



HYRIS **bCUBE™**

Portable, fast, easy x2.

DATASHEET

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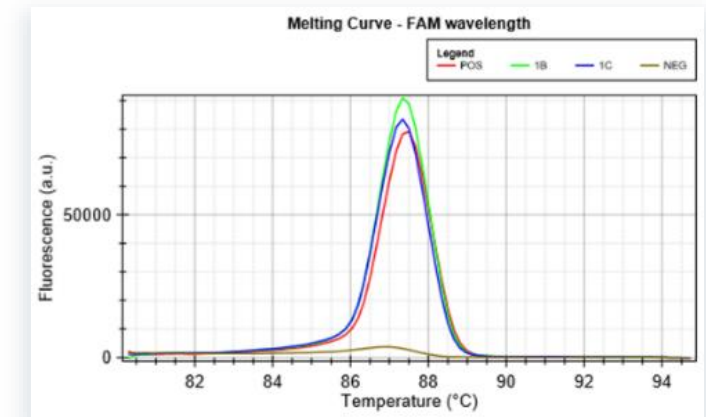
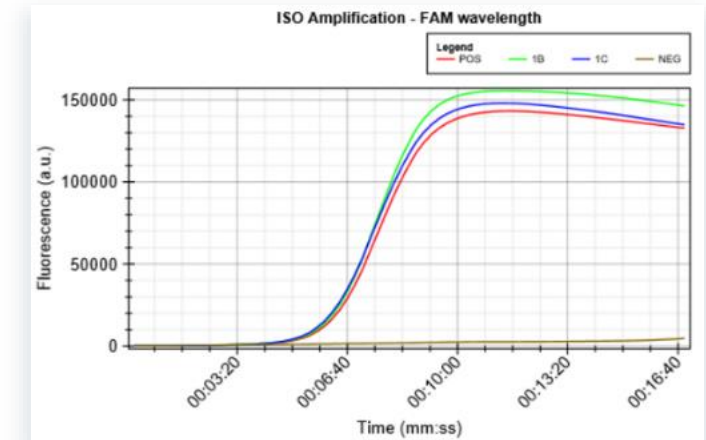
Manufactured by:  **Viale Lancetti 19
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Visit our website: www.hyris.net



HYRIS **bCUBE™**

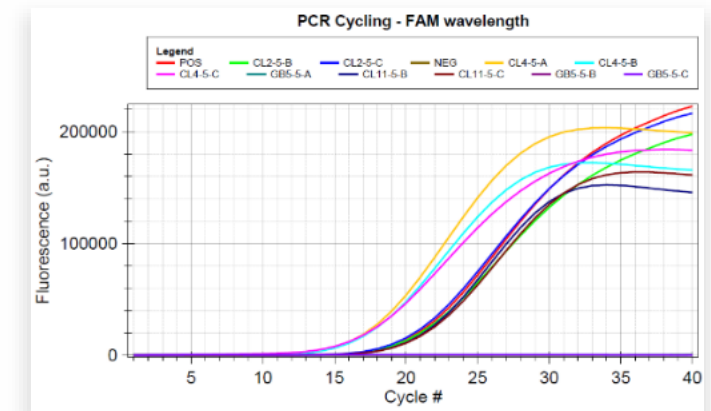
- Portable, fast DNA/RNA amplification and detection
- Robust, Compact, Lightweight for “in the field” operation
- High precision thermal control
- Performing Isothermal Amplification, Real Time PCR and Melting Curves
- Simultaneous 2 wavelengths detection (FAM, HEX)
- Enhanced connectivity: Wi-Fi, Ethernet
- HYRIS **bDATA™** service features cloud storage as well as remote control and monitoring



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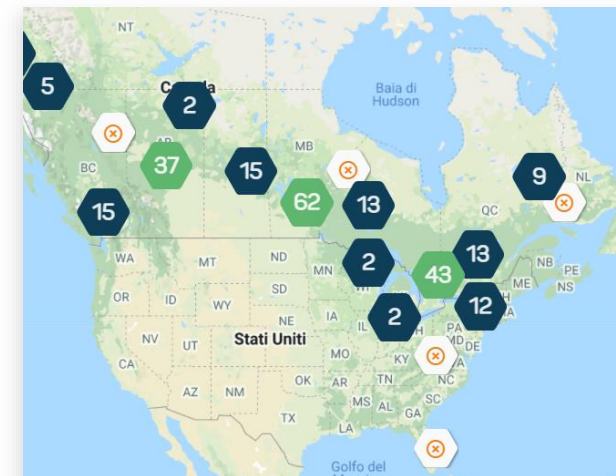
Real Time DNA/RNA amplification and detection

- 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™** in **Swarms**, and deploy them wherever you need
- Analyze your data, using filters and statistical tools
- Monitor and control your HYRIS **bCUBE™** remotely
- Check the status and the position of your machines on a map



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 **bCUBE™** | Ref: bCUBE 2.0 – Technical Specs

DIMENSION	100 x 100 x 120 mm
WEIGHT	1.13 kg
USER INTERFACE	HYRIS bAPP™ (Multi Platform)
COMMUNICATION INTERFACES	WiFi, Ethernet
SAMPLE NUMBER	16 samples on 16-wells cartridge 36 samples on 36-wells cartridge
REACTION VOLUME	10 to 30 µl
LIGHT SOURCE	High brightness LEDs – 2 wavelengths
EXCITATION WAVELENGTHS	472 nm (FAM) and 530 nm (HEX)
OPTICAL DETECTION	High resolution, low noise CMOS Camera (1.3 MP)
ACQUISITION TIME	< 1s – Total time for all samples

DETECTED WAVELENGTHS	524nm (FAM) and 572 nm (HEX)
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



For more
information and
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