ADINSTRUMENTS — making science easier

FMS — Finapres Medical Systems

ADInstruments Human NIBP Nano System combines the accuracy of Finapres technology with the flexible analysis of LabChart software.

Measure non-invasive blood pressure continuously and non-invasively by following finger arterial pressure changes. Capture continuous blood pressure data during sleep or exercise and monitor trends in response to interventions.

Dual finger cuffs and an adjustable cuff-switching mechanism make long sampling periods easy for you and comfortable for your subject. Continuously calibrate unloaded finger arterial size with AutoCal for simple initial setup and automatic adjustment of data. Automatically adjust for hydrostatic pressure changes due to movement with the Height Correction Unit (HCU). Certified safe for use on human subjects with strict adherence to international standards.

Analysis is easier with all your data in one place

Record cardiac parameters including Systolic, Diastolic, and Mean Arterial blood pressure directly into LabChart with the Human NIBP Nano System. Simultaneously acquire additional physiological signals by adding a PowerLab data acquisition system and stream all your data into one LabChart file for easy comparison and analysis.

Easily estimate Cardiac Output in real time

LabChart's free Non-Invasive Cardiac Output (NICO) extension allows estimations of Cardiac Output, Stroke Volume, and Total Peripheral Resistance to be calculated in real-time right in a LabChart channel. Proven, published algorithms are used to give you confidence in the results.

Human NIBP Nano System finger cuffs

Applications
- Cardiorespiratory Studies
- Exercise Physiology
- Hemodynamic Studies
- Hypertension
- Polysomnography (Sleep studies)
- Psychophysiology

TOP 100 WORLDWIDE

ADInstruments equipment is used in the top 100 institutions for Life Science worldwide and is cited in more than 30,000 peer-reviewed papers.

The Human NIBP Nano System includes:

1 x Human NIBP Nano Wrist Unit

Human NIBP Nano Interface

LabChart Pro

LabChart Pro Data Analysis Software

purchased separately

1 x HCU (Height Correction Unit)

1 x Finger Ruler

Your choice of Finger Cuffs (s/m/l)

purchased separately

Quick Start Guide

Specifications

Human NIBP Controller
|	
Dimensions	55 × 120 × 260 mm (h x w x d)
Weight	1.4 kg

Wrist Unit
Material	Aluminium (plastic casing) with Velcro® fastening
Dimensions	93 × 60 × 35 mm
Weight	250 grams (Wrist Unit cable excluded)

Instrument Information
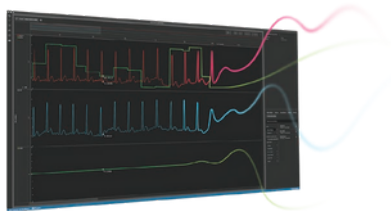|	
Cuff pressure	Max. 350 mmHg
Height sensing	Range ± 100 mmHg
Blood pressure accuracy	1% of full scale (max. 3 mmHg) Automatic zeroing

Instrument Accuracy
Height correction	2 mmHg Manual zeroing
Heart rate	(Rate [bpm] / 60)%, i.e., at 60 bpm, accuracy is ± 1%
Interbeat interval	10 ms (max, non-accumulating)
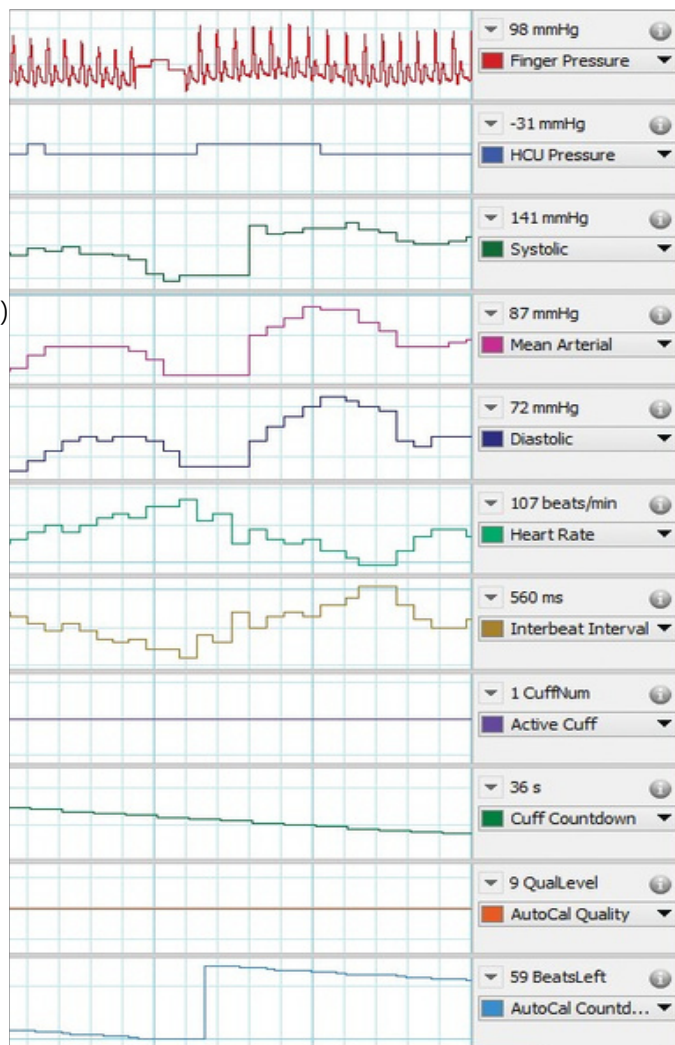
Reliable, real-time display of Human NIBP Nano data in LabChart allows you to monitor Finger Arterial Pressure, HCU Pressure, Systolic, Diastolic, Mean Arterial, Heart Rate, and Interbeat Interval.

98 mmHg	Finger Pressure
-31 mmHg	HCU Pressure
141 mmHg	Systolic
87 mmHg	Mean Arterial
72 mmHg	Diastolic
107 beats/min	Heart Rate
560 ms	Interbeat Interval
1 CuffNum	Active Cuff
36 s	Cuff Countdown
9 QualLevel	AutoCal Quality
59 BeatsLeft	AutoCal Countd...

— Software and Hardware Connectivity —

LabChart LIGHTNING

LabChart Lightning is the latest iteration of our 34-year history of creating easy to use data acquisition and analysis software, empowering innovative researchers to make unique scientific discoveries with unlimited freedom and flexibility.

LabChart

LabChart data analysis software creates a platform for all of your recording devices to work together, allowing you to acquire biological signals from multiple sources simultaneously and apply advanced calculations and plots.

PowerLabC

+ Front End Interface *(recommended)*

The combination of PowerLab C and C Series Interfaces creates a modular data acquisition foundation system for researchers looking to invest in customizable, reliable solutions for both now, and in the future.

ANIMA LAB

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