection, and data analysis. It supports quantitative real-time PCR, end-point PCR, and isothermal chemistries, allowing you to realize the benefits of inline automation enabled by the innovative Array Tape consumable.

Your lab will realize:

- Walk-away operation
- Increased efficiency of lab personnel
- Reduced reaction volume
- Increased throughput
- Reduced consumable costs

Advantages



Liquid Handling



Amplification



Detection



Data Analysis

Product Specifications

- 1. Cq Uniformity:** Users can expect minimal well-to-well variability in Array Tape, providing The IntelliQube demonstrated a total standard deviation (SD) of 0.087 cycles when 768 replicate wells each containing 2048 copies of a NIST calibrated human – gDNA reference standard were analyzed for a non- transcribed locus in hgDNA.
- 2. Dynamic Range:** The IntelliQube can support assays across a large range of input concentrations while maintaining data integrity. When analyzing a 1000 bp synthetic target serially diluted across eight orders of magnitude, the IntelliQube demonstrated a linear dynamic range of quantifications between 4×10^7 to 40 copies/reaction.

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- 3. Resolution:** Minimal differences in target quality can be accurately resolved between reaction wells on the IntelliQube. Using NIST calibrated hgDNA reference standard, reactions were prepared to represent 1.2 fold differences in template concentration. When analyzed for a non-transcribed locus in hgDNA, the IntelliQube demonstrated the ability to resolve 1.2 fold differences with greater than 97% sensitivity and specificity.
- 4. Sensitivity:** The IntelliQube provides the sensitivity necessary to amplify and detect even 1-2 copies of target DNA in a reaction well. Although the theoretical limit of detection (LOD) provided by Poisson statistics is limited to three molecules, IntelliQube has demonstrated the ability to detect as little as 1-2 molecules of hgDNA per reaction.

IntelliQube Performance Specifications

SPECIFICATIONS	DESCRIPTION
DIMENSIONS	49" * 34" * 75" (with Cart)
WEIGHT	855 Pounds
INPUT VOLTAGE	120/240 VAC, 15/7.5A
FREQUENCY	50-60 Hz
OPERATING TEMPERATURE	15-30° C
OPERATING HUMIDITY	20-80% Relative Humidity, Non-Condensing
AIR INPUT	80-100 psi, bursts up to 15 SCFM
WATER INPUT	Reverse Osmosis or deionized
CERTIFICATIONS	Conforms to the European Machinery Directive (2006/42/EC) and the EMC Directive (2004/108/EC).

Instrument Control and Software Specifications

SPECIFICATIONS	DESCRIPTION
SOFTWARE	Intellics Software Suite with IntelliScore
OPERATING SYSTEM	Microsoft Windows Embedded Standard 7 (on instrument)
INSTRUMENT CONTROL INTERFACE	Full HD touch screen display
ANALYSIS AND PROTOCOL SET UP	Network access using Google Chrome or Firefox
SUPPORTED ANALYSIS MODES	Standard curve, Relative Standard Curve, $\Delta\Delta Cq$, Genotyping, Presence/Absence
DATA EXPORT AND LIMS INTEGRATION	Configuration comma separated values (CSV) files
COMMUNICATION	RJ-45 Gigabit LAN

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