

# POLY-SPECTRUM-8/E

miniature 12-channel Digital ECG System



12 high-quality standard ECG leads



best solution for routine ECG screening



automatic ECG measurement and interpretation



unlimited possibilities for functional extension (exercise stress testing, PWV, VLP, HRV, etc.)



detection of pacemaker pulses



ECG

## POLY-SPECTRUM ECG SYSTEMS. TIME-TESTED QUALITY



The first digital ECG device was developed by Neurosoft in 1996. More than 20 years have passed since then, and all this time our company has been constantly developing the ECG product line and improving our ECG systems. Due to the comprehensive approach to the measurement and assessment of cardiac function, our ECG systems are used to study the functional reserves of astronauts in the Yu. A. Gagarin Research and Test Cosmonaut Training Center, and also to monitor the health of polar explorers in the scientific center of the Arctic and Antarctic Research Institute.

Today, our ECG product line includes the devices with simple functionality, as well as the expert ones. Poly-Spectrum-8/E is a reliable and affordable ECG system to perform routine examinations day by day. The system has excellent possibility for functional extension and easily allows users to accomplish the everyday tasks and fulfill the changing needs. Easy-to-use, yet powerful, it will operate perfectly for many years.



# COMFORTABLE, RELIABLE, FAULTLESS

Poly-Spectrum-8/E is a compact cell-phone-sized ECG recorder with high-performance technical characteristics. Owing to the perfect quality of obtained signal and automatic ECG measurement and interpretation, you can complete the examination just in five minutes (from placing electrodes on a patient to printing the report).

## 1 Standard ECG cable

The ECG acquisition is done via the high-quality ECG patient cable with the standard 15 pin D-Sub connector. The cable is standard and can be purchased freely. We do not embed cables in the device, so you are free to select the accessories.

## 2 Respiratory sensor

Using the respiratory sensor, you can measure and record the respiratory rate, which significantly improves the quality of HRV analysis and cardiovascular tests.

## 3 Pacemaker pulse detector

The built-in pacemaker pulse detector ensures the ECG measurement and interpretation in patients with implanted pacemaker and also helps to perform stress tests and electrophysiology studies using transesophageal electrocardiostimulation\*.

\* - is not included to delivery set

# HL7, DICOM

Integration into hospital information systems



Unlimited exam storage

## 4 High-quality ECG recording under any condition

The electronic unit of Poly-Spectrum-8/E digitizes ECG at a high sampling rate (2000 Hz, 12-bit ADC). The system together with embedded hardware module for compensation of patient cable capacitance caused by its vibrations and a set of powerful digital filters ensures high-quality ECG under any conditions.

## 5 Exam report on plain paper

The definitive advantage of our ECG systems is the possibility to print the exam reports on plain paper. Laser, ink-jet and miniature thermal printers can be used with Poly-Spectrum-8/E.



# MAIN CONFIGURATIONS AND OPTIONAL MODULES

The Neurosoft digital ECG systems are supplied with Poly-Spectrum.NET software which includes a wide range of techniques and can be perfectly tailored to your needs. Depending on the type of examination, you can select the required software module at any time. The added module has no effect on the basic functionality and does not change the appearance of the software.

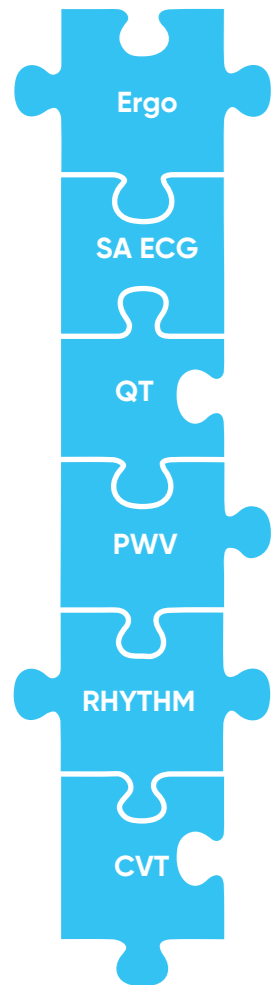
## MAIN CONFIGURATIONS



**Express**  
Simplified interface is perfect for ECG screenings and allows you to get the ECG measurement and interpretation in a few seconds.

**Analysis**  
ECG measurement and interpretation

## OPTIONAL MODULES



**Ergo**  
Exercise stress testing on a treadmill or cycle ergometer controlled by ECG

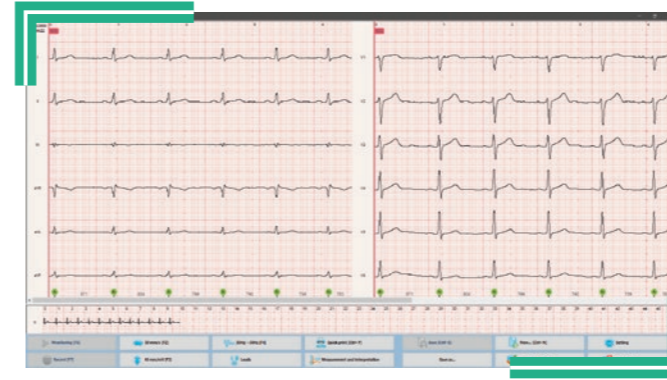
**SA ECG**  
Analysis of high resolution signal averaged ECG for detection of ventricular late potentials (VLPs)

**QT**  
Analysis of QT dispersion

**PWV**  
Measurement of pulse wave velocity (PWV)

**RHYTHM**  
Analysis of heart rate variability (HRV) and respiratory rate

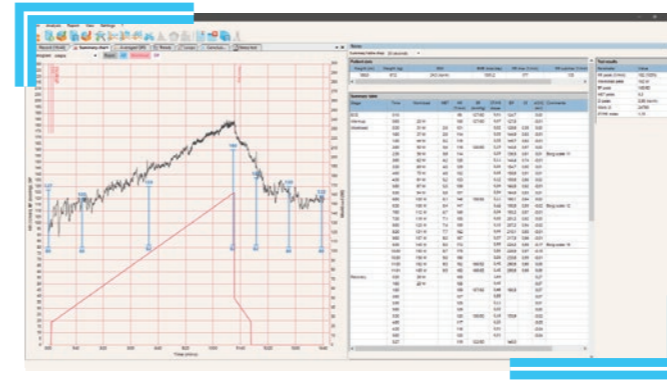
**CVT**  
Cardiovascular tests (CVT)



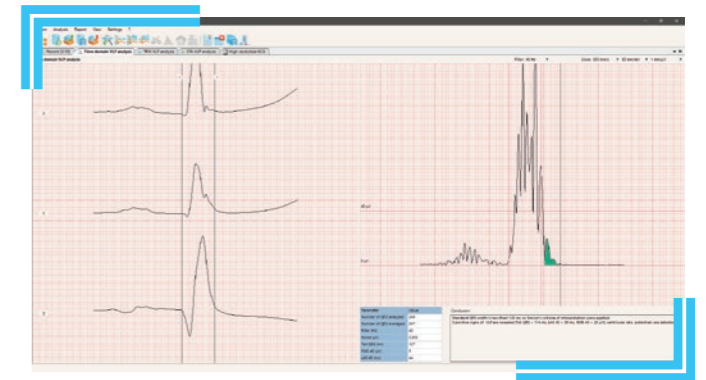
Poly-Spectrum.NET/Express



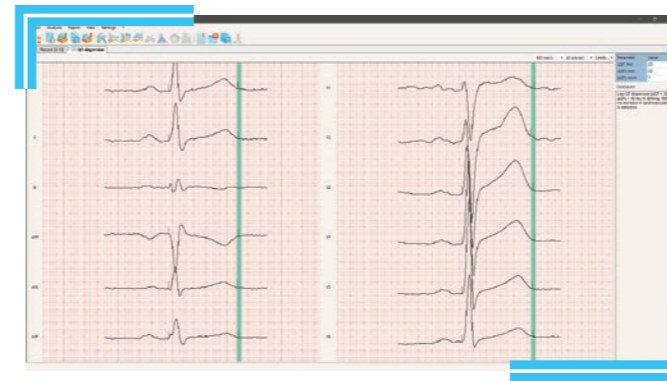
Poly-Spectrum.NET/Analysis



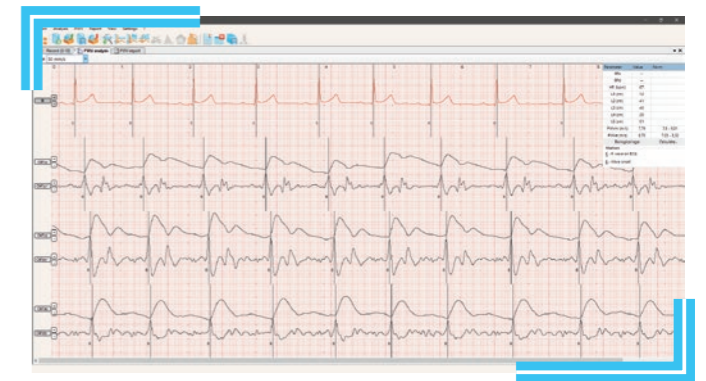
Poly-Spectrum-Ergo



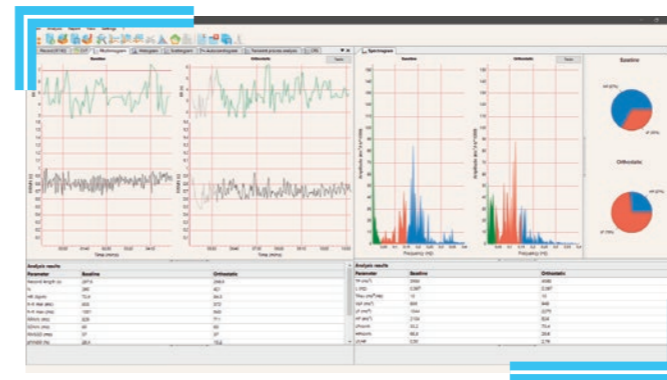
Poly-Spectrum-SA ECG



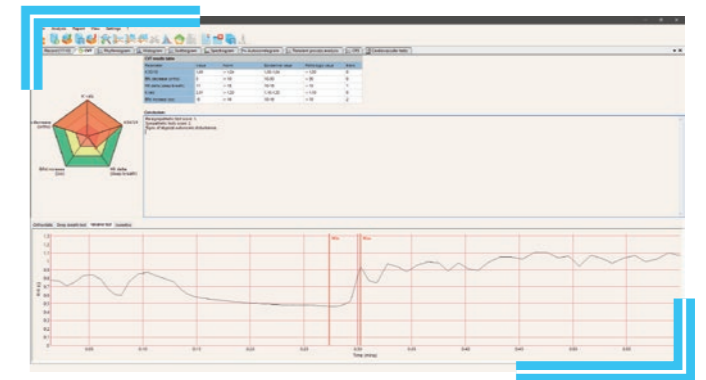
Poly-Spectrum-QT



Poly-Spectrum-PWV








Poly-Spectrum-Rhythm



Poly-Spectrum-CVT

# ECG PRODUCT LINE

	ECG leads	Transe-sophageal Leads	Automatic Interpretation	Detection of Cardiac Pacemaker Pulses	Interface	Application
 <b>Poly-Spectrum-8</b>	12	-	-	+	Wire: USB	Resting ECG for mass screening
 <b>Poly-Spectrum-8/E</b>	12	-	+	+	Wire: USB	Resting ECG, QT,CVT, PWV, SA ECG, HRV analysis, exercise stress testing
 <b>Poly-Spectrum-8/EX</b>	12	-	+	-	Wireless: Bluetooth	Exercise stress testing, resting ECG, CVT, HRV analysis
 <b>Poly-Spectrum-8/G</b>	12	-	+	-	Wireless: Bluetooth, GSM	Telemetry: remote ECG acquisition and analysis
 <b>Poly-Spectrum-12/E</b>	14	2	+	+	Wire: USB	Multichannel ECG with transe-sophageal electrocardiography, exercise stress testing, SA ECG, QT, PWV



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