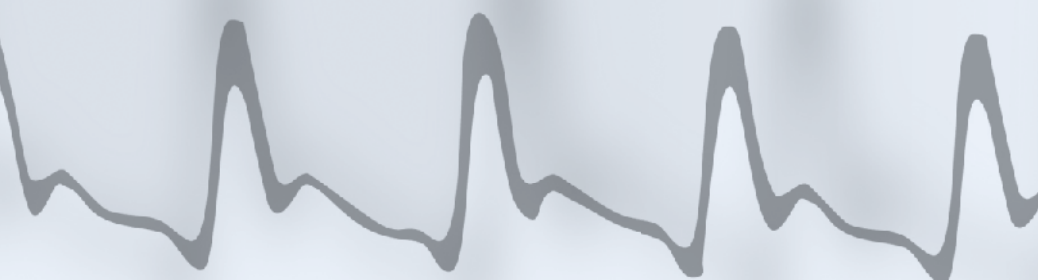




TASK FORCE® MONITOR

THE NONINVASIVE STANDARD

FULL HEMODYNAMICS &
AUTONOMIC FUNCTION



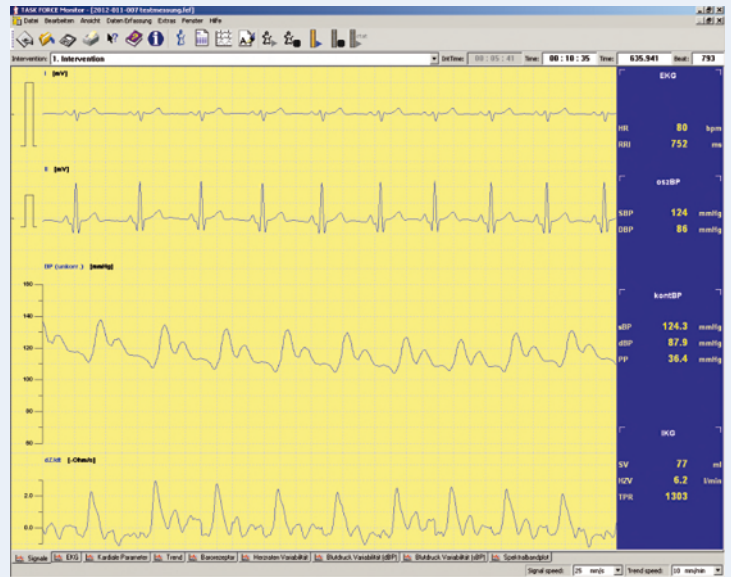
cnsystems 

ALL-IN-ONE FOR COMPLETE HEMODYNAMIC ASSESSMENT

A UNIQUE COMBINATION OF INNOVATIVE AND GOLD STANDARD METHODS - FULLY SYNCHRONIZED

PATIENT SIGNALS & FEATURES

- > **CNAP®** continuous noninvasive arterial pressure
 - > high-fidelity blood pressure waveform
 - > real time systolic, diastolic and mean blood pressure
 - > double finger sensors for output reliability
- > **NBP** brachial blood pressure via standard upper arm cuff
- > **ECG** high resolution 3-lead, 6-channel display
- > **CNCO®** continuous noninvasive cardiac output
 - > real time cardiac output and stroke volume using thoracic impedance.



> Online Display

- > graphic and numeric display of patient parameters and trends
- > ability to add markers and comments during the test

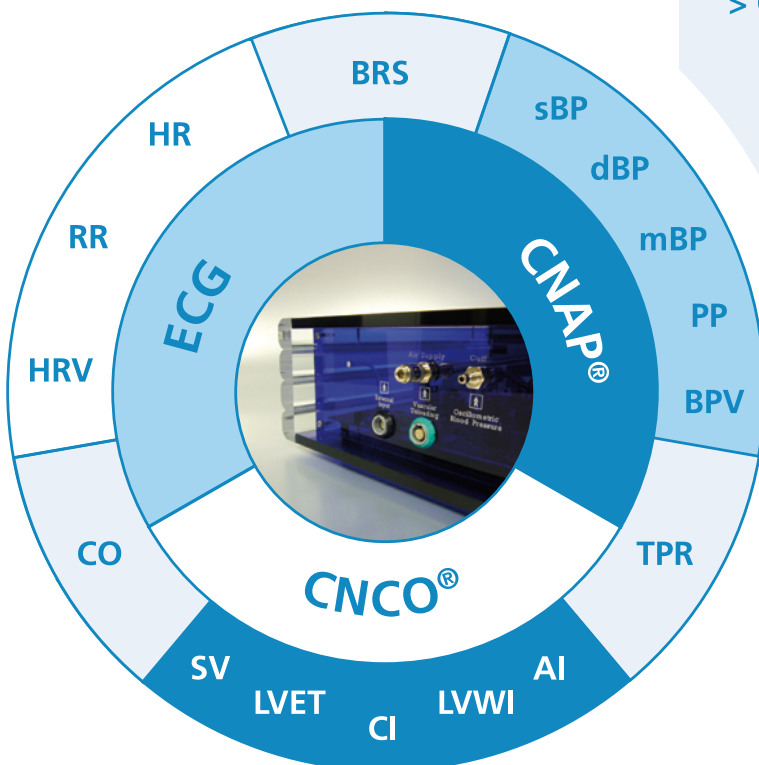
> Offline Analysis

- > use callipers to measure time intervals and parameter changes
- > add comments, diagnosis, or treatment plan via template or free form typing

> Output

- > customized print reports with trends and statistics
- > print outs of real time ECG and BP waveforms
- > ability to export data to MS Excel®, Matlab®, or ASCII file

RECORDED PARAMETERS



NONINVASIVE AND CONTINUOUS

EVALUATION OF RAPID AND SHORT-TERM CHANGES IN HEMODYNAMICS AND AUTONOMIC FUNCTION



APPLICATIONS

- > **Cardiology/ Electrophysiology**
 - > Syncope Assessment/ Tilt testing
 - > Pacemakers: CRT, AV-optimization
- > **Neurology**
 - > Autonomic Function Testing
- > **Psychophysiology/ Mental Health**
- > **Physiology**
- > **Pharmacology**
- > **Pediatrics**
- > **Occupational Medicine**
- > **Sports Medicine/ Health Sciences/ Prevention**

YOUR ADVANTAGE

ALL-IN-ONE DESIGN

- > one device - one click to start test
- > unique combination of innovative methods and gold standards allows for full hemodynamic and autonomic assessment

CONTINUOUS FOR EVERY HEARTBEAT

- > enables early detection of rapid and short-term changes in hemodynamics

NONINVASIVE SETUP

- > easy-to-use sensors
- > reuseable arm and finger cuffs
- > disposable electrodes

PROVES TESTING QUALITY

- > all signals are synchronized and in real-time
- > hands-free data recording
- > better diagnosis with more accurate data

We chose the Task Force ® Monitor for a large, multi-center NIH study due to its ability to collect beat-to-beat data for heart rate, blood pressure, and baroreceptor sensitivity using novel, noninvasive technology. In addition to its ease of use, we have been pleased with both the data quality and the ability to easily export data.

Jeffrey Olgin, MD, Chief of Cardiology, University of California, San Francisco

The Task Force ® Monitor has revolutionized ease-of-use in performing and generating data both for research and clinical purposes. I am especially impressed with the amount of information gathered. As a clinical fellow at the NYU DyTestsautonomia Center I did comparative analysis using this equipment to look at cardiac output and stroke volume and found it to be quite accurate.

Ishan Adhikari, MD, University of Texas Health Science Center

TECHNICAL SPECIFICATIONS

TASK FORCE® MONITOR

CNAP® CONTINUOUS NONINVASIVE ARTERIAL PRESSURE

Measuring range 30 - 250 mmHg; Heart rate: up to 150 bpm

Additional NBP

oscillometric blood pressure scaling to brachial pressure (upper arm), accuracy +/- 5 mmHg

NBP OSCILLOMETRIC BLOOD PRESSURE

Measuring range 30 - 250 mmHg

Accuracy meets ANSI/AAMI SP10:1992 and 2002

ECG - ELECTRO CARDIOGRAPHY

Channels /display 3 leads, 6 channel display

Measuring range +/- 5 mV

Sampling frequency 1000 Hz

Accuracy +/- 5 µV

CNCO® - CONTINUOUS NONINVASIVE CARDIAC OUTPUT THROUGH IMPEDANCE CARDIOGRAPHY (ICG)

Measuring range dZ/dt: +/-10W/s

Patient measuring current/ frequency < 400µA RMS/ 40 kHz

ELECTRICAL

Nominal voltage/ Supply frequency 230 VAC/ 50Hz or 115VAC/ 60Hz

Power consumption, typ. 120mA @ 230 VAC/ 240mA @ 115 VAC, 25 W

PHYSICAL

Weight (main device excl. PC) 6.1 kg (13.4 lbs)

Measures (main device excl. PC) 402 x 104 x 290 mm (158/ 41/ 114 inches w*h*d)

ENVIRONMENTAL

Temperature operation: 10°C - 40°C (50°F - 104°F), storage: 0°C - 40°C (32°F - 104°F)

Humidity operation: 30% - 85% non condensing storage: 15% - 95%, non condensing, wrapped

Altitude operation: 647 - 1059 hPa; storage: 500 - 1060 hPa

COMPUTER

Type high quality PC + flatscreen: minimum requirement for running the system (for up-to-date specification details please contact CNSystems or our local distributor)

PRINTER

Type colour inkjet for generating printed reports (details available at CNSystems)

ELECTRODES

Type ECG: spot gel-electrodes; CNCO/ ICG: band-electrodes (package available at CNSystems)

CONNECTIVITY - EXTERNAL INPUT (2 channels available)

Input voltage +/- 5V

Overvoltage protection 250 V RMS

Input impedance 380 kW +/- 10%

Sampling frequency 1000 Hz

COMPLIANCE AND APPROVALS

Protection class I (IEC 60601) > EN 60601-1 > EN 60601-2-25 > ANSI/AAMI SP10

Conformity Class II a (93/42/EEC) > EN 60601-1-2 > EN 60601-2-30 > EN 1060-1

Degree of protection BF (CNAP, NBP) > EN 60601-1-4 > EN 60601-2-49 > EN 1060-3

CF (ECG, CNCO)

Certifications > CE (TUV-A-MT-1/10/1Q034) > CAN/CSA C22.2 No.601.1-M90 > UL 60601-1:2003: NRTL U8 08 03 44130 002

> FDA 510k: K014063 > CAN Med.Dev.Lic.: 77001

INTELLECTUAL PROPERTY

Patents > AT 407.949 > WO 2004 030535 > EU 1 675 507

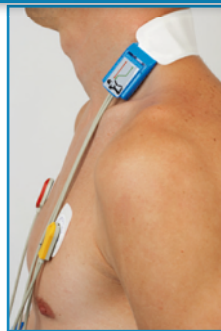
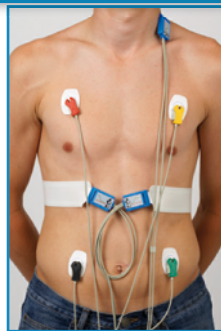
> WO 2000059369 > EU 1 551 290 > US 8,114,025

> EU 1 179 991 > US 7.783.345B2

> US 6.669.648 > WO 2005037097 plus another 33 patents

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Task Force® Monitor The experts system for evaluating hemodynamics and autonomic function



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