

Poly-Spectrum-8, 8/E

Miniature 12-Channel Digital ECG Systems



Cheap...

Easy to use and reliable...

Economical, up-to-date and promising...

All the definitions may be applied to our 12-channel digital ECG system **Poly-Spectrum-8**.

The system is a mobile phone in size. It enables a simultaneous recording from 1 to 12 ECG leads.

Poly-Spectrum-8 prints ECG on any jet or laser printer. Moreover, it prints ECG on plain paper instead of expensive thermopaper in contrast to a common electrocardiograph.

The ECG system is supplied with very simple software. It takes a person without any special training just a few minutes to master its operation. Easy and very convenient software provides a very high carrying capacity of the unit and enables to use it for mass checkups.

Poly-Spectrum-8/E has the same possibilities as **Poly-Spectrum-8**, besides it carries out automatic ECG measurement and interpretation.

Poly-Spectrum-8/E can be supplemented with optional modules for heart rate variability analysis **Poly-Spectrum-Rhythm**; Q-T interval dispersion analysis **Poly-Spectrum-QT**; ventricular late potentials registration and analysis **Poly-Spectrum-VLP** and exercise stress testing **Poly-Spectrum-Ergo**.



Medical Diagnostic Equipment Development and Manufacture

Features

What is Poly-Spectrum-8?

Poly-Spectrum-8 is the ECG system which is a mobile phone in size. It enables a simultaneous recording from 1 to 12 ECG leads.

You just have to connect it to USB port of your PC.



What about the Quality of ECG Recording?

Poly-Spectrum-8 digitizes ECG with 2000 Hz sampling rate at 12 bit A/D converter resolution. It has the system of hardware compensation of patient cable permittance change, caused by its movements, and a set of high-capacity digital filters. All these features enable to register high-quality ECG under any circumstances.

How does Poly-Spectrum-8 Print ECG on Paper?

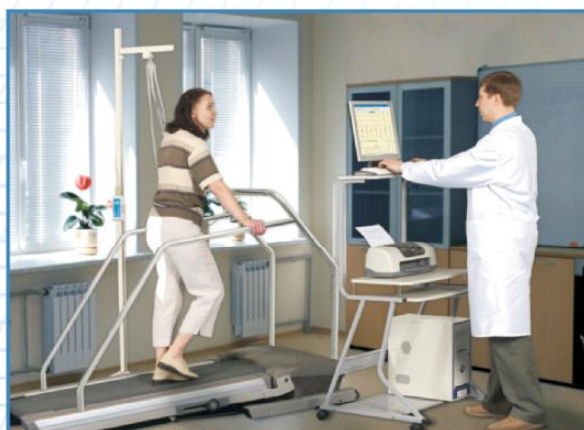
Using any jet or laser printer. Moreover, it prints ECG on plain paper instead of expensive thermopaper in contrast to a common electrocardiograph.



Is it Possible to Extend the System by Different Techniques of ECG Analysis?

The unit enables to use additional analysis software: ECG measurement and interpretation software

Poly-Spectrum-Analysis (already included in **Poly-Spectrum-8/E** delivery set); heart rate variability analysis software **Poly-Spectrum-Rhythm**, which is intended for the study of autonomic nervous system influence on heart, as well as for analysis of arrhythmias by the correlation rhythmography method; the Q-T interval dispersion analysis software **Poly-Spectrum-QT**; the ventricular late potentials registration and analysis software **Poly-Spectrum-VLP**; and the exercise stress testing software **Poly-Spectrum-Ergo**.



What's the Difference between Poly-Spectrum-8/E and Poly-Spectrum-8?

The difference is that **Poly-Spectrum-8/E** has the additional software module **Poly-Spectrum-Analysis** that carries out automatic ECG measurement and interpretation according to International Standards.



Poly-Spectrum-Express Software

Poly-Spectrum-Express is a simple and convenient program for ECG recording which provides high carrying capacity of digital ECG system and allows to use it for mass ECG checkups.

The software is included in **Poly-Spectrum-8** and **Poly-Spectrum-8/E** base delivery sets.

ECG Measurement and Interpretation

Poly-Spectrum-8/E base delivery set includes ECG measurement and interpretation software

Poly-Spectrum-Analysis

In ECG measurement and interpretation mode a doctor can see the selected cardiocomplex or the one averaged by all the entire record. In the reference points of cardiocomplex the program sets the markers automatically. The automatically generated interpretation is represented in the same window.

If the doctor clicks the cardiocomplex in any lead with the mouse, it can be zoomed in, measured with the software ruler and markers can be corrected manually if it is necessary.

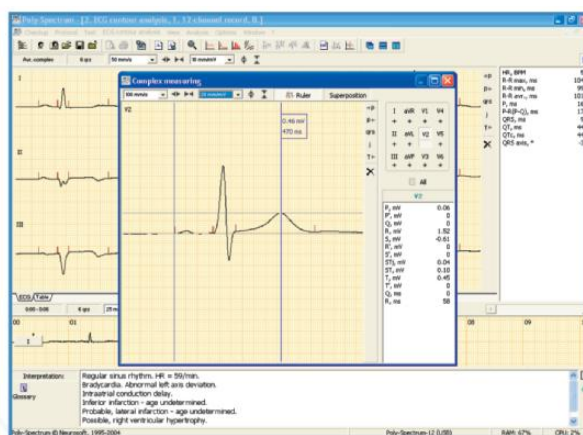
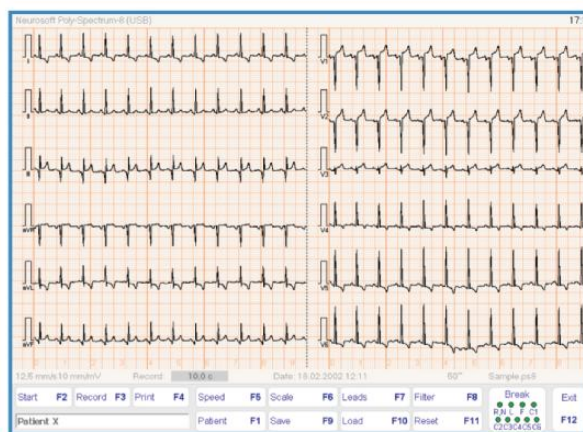


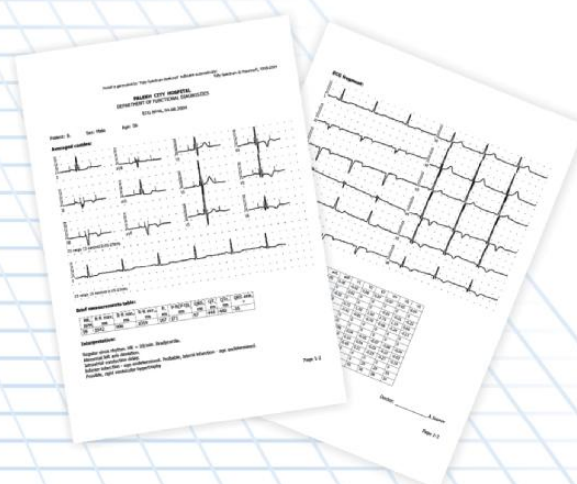
Table of Cardiocomplex Amplitude-Time Parameters

Besides the results of the main measurements used for the routine ECG interpretation, the program generates the detailed table of amplitude-time parameters of the analyzed cardiocomplex.

Lead	P	Q	R	S	T	U
I	0.08	-0.08	0.08	0.08	0.08	0.08
II	0.08	-0.08	0.08	0.08	0.08	0.08
III	0.08	-0.08	0.08	0.08	0.08	0.08
aVR	0.08	-0.08	0.08	0.08	0.08	0.08
aVL	0.08	-0.08	0.08	0.08	0.08	0.08
aVF	0.08	-0.08	0.08	0.08	0.08	0.08
V1	0.08	-0.08	0.08	0.08	0.08	0.08
V2	0.08	-0.08	0.08	0.08	0.08	0.08
V3	0.08	-0.08	0.08	0.08	0.08	0.08
V4	0.08	-0.08	0.08	0.08	0.08	0.08
V5	0.08	-0.08	0.08	0.08	0.08	0.08
V6	0.08	-0.08	0.08	0.08	0.08	0.08

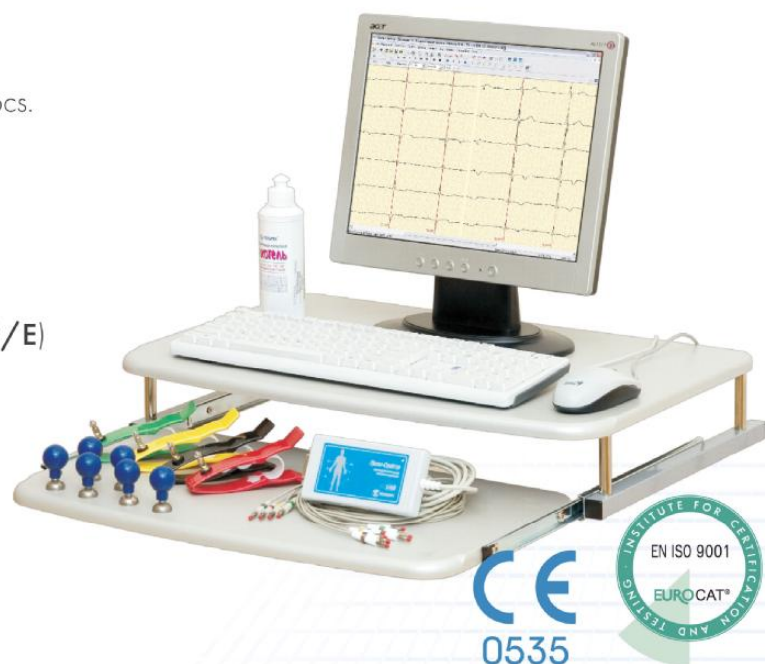
Automatic Report Generation

After test termination, **Poly-Spectrum-Analysis** software generates the report automatically. It can include the most representative ECG fragments (at user's option) with QRS complex amplitude-time parameters tables, etc., interpretation.



Delivery Set

- Electronic unit
- Patient cable for reusable electrodes connection
- Reusable limb clamp ECG electrode (Italy) – 4 pcs.
- Reusable precordial suction chest ECG electrode (Italy) – 6 pcs.
- Electrode gel (bottle with dispenser 250 g)
- Software:
 - **Poly-Spectrum-Express**
(for **Poly-Spectrum-8** and **Poly-Spectrum-8/E**)
 - **Poly-Spectrum** with connected module **Poly-Spectrum-Analysis**
(for **Poly-Spectrum-8/E**)
- User manual
- Technical manual



See Also



Poly-Spectrum-8/EX.

Poly-Spectrum-8/EX

12-channel miniature wireless digital ECG system.

Poly-Spectrum-8/EX (base delivery set) allows to register from 1 to 12 ECG leads and 1 breath channel, perform automatical ECG measurement and interpretation, store and print ECG..

This system is more applicable for exercise testing (cycle ergometry, test on treadmill, ortho-test, test on Barany chair, etc.). Just under conditions of patient's intensive movements you can define the advantages of wireless ECG transfer. As far as the digital ECG system is placed on the patient's body, you can use short ECG cable, and this cable vibration will not influence the electrocardiogram quality any more!



Poly-Spectrum-Ergo software.

Poly-Spectrum-Ergo

Exercise testing software for **Poly-Spectrum** digital ECG systems.

Poly-Spectrum-Ergo module provides all the necessary software tools for exercise testing including special mode of exercise ECG imaging, the execution of the necessary on-line estimates, and the summary protocol generation.



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