



HYRIS bCUBE™

Portable, fast, easy.

Datasheet

Version 2.0
September 2021

Hyris

Corso Garibaldi, 60
20121 Milano, Italy
Phone: +39.02.82951302
Mail: office@hyris.net

Other contacts:

Hyris Ltd

Lower Ground Floor, One George
Yard, EC3V 9DF, London UK
Phone: +44.2039361227
Mail: office.uk@hyris.net

Hyris Asia Pac

38 Ang Mo Kio Industrial Park 2 #02-07A
569511 Singapore
Phone: +65.8160.7207
Mail: office.us@hyris.net

US West Coast Sales Inquiries

Los Gatos
Mail: office.us@hyris.net

**Product info**info@hyris.net**Ordering info**sales@hyris.net

REF: bCUBE 2.0

Manufactured by
Hyris Srl
Corso Garibaldi, 60 20121
Milano (MI) Italy

Visit our website at
www.hyris.net



C

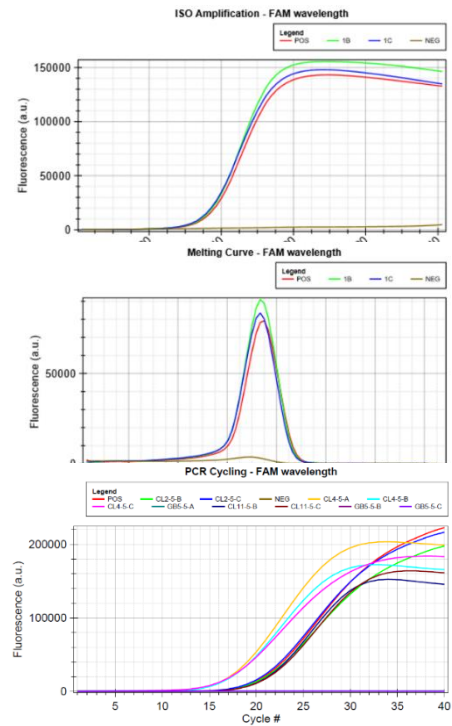
US

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

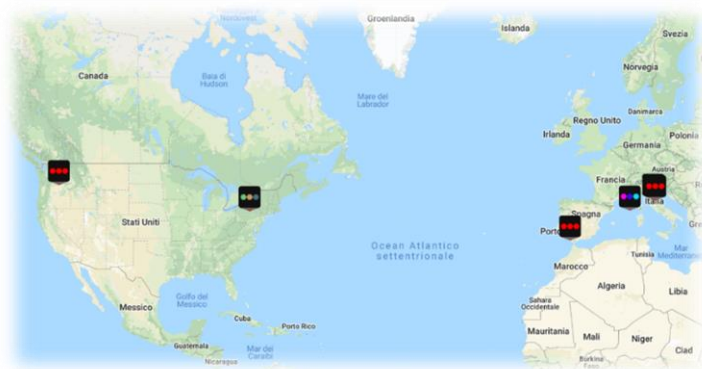
Real Time DNA/RNA amplification and detection

- 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



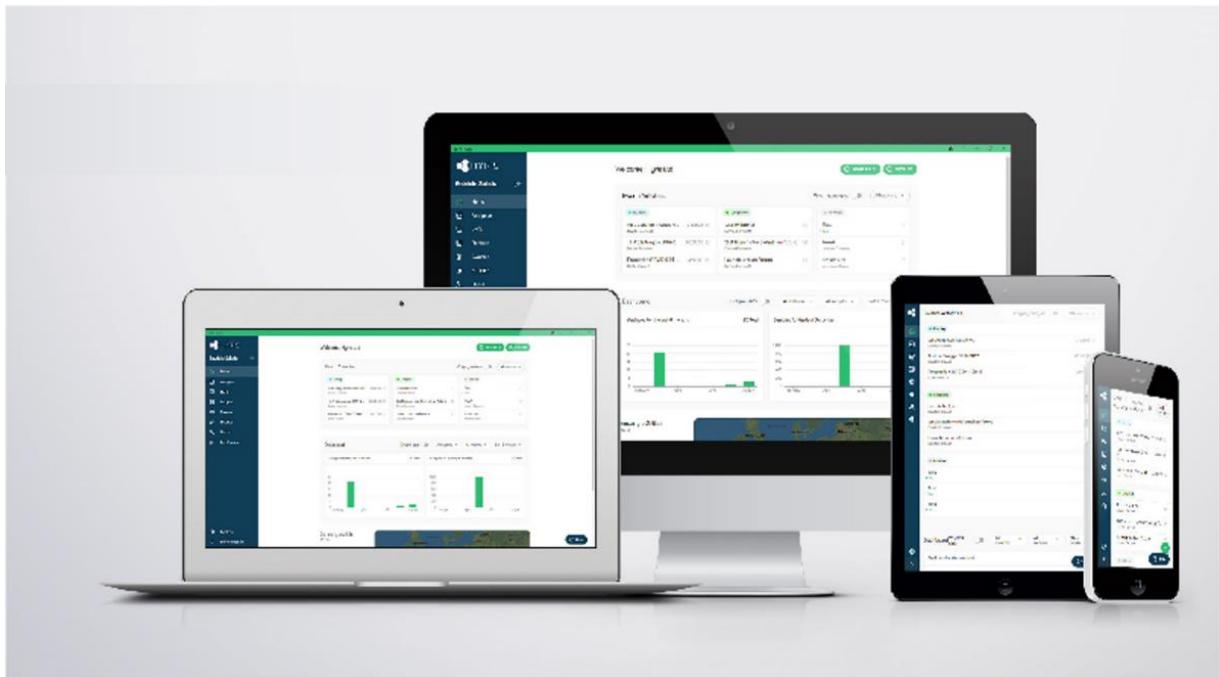
Get Connected with HYRIS bDATA™

- Share your analyses worldwide with HYRIS bDATA™ cloud service
- Organize your HYRIS bCUBE™s in Swarms, and deploy them wherever you need
- Analyse 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



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 favourite 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	bAPP (Multi Platform) / bPANEL (Windows PC)
Communication Interfaces	WiFi, Ethernet
Sample number	16 samples or 36 samples depending on cartridge format
Reaction volume	10 to 30 μ l (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 $^{\circ}$ C
Temperature uniformity	\pm 0.1 $^{\circ}$ C
Temperature control range	20 – 99 $^{\circ}$ C
Temperature ramp	Up to 1.5 $^{\circ}$ C/s
Power supply	12 V – DC
Power consumption	Max 60W

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