

MEDICAL DIAGNOSTIC



Digital low-dose fluorograph

- Chest organs images of vertically positioned patients in the forward and/or lateral projections
- Minimum possible radiation load
- Highly recommended for mass preventive examinations of Tuberculosis screening
- Production of minimum 60 examinations per hour
- Digital X-ray receiver
- High European quality at a low cost

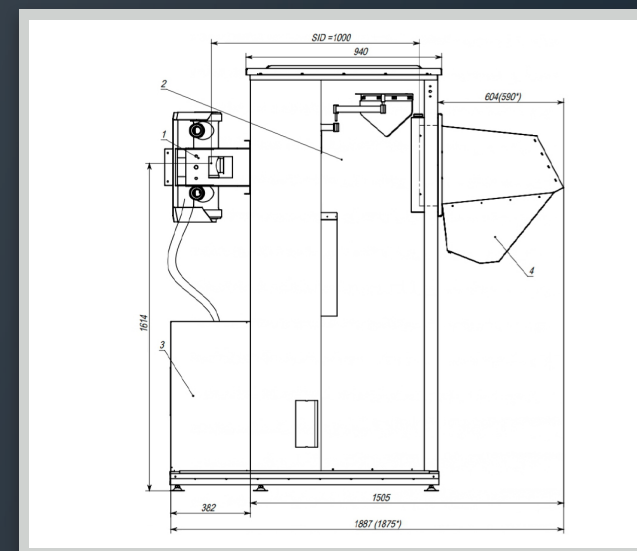
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X-RAY MACHINE / FLUOROGRAPH

Cabin version

- Provides IRS protection for medical personnel from scattered radiation
- Room preparation requirements are minimal for X-ray protection (unlike tripod format fluorographs)
- Need smaller area for installation
- Quiet and silent unit
- No adjustment needed to the network

LOW-DOSE RADIATION SYSTEMS



- No additional X-ray protection needed in a room
- Mobile version on a truck/bus as an option
- Electromechanical drive of door opening/closing with automatic control
- Patient movement on the lift stand (up and down)
- Automated workplace of X-ray lab technician
- Easy-to-learn interface of software for users

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SOFTWARE FEATURES

Automated workplace of the X-ray laboratory assistant as an interactive control panel:

- Control the supply device of the fluorograph control unit
- Manage exposure and preset parameters
- Keep records of number of patients
- Display 2 or more patient images simultaneously to compile the history
- Provide quick view the resulting digital X-ray images (ready to work within 5-15 seconds, depending on the configuration)
- Record images by the latest DICOM international protocol version

Pre-installed software allows:

- Perform initial settings and calibration of X-ray supply device, X-ray tube and digital detector
- Arrange diagnostics in case of device units failure

Ensolma X-ray fluorograph provides light and sound indication of errors on the control panel and the cabin device

Update is performed remotely

TECHNICAL DETAILS

Rated supply voltage, V	220 ± 10%
Frequency, Hz	50
Mains resistance (max), Ohm	3
Highest short-term power consumption, kVA	2,5
Fluorograph nominal anode voltage, kV	125 ± 10%
X-ray tube nominal anode current, mA	95 ± 20%
Electricity quantity fixed setpoint range, mAs	(1-100) ± 10%
Nominal operating parameters in normal fluorographic mode: - X-ray tube anode voltage, kV - amount of electricity during exposure, mAs	70 6,3
Standard exposure time range, sec	0,01-1,25
Focal distance, cm	100 ± 1
X-ray tube focus, mm	1,2 x 1,2
Minimal X-ray emitter intrinsic filtration (Al), mm / Minimal total filtration (Al), mm	2 / 4
Working field size, mm Number of pixels, pcs Unevenness of image brightness distribution, % Analog-to-digital signal conversion bit rate (number of gray levels), bit	400 x 400 ± 5 2048 x 2048 15 14
Working field spatial resolution (at the edge / in the middle), pair l/mm	2,2 / 2,5
Image distortion, %	1,5
Dynamic range, unit	400
Contrast sensitivity (at 8.7 µGy), %	1,5
Number of CCD matrixes, pcs	1
Device weight, kg	572
Overall dimensions of the appliance, mm	2095 x 1887 x 965
Cabin safety equivalent, Pb, mm	2
Image output time on the monitor screen after exposure, sec	5

PERFECTION IN NUANCES

- Work imitation on spiral CT by the digital camera (without replacing results)
- Providing series of foreshortened chest images (as tomography) by 4KR version camera operating in pulse mode
- The dose load per one image is extremely low for child research (reduced up to 10-15 times)

Depending on configuration:

- **Size of the fluorographic screen**
(from 400x400±5 mm to 430x430±5 mm)
- **Image resolution**
(from 2048x2048 pxl to 4096x4096 pxl)
- **Image quality**
(from 2.2-2.5 pairs l/mm to 4.2-4.6 pairs l/mm)

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