

BD HEMOSPHERE



ABOUT

The **BD HemoSphere** hemodynamic monitor shows pressure, flow, and tissue oximetry readings. It works with a wide range of cuffs, sensors, and catheters, so one monitor can be set up for noninvasive, minimally invasive, or invasive monitoring. Plug-in modules and cables handle the connections, so you only add what your setup needs. It has a 12.1 inch touchscreen, a carry handle, and a hot-swappable battery. It also supports Acumen HPI software, which helps spot signs of hemodynamic instability.

FEATURES

Modular Setup: Optional Swan-Ganz, ClearSight, and Technology modules.

Acumen HPI Software: Works with an Acumen IQ cuff or sensor to help predict hypotension.

Tissue Oximetry: The optional ForeSight oximeter cable and sensor measure StO₂.

12.1 Inch Touchscreen: A capacitive touch display with 1024 x 768 resolution.

Hot-Swappable Battery: Lets you change the battery without interrupting monitoring.



DIMENSIONS

Height: 11.7 in (29.7 cm)

Width: 12.4 in (31.5 cm)

Depth: 5.56 in (14.1 cm)

Weight: 10 lb (4.5 kg)

DISPLAY

Screen Size: 12.1 in (30.7 cm) active area

Resolution: 1024 x 768 LCD

Screen Type: Projective capacitive touch

SPECIFICATIONS



MONITORING CAPABILITIES

Sensor and Catheter Compatibility: Noninvasive finger cuffs (Acumen IQ and Acumen IQ Plus), FloTrac and Acumen IQ sensors, Swan-Ganz catheters, and ForeSight tissue oximetry sensors

Plug-In Modules: Swan-Ganz, ClearSight, and Technology (tissue oximetry) modules

Predictive Software: Acumen Hypotension Prediction Index (HPI) with Smart Trends

Heart Monitoring: Right and left heart monitoring insights

Flow Parameters: Cardiac output and index (CO/CI), stroke volume and index (SV/SVI), cardiac power output and index (CPO/CPI)

Fluid Responsiveness: Stroke volume variation (SVV) and pulse pressure variation (PPV)

Pressure and Resistance: MAP, systolic and diastolic pressure, systemic vascular resistance and index (SVR/SVRI), pulmonary vascular resistance and index (PVR/PVRI), pulmonary artery pressures (PASP/PADP)

Heart Function: Dynamic arterial elastance (Eadyn), left ventricular contractility (dP/dt), right ventricular ejection fraction and end-diastolic volume (RVEF/EDV), pulse rate

Oxygenation: Mixed venous oxygen saturation (SvO2), tissue oxygen saturation (StO2), and relative change in total hemoglobin (Δ ctHb)

POWER

Voltage: 100 – 240 VAC

Frequency: 50/60 Hz

Current: 1.5 to 2.0 A

Battery: Hot-swappable lithium iron phosphate (LiFePO4) battery for continuous monitoring

CONNECTIVITY

Ethernet: 1 RJ-45 port

Video Output: 1 HDMI port

USB Ports: 2 (1 USB 2.0, 1 USB 3.0)

Serial Port: 1 RS-232

Hospital Information System: HL7 connectivity (integration services subject to local availability)

Analog Pressure Output: Pressure out to a bedside monitor (DPT)

ECG Input: Accepts ECG signal from a bedside monitor (1/4 in stereo jack, 30 to 200 BPM)