



HYRIS **bCUBE™**

Compact, fast, smart.

DATASHEET

FEBRUARY 2025



Models:	bCUBE™ 2.0 bCUBE 3™ bCUBEplus Rx™
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Product info:	info@hyris.net
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Ordering info:	office@hyris.net
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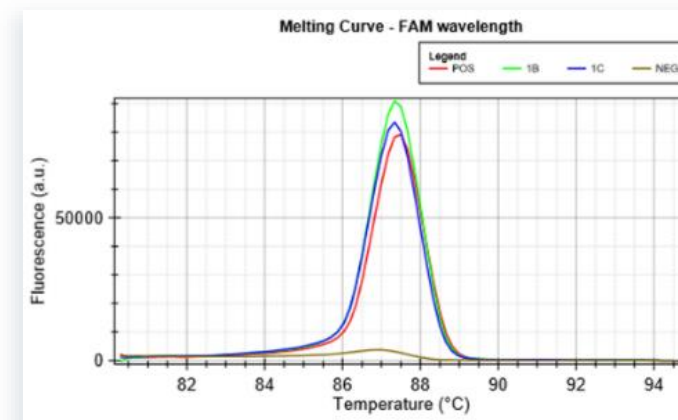
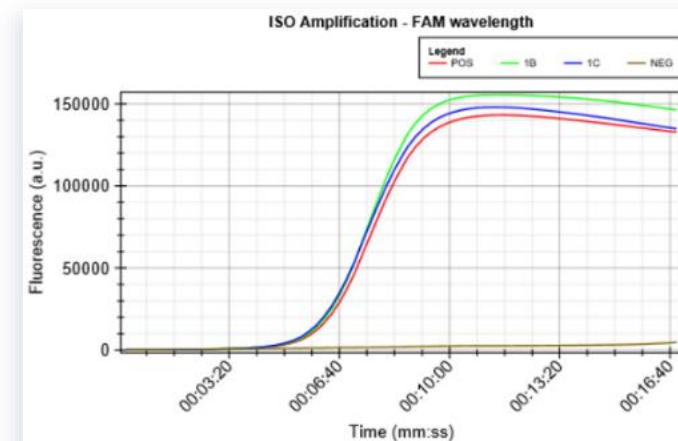
Manufactured by:	 Viale Lancetti 19 20158 Milan, Italy
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Visit our website:	www.hyris.net
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Main features

- Portable, fast DNA/RNA amplification and detection
- Robust, Compact, Lightweight
- High precision thermal control
- Performing Isothermal Amplification, Real Time PCR and Melting Curves
- Simultaneous from 2 to 4 wavelengths detection (FAM, HEX, ROX, CY5) depending on the model
- Enhanced connectivity: Wi-Fi, Ethernet
- HYRIS **bDATA™** service features cloud storage as well as remote control and monitoring

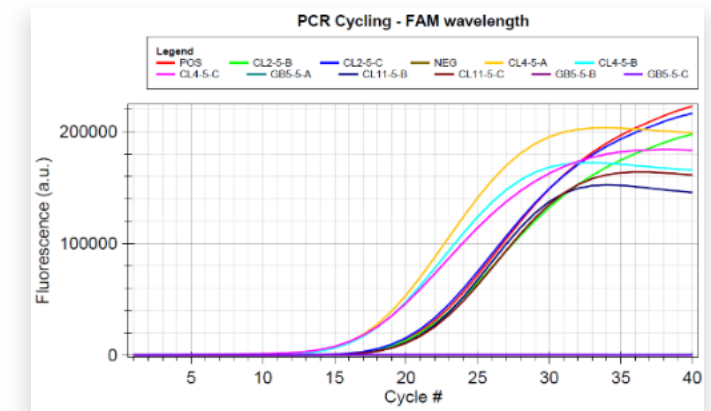


Models

- bCUBE™ 2.0 – two wavelengths (FAM/HEX)
- bCUBE 3™ - three wavelengths (FAM/HEX/CY5)
- bCUBEplus™ - four wavelengths (FAM/HEX/CY5/ROX)

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 slower ramps (melting curves)
- High speed detection enables high resolution melting curves (sampling < 0.05°C)
- Wireless and wired connectivity for maximum flexibility



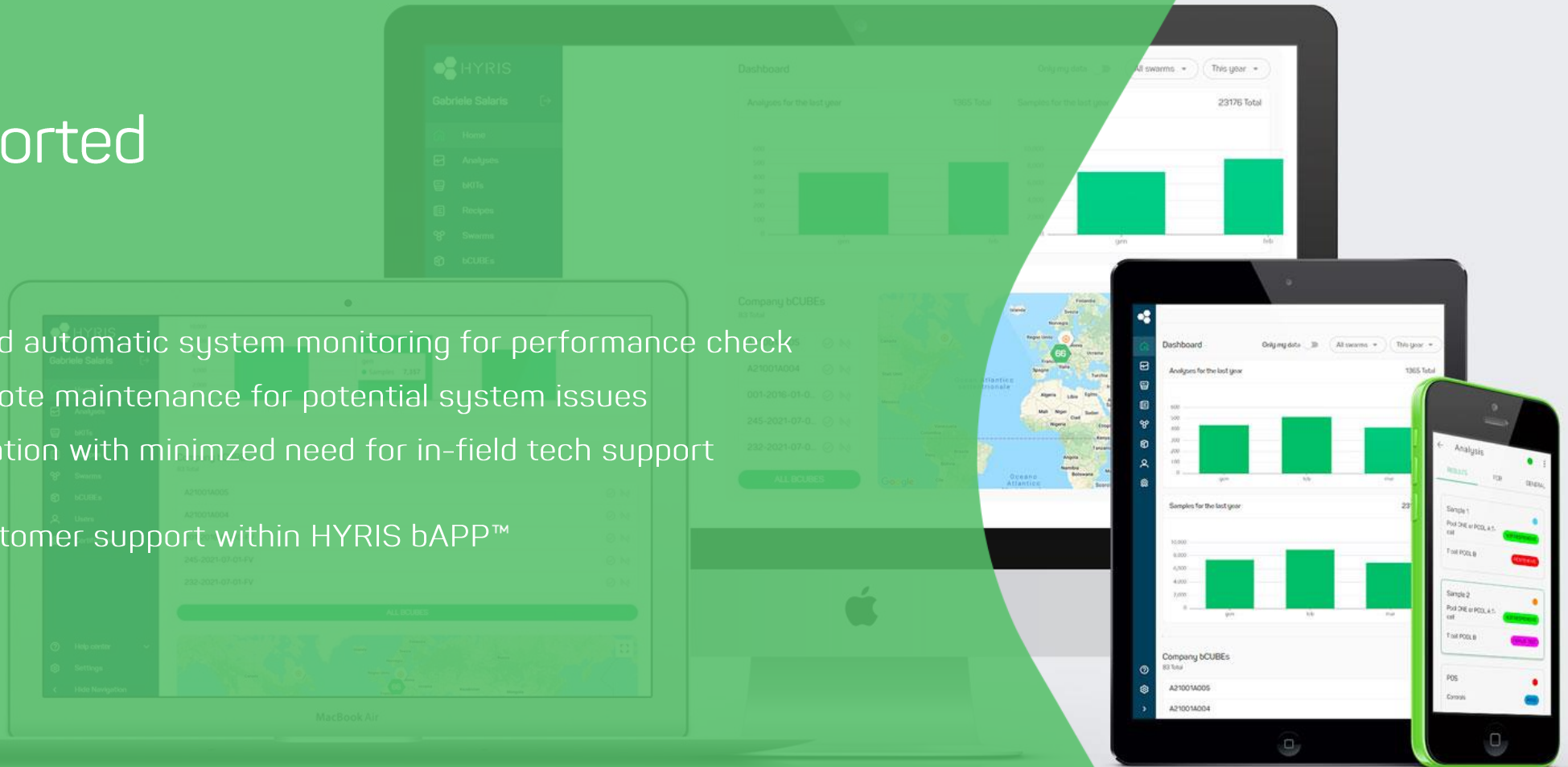
Get smarter

- 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 supported

- Continuous and automatic system monitoring for performance check
- Predictive remote maintenance for potential system issues
- Remote calibration with minimized need for in-field tech support operations
- Integrated customer support within HYRIS bAPP™



Consumables

- Proprietary plates with 16 or 36 wells that can work as interoperable on the all devices and models

Our 16- or 36-well plates support reaction volumes of 10 μ L to 30 μ L/well, enabling precise micro-volume assays



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

HYRIS **bCUBE3™** | Ref: H0001- 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 – 3 wavelengths
EXCITATION WAVELENGTHS	472 nm (FAM), 530 nm (HEX), 630 nm (CY5)
OPTICAL DETECTION	High resolution, low noise CMOS Camera (1.3 MP)
ACQUISITION TIME	< 1s – Total time for all samples

DETECTED WAVELENGTHS	524nm (FAM), 572 nm (HEX), 665 nm (CY5)
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

HYRIS bCUBEplus Rx™ | Ref: H0006- 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 – 4 wavelengths
EXCITATION WAVELENGTHS	472 nm (FAM), 530 nm (HEX), 570 nm (ROX), 635 nm (CY5)
OPTICAL DETECTION	High resolution, low noise CMOS Camera (5MP)
ACQUISITION TIME	< 1s – Total time for all samples

DETECTED WAVELENGTHS	520nm (FAM), 565 nm (HEX), 615 nm (ROX), 665 nm (CY5)
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 2.0 °C/s (Heating) 2.5 °C/s (Cooling)
POWER SUPPLY	12 V – DC
POWER CONSUMPTION	Max 60W



For more information
and commercial
inquiries



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