



Wireless Continuous Blood Pressure and Vital Signs

Continuous Non-Invasive Blood Pressure (CNIBP) and Vital Signs monitoring from a simple finger cuff.



Caretaker® Wireless, Continuous, Blood Pressure & Vital Signs

The Caretaker® is the world's most innovative wireless noninvasive patient monitor, using a simple disposable finger cuff to measure Continuous Beat-by-Beat Blood Pressure "CNIBP", Heart Rate, Respiration Rate, and other physiological parameters. This unique technology enables safe, secure, and accurate patient monitoring from virtually anywhere, including remote patient monitoring from a secure cloud portal.



Continuous, Non-Invasive, "Beat by Beat" Blood Pressure



Wearable, Wireless Vital Signs (simple finger cuff)



ECG Accurate Heart Rate (without electrodes)



Respiration Rate (without masks or chest strap)



Bluetooth SP02 & BodyTemp Options

Innovative Technology

Caretaker sets a new standard in mobility, simplicity, and cost effectiveness, enabling continuous monitoring as patients traverse the full continuum of care, within the hospital, during transport, and after discharge.

Using a low-cost, disposable finger cuff, Caretaker's patented Pulse Decomposition Analysis ("PDA") algorithms process the arterial pulse wave-form to derive CNIBP, Heart Rate, Respiration Rate, and other hemodynamic parameters.

By eliminating traditional electrodes, wires, hoses, and arm cuffs that tether patients to bulky machines, Caretaker maximizes patient mobility and comfort while improving clinician efficiency. Traditionally, monitoring accurate CNIBP has been limited to invasive catheters or expensive complicated machines used only in critical care settings. Caretaker's low-cost, small, comfortable form factor, and intuitive design bring "ICU Quality" CNIBP and Patient Monitoring capabilities to virtually any setting.

Using our FDA Approved finger-cuff and Pulse Decomposition Analysis technology, Caretaker non-invasively and continuously measures Beat-by-Beat Blood Pressure that exceeds AAMI accuracy standards, enabling clinicians to monitor patient vitals, pressure waveforms, and historical trends from virtually anywhere.

Caretaker is FDA cleared as a Class II Medical Device- Prescription use only.



Better for the Patient

The current standard of monitoring hospitalized patients, involves intermittent spot-checks of blood pressure, heart rate and other measurements averaged throughout the day.

Caretaker is designed to continuously monitor Blood Pressure and vitals without interruption, providing a clinician with a more accurate view of patient health and enabling earlier identification of issues requiring intervention.

Continuous monitoring through Caretaker contributes to safer, more restful hospital stays. The system is comfortable to wear and does not restrict a patient's freedom of movement by having additional connected leads or cords. It provides continuous non-invasive blood pressure (CNIBP), eliminating frequent cuff-based blood pressure checks.

Better for the Clinician

Patient environments vary widely within hospitals based on patient condition. Multiple patients are often assigned to one nurse, and management of patient's vital signs is very important to determine the best possible care and clinical pathway.

A clinician can only address one patient at a time, so having access to a complete picture of patient's status from anywhere is a big advantage. Effectively, Caretaker can enable any patient to be a "Telemetry Patient" without requiring dedicated, expensive Telemetry beds.

Caregivers can remotely monitor all patient vital signs securely on a remote display or Nursing Station Monitor without the need for cumbersome wires & leads, or confusing connectivity / network configurations.



The Caretaker solution provides real time data enabling healthcare staff to provide early intervention and rapid response to a patient's changing health conditions.



Continuous Non-invasive Blood Pressure (CNIBP) & Vital Sign Compliance Data

Compliance Standard	ANSI/AAMI/ISO 81060-2:2013 Non-invasive Sphygmomanometers - Part 2: Clinical investigation of automated measurement type.
Principle of Operation	Patented Pulse Decomposition Analysis
Systolic	Range: 60 to 240 mmHg Accuracy: Mean error of less than ± 5 mmHg and a std. dev. of ≤ 8 mmHg Resolution: 1 mmHg
Diastolic	Range: 40 to 160 mmHg Accuracy: Mean error of less than ± 5 mmHg and a std. dev. of ≤ 8 mmHg Resolution: 1 mmHg
Mean Arterial Pressure	Range: 50 to 185 mmHg Accuracy: Mean error of less than ± 5 mmHg and a std. dev. of ≤ 8 mmHg Resolution: 1 mmHg
BP Accuracy Validation Study	ICU-based cohort with radial arterial catheter 23 m/11 f, mean age: 44.05 y, SD: 13.9 y, mean weight: 95.3 kg, SD: 27.4 kg
Heart Rate	Tracking accuracy: Heart rate <2 BPM, Beat by Beat inter-beat interval <6 ms; Range: 30-200 bpm
Respiration Rate	Tracking accuracy: ± 3 Br/Min; Range 6-32 Br/Min

	Systolic Specifics	MAP Specifics	Diastolic Specifics
Sample Size	99,432 data points		
Mean	-0.36 mmHg	1.50 mmHg	-0.52 mmHg
Standard Deviation	7.66 mmHg	6.77 mmHg	6.98 mmHg
Correlation	0.91	0.81	0.83
Upper 95% Limits of Agreement (+1.96 SD)	14.65	11.77	13.16
Upper 95% Limits of Agreement (+1.96 SD)	15.37	14.77	14.20

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