

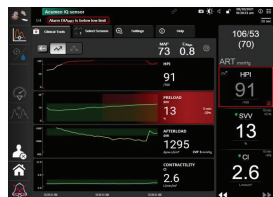
HemoSphere Monitor

Technology Specifications

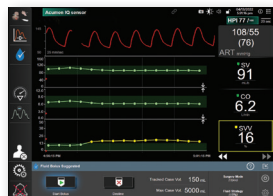
HemoSphere monitor offers full-range cuff, sensor, and catheter compatibility designed for individualised patient management. With expanded capabilities and predictive algorithms, HemoSphere monitor offers new actionable insights to help you stay ahead of critical moments.



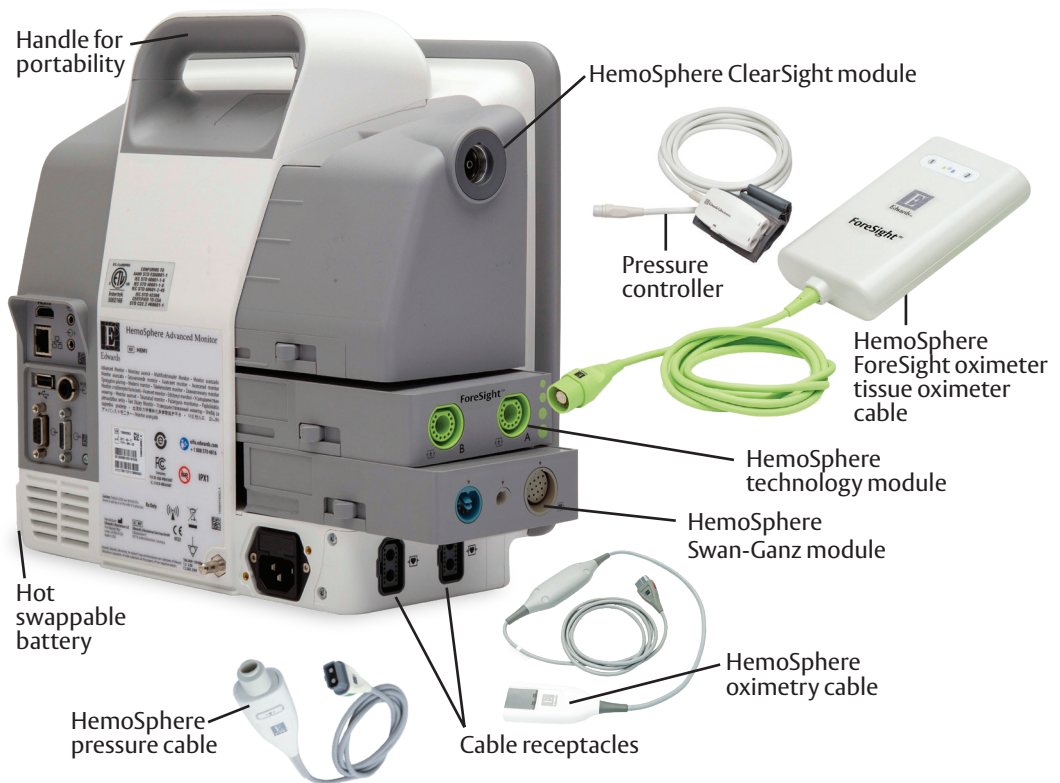
Right and left heart monitoring insights



Acumen smart trends screen



Acumen Assisted Fluid Management software screen



Compatible products and parameters include:

| | Noninvasive | | | Minimally-invasive | | Invasive | |
|-------------------|----------------|------------------------|------------------|--------------------|----------------|--------------------|-------------------|
| | Acumen IQ cuff | ClearSight finger cuff | ForeSight sensor | Acumen IQ sensor | FloTrac sensor | Swan-Ganz catheter | PediaSat catheter |
| StO ₂ | | | • | | | | |
| ΔctHb | | | • | | | | |
| HPI* | • | | | • | | + | |
| Ea _{dyn} | • | | | • | | + | |
| dP/dt | • | | | • | | + | |
| CO/CI | • | • | | • | • | • | |
| SV/SVI | • | • | | • | • | • | |
| SVV/PPV | • | • | | • | • | + | |
| SVR/SVRI | • | • | | • | • | • | |
| PVR/PVRI | | | | | | • | |
| SvO ₂ | | | | | | • | |
| ScvO ₂ | | | | | | | • |
| RVEF/EDV | | | | | | • | |
| MAP | • | • | | • | • | + | |
| PASP/PADP | | | | | | • | |
| CVP** | | | | | | • | |

+ Parameters from Acumen IQ sensor that are viewable on the invasive screen are limited to SVV, Ea_{dyn}, dP/dt, HPI, and MAP when Acumen IQ sensor is used along with Swan-Ganz catheter.

* Acumen Hypotension Prediction Index (HPI) software is unlocked with the Acumen IQ sensor and Acumen IQ cuff.

** CVP can be accessed with TruWave sensor in invasive mode.



Edwards

HemoSphere bundles

| Model | Description |
|------------|--|
| HEMCARDIAC | HemoSphere advanced monitoring system with Swan-Ganz module, oximetry cable, 2 pressure cables, tissue oximetry module, ForeSight module |
| HEMPCSR2 | HemoSphere advanced monitoring system with 2 pressure cables, tissue oximetry module, ClearSight module |
| HEMTO2 | HemoSphere advanced monitoring system with tissue oximetry module, ForeSight module |
| HEMCSMUPG | HemoSphere ClearSight upgrade kit |
| HEMCX2 | HemoSphere tissue oximetry upgrade kit |

HemoSphere modules

| | |
|---|------------------------------|
| 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 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) | |
| HEMCXM10 | 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 oximeter cable |
| Weight - 2.4 lbs (1.05 kg) Length - 239 in (6070 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) | |

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) | 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 +/- 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 battery pack

| | |
|---|-------------------------|
| HEMBAT10 | 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 ₄ (lithium iron phosphate) | |

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

Medical device for professional use. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use (consult eifu.edwards.com where applicable)

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