

moviplan iC

Latest generation X-ray system



radiology ahead

increase efficiency, increase productivity

Moviplan iC is the latest-generation X-ray system, combining all of the features of modularity, ease of use and functionality needed for a radiology centre that wants to increase productivity and efficiency, in any working situation.

Complete **modularity** means a system that can be tailored to meet any room layout and operational requirement, while its extreme **ease of use** means a system that offers rapid and intuitive controls, thus greatly improving workflows. The wide range of combinations and **functions** turns Moviplan iC into a multifunctional system, capable of performing a wide variety of exams in optimal fashion on any type of patient.



moviplan iC

The X-ray elevating table is designed to provide *plenty of movement* of the floating table which, combined with the potter bucky's extensive movement allows the patient's X-ray coverage without his repositioning, so reducing the preparation time of the exam.

The original system for unlocking movements uses *photocells* on the base of the table, which in the elevating-table versions is illuminated by white LED lights. The table is so robust that it can easily accommodate bariatric patients and it's so close to the ground when it's lowered that it's very easy for patients of all ages to sit on the table, allowing also to carry out some exam on patients in wheelchairs.

A real care was dedicated to the design of the table: its large surface area that is totally smooth with no raised edges, makes it easy to transfer the patient from stretcher to table, simplifying in the meantime the cleaning process.



design
& performances

modularity for every budget

Versions with column

The version of Moviplan iC with table and floor column is the right solution for medium size operative room that can perform a huge range of exams and applications, meeting the various diagnostic needs of every radiology centre.

The system's extreme modularity makes it possible to tailor configurations to the operational needs of the customer as well as to budgetary considerations.

Even the basic configuration of the Moviplan iC, which has the **column with LCD interface**, has all of the features needed to perform the typical projections required by an X-ray system.

The intuitive commands make the system easy to use, making it simple for operators to take over even after brief training. In addition, **auto-tracking** functions, which serve to keep tube and detector aligned and parallel, make the system even easier and faster to use.





In the high-end versions, the intuitive **touch screen** user interface integrated into the X-ray tube head means that all of the main system parameters can be handled with just a few touches. The device can also be

equipped with a series of motorised movements, thus enabling various advanced functions, such as **electronic tomography**, **stitching** and **auto-positioning**, according to the specific procedure required by the examination.

The column X-ray system can be completed with the **Tele iC chest stand**, available in fixed or tilting version. Its wide vertical movement and its detector centre's minimal distance from the ground offer maximum application versatility, for instance in the lower limbs exams.

In addition, the new **Tele iC SR** - Stitching Ready - model is now available, simplifying and improving "full-leg full-spine" examinations, thanks to its integrated vertical patient support, which can be parked quickly if not required (see cover and next page).



application versatility

a complete and versatile X-ray system

Ceiling-suspended versions

The configuration with the *ceiling suspension Lem Plus iC* is the perfect solution for X-ray rooms which need to prepare examinations as quickly as possible, and require *great application flexibility* and *high production capacity*.

The complete motorisation of the movements and efficient *handling of examination protocols* enable the automatic positioning of the device, according to the type of anatomical projection required, reducing the necessary time to change the type of exam.

The Moviplan iC system with Lem Plus iC is thus an extremely valuable diagnostic tool which is always ready for use, optimises workflows and increases X-ray room productivity. Despite its advanced technology, Moviplan iC is very easy to use, due to its intuitive *touch screen* graphical interface which is an integral part of the X-ray tube head, which provides the operator with an immediate overview and control over the main system parameters. The ceiling suspension system provides complete effortless freedom of manual positioning, which is especially important in emergencies.

Ergonomic handles with integrated movement activation pushbuttons make it possible *to position the device rapidly, effortlessly and precisely*, while the extensive movement along the three axes enables the whole X-ray room to be covered. Additionally, the cables are hidden, which enables the operator to move the equipment around with greater confidence.

In combination with the Lem Plus iC, the elevating table can be configured with the *photocell barrier* to unlock movements on both sides, which makes the system even faster to use. The combination of the Lem Plus iC ceiling suspension system with the tilting Tele iC chest stand is another ideal solution for situations where rapid performance and position flexibility are fundamental, such as in A&E diagnostics.

The *adjustable structure* of the chest stand, with the particular horizontal rotation of the detector support, means that every type of projection can be performed with the patient in orthostasis or on a stretcher.





moviplan IC



high throughput

digital imaging at your fingertips

VDX Digital Imaging systems

The application and diagnostic potential of Moviplan iC is best expressed when combined with **VDX** and **VDX Next systems**. In addition to the advanced acquisition software, a variety of fixed or portable flat panel are available in different sizes, offering maximum configuration flexibility in the X-ray room. The flat panels of the VDX Next system are available both in the standard size of **35x43 cm** and in that of **43x43 cm**, dedicated to the acquisition of larger anatomical areas. Wireless flat panels of 43x43 cm can be used in table and wall stand bucky in the traditional way, instead of cassettes, or with a protective case that allows **inductive charging**, available as an option inside the bucky. The integrated detector recharging station is designed to charge the detector batteries seamlessly while it is in the table or wall stand bucky.



The bucky is equipped with an inductive charger that senses the presence of the detector case and starts charging the battery automatically, using the inductive charging technology that is **totally wireless** and eliminates any issue with connectors and external devices.

The battery is fully charged in a few hours, and to ensure uninterrupted image acquisition, the battery charge is automatically suspended during exposures, eliminating any possible interference between the charger and image acquisition.

The detector is protected by an enclosure that provides a convenient carrying handle and an additional carbon fiber layer to protect the detector surface, making the system even **safer and easier** to use.



*simple
& flexible*



In order to meet all of the application requirements, the acquisition system can handle **multiple sensors**, which means that the Moviplan iC can be configured using **single or dual-panel VDX solutions**, combining two portable flat panels or a portable detector with an integrated one.

The **Amorphous Silicon with Caesium Iodide (CsI)** technology makes all of the VDX panels highly sensitive to X-rays, producing clear images also at low doses.

enhance diagnostic contents

VDX Next Software

All VDX Next flat panels are controlled from an acquisition and processing workstation equipped with powerful **VDX Next imaging software**, designed to maximise the workflow in a digital X-ray system.

The intuitive graphical interface, designed to work with **touch screens**, simplifies the learning phase, guiding the user through a series of icons depicting X-ray projections, while the availability of **anatomical programmes** makes it possible to select exposure parameters automatically, thus speeding up the system setting phase.



Following acquisition, the software automatically applies **specific processing algorithms** for the projection, enhancing the details and harmonising the visibility of the anatomical structures, thus coming up with images of outstanding quality in seconds, and thus enabling immediate diagnosis. There is also a complete set of processing tools, which can further enhance the content of the image.



The application capability of the digital system is extended even further by the advanced **stitching function**, which acquires a series of exposures and automatically combines them into a single image, in order to give a single view of larger anatomical areas, such as the spine and the lower limbs. In the totally automatic configurations, with the **auto-positioning function**, the workstation sends to the radiographic system the information needed to reach the exact working position for the examination required. Finally, **DICOM functions** enable the digital system to be integrated efficiently with hospital HIS/RIS and PACS systems, thus rounding off the operating efficiency of the digital X-ray system.

VDX Next software is an innovative application that offers **advanced features and options** to enhance the image acquisition capabilities of the diagnostic room such as "Software Grid", "Boost Lines" and "Bone Suppression".



Image with anti-scatter grid

Image without grid and without Software Grid

Image without grid but with Software Grid



Image without Bone Suppression



Image with Bone Suppression



Image without Boost Lines functions



Image with Boost Lines functions

The **Software Grid** allows physical gridless exams, eliminating scattered radiation noise, improving image quality, and reducing the dose.

The **Boost Lines** allow for clearer visualization of tubes and catheters while facilitating verification of their correct positioning, with the ability to switch between the original and processed images.

The **Bone Suppression** removes bone components from AP/PA chest X-ray images, improving the visualization of soft tissues; this makes it a better solution than the "Dual Energy" technique, as it does not require double exposure.

The software is provided with a **user-friendly interface** that allows for easy customization of imaging settings and quick access to patient data.

These features make VDX Next System a powerful tool for radiologists and clinicians looking to maximize diagnostic accuracy, efficiency, and patient care.



digital
quality



radiology ahead

Competence in x-ray systems

Villa Sistemi Medicali is one of the most important manufacturers of radiological systems worldwide. Leveraging more than 50 years of experience in X-ray field, the company's know-how covers all technologies that can satisfy any need in the X-ray field.

A wide range of equipment

Our range of products includes:

- Digital X-Ray systems
- Remote controlled tables
- Classical tilting tables
- General rad rooms
- Mobile units
- Surgical C arms
- Mammography

Our priority: Technical Service

A wide network of highly qualified and specialized technicians guarantees effective and reliable maintenance of Villa's medical radiology equipment installed anywhere in the world. Our specialist consulting programmes and technical service contracts are defined by our qualified personnel and adapted to the needs of our customers.

Logistic services: a global presence

Villa Sistemi Medicali daily provides full systems, spare parts, accessories and consumables, shipped regularly to all our customers, worldwide, using the most efficient couriers. Shipment modalities include ground, ship, air and inter-modal freight transport.

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