



CNAP® IN RESEARCH

reliable, accurate
continuous noninvasive blood pressure
for scientific purposes

KEY FEATURES

NBP Cuff

- > Automated scaling to brachial pressure (gold standard) at start of measurement and user programmable
- > Variety of sizes to fit pediatric thru large adult

Double finger cuffs

- > Quick and error-free application
- > System includes 3 cuff sizes (small/ medium/ large)
- > Long-term recording (24 hrs per hand)
- > User selectable rotation interval up to 60 min. per finger

Continuous waveform

- > Calibrated pulse waveform
- > Continuous tracing of hemodynamic changes without interruptions to recalibrate
- > Beat-to-beat systolic, diastolic, mean BP values

Connectivity

- > Plug & play integration into all common data acquisition systems and patient monitors

Data storage and analysis

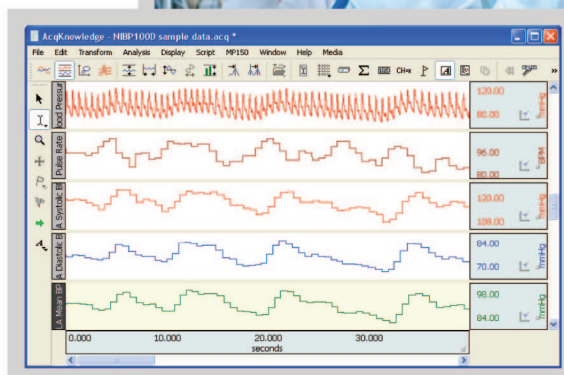
- > Unlimited data storage via USB interface
- > Data format (*.csv) for import into all common data analysis software packages (e.g. AcqKnowledge®, Matlab, MS Excel, SPSS, etc.)

Accuracy

- > Reliably equivalent to invasive blood pressure (IBP) ^{1,2}

APPLICATIONS IN RESEARCH

- > Physiology
- > Psychophysiology
- > Autonomic Function
- > Cardiology
- > Neurology
- > Psychology
- > Sports / Exercise Physiology
- > Pharmacology



SPECIFICATIONS

Sample rate	100 Hz
Storage data format	*.csv (BP waveform; beat values, NBP)
Interfaces	AUX (non isolated): -5V to 5 V BP Wave Out (isolated): 5µV/V/mmHg
Adult & Pediatric	~ 4 years (> 20 kg)
Language Options	multilingual display

RESEARCHERS COUNT ON CNAP® TECHNOLOGY TO...



- ...study the influence of slow pressure oscillations on self-paced movements.³
- ...study the correlation between stroke severity and autonomic dysfunction.⁴
- ...study the effects of mainstream media on women's physiological and psychological functioning.⁵
- ...study the detection of deception by use of continuous blood pressure.⁶
- ...develop an automated closed-loop double-vasopressor system to treat hypotension during spinal anesthesia for cesarean section.⁷
- ...study the relationship between cerebral perfusion during heat stress and the tolerance to a stimulated hemorrhage.⁸

"Hemo"- dynamize your research work with CNAP®!

BENEFITS FOR RESEARCH

- > **Reliable & accurate** noninvasive beat-to-beat measurements
- > Good for **short & long-term monitoring**
- > Gets running quickly: **fast set up & calibration**
- > **Consistent results** due to reliable system design
- > **Easy connection** to 3rd party data acquisition systems
- > **Reusable** CNAP® double finger sensors



local distributor:



Item: NIBP100D

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 4 Hiltz, M. J., Moeller, S., Akhundova, A., Marthol, H., Pauli, E., De Fina, P., & Schwab, S. (2011). High NIHSS values predict impairment of cardiovascular autonomic control. *Stroke: a journal of cerebral circulation*, 42(6), 1528–33.
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 7 Sia, a T. H., Tan, H. S., & Sng, B. L. (2012). Closed-loop double-vasopressor automated system to treat hypotension during spinal anaesthesia for caesarean section: a preliminary study. *Anaesthesia*, 1–8.
 8 Lee JF, Harrison ML, Brown SR, B. R. (2013). The magnitude of heat-stress induced reductions in cerebral perfusion does not predict heat-stress induced reductions in tolerance to a simulated hemorrhage. *Journal of Applied Physiology*, 114(1), 37–44.



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