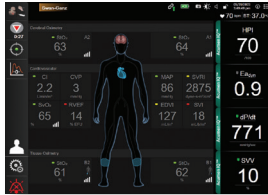


# HemoSphere™ Monitor

## HemoSphere™ 8 Technology Specifications

HemoSphere™ Monitor offers full-range cuff, sensor, and catheter compatibility designed for individualized patient management. With expanded capabilities and predictive algorithms, HemoSphere™ Monitor offers actionable insights to help you stay ahead of critical moments.



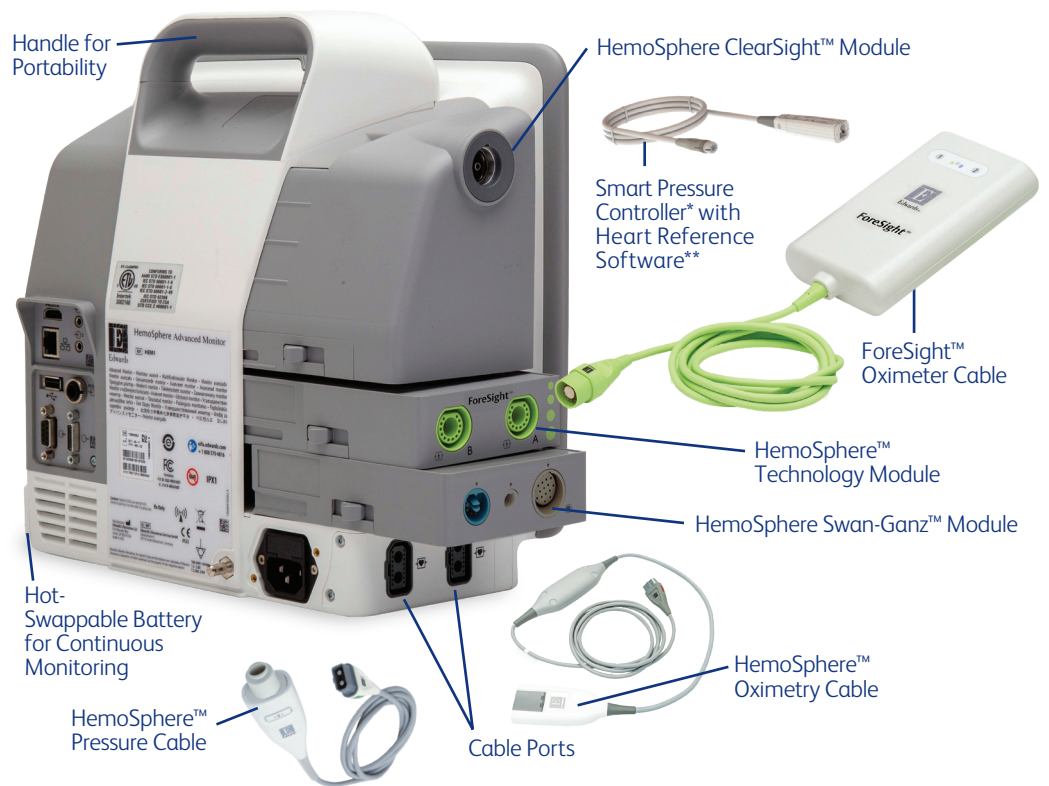
Right and left heart monitoring insights



Acumen HPI™ Software with Smart Trends



HemoSphere™ Noninvasive Monitoring Screen



### Compatible products and parameters include:

	Noninvasive			Minimally-invasive		Invasive
	Acumen IQ™ Plus Cuff	Acumen IQ™ Cuff	ForeSight™ Sensor	Acumen IQ™ Sensor	FloTrac™ Sensor	Swan-Ganz™ Catheter
StO <sub>2</sub>			●			
ΔctHb			●			
HPI	●	●		●		
Ea <sub>dyn</sub>	●	●		●		
dP/dt	●	●		●		
CO/CI	●	●		●	●	●
SV/SVI	●	●		●	●	●
SVV/PPV	●	●		●	●	
SVR/SVRI	●	●		●	●	●
PVR/PVRI						●
SvO <sub>2</sub>						●
RVEF/EDV						●
PR	●	●		●	●	
PASP/PADP						●
CPO/CPI	●	●		●	●	●
MAP/SYS/DIA	●	●		●	●	

\*Smart Pressure Controller (PC1Q) with Heart Reference Sensor Software is sold separately and is compatible with the Acumen IQ™ Plus Cuff.

\*\*A separate Heart Reference Sensor is not needed with the Smart Pressure Controller (PC1Q) with Heart Reference Sensor Software.

HemoSphere™ 8 software is compatible with both the Acumen IQ™ Cuff and Pressure Controller (PC2K) and the Acumen IQ™ Plus Cuff and Smart Pressure Controller (PC1Q).



## HemoSphere™ Bundles\*

Model	Description
<b>HEM7CARDIAC</b> (Cardiac bundle)	HemoSphere™ Advanced Monitoring System with Swan-Ganz™ Module, Oximetry Cable, one pressure cable, Acumen HPI™ Software, and Tissue Oximetry System (module and cable)
<b>HEM7PCSR2</b> (Smart Recovery bundle)	HemoSphere™ Advanced Monitoring System with ClearSight™ Module, Pressure Controller, Heart Reference Sensor, one pressure cable, and Acumen HPI™ Software; Tissue Oximetry System included (cable must be purchased separately)
<b>HEM7T02</b>	HemoSphere™ Advanced Monitoring System with Tissue Oximetry System (module and cable)
<b>HEMCSMUPG</b> (HemoSphere™ upgrade)	Pressure Controller, Heart Reference Sensor, and the Windows 10 upgrade
<b>HEMAQCXUPG</b> (HemoSphere™ upgrade)	Tissue Oximetry module and cable, Acumen HPI™ Software, pressure cable
<b>HEMCX2</b> (HemoSphere™ upgrade)	HemoSphere™ Tissue Oximetry System (module and cable) upgrade kit

## HemoSphere™ Modules

<b>HEMSGM10</b>	HemoSphere™ Swan-Ganz Module	
Weight - approx. 1.0 lb (0.45 kg)	Height - 1.36 in (3.45 cm)	
Width - 3.53 in (8.96 cm)	Depth - 5.36 in (13.6 cm)	
<b>HEMTOM10</b>	HemoSphere™ Technology Module	
Weight - 1.0 lb (0.45 kg)	Height - 1.4 in (3.5 cm)	
Width - 3.5 in (9.0 cm)	Depth - 5.4 in (13.6 cm)	
<b>HEMCSM10</b>	HemoSphere™ ClearSight module	
Weight - approx. 2lb (0.9 kg)	Height - 5.1 in (13 cm)	
Width - 5.6 in (14 cm)	Depth - 3.9 in (10 cm)	

## HemoSphere™ Battery Pack

<b>HEMBAT10</b>	HemoSphere™ Battery Pack	
Weight - 1.1 lbs (0.5 kg)	Height - 1.38 in (35 mm)	
Width - 3.15 in (80 mm)	Depth - 5.0 in (126 mm)	
Cells - 4 x LiFePO <sub>4</sub> (lithium iron phosphate)		

\*For a complete list, please contact your BD sales representative

\*\*Smart Pressure Controller Cable includes Heart Reference Sensor Software

**CAUTION: Federal (United States) law restricts these devices to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, precautions and adverse events.**

BD, Irvine, CA 92618 USA

[bd.com](http://bd.com)

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## Monitor (HEM1) specifications

Weight	10 ±0.2 lbs (4.5 ±0.1 kg)	
Width - 12.4 in (315 mm)	Height - 11.7 in (297 mm)	Depth - 5.56 in (141 mm)
Display	Active area - 12.1 in (307 mm) Resolution - 1024 x 768 LCD	
Operating system	Windows 10 IoT	
Rated supply voltage	100-240 Vac, 50/60 Hz	
Rated input	1.5 to 2.0 Amps	

## Input / output

Touch screen	Projective capacitive touch	
RS-232 serial port (1)	Proprietary protocol: maximum data rate = 57.6 kilo baud	
USB ports (2)	1 USB 2.0, 1 USB 3.0	
Ports	1 RJ-45 Ethernet, 1 HDMI	
Hospital information system connectivity	Health Level 7 (HL7); integration services are subject to local availability	
DPT pressure	DPT pressure out	
ECG monitor input	Sync line conversion: 1V/mV; Input voltage range +/- 10V full scale; Resolution = ± 1 BPM; Range = 30 to 200 BPM; ¼ in. stereo jack; analog cable Accuracy = ±10% or 5 BPM of the input	

## HemoSphere™ Cables\*

<b>AAFMC</b>	Acumen AFM™ Cable	
Weight - approx. 0.6 lbs	Length - 15 ft. (4.6m)	
<b>HEMFSM10</b>	ForeSight™ Oximeter Cable	
Weight - 2.4 lbs (1.05 kg)	Sensor Cable Length - 4.9 ft (1.5m)	
	Technology Module Cable Length - 15 ft (4.6 m)	
<b>HEMOXSC100</b>	HemoSphere™ Oximetry Cable	
Weight - approx. 0.54 lbs (0.24 kg)	Length - 9.6 ft (2.9 m)	
<b>HEMPSC100</b>	HemoSphere™ Pressure Cable	
Weight - approx. 0.64 lbs (0.29 kg)	Length - 10 ft (3.0m)	
<b>PC2K</b>	Pressure Controller Kit	
	Length - 12 ft (3.7m)	
<b>PC1Q</b>	Smart Pressure Controller**	
	Length - 14.8 +/- 0.2 ft (4.5m)	

