CHEST SURVEY UNITS

Everything you need for Radiology

ROENTGENPROM is part of AMICO holding company. It is a mass producer of all types of screening x-ray devices. We produce the following: digital chest scanning units based on CCD matrix, digital and film type chest screening units with an x-ray protection cabin and solution based on mobile units as part of the mobile office and packed in boxes.

Years of experience, constant upgrading of existing developments and annual update of the product range allow us to say: “Our chest screening units are the best on the Russian market.”
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All products are certified to GOST R system.

12F9
Conventional x-ray chest survey units

The conventional chest screening unit is well known to many generations of physiologists, our 12F9 is designed based on the latest engineering achievements. An X-ray protective cab of composite materials reduces the exposure of personnel, and that will allow you to save on extra protection means.

Modern high-frequency X-ray power supply generates a high-precision electrical impulse with the maximum image quality control.

Spatial resolution — 2.5 line pairs/mm
The dose per frame in the plane of the image receiver for the 70/100 cm film is 2500/5000 µR

The traditional and familiar film-type unit 12F9 will give you the high quality you need, it is available in versions with a 70 mm and 100 mm camera, which allows you to choose your preferred image size.

The classical process of obtaining images with film fluorography is retained.

The top quality of a film fluorograph at a bargain price.

Traditions

Software

Our equipment are supplied with ProScan or ProGraph software complying with the relevant DICOM international protocol including recent amendments of the standard (with JPEG 2000 image compression) and the possibility to print on DICOM printers. The international DICOM Protocol allows the integration of x-ray units into a medical treatment facility computer network, to transmit images and patient information in electronic form, and process it. The process of consulting experts from other cities becomes easier, because images can be sent by email.

Digital images allow you to transmit images and patient information in electronic form, to process and archive it. The process of consulting experts from other cities becomes easier, because images can be sent by email.

Flexible software provides the ability to make, archive and process all possible information related to the procedure of patients’ examination. The templates of all necessary reports are available in the software, which saves medical personnel time. Unlimited possibilities of image processing with special filters built into the program can improve the diagnostic process. The software allows you to optimize the images obtained with settings defects, and to nullify the work on additional image processing usually performed by laboratory assistant.

The doctor receives the maximum diagnostic information with minimum time costs. A volume archive expands the possibility of comparing previous images of the same patient. The ability to display two or four images improves diagnostic accuracy.

Convenience

The table shows the standard basic configuration, the contents and characteristics can be improved on request.

<table>
<thead>
<tr>
<th>Detection technique</th>
<th>12F9</th>
<th>ProScan 2000/2000</th>
<th>ProMatrix 4000</th>
<th>ProMatrix 2500</th>
<th>ProGraph 4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Smoke</td>
<td>smoke</td>
<td>smoke</td>
<td>smoke</td>
<td>smoke</td>
</tr>
<tr>
<td>Resolution at heart</td>
<td>3.3 line/mm</td>
<td>3.3 line/mm</td>
<td>3.3 line/mm</td>
<td>3.3 line/mm</td>
<td>3.3 line/mm</td>
</tr>
<tr>
<td>Dose per frame in image plane</td>
<td>150/100 µR</td>
<td>150/100 µR</td>
<td>800 µR</td>
<td>800 µR</td>
<td>800 µR</td>
</tr>
<tr>
<td>Contrast sensitivity at this dose</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>X-ray protective cab</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>A lift for the patient</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Support</td>
<td>with a crosshead</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Two separate supports for the camera and the DXE</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Vertical movement of the camera and the DXE</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>DICOM and electronic data processing</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

*DXE — Diagnostic X-ray Emitter.*
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An «ideal image» in scanning fluorographs is obtained due to reduction of the amount of scattered radiation from 70% to 3% of the total amount of radiation entering the frame, which allows you to save contrast sensitivity and spatial resolution and to avoid artifacts. This feature allows you to see small spots of low density and provide an early disease diagnosis. A full range of new and high-quality digital image characteristics is available.

A significant reduction of the patient’s radiation exposure in ProScan fluorographs is an important advantage.

An X-ray protective cab of composite materials reduces the exposure of personnel that may work in immediate proximity to the chest screening unit, therefore you save on extra protection means.

The international DICOM Protocol allows the integration of ProScan machines into a medical treatment facility computer network, to transmit images and patient information in electronic form, process and archive it.

A medical printer included in the doctor’s working place is provided with, makes it possible to print images on thermo paper and blue film.

Modern high-frequency X-ray power supply generates a high-precision electrical impulse with the maximum image quality control.

Scanning fluorographs are available in two versions:

**ProScan-2000**
- Spatial resolution — 2.2 line pairs/mm
- Contrast sensitivity is 1/0.5 %
- when the dose per frame in the plane of the image receiver is 100/200 µR

**ProScan-7000**
- Spatial resolution — 3.2 line pairs/mm
- Contrast sensitivity is 1/0.5 %
- when the dose per frame in the plane of the image receiver is 250/400 µR
ProMatrix
digital x-ray chest survey units based on CCD-camera

Spatial resolution — from 2.5 to 5 line pairs/mm
Contrast sensitivity is 1.5% when the dose per frame in the plane of the image receiver is not above 800 µR

A CCD camera allows you to get the picture quickly, which saves personnel time, and provides a full range of new high-quality characteristics of a digital imaging.
The international DICOM Protocol allows the integration of ProMatrix machines into a medical treatment facility computer network, to transmit images and patient information in electronic form, process and archive it.

A medical printer at the doctor’s working place is provided with, makes it possible to print images on the thermo paper and film.
Modern high-frequency X-ray power supply generates a high-precision electrical impulse with the maximum image quality control.
An X-ray protective cab of composite materials reduces the exposure of personnel that may work in immediate proximity to the fluorograph.
You can save on extra protection means.

At the customer’s request the machine can be assembled without the X-ray protective cabin, on two supports. It allows you to conveniently place the device and move the camera and the X-ray emitter simultaneously along the vertical axis relative to the patient.
ProGraph — is a digital unit, which can be used not only for chest investigation but also for diagnostic tests with the patient standing or sitting. A CCD camera makes it possible to get a picture quickly, and provides a full range of new high-quality characteristics of a digital imaging.

ProGraph support is equipped with a transverse beam, to which a CCD camera, an X-ray emitter and a collimator are attached. Travers can be moved in a vertical direction and has a fixed focal length from 1 to 1.8 m, depending on customer requirements.

The international DICOM Protocol allows the integration of ProGraph machines into a medical treatment facility computer network, to transmit images and patient information in electronic form, process and archive it.

A medical printer the doctor’s working place makes it possible to print images on the thermo paper and film.

Modern high-frequency X-ray power supply generates a high-precision electrical impulse with the maximum image quality control.

Spatial resolution — from 2.5 to 5 line pairs/mm
Contrast sensitivity is not above 1.5 % when the dose per frame in the plane of the image receiver is not above 800 µR
Mobile chest survey unit cabinets are available on the chassis:

- Kamaz-43114 (6x6)
- Kamaz-4326 (4x4)
- Kamaz-4308 (4x2)
- ISUZU NQR 75 P (4x2)

A version on a special trailer is also available.

Digital cabinets are available based on low dose scanning units of ProScan series and ProMatrix units equipped with a CCD camera.

The ventilation, heating and air conditioning systems allow operation in the temperature range between -40 and +40 °C.

A mini electrical power station is available on request, which allows to carry out examinations when connection of electricity.

You do not need a specially equipped room, if you use a mobile cabinet as a stationary one in a hospital.

You can choose a car or a trailer that is most convenient for you. The trailer version will allow you to use it with any chassis and thus save on costs.

Any combination of accessories, chassis and the chest survey unit is available.

Fluorographs Packed in Boxes

Designed to examine people in hard-to-reach areas. The fluorograph is shipped unassembled in special boxes, which serve as structural elements of the machine. The boxes can be shipped by any mode of transport, which facilitates transportation to remote areas. The device is easy to assemble and it takes only an hour for two people to assemble it, so it can be used even in the field. You can select either the film or the digital fluorograph.
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Contrast sensitivity at this dose

X-ray protective cab

A lift for the patient

Support with a crosshead

Two separate support for the camera and the DXE

Vertical movement of the camera and the DXE

DICOM and electronic data processing

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