

Russian medical equipment manufacturer

ds.MED



ds.DENSI



ds.XRAY



ds.ASSISTENT



ds.SURG



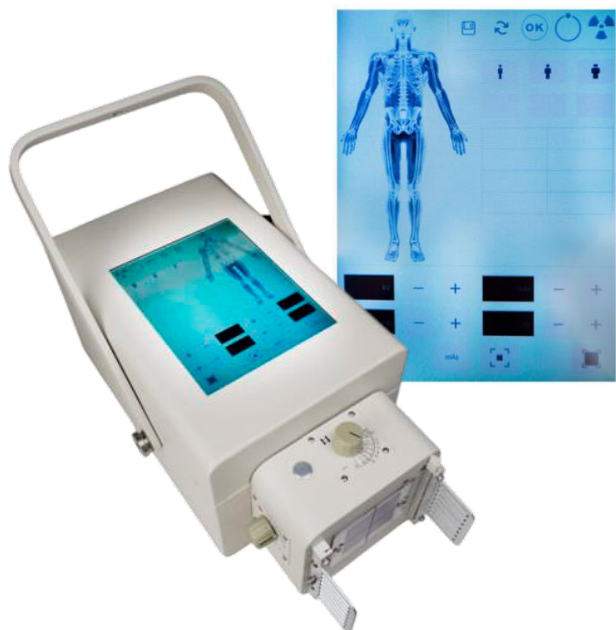
ds.VISION



VO+EM



LÍSTEM

DS.Xray portable x-ray units

DS.Xray is a model line of high-power (up to 10 kW) portable devices that liberate imaging from the confines of a single room and enable a wide range of on-site examinations. The DS.Xray's robust performance and advanced functionality allow them to serve as a full-fledged, mobile replacement for traditional ward and even stationary X-ray systems, conducting studies previously limited to fixed installations.

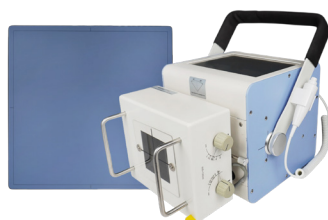
Key Features and Benefits

- ✓ **Portable & User-Friendly:** An ergonomic, compact design ensures easy transportation and rapid setup at any point of care.
- ✓ **Exceptional Image Quality:** Leveraging advanced detection and processing technologies to deliver consistently high-resolution X-ray images.
- ✓ **Built to Last:** Constructed from premium materials and components for unmatched structural reliability and long-term durability.
- ✓ **Reduced Risk:** Minimizes the need to move unstable patients; in the case of infectious disease reducing contamination risks.
- ✓ **Fast Diagnosis & Treatment:** Immediate, on-site, results allow for rapid clinical decision-making in emergency situations.
- ✓ **Intuitive Interface & Automated Control:** Built-in anatomical programs automatically adjust exposure parameters (kV, mAs) based on the examination area and patient constitution. Controlled via touchscreen interface, the programs balance dose optimization with ensuring superior image quality.



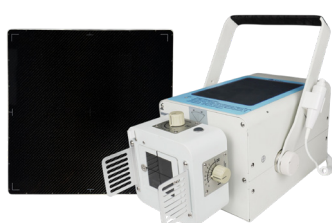
The DS.X-ray units deliver premium digital radiography to immobile patients in any area of the hospital or challenging environments. High power and extended functionality enable complex and more detailed diagnostic imaging, bringing hospital-level X-ray capabilities to portable applications.

DS.Xray 3510t | 5010t | 8010t



Tailored solutions designed to fit your specific needs and budget

• Generator Power (kW)	3,5	5,0	8,0
• Anode Current (mA)	32-50	32-100	32-125
• Weight (kg)	21	21	21
• Anode Voltage (kV)	40-110	40-110	40-125



DS.Xray 2808tb | 3510tb | 5010tb | 8010tb

28-hour runtime provided by the advanced battery system

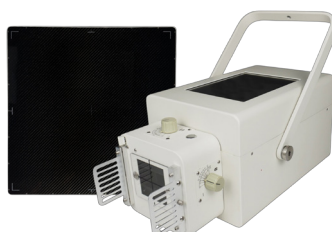
• Generator Power (kW)	2,8	3,5	5,6	8,0
• Anode Current (mA)	10-40	10-80	10-100	10-125
• Weight (kg)	17	20	20	20
• Anode Voltage (kV)	40-100	40-110	40-125	40-125



DS.Xray 5610t | 5610tb

Perfect balance between power efficiency and high utility

• Generator Power (kW)	5,6	5,6
• Anode Current (mA)	5,6-100	5,6-100
• Weight (kg)	15	16,5
• Anode Voltage (kV)	40-125	40-125



DS.Xray 10010t | 10010tb

Perfect alternative for mobile hospital X-ray units

• Generator Power (kW)	10,0	10,0
• Anode Current (mA)	5-160	5-160
• Weight (kg)	18	19,5 (with a battery pack)
• Anode Voltage (kV)	40-125	40-125

Options: Mobile stand and Flat panel detector:

- wired DR1717C | DR1717CH | DR1417CH or
- wireless DR1717WC | DR1717WCH | DR1417WCH



DS.Xray Flat Panel Detectors

- Lightweight, wired or wireless battery-operated devices for on-site, point-of-care imaging both inside and outside traditional X-ray rooms.
- Exceptional image quality with high resolution and contrast, zero geometrical distortion and vignetting.
- Higher spatial resolution when imaging over larger fields of view.
- Significant radiation dose reduction while maintaining diagnostic image quality, improved safety for both patients and clinicians.
- Instant image display eliminates processing time.



DS.Xray DR1717C | DR1717CH | DR1417CH

• Resolution (pix.)	3072 x 3072	4288 x 4288	3573 x 4288
• Pixel pitch (µm)	140	100	100
• Connection	hard-wired		



DS.Xray DR1717WC | DR1717WCH | DR1417WCH

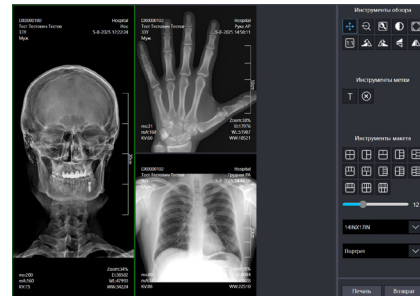
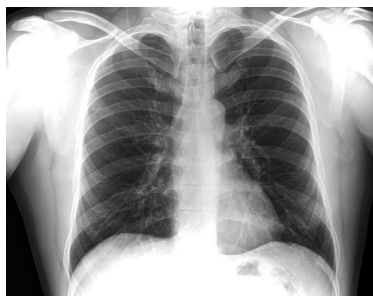
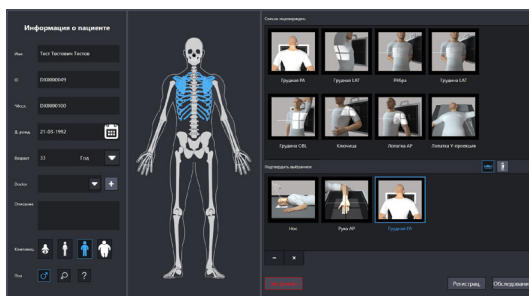
• Resolution (pix.)	3072 x 3072	3072 x 3072	2560 x 3072
• Pixel pitch (µm)	140	140	140
• Connection	wireless		
• Battery capacity	3500 mAh		

The Detector set includes **Technician Work Station (WS): Software & Notebook**



The X-ray Technician WS is designed for real-time display, processing, and editing of X-ray images, as well as recording to external sources and printing.

The software provides anatomical area selection with predefined exposure settings, patient database management, and seamless transfer to the doctor's WS, PACS, and beyond.



Fundamental tools in modern surgery to cut tissue and control bleeding using high-frequency electrical current



Using high-frequency electrical current, the **DS.Surg** electrocautery systems (ESU) enable safer, faster, and less bloody surgeries across the entire medical field. The devices include both traditional electrocautery units (ESU) operating in the 300kHz-1MHz range and radio wave (RF) units operating at higher frequencies (>1.5 MHz).

Core Purposes & Functions

- 1. Cutting (Electrotomy):** A continuous, high-frequency waveform allows making precise incisions with minimal physical force (a “lightning scalpel”).
- 2. Coagulation (Hemostasis):** A pulsed waveform causes less intense, slower heating, which denatures proteins and causes tissue to dry out and seal, controlling bleeding.
- 3. Blending:** A combined mode mixes cutting and coagulation waveforms allowing for cutting while simultaneously coagulating smaller vessels, providing a cleaner surgical field with less bleeding.

The DS.Surg model line is presented by surgical generators that support the entire procedural spectrum, from fundamental soft tissue management to specialized applications in general, minimally invasive, laparoscopic, and endoscopic surgery in all medical fields including gastroenterology, cardiology, neurology, gynecology, urology, proctology, ophthalmology, oncology, dermatology, plastic and cosmetic surgery. Key surgical applications comprise:

- **General & advanced:** incisions, coagulation, vascular ligation;
- **Endoscopic:** gastrointestinal interventions including polypectomy, sphincterotomy, peroral myotomy, mucosal resection, submucosal dissection, bronchoscopy, ENT endoscopy;
- **Gynecology, urology, proctology:** cystectomy, neoplasm excision, tissue biopsy, hysteroscopy, transurethral resection (TUR), fistulas, fissures, and hemorrhoid treatment,
- and many other medical uses.



DS.Surg High Frequency Electrosurgery Units (ESU)

DS.Surg ESU product line includes a wide range of devices, from a radio frequency ESU for pure cutting in minimally invasive surgery to high-end systems with advanced ligation and TUR(P) modes for comprehensive surgical use.



DS.Surg Prime | Prime Pro

- | | |
|-------------------------|-----------------------------------|
| • Maximum power | 400 W |
| • Monopolar cut | Pure, Blended (1, 2, 3) |
| • Monopolar coagulation | Soft, Contact, Spray, Argon |
| • Bipolar cut | Pure, Blended |
| • Bipolar coagulation | Standard, Auto-start, Accelerated |
| • Polypectomy | + |
| • Vessel ligation | - + |
| • TURP | - Cut and coagulation |



DS.Surg 400

- | | |
|-------------------------|-------------------------|
| • Maximum power | 400 W |
| • Monopolar cut | Pure, Blended (1, 2, 3) |
| • Monopolar coagulation | Contact, Spray |
| • Bipolar cut | Pure |
| • Bipolar coagulation | Standard, Auto-start |
| • Memory capacity | 10 programs |



DS.Surg 200 | 300

- | | |
|-------------------------|-------------------------|
| • Maximum power | 200 W 300 W |
| • Monopolar cut | Pure, Blended (1, 2, 3) |
| • Monopolar coagulation | Contact, Spray |
| • Bipolar coagulation | Standard, Auto-start |



DS.Surg 150 | 200S

- | | |
|-------------------------|----------------------|
| • Maximum power | 150 W 200 W |
| • Monopolar cut | Pure, Blended (1, 2) |
| • Monopolar coagulation | Contact, Spray |
| • Bipolar coagulation | Standard |



DS.Surg Radio Frequency Electrosurgery Units

The ideal solution for minimally invasive and outpatient surgery. The high-frequency (1.66 MHz) current provides a thin accurate incision without charring – essential for surgery in cosmetology, gynecology, proctology, and otorhinolaryngology. Effective hemostasis achieved through monopolar or bipolar electrocoagulation ensures efficient and safe blood vessels closure, minimizing bleeding during surgery.



DS.Surg 100

- | | |
|-------------------------|---------------|
| • Maximum power | 100 W |
| • Monopolar cut | Pure, Blended |
| • Monopolar coagulation | Contact |
| • Bipolar coagulation | Standard |



DS.Surg 80

- | | |
|-------------------------|---------------|
| • Maximum power | 80 W |
| • Monopolar cut | Pure, Blended |
| • Monopolar coagulation | Contact |
| • Bipolar coagulation | Standard |



DS.Surg 50

- | | |
|-------------------------|---------|
| • Maximum power | 50 W |
| • Monopolar cut | Pure |
| • Monopolar coagulation | Contact |



Наборы электродов

- | | |
|-----------------------|-----------------------|
| • Otorhinolaryngology | • Gynecology |
| • Basic standard | • Proctology |
| • General surgery | • Cosmetology |
| • Dentistry | • Veterinary medicine |



DS.AssistENT workstations are presented by the four models: Europe, Basic, Basic Plus, and Compact that can be complemented with DS.Assist Patient Chair and DS.Assist Doctor Chair.

The workstations integrate various components like aspiration/suction, spray and irrigation units, a light source, camera system, and other instruments into a single multifunctional unit that integrates every tool needed for patient examinations, running tests, administering treatments, and performing surgeries with high levels of accuracy and efficiency.

Designed for efficiency, the workstations neatly arrange all essential tools, devices, and medicines in a compact area, ensuring a perfectly organized workspace while supporting high hygiene standards.



Key features

- **Controlled Suction System:** features adjustable vacuum control with a dedicated gauge for optimal fluid management.
- **Controlled Drug Delivery:** integrated spray system with pressure regulation and monitoring for consistent application.
- **Advanced Irrigation:** flushing system with precise temperature and pressure control for patient comfort and procedural safety.
- **Ergonomic Storage:** dedicated drawers and trays for the secure storage and easy access of tools, medicines, and consumables.
- **Optional Integration** with HD endoscope video systems, fiber rhinolaryngoscopes, and ESUs.



DS.AssistENT Europe

Maximum performance, intelligent ergonomics

- HD endoscopic camera for crystal-clear, real-time ENT imaging.
- Touchscreen interface for temperature, pressure and water discharge control and adjustment of the patient chair position.
- Warming module for pre-heating tools to body temperature to enhance patient comfort.
- Advanced irrigation system featuring precise temperature and pressure adjustment, paired with a rinsing bowl.
- Compressed-air system for the hygienic use of medication sprayers with single-handed adaptation of the sprayer bottles.



DS.AssistENT Compact

Full functionality, elegantly condensed

- Suction system with fine vacuum adjustment and a vacuum gauge.
- Pressure-regulated spray system with an integrated gauge for medication delivery.
- ENT flushing system with controlled temperature and pressure.
- Endoscope holders for procedural flexibility.



DS.AssistENT Basic

Ergonomics & comfort, budget-friendly design

- Suction system.
- Pressure-regulated spray system with an integrated gauge (optional).
- Drawers and trays for organized storage of tools and consumables.
- Endoscope holders for procedural flexibility.



The **DS.AssistENT** workstations reach their full potential with a powerful arsenal of supplementary equipment.



DS.Vision endoscopic imaging systems

Direct examination and high-definition visualization of the ENT organs enable the detection of subtle abnormalities, tumors, and other pathological changes. The system includes flexible fiberoptic/ chip-on-the-tip scopes, light source, camera head & processor.

DS.RinoFiber flexible ENT scopes

Versatile, maneuverable devices for high-quality, durable, and cost-effective visualization for biopsy procedures and minimally invasive ENT diagnosis and surgery.



DS.Surg RF electrosurgery units

Minimally invasive surgery for removal of adenoids, polyps, cysts, granulations, and other neoplasms, submucosal resection, precise and fast incision, minimized scarring, reduced blood loss & post-operative pain, faster recovery.

DS.Assist fully automated patient chair, and doctor chair

Versatile, maneuverable devices for high-quality, durable, and cost-effective visualization for biopsy procedures and minimally invasive ENT diagnosis and surgery.



DS.Vision fiberoptic endoscopes ensure the perfect synergy of patient comfort, diagnostic precision, and image clarity, achieved through the use of premium Japanese fiber.

ENT

DS.Vision RinoFiber 2,8/0

Detailed visualization of the nasopharynx, larynx, and related ENT structures, essential for clinical assessments and accurate differential diagnosis.

- Distal end diameter 2,8 mm
- Working length 313 mm
- Angle of view 90°

ENT

DS.Vision RinoFiber 3,5/1,2 | RinoFiber 5,0/2,2

Flawless visualization and an integrated working channel for the instrument access facilitating precise biopsy sampling and minimally invasive ENT surgery.

- Distal end diameter 3,5 mm | 5,0 mm
- Working length 302 mm | 357 mm
- Angle of view 85° | 100°
- Instrument channel diameter 1,2 mm | 2,2 mm

UROLOGY

DS.Vision CystoFiber 4,9/2,2

Integrated instrument channel enabling therapeutic and surgery procedures by allowing passage of instruments from the control head to the tip.

- Distal end diameter 4,9 mm
- Working length 380 mm
- Angle of view 110°
- Instrument channel diameter 2,2 mm

GYNECOLOGY

DS.Vision HysteroFiber 4,9/2,2

Ambulatory hysteroscopy: a “see-and-treat” approach combining atraumatic entry, superior optics, and immediate tissue sampling.

- Distal end diameter 4,9 mm
- Working length 380 mm
- Angle of view 110°
- Instrument channel diameter 2,2 mm

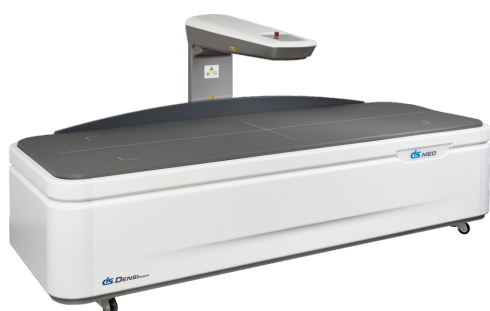


DS.Densi X-ray Bone Densitometers

The Gold Standard in early osteoporosis diagnosis

DS.Densi bone densitometers are innovative diagnostic solution for the detection and monitoring of osteoporosis and osteopenia. Their advanced capability also extends to aiding in the diagnosis of other serious conditions, such as sarcopenia, internal organ fibrosis, spinal compression fractures, and metabolic syndrome.

The system supports whole-body quantitative compositional analysis (fat, lean muscle and bone masses) offering insights for nutritional assessment, sarcopenia evaluation, and comprehensive metabolic health monitoring.



DS.Densi MAXI

Comprehensive array of diagnostic studies for numerous fields of medicine

- Whole Body Scan analytical function
- DEXA (Dual Energy X-ray Absorptiometry), fan beam
- Ultra-low radiation doses
- Comprehensive reports for analyzing bone structure throughout the entire body
- FRAX Program for osteoporotic fracture risk assessment
- The whole-body composition assessment, including WHO BMI classification of obesity
- Precise software-driven selection of the regions of interest
- Determination of fat and muscle mass in a specific area of the body
- Maximum table load capacity: 260 kg



DS.Densi MINI

Expert assessment of osteoporosis and osteopenia

- A comprehensive bone health workup
DEXA (Dual Energy X-ray Absorptiometry)
Ultra-low radiation doses
Scan regions: spine, femur, forearm
Minimized distortion for a seamless, whole high-quality images

* Osteoporosis is estimated to affect 18.3% to 19.7% of the general population, osteopenia (low bone mass) – at 40.4% to 43.1% of the population over 50. Prevalence ranges from 8% (Oceania) to over 26% (Africa), with high rates also reported in Asia. In at-risk populations in Sub-Saharan Africa, the prevalence of osteoporosis ranges from 18.2% to 65.8%.



DS.Densi Ultrasound Bone Densitometers

Compact solution for diagnosing the likelihood of osteoporotic fractures.

Intended for broad clinical application across rheumatology, obstetrics, gynecology, endocrinology, and traumatology, the densitometers enable the early detection of preclinical skeletal changes.

Key Benefits

- Lightweight and portable for bedside use – no heavy equipment is needed.
- Immediate and fully automated analysis for consistent and reliable results.
- Clear, visual results that require no advanced training to interpret.
- Radiation-free, fully safe for pregnant women and newborn babies.
- High patient throughput within busy clinical workflows.
- Low operational cost and quick return on investment (ultrasound gel is the only consumable).



DS.Densi LIGHT

- Extensive diagnostic capabilities.
- Accessible price point.
- Outcomes are visualized through an intuitive color diagram, making interpretation effortless for any user.
- Scan acquisition time: just 3 to 10 seconds.
- Error margin: 0.5%.
- Requires connection to a PC (not a standalone unit).



DS.Densi SMART

- Auto-calculation of all key parameters.
- Outcomes are visualized through an intuitive color diagram, making interpretation effortless for any user.
- Fully autonomous, standalone unit with built-in PC, touchscreen display, and printer.
- Automatically adjusts for temperature variations to maintain precision.

Although ultrasound densitometry can detect even as little as 3% bone loss, it is limited to peripheral skeletal sites. Since these areas are affected later in systemic osteoporosis, ultrasound is not considered a highly sensitive diagnostic method. However, given its high cost-efficiency and ease of use, it is widely employed for the timely identification of patients with osteoporosis and osteopenia who may benefit from further comprehensive assessment.



DS.Med

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