



HYRIS bCUBE™

Portable, fast, easy.

Datasheet

Version 2.0
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REF: bCUBE 2.0

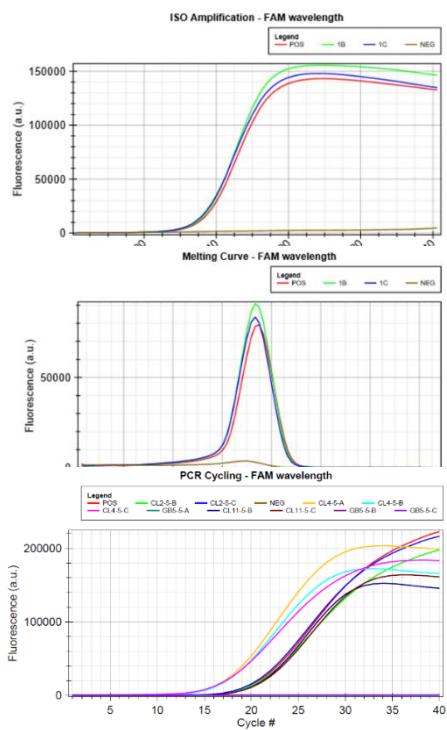
Manufactured by
Hyris SrlCorso Garibaldi, 60 20121
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www.hyris.net

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 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™

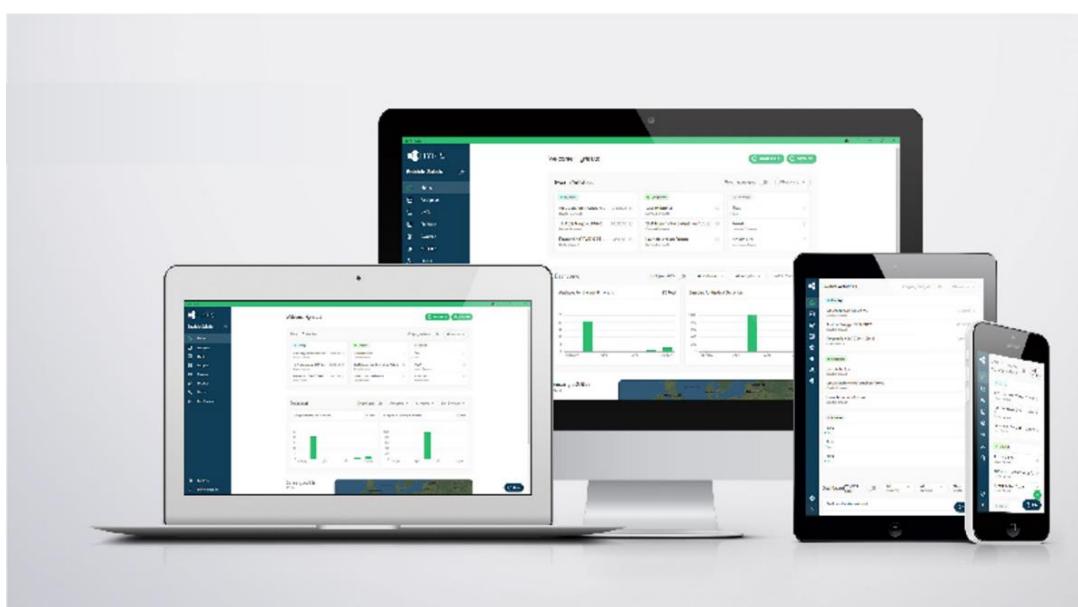
- Share your analyses worldwide with HYRIS bDATA™ cloud service
- Organize your HYRIS bCUBE™'s in Swarms, and deploy them wherever you need
- Analyze your data, using filters and statistical tools
- Monitor and control your HYRIS bCUBE™'s remotely
- Check the status and the position of your machines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