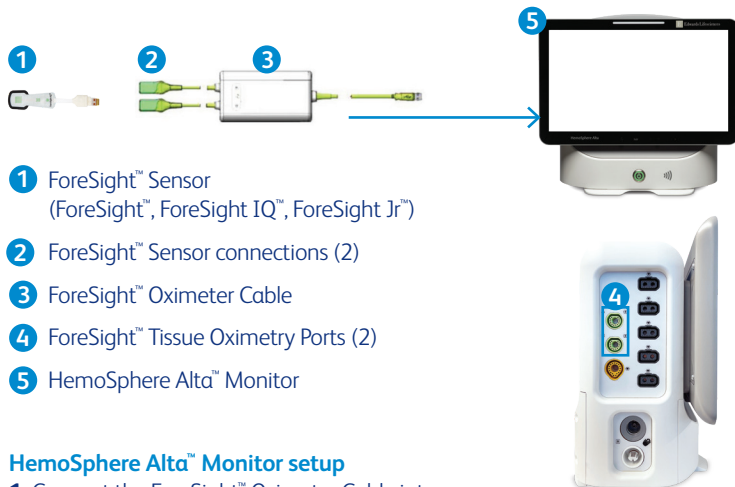


ForeSight™ Sensors on HemoSphere Alta™ Monitor

Setup Guide



- 1 ForeSight™ Sensor (ForeSight™, ForeSight IQ™, ForeSight Jr™)
- 2 ForeSight™ Sensor connections (2)
- 3 ForeSight™ Oximeter Cable
- 4 ForeSight™ Tissue Oximetry Ports (2)
- 5 HemoSphere Alta™ Monitor

HemoSphere Alta™ Monitor setup

- 1 Connect the ForeSight™ Oximeter Cable into the HemoSphere Alta™ ForeSight™ Tissue Oximetry Ports.

NOTE: ForeSight™ Oximeter Cable LED illuminates green when connected to port A, and blue when connected to port B.

- 2 Select **Continue Same Patient** or **New Patient**, enter patient data or "skip" patient data if only ForeSight™ Sensor is used, if not, select the corresponding monitoring mode.

NOTE: ALL ForeSight™ Sensor parameters are available if patient demographics are skipped. Tissue oximetry is available in all monitoring modes.

ForeSight™ Sensor and Location Setup

NOTE: Refer to HemoSphere Alta™ Monitor Operator's Manual, Table 12-2, for sensor selection guidelines based on patient monitoring mode, patient weight, and body location.

- 1 Open ForeSight™ Sensor packaging and inspect for damage. If a sensor seems damaged in any way, it must not be used.
- 2 Clean patient's skin and ensure area is dry prior to sensor application.
- 3 Remove protective liner and apply sensors.
- 4 Connect sensors to ForeSight™ Cable. Ensure each sensor is connected with a tactile click (Figure 1).
- 5 If StO_2 is not a current key parameter, touch the displayed parameter label located inside of any parameter tile to select **StO₂ <Ch>** as a key parameter from the tile configuration menu, where **<Ch>** is the sensor channel. The channel options are A1 and A2 for ForeSight™ Oximeter Cable A and B1 and B2 for ForeSight™ Oximeter Cable B (Figure 2).

- 6 Touch anywhere on the parameter tile to access the parameter configuration window (Figure 3).

Figure 1.





Figure 2.



Figure 3.



- To change the sensor location or patient monitoring mode, touch the Sensor Location tab (Figure 5).
- Select the Patient monitoring mode: adult  or pediatric .
- Select the anatomical location of the sensor.

NOTE: Available sensor locations are listed in table 12-1 in the HemoSphere Alta™ Monitor operator's manual.

The sensor locations are color coded based on the HemoSphere Alta™ Tissue Oximetry Port:

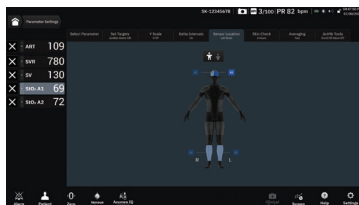
- Green: Sensor locations for a ForeSight™ Oximeter Cable connected to port A on HemoSphere Alta™ Tissue Oximetry port
- Blue: Sensor locations for a ForeSight™ Oximeter Cable connected to port B on HemoSphere Alta™ Tissue Oximetry Port

- Touch the home icon or the screen icon on the navigation bar to return to the monitoring screen.

NOTE: to access the additional ForeSight IQ™ Smart Algorithms (CAI and calibrated tHb), ForeSight IQ™ Sensors must be placed in the cerebral location.

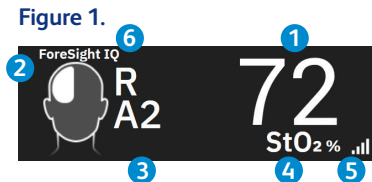
NOTE: ForeSight IQ™ Sensor algorithms are only available for adult patients.

Figure 5.



StO₂ Parameter Tile Area

- 1 StO₂ reading displays current parameter value **1**.
- 2 Sensor Location displays location and side of body where the sensor is placed **2**.
- 3 Channel indicator displays which channel each sensor is connected **3**.
- 4 Parameter label **4**.
- 5 Signal quality indicator (SQI) displays 1-4 bars, with 4 filled bars indicating an optimal signal quality **5**.
- 6 When using a ForeSight™ Sensor, there will be a technology indicator in the top left corner of the parameter tile **6**.



Display reference value


- 1 Select parameter tile, then select **Delta Intervals** (Figure 1).
- 2 Toggle the **Enabled** tab (Figure 1).
- 3 Select **Time** or **Reference** option under the **Method** section.
- 4 In **Time** (Figure 1) select desired time interval (min) and **Measured Delta** – Value Δ or Percentage Δ – option.
- 5 If **Reference** (Figure 2) is selected, the change interval will be calculated from the start of monitoring. This start value can be adjusted under **Reference Value**.
- 6 Touch the home icon or screen icon  to return to the monitoring screen.

Figure 1.

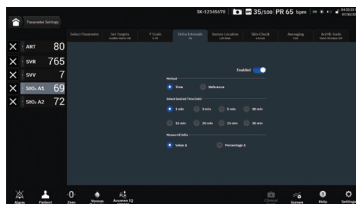
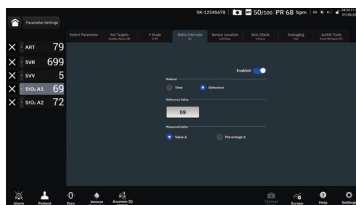
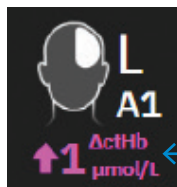
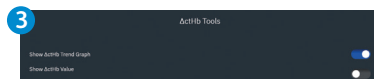
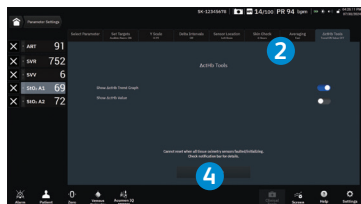


Figure 2.



To display and reset Δ ctHb value or trend display

- 1 Touch anywhere on the StO_2 parameter tile **1** and select the **Δ ctHb Tools** **2** tab.
- 2 Toggle the **Show Δ ctHb Trend Graph** or **Show Δ ctHb Value** button **3**.
- 3 To reset the **Δ ctHb value** or **Δ ctHb trend display**, touch the **Reset Δ ctHb** button **4**.



← Δ ctHb Value



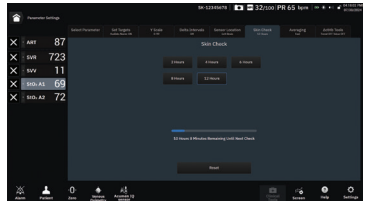
← Δ ctHb Y-axis

← Δ ctHb trend line

← Δ ctHb Y-axis

Skin check assessment

- 1 Touch anywhere on the **StO₂** parameter tile then select the **Skin Check Reminder** tab.
- 2 Choose a time interval between skin check notifications. The default time period is 12 hours.
- 3 When performing skin check assessment, lift the sensor to assess the skin integrity under the sensor.



To display the Cerebral Autoregulation Index (CAI) Parameter

1 If CAI is not a current key parameter, touch the displayed parameter label located inside of any parameter tile (or the “+” to add a new key parameter) to select CAI as a key parameter from the **Tissue Oximetry** tile configuration menu (Figure 1).

2 The StO_2 channel ① and tissue oximetry technology indicators ② appear in white, with the current 20 sec MAP value, MAP source indicator, and MAP trend's Y-axis values ③ displayed in blue. The CAI value ④ will appear in the tile's right side, represented as a value on a scale from 0-100 (Figure 2a).

NOTE: the CAI parameter is only accessible when using a ForeSight IQ™ Large Sensor (in the cerebral location) AND a BD arterial line sensor (TruWave™ DPT, FloTrac™, or Acumen IQ™ Sensor) to measure MAP. The MAP trend and value located inside the CAI key parameter tile is represented with the dotted blue line. (Figure 2b).

Figure 1.



Figure 2a. ②

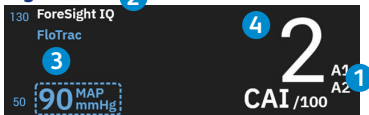
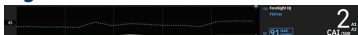


Figure 2b.



Total blood hemoglobin (tHb) parameter

- 1 If tHb is not a current key parameter, touch the displayed parameter label located inside of any parameter label (or the “+” to add a new key parameter) to select **tHb** as a key parameter from the **Tissue Oximetry** tile configuration menu (Figure 3).
- 2 This parameter must be calibrated to provide a continuous noninvasive value of total blood hemoglobin. There is an **exclamation point** indicator on the left side of the parameter tile, that when present, indicates a calibration is needed (Figure 4).
- 3 Touch the **exclamation point** within the parameter tile or anywhere within the **tHb** tile and navigate to the **Calibration** menu icon. Touch **calibrate tHb** (Figure 5).
- 4 Touch the **Draw** button and the draw the blood sample (Figure 6).
- 5 When the lab values are received, touch the **HGB** button to enter the patient’s hemoglobin value.

Figure 3.

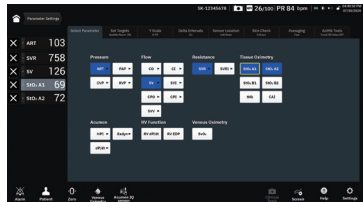


Figure 4.



Figure 5.

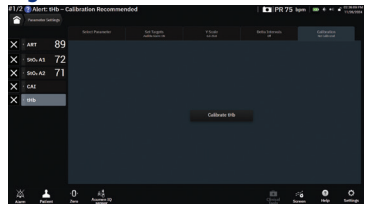
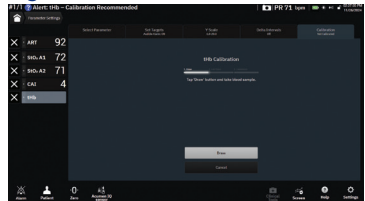


Figure 6.



- 6 Touch the **Calibrate** button to start the calibration process (Figure 7).
- 7 When calibration is complete, the system will automatically close the calibration screen or you can touch the **Close** button and return to monitoring.

NOTE: the tHb parameter is properly calibrated when there is **NO** “exclamation point AND if there is a “CAL” present in the bottom left of the tile (Figure 8). If recalibration is needed, an alert will populate and the “exclamation point” indicator will return within the tile. To resume tHb monitoring, repeat the calibration process as described above.

Figure 7.

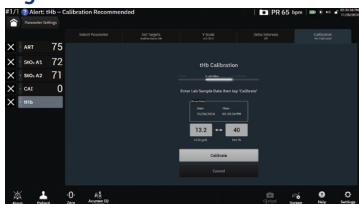


Figure 8.



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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