

# IQVIA Connected Devices: Ambulatory Blood Pressure Monitoring (ABPM)

## *24-Hour blood pressure assessment for clinical research*

Ambulatory Blood Pressure Monitoring (ABPM) is widely used in clinical research to assess blood pressure over a full 24-hour period or longer, providing insight into diurnal patterns and variability that cannot be obtained from routine clinic measurements alone. IQVIA supports the use of ABPM within its Connected Devices offering to help sponsors implement standardized, reliable blood pressure assessment as part of clinical trial execution.

### IQVIA ABPM device: SunTech Medical Oscar 2

While IQVIA Connected Devices maintains a vendor agnostic approach to device selection, we intentionally incorporate devices that align with our focus on improving the patient and site experience without compromising data quality or delivery. Within the IQVIA Connected Devices portfolio, ambulatory blood pressure monitoring is delivered with the SunTech Medical Oscar 2, a clinically validated, medical grade 24-hour ABPM system widely used in clinical research.



Delivering a better patient experience supports higher quality ABPM data and encourages patient retention in both current and future studies. Proprietary motion-tolerant technology helps discern true physiological signals from motion artifacts, while the patented cuff design enhances comfort and supports adherence during extended wear.



#### **Motion-tolerant technology**

- Reduces motion-related measurement failures
- Supports more valid ABPM recordings with fewer errors and re-attempts
- Sites are confident in collecting complete, usable ABPM data set



#### **Patented orbit™ cuff**

- Compression-fit sleeve enhances comfort over traditional D-ring cuffs
- Simplifies application and maintains proper placement through recording
- Improves patient experience and compliance

## ABPM SPECIFICATIONS

<b>Model</b>	SunTech Oscar 2 M250 Ambulatory Blood Pressure Monitor
<b>Cuffs</b>	SunTech Orbit™ cuffs <ul style="list-style-type: none"> <li>• Size 1: 18 - 26 cm</li> <li>• Size 2: 26 - 34 cm</li> <li>• Size 3: 32 - 44 cm</li> <li>• Size 4: 42 - 55 cm</li> </ul>
<b>Reporting</b>	<ul style="list-style-type: none"> <li>• Protocol specific indicator of valid/invalid ABPM recording</li> <li>• Day, night and Overall period averages and variability of SBP, DBP, HR, MAP and PP</li> <li>• Individual measurements of SBP, DBP, HR and MAP in graph and table formats</li> </ul>
<b>Regulatory and validations</b>	<ul style="list-style-type: none"> <li>• FDA 510(k) clearance and CE marked for use in adults and children aged 3 years and above</li> <li>• Independently validated to ESH, BHS, AAMI-SP10</li> </ul>
<b>Calibration</b>	Re-calibration required every two years, managed by IQVIA Logistics
<b>Data connectivity</b>	USB integration with IQVIA CDDP ClinSpark for device initialization and data retrieval

### Confidence in data quality

Proprietary motion-tolerant technology and the patented Orbit™ cuff design reduce failed readings by maintaining proper cuff placement and comfort. This supports more consistent execution across sites, helping reduce variability and data loss and strengthens confidence in the resulting ABPM dataset.



### Improved participant experience

ABPM can be an unpleasant experience for participants. A more comfortable cuff and a better tolerated device experience support adherence throughout the monitoring. This helps reduce reading failures, repeat visits, and participant frustration.



### Reduced operational burden

Operational workflows and centralized support informed by global experience with blood pressure device deployment help reduce site burden during study conduct. This approach minimizes troubleshooting and repeat measurements, supporting smoother day-to-day execution at the site level.



### Ongoing support and readiness

A dedicated help-desk team trained on the device, along with project and data management support, is available to help sites throughout the study. Site training materials and troubleshooting guidance enable efficient issue resolution and a smooth site experience.



### Central BP and arterial assessment option

An optional configuration of the ABPM system can incorporate SphygmoCor® pulse wave analysis and central blood pressure assessment. This supports studies seeking deeper hemodynamic characterization beyond routine ABPM. Parameters reported include central BP (cSBP, cDBP), central augmentation pressure (cAP) and augmentation index (cAIx). Ambulatory Arterial Stiffness Index (AASI) can also be derived to report on arterial stiffness.

Learn how IQVIA Connected Devices can help enhance clinical trials with reliable patient and site focused ambulatory blood pressure monitoring solutions.