

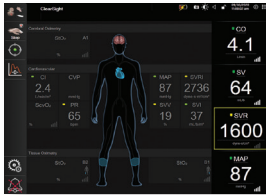
Technology Specifications

HemoSphere Advanced Monitor

The only modular hemodynamic monitoring platform to offer full-range cuff, sensor, and catheter compatibility and first-of-its-kind hypotension predictive decision support software, HemoSphere advanced monitor enables proactive, individualized patient management.



HPI secondary screen*



Physiology screen



Fluid responsiveness result screen



Compatible products and parameters include:

	Noninvasive		Minimally-invasive		Invasive		
	ClearSight finger cuff	ForeSight Elite sensor	Acumen IQ sensor	FloTrac sensor	Swan-Ganz catheter	Edwards oximetry CVC	PediaSat oximetry catheter
StO ₂		•					
HPI			•				
Ea _{dyn}			•				
dP/dt			•				
CO/CI	•		•	•	•		
SV/SVI	•		•	•	•		
SVV/PPV	•		•	•	•		
SVR/SVRI	•		•	•	•		
PVR/PVRI					•		
SVo ₂					•		
ScvO ₂						•	•
RVEF/EDV					•		
MAP	•		•	•			
PAP					•		
CVP					•	•	•



HemoSphere advanced monitor

Model*	Description
HEMCARDIAQ (Smart Recovery cardiac bundle)	HemoSphere advanced monitoring system with Swan-Ganz module, oximetry cable, two pressure cables, HPI, and tissue oximetry system (module and cable)
HEMAQSR2 (Smart Recovery non-cardiac bundle)	HemoSphere advanced monitoring system with ClearSight module, pressure controller, heart reference sensor, two pressure cables, and HPI; tissue oximetry module included (cable must be purchased separately)
HEMTI2	HemoSphere advanced monitoring system with tissue oximetry system (module and cable)
HEMCSMUPG (HemoSphere upgrade)	ClearSight module, pressure controller, heart reference sensor, and the Windows 10 upgrade
HEMAQCXUPG (HemoSphere upgrade)	Tissue oximetry module and cable, HPI, pressure cable
HEMCX2 (HemoSphere upgrade)	HemoSphere tissue oximetry system (module and cable) upgrade kit

Electrical

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)	Edwards 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 + full scale; Resolution = ± 1 BPM; Range = 30 to 200 BPM; ¼ in. stereo jack; analog cable

* Acumen Hypotension Prediction Index software is unlocked with the Acumen IQ sensor in minimally invasive mode.

CAUTION: Federal (United States) law restricts this device 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.

Edwards, Edwards Lifesciences, the stylized E logo, ClearSight, ForeSight, ForeSight Elite, FloTrac, HemoSphere, HPI, Hypotension Prediction Index, Swan, and Swan-Ganz are trademarks of Edwards Lifesciences Corporation or its affiliates. All other trademarks are the property of their respective owners.

© 2021 Edwards Lifesciences Corporation. All rights reserved. PP--US-5656 v1.0

Edwards Lifesciences • One Edwards Way, Irvine CA 92614 USA • edwards.com

HEM1 Specifications

Weight	10 \pm 0.2 lbs (4.5 \pm 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

HemoSphere modules

Model	Description
HEMSGM10	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)
HEMTOM10	HemoSphere tissue oximetry 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)
HEMCSM10	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 cables**

HEMFSM10	HemoSphere ForeSight Elite tissue oximeter module
Weight - 2.4 lbs (1.05 kg)	Length - 265 in (6731 mm)
HEMOXSC100	HemoSphere oximetry cable
Weight - approx. 0.54 lbs (0.24 kg)	Length - 9.6 ft (2.9 m)
HEMPSC100	HemoSphere pressure cable
Weight - approx. 0.64 lbs (0.29 kg)	Length - 120 in (3048 mm)
PC2K	ClearSight pressure controller kit
	Length - 144 in (3657 mm)

**For a complete list, please contact your Edwards Lifesciences sales representative

HemoSphere battery pack

Model	Description
HEMBAT10	HemoSphere battery pack
Weight - 0.9 lb (0.4 kg)	Height - 1.38 in (35 mm) Width - 3.15 in (80 mm) Depth - 5.0 in (126 mm)
Cells - 4 x LiFePO ₄	(lithium iron phosphate)



Edwards