



HYRIS

HYRIS bCUBE™

Portable, fast, easy.

Datasheet

Version 2.0
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REF: bCUBE 2.0

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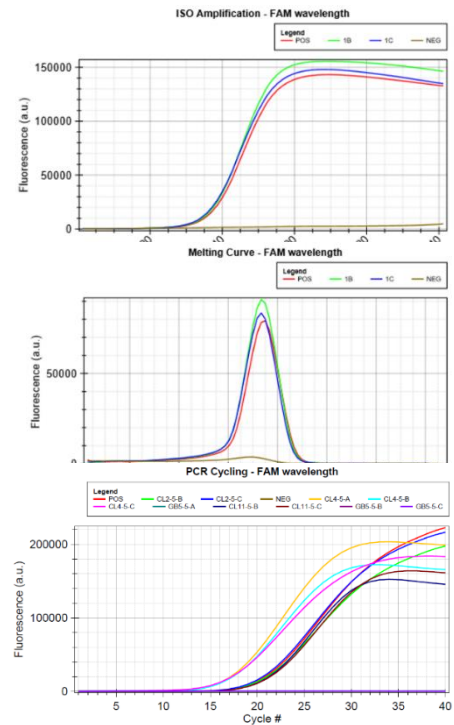
us

HYRIS bCUBE™

- Portable, fast DNA/RNA amplification and detection
- Robust, Compact, Lightweight for “in the field” operation
- High precision thermal control
- Performing Isothermal Amplification, Real Time PCR and Melting Curves
- Simultaneous multi wavelength detection
- Enhanced connectivity: WiFi, Ethernet
- HYRIS bDATA™ service features cloud storage as well as remote control and monitoring

Real Time DNA/RNA amplification and detection

- Detection in less than 15 minutes for Isothermal amplification*
- Automatic results interpretation
- Auto-adaptive thermal control that sweeps from very fast (thermal cycling) to very slow ramps (melting curves)
- High speed detection enables high resolution melting curves (sampling < 0.05°C)
- Wireless and wired connectivity for maximum flexibility



Get Connected with HYRIS bDATA™

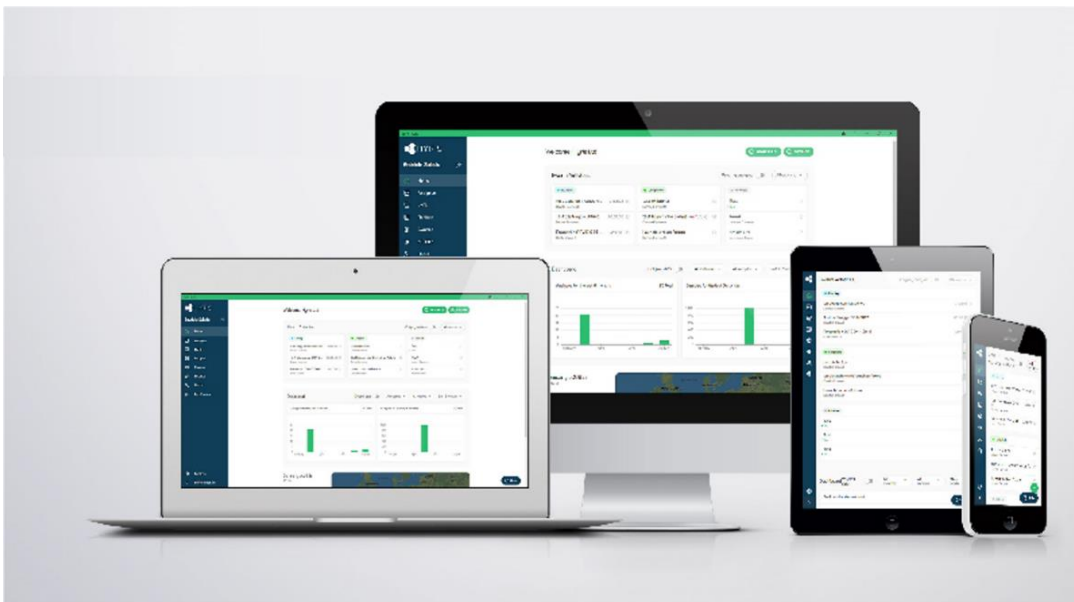
- Share your analyses worldwide with HYRIS bDATA™ cloud service
- Organize your HYRIS bCUBE™s in Swarms, and deploy them wherever you need
- Analyze your data, using filters and statistical tools
- Monitor and control your HYRIS bCUBE™s remotely
- Check the status and the position of your machines on a map



*HYRIS bCUBE™ is not IVD validated for LAMP protocols

Get Smarter with HYRIS bAPP™

- Smart analysis portability with HYRIS bAPP™
- Wireless HYRIS bCUBE™ control enables “in the field” bio-molecular detection
- Link each sample with photographs and GPS tags
- Start your analysis with a few touches, no need to be an expert
- Watch the detection progress in real-time
- Compatible with Smartphones, Tablets, PCs/Notebooks
- Runs on all Operating Systems: Windows, Linux, MacOS/iOS
- Live sync HYRIS bDATA™ service



HYRIS bPANEL™

- Get full control of HYRIS bCUBE™ with HYRIS bPANEL™ Windows PC interface
- Isothermal (LAMP) or Thermal Cycling (Real Time PCR) protocols supported
- Offline use supported
- Get raw data from the instrument and export it for processing with your favorite software
- Create and share custom PDF reports of your experiments



HYRIS bCUBE™
Ref: bCUBE 2.0 – Technical Specs

Dimensions	100 x 100 x 120 mm
Weight	1.15 kg
User Interface	HYRIS bAPP™ (Multi Platform) / HYRIS bPANEL™ (Windows PC)
Communication Interfaces	WiFi, Ethernet
Sample number	16 samples on standard cartridge (36 samples cartridge soon available)
Reaction volume	10 to 30 µl (16 wells cartridge) *
Light source	High brightness LEDs – 2 wavelengths
Excitation wavelengths	472 and 530 nm
Optical Detection	High resolution, low noise CMOS Camera (5MP)
Acquisition time	< 1s – Total time for all samples
Detected wavelengths	572 nm and 524 nm
Thermal Block	Peltier module for heating and cooling
Temperature sensor	High precision NTC resistor
Temperature resolution	< 0.05 °C
Temperature uniformity	± 0.1 °C
Temperature control range	20 – 99 °C
Temperature ramp	Up to 1.5 °C/s
Power supply	12 V – DC
Power consumption	Max 60W

* Actual sample volume required may depend on the specific analytical kit.