

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

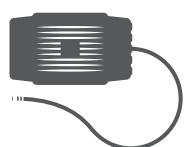
### Applications

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



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



1 x HCU (Height  
Correction Unit)



Human  
NIBP Nano  
Interface



1 x Finger Ruler



Your choice of  
Finger Cuffs (s/m/l)  
*purchased separately*



Quick Start Guide

## LabChart Pro

LabChart Pro Data Analysis Software  
*purchased separately*

## 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

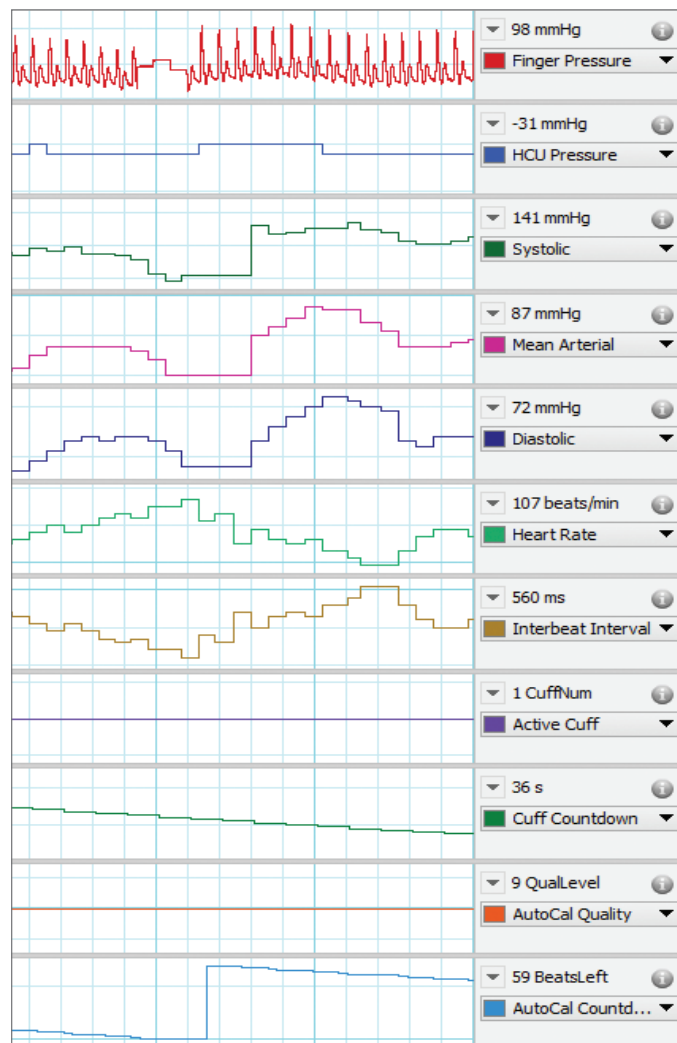
### Instrument Accuracy

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)

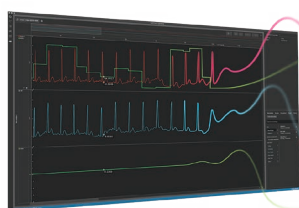


Reliable, real-time display of Human NIBP Nano data in LabChart allows you to monitor Finger Arterial Pressure, HCU Pressure, Systolic, Diastolic, Mean Arterial, Heart Rate, and Interbeat Interval.

## 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.

**PowerLab**

+ 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.

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