



ONKO•CET

High Technology Medical Devices

ANESA

Automatic Noninvasive Express Screening Analyzer

ANESA device is designed for screening analysis of human body. Principle of its function is based on measurement of temperature in certain biologically active points of human body, taking into account other initial data about the patient and environment parameters.

All the information is processed by software and is the base for the report that includes 130 parameters of blood formula, electrolyte metabolism, the system of blood fibrillation, the enzyme system, oxygen and CO₂ assimilation and transportation, internal blood flow, cardiomechanics, etc.

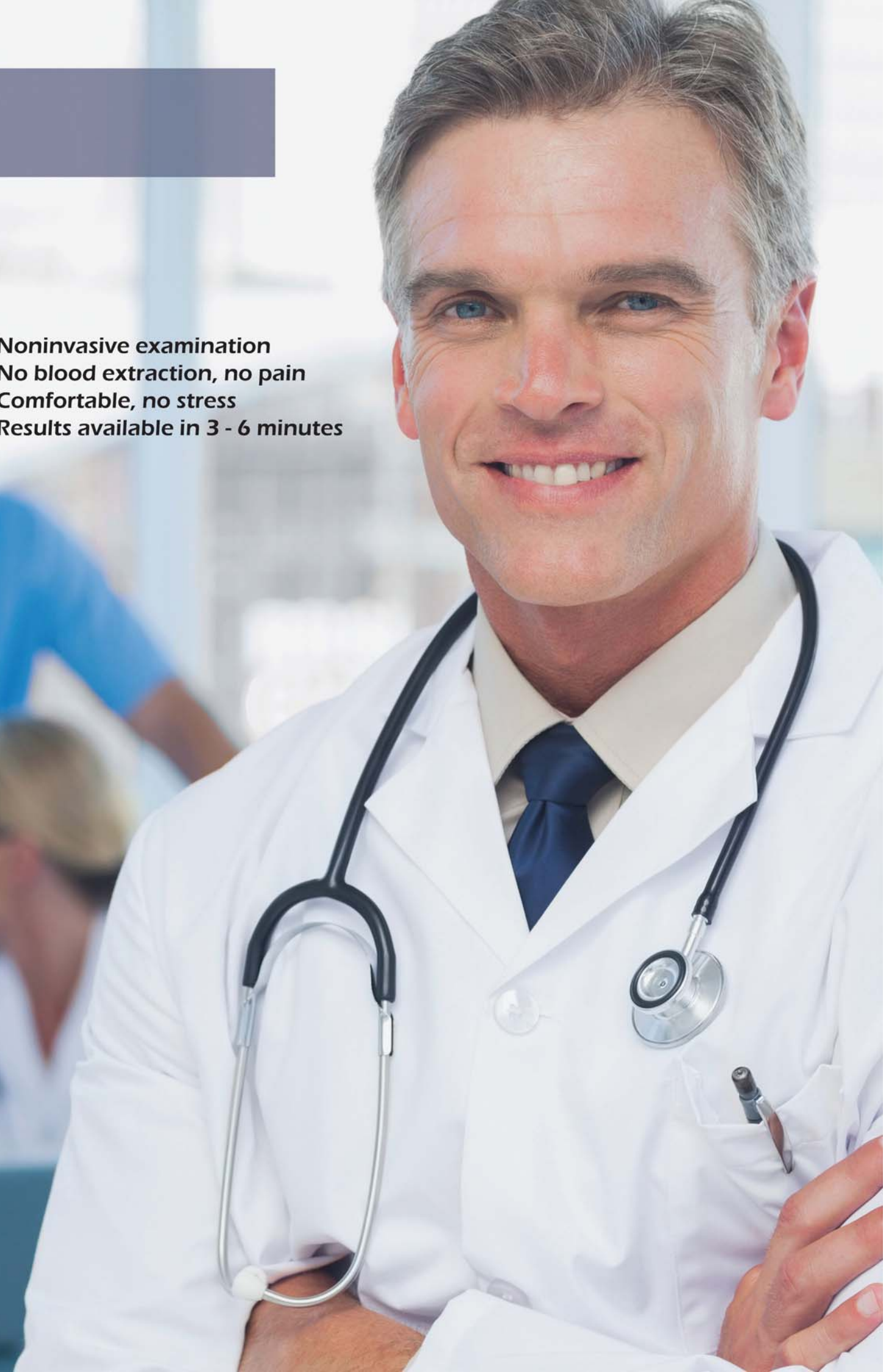
- ✓ **Noninvasive examination**
- ✓ **No blood extraction, no pain**
- ✓ **Comfortable, no stress**
- ✓ **Results available in 3 - 6 minutes**



Intended fields of the application:

family doctors, clinics, hospitals,
medical research centres, sanatoriums
and other medical institutions.

- ✓ Measures the indices of blood in its natural environment
- ✓ Monitoring of trends in repeating examinations
- ✓ Compact, mobile device, no restrictions in repetition of analyses
- ✓ 130 parameters give better overview of the state of organism
- ✓ Results from patient database serve as a help for medical staff in stating of diagnosis



MEIK

Electrical impedance mammography device

MEIK device is designed for examination of breasts of women and men, for screening or diagnostics of cancer, cysts, fibroadenomas, calcificates, etc. in mammary gland.

MEIK allows to visualize the distribution of electrical conductivity in biological tissues in several sections of patient's body and display various pathologies as areas with abnormal values of electrical conductivity.

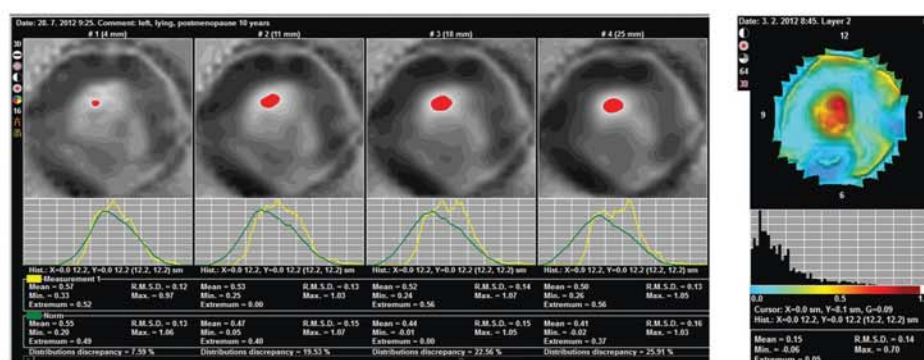


Diagnostic procedure

- 1 The mammography examination is performed with the patient in a supine position.
- 2 The breast under examination must be levelled in respect of its frontal position. To achieve this the corresponding arm of the patient must be placed over her head.
- 3 Moisten the breast evenly with water, avoiding formation of droplets.
- 4 Attach the disposable gel electrodes on the inside of the patient's wrists. Snap the leads with the clamps on the electrodes. Make certain that the patient's arm with the electrodes is not touching the body.
- 5 Place the panel with electrodes against the breast in such a way that the laser marker is positioned on the nipple.



7 tomographic planes of the mammary gland appear after completion of scanning procedure, representing the depth of scanning from 4 to 46 mm.



- ✓ Absolute safety for patients and staff
- ✓ No X-ray radiation used
- ✓ Absence of pain
- ✓ No side effects
- ✓ No age restrictions
- ✓ Unlimited quantity of examinations per person
- ✓ Quick examination - less than one minute per breast
- ✓ Can detect oncological changes in pre-clinical stage
- ✓ 3D visualization of the results
- ✓ Sensitivity and specificity of the results are equivalent or higher when compared to standard mammography

During the scanning process the device uses 256 electrodes that successively inject weak alternating electric current (0.5 mA) with 50 kHz frequency into the body of the examined patient and registers corresponding distribution of electric potentials on its surfaces.



PLASON

NO-therapy device, Coagulator - Stimulator - Scalpel

PLASON is a medical device working on the basis of the use of air plasma and exogenous nitrogen oxide for the treatment of unhealing wounds, ulcers, inflammations, autoimmune diseases, diabetic feet, burns, skin diseases, gunshot wounds, etc. It generates NO-containing plasma flow with strong effect on human organism.

The exogenous nitrogen oxide of plasma-chemical genesis is contained in the high and low temperature gas flows (20 °C to 4000 °C), generated from atmospheric air.



Rheumatoid arthritis



Treatment of skin pathologies



Diabetic foot treatment



In 1998 Mr. Robert F. Furchgott, Mr. Louis J. Ignarro and Mr. Ferid Murad jointly received a Nobel Prize in Physiology or Medicine for their discoveries concerning nitric oxide (NO).

NO is a signal molecule of key importance for the cardiovascular system and it was also found to exert a series of other functions.

NO acts as a signal molecule in the nervous system, as a weapon against infections, as a regulator of blood pressure and as a gate-keeper of blood flow to organs.

✓ **General surgery:** postoperative wounds (stimulation of reparation and prophylaxis of suppuration), purulent wounds, abscesses, phlegmons, furunculosis, erysipelas, burns, preparation for skin transplantation and prophylaxis of graft rejection, persistent wounds, venous and arterial trophic ulcers, diabetic foot ulcers, decubitus ulcers, purulent peritonitis, mediastinitis...

✓ **Oncology:** radiation ulcers, chronically nonhealing wounds, opening of sutures, radiation fibrosis, destruction of tumors, coagulation of wound surfaces.

✓ **Traumatology and orthopedics:** open fractures, osteomyelitic fistulas, wounds raising after sequestrectomy.

✓ **Field surgery:** gunshot wounds and fractures, mine-explosive injuries, etc.

✓ **Dermatology:** dermatitis, eczemas, lichen planus, etc.

✓ **Pulmonology and phthisiology:** pleural empyema, tubercular cavities, tuberculosis of bones and joints, etc.

✓ **Gynecology:** cervical erosion, pyoinflammatory diseases of uterus, uterine appendages, tubal sterility, etc.

✓ **Stomatology:** periodontitis, gingivitis, aphthous and ulcerative stomatitis, post-tooth replacement and others.

✓ **Otolaryngology:** strictures of larynx, trachea, sinusitis (including polypous), pharyngitis, tonsillitis, rhinitis, otitis, epistaxis, post-surgery states, etc.

✓ **Ophthalmology:** traumas and burns of cornea.

✓ **Gastroenterology:** stomach and duodenal ulcers, fistulas of bowels, pancreatitis and pancreatic cysts, etc.

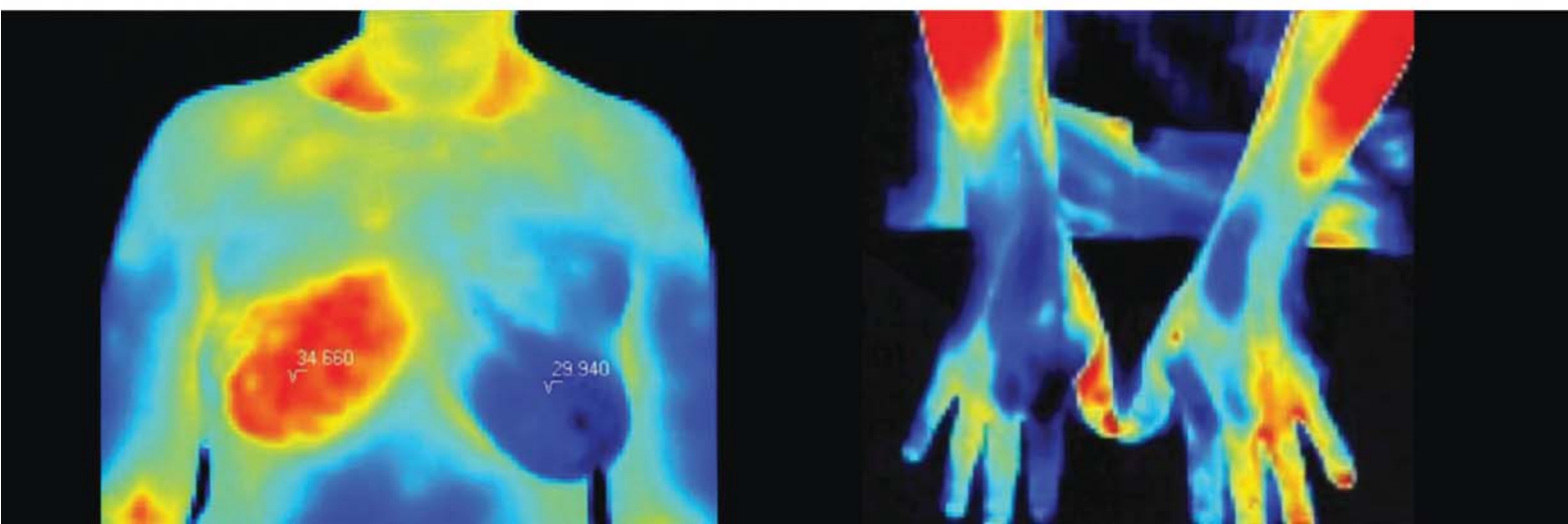


Thermal vision camera SVIT is intended for use in medicine and science for forming of the thermal image of object and measurement of temperature at any point of object without physical contact with it.

SVIT

Infrared Medical Camera

The camera with its special software is intended for identification of tumors, inflammatory processes, rheumatic arthritis, diabetic foot, blood flow pathologies, etc.



The main medical divisions, which could profit from thermal vision diagnostics:

Mammalogy - study of the female mammary glands for the purpose of conducting preventive measures - to identify development of tumor new formations.

Clinical diagnostics of inflammatory processes - rheumatoid arthritis, primary deformations, osteoarthritis, arm-blade periarthritis, vibration sickness, polyneuropathy, sacroiliitis, spondylarthritis, the defeat of spine, the inflammatory processes of gall bladder, thyroid gland and others.

Oncology - early stages and differential diagnostics.

Traumatology - burns, freezings (state of vessels) and other with the subsequent control of the effectiveness of the treatment of injuries, defeat of nerves, breaks.

Angiology - diagnostics of phlebitis and varicose expansions of veins, diabetic angiopathy.

Fast diagnosis of general hyperthermy of the open sections of humans (atypical pneumonia, fever of different etiology). At present, the thermal vision method of atypical pneumonia diagnostics is used effectively at airports and places of mass accumulation of people).

Rapid diagnosis of LOR diseases (maxillary sinusitis, frontal sinusitis, sinusitis).

Thermal vision examinations in sport medicine, physiotherapy, cosmetology.

Screening inspection of the workers of industrial enterprises, companies, etc.

Experimental medicine - study of new medicinal forms and influence of functional physiological loads on the human organism

- ✓ High temperature permission
- ✓ High frame frequency
- ✓ Clear high contrast thermograms of objects
- ✓ Realtime regime (ideal for surgery, treatment monitoring)



RTM-01-RES

Microwave Radiometer - Breast and Multiorgan Scan System



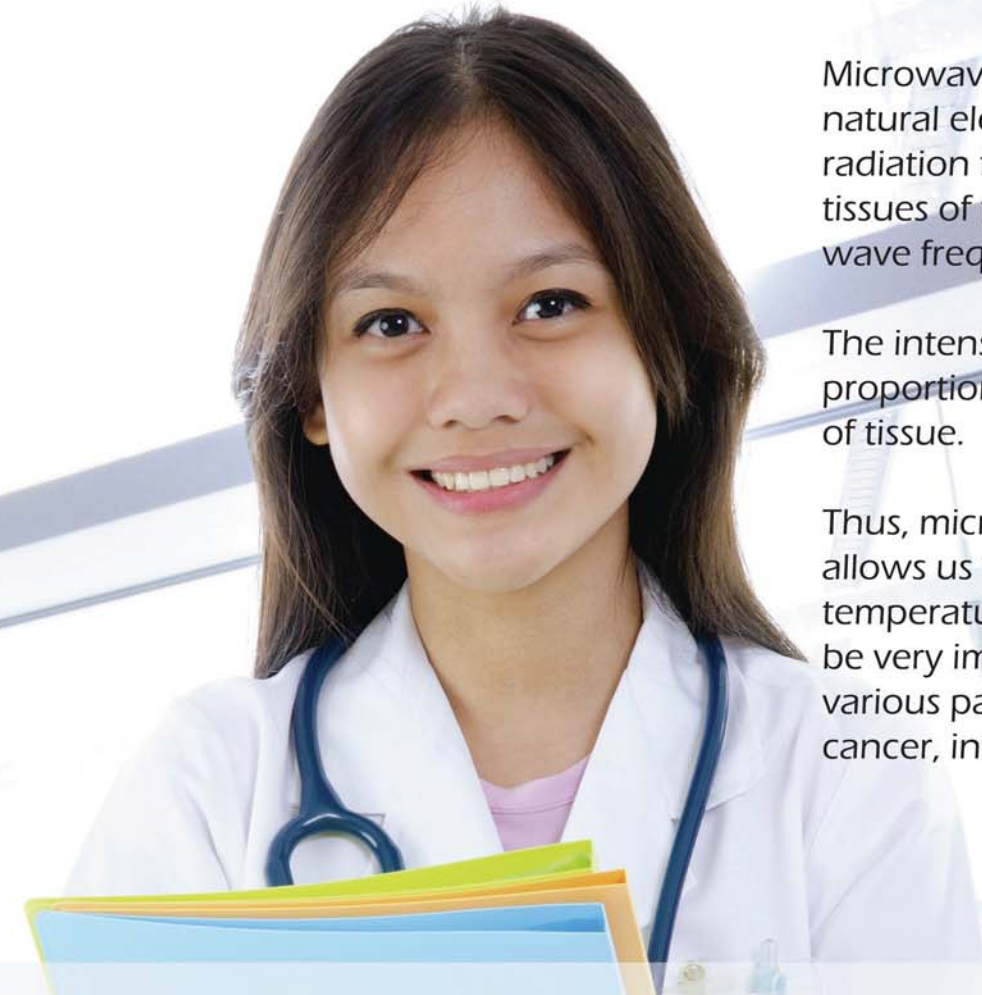
Noninvasive operation along with high specificity and sensitivity of examinations makes RTM-01-RES an ideal device for screening diagnostics of cancer in various organs and areas of human body:

Breasts, liver, kidneys, spine, abdomen, cervical spine, ears, head, articulations, knees, lower extremities, scar, lumbar spine, neck, nose, paranephritis, Pelvis Minor, stomach, prostate gland, skin neoplasm, sternum, thoracic spine, thyroid gland.

Microwave radiometry measures natural electromagnetic radiation from the internal tissues of the patient at microwave frequencies.

The intensity of radiation is proportional to the temperature of tissue.

Thus, microwave radiometry allows us to measure internal temperature of tissue, which can be very important in diagnosing various pathologies, such as cancer, inflammations, etc.

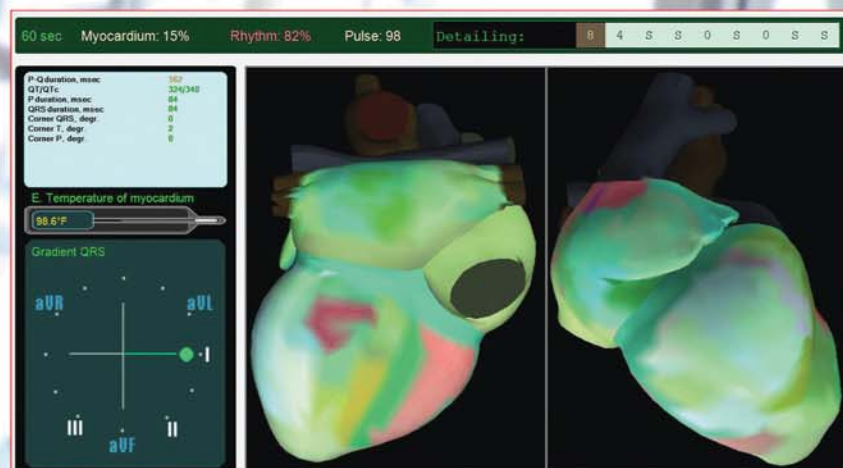


HeartVue

ECG device

HeartVue is a computer-based system which provides physicians with a new method for earlier noninvasive diagnosis of heart pathologies. It is based on the analysis of the heart electric excitation processes and 3D visualization.

- ✓ Provides better sensitivity and specificity for heart diagnosis. Depending on the pathology, its sensitivity surpasses standard ECG analyzers 7-50 times, allows earlier detection of abnormalities.
- ✓ Utilizes new information from ECG fluctuations usually ignored as noise by regular ECG devices.
- ✓ Unique 3D visualization of the heart electrical field dynamics allows fast recognition and estimation of heart state. System depicts a disease or stress as a holistic image instead of tiresome measurements and logical analysis of the standard QRST features of ECG waveforms.
- ✓ Evaluates the stability of the current heart state. This is extremely important since heart with major deviations can be steady (such patients often live long lives) and, on the contrary, heart with small deviations can be extremely unstable and fall in dangerously unexpected relapse.
- ✓ Improves disease trend monitoring while medical treatment, due to new visualization.
- ✓ Detects more cases of diseases and provides much better diagnosis details in comparison with automatic ECG interpreters (excluding some cases of expressed diseases, as LVH and blockades, but with better sensitivity for their early signs, "invisible" with interpreters).
- ✓ Essential enhancement of resting diagnosis allows avoiding time expensive and not always safe stress tests, especially for ischemic deviations of the heart state with very small changes of ECG or without them.
- ✓ Detects small metabolic deviations preceding dangerous ischemic damages of myocardium.
- ✓ More effectively differentiates arrhythmias and stresses.
- ✓ Requires much less professional skills and training for better and faster results than regular ECG diagnosis, which is "state-of-the-art" for general practitioner.





High Technology Medical Devices

Onkocet Ltd. is a company based in Slovakia, dealing with the most modern high-technology medical equipment and prepares. Our aim is to deliver the most recently developed technologies into the daily clinical practise of health-care services.

The main interest of the company is diagnostics of various pathologies, with special attention to cancer, diabetes and autoimmune diseases as one of the major issues of healthcare.

We are specialized in delivering of noninvasive screening devices, which offer comfortable, fast and reliable diagnostics, both for the medical centres and field diagnostics, when the devices have to be brought as close to the patient as possible.

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