

# RADON

## MEDICAL IMAGING



## Del Medical Apollo EZ R/F System

[radonmedicalimaging.com](http://radonmedicalimaging.com)

We focus on people, innovative products,  
and service excellence

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# apollo

R/F remote controlled systems



radiology ahead

*apollo systems*  
the system evolution redefined



# *quality & innovation* 4.0

In the wide range of radio-fluoroscopy systems, the Apollo and Apollo EZ remote controlled tables have stood out over time for their unique and innovative features, making them particularly valued by users for their extensive application capacity, their ***ease of use*** and ***excellent image quality***. These features make them among the most appreciated products by radiology professionals.

This appreciation reinforced in Villa the idea that for these remote controlled systems, it was important to take another step towards innovation. So some features already introduced in DRF digital systems were integrated, also in the analogue versions, to consolidate the availability of ***advanced technologies and features*** throughout the entire product line, which enable any operating requirements from specialists in the industry to be efficiently met.

The features of the updated versions of the Apollo and Apollo EZ remote controlled tables allow additional and decisive ***improvement of the performances***, obtained by introducing important ***technical innovations*** and streamlining the methods of use by the operator. This results in greater operating flexibility, an optimal workflow, and therefore a further increase in productivity.

The aim of increasing these system features of versatility and operational efficiency to a higher level led the Villa R&D team in the design of the innovative DR-Wi version of Apollo and Apollo EZ. This version, specifically optimised for use with ***wireless digital detectors***, revolutionises the ***multi-functional*** use of the remote controlled table by combining, in a single integrated system, basic R/F applications with those typical of a digital radiographic room. All with a really low-cost investment.



*Efficiency and ease of use*



*Quality and diagnostic precision*

# apollo productivity at a glance



Apollo is Villa's remote controlled table that allows you to get the best from the R/F room, offering a range of fast and accurate movements that ensure an extraordinary application capability of the system, thus reducing examination preparation times and improving patient comfort.

**Tilting by 90° in both directions** makes it possible to install the remote controlled table in the most diverse configurations of the diagnostic room, allowing top results to be obtained in any environment.

The **wide movement of the tube/spot film assembly** allows total patient exploration without having to move the tabletop longitudinally, thereby ensuring faster positioning and greater comfort for the patient.

By means of motorised tilting of the tube support column, combined with the rotation of the X-ray source, **oblique projections** can also be carried out on the table as well as patient exposures on a stretcher.



*Oblique projections on the table*



# 4.0 performances & flexibility



Extended SID  
up to 180cm

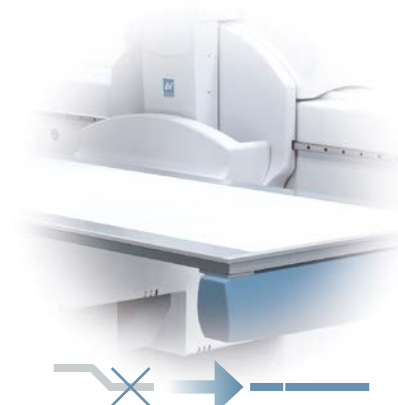
Furthermore, the focus-film distance, which can be extended **up to 180 cm**, makes it possible to examine the chest directly on the remote controlled table.

The **adjustable height** from the floor and the **completely smooth surface** of the examination table make patient access easier and simplify transfer procedures from the stretcher. In addition, the sturdy and reliable mechanical structure has a maximum capacity of **284 kg**, with no movement restrictions, thus also making it possible to examine bariatric patients.

Apollo is available in the **Open** version with the single-side suspended carbon fibre tabletop that provides **full access to the patient** from any side of the table. The operator is thus able to rapidly and efficiently act in the shortest possible time, accessing the patient directly in a comfortable and safe manner.



Examination table adjustable in height



Smooth and borderless examination table



# apollo EZ efficiency meets simplicity

Apollo EZ is the solution designed to overcome any installation limits in narrow spaces, thanks to its **compact mechanical structure**, and to allow an R/F room to be created with an affordable investment.

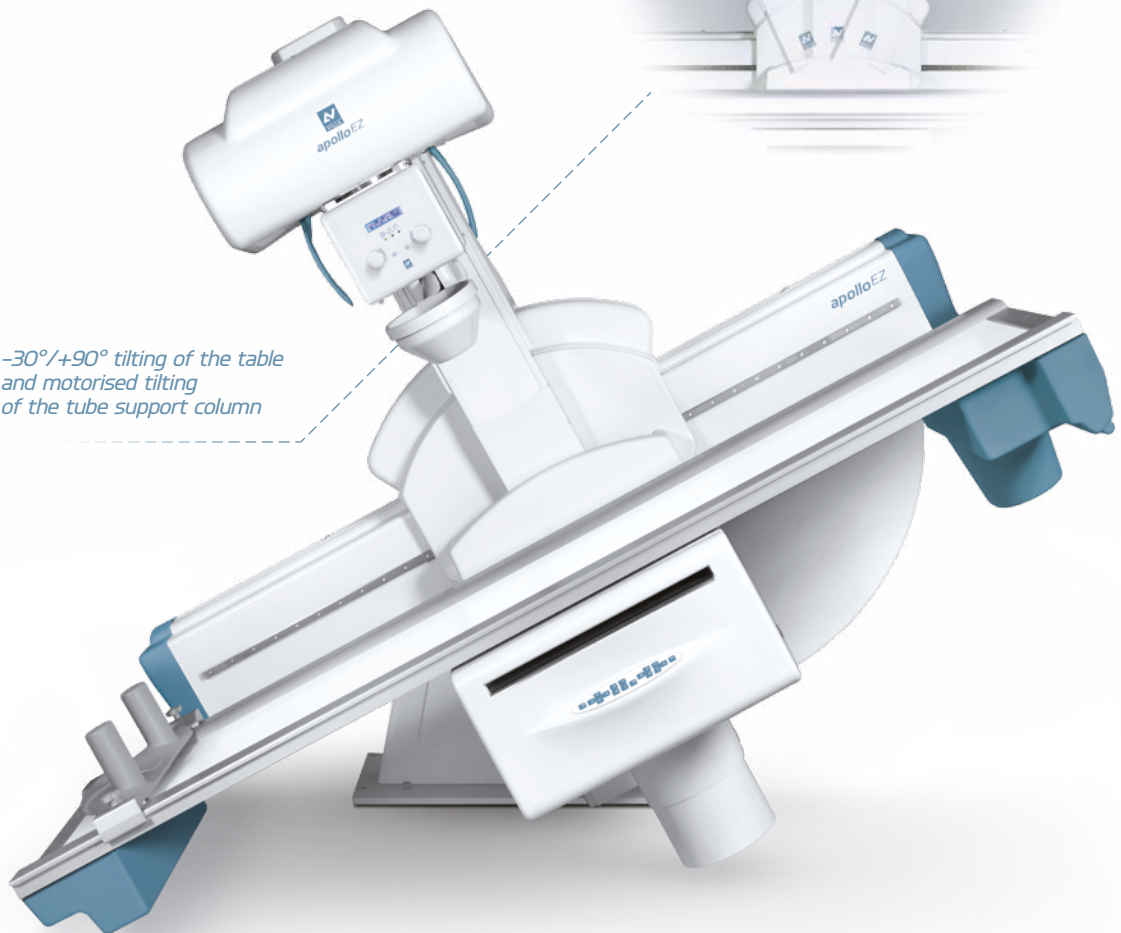
The table is available with **transversal (2-way) tabletop movement**, for maximum compactness, or with **4-way tabletop movement**, to offer maximum patient exploration, combining tabletop and tube/spot film assembly longitudinal movement.

Moreover, Apollo EZ includes functional features that enable the great application flexibility typical of the Apollo line, such as the tube support column with **motorised tilting** and the **focus-film distance up to 180 cm**, that allow different types of projections to be made directly on the table, including chest studies.

Designed with the same high quality standards used in manufacturing all of our equipment, Apollo EZ is a **compact** and **reliable** system that can be used in environments requiring high productivity and in the most critical situations, thanks to its ability to withstand high loads with no movement limitations.

The equipment is able to ensure high levels of safety for both the operator and the patient, thanks to the **real-time control** of all movements and to the specific **anti-collision device** that stops the tilting movement of the table in the event of contact with an obstacle.

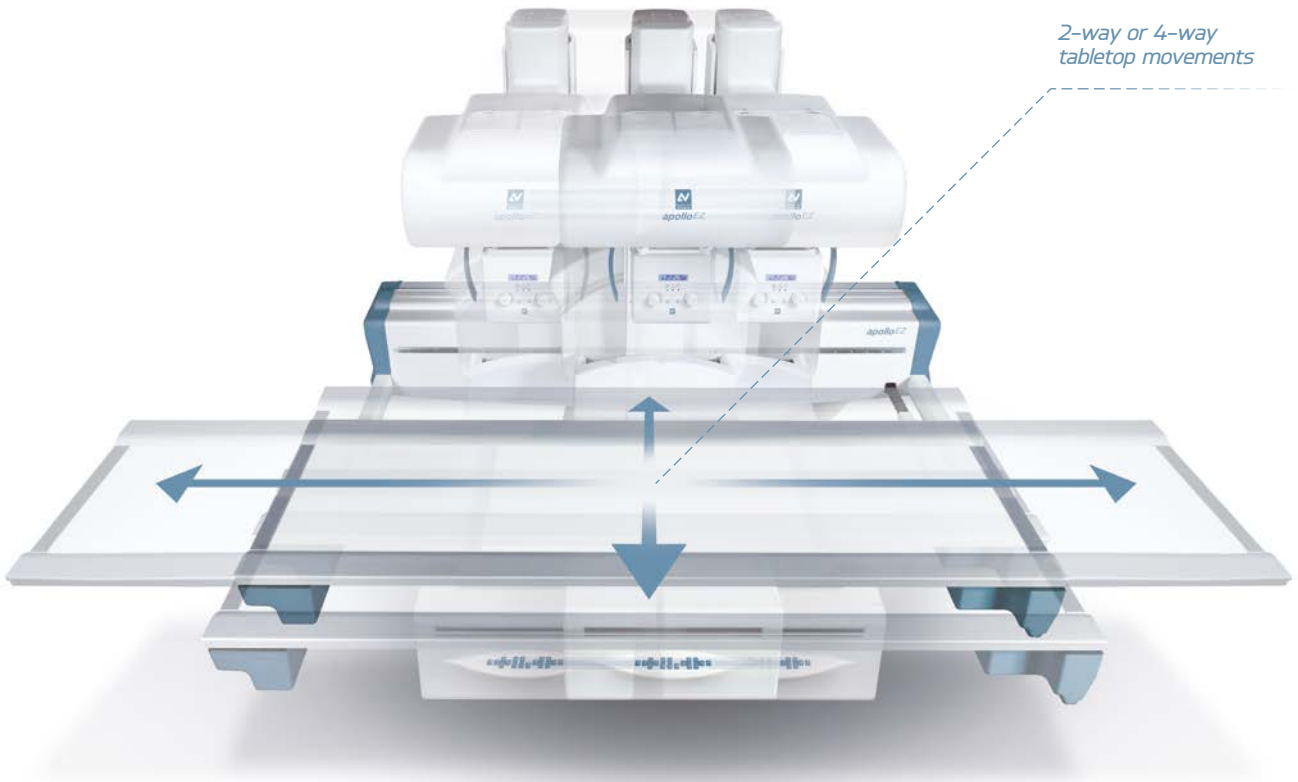
-30°/+90° tilting of the table  
and motorised tilting  
of the tube support column



*compact & reliable*

4.0

2-way or 4-way  
tabletop movements



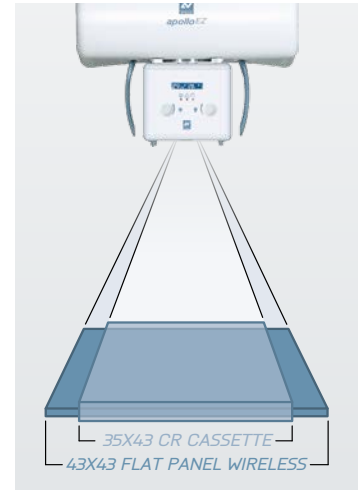


# apollo DR-Wi the powerful hybrid solution

The innovative **DR-Wi** version of Apollo and Apollo EZ is designed to get the most out of the combined use of the **wireless Flat Panel** and the analogue remote controlled table with appropriately optimised functions. This solution reduces work times and further **improves the quality of the images** compared with the use of Computed Radiography systems or with cassette-film combinations, while reducing the dose delivered to the patient.

The significant functional versatility of the DR-Wi version is given by the focus-detector distance variable up to 180 cm, and by the **wireless detector in different formats (until 43x43cm)**, which adequately covers all anatomical regions and allows chest projections to be made directly on the table.

Furthermore, the wide flexibility in positioning the X-ray source is functional in performing direct contact and off-table exposures with the Wi-Fi detector.



# 4.0

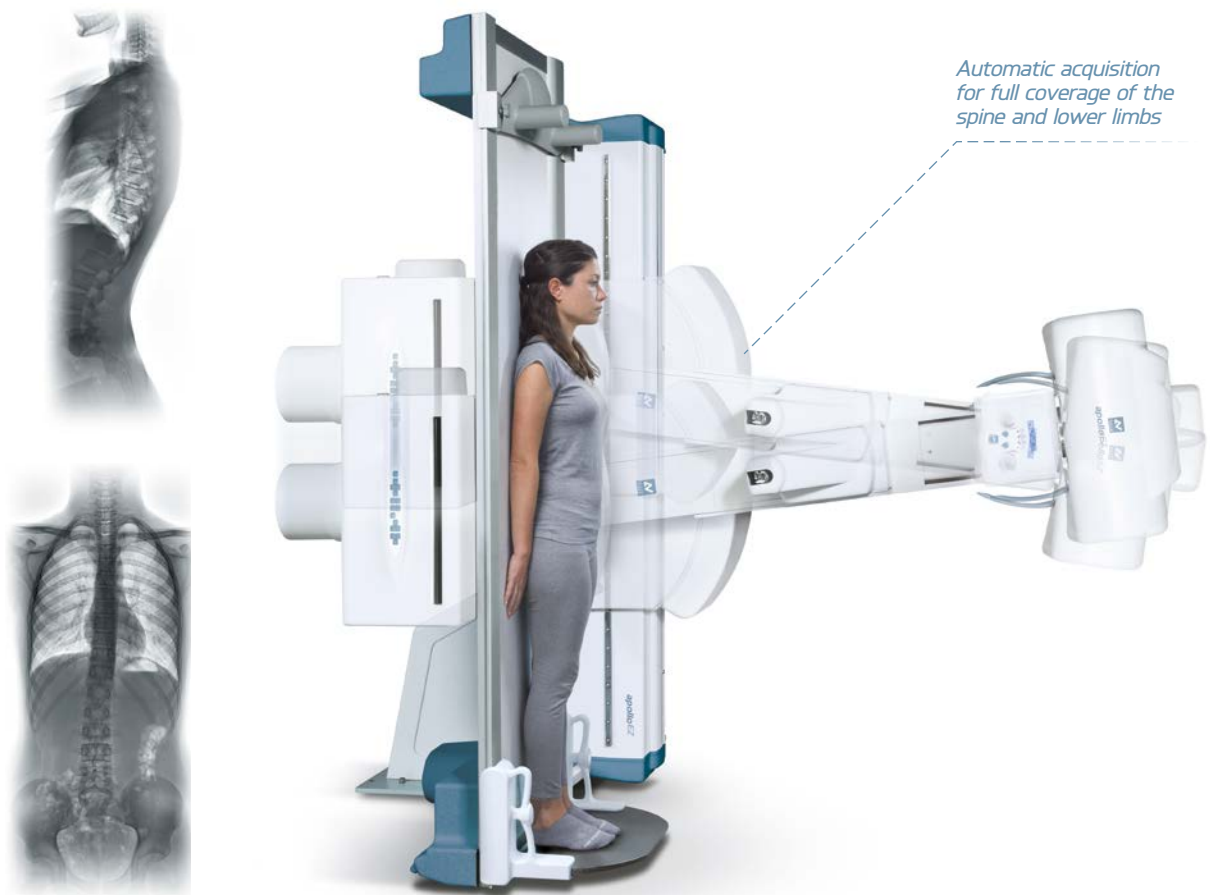
versatility  
& productivity

The workflow is simplified even more by the availability of the **Multi-Grid** system, which automatically selects the most suitable anti-scatter grid based on the focus-detector distance set.

Should grid use not be required, such as when examining paediatric patients or extremities, the grid can be parked automatically outside the X-ray field, thus resulting in a reduction in the dose delivered.

Particular importance has been given to the integration of the **automatic Stitching procedure**, which consists in the automatic acquisition process of a set of X-ray exposures and their subsequent union into a single image, thereby supporting investigation of extensive body areas, such as full-leg and full-spine examinations.

All this makes the Apollo DR-wi a **truly multifunctional system**, as it combines in a single device all of the applications usually performed with analogue remote controlled tables, conventional radiographic rooms, large format chest stands and CR systems.



# apollo systems designed for the patient care

Based on an upgraded, high performance hardware architecture, the new remote control console introduces features and solutions that further increase **ease of use** and **efficiency of the system**, thus helping to speed up the workflow and increase productivity in the R/F room.

The operator can simply and intuitively control the entire system through the wide **touch screen interface**, where the information on the table position and operating mode are instantly displayed.

The new **smart-touch joysticks**, made with touch-sensitive material, ensure that table movements are only activated intentionally and constitute, together with the updated software control infrastructure, a set of elements designed to allow the equipment to be used in complete safety.

The operator is able to communicate with the patient to provide instructions and assistance during the examination via the **built-in two-way intercom**, which is supported by pre-recordable messages in several languages, and through the **video camera built into the collimator**, which displays the image of the patient in real time on the console, the operator can perform centring operation without X-ray emissions.

However, should it be required to stay close to the patient when preparing the examination, the operator can start the remote controlled table movements through the **control panel** on the table side or through the optional touch screen collimator, or via an additional control panel on a trolley.



Touch screen Interface for full control of the system

Real time visualisation and centering of the patient

Built-in two-way intercom

Smart-touch joysticks for movements of the table



# ergonomics & functionality

The spot film device, compatible with numerous formats of radiographic cassettes, makes the preparation of the examination simple and fast through the **automatic cassette loading and alignment** mechanism, thus allowing multiple images to be acquired in succession on the same film through the line and cross divisions.

This system also allows the **anti-scatter grid** to be **automatically parked** outside the X-ray field, in order to reduce the dose delivered. The TV chain with image intensifier and CCD camera can always capture images at the highest levels, thanks to the **automatic control of the exposure parameters** based on the density of the examined area and the algorithms for noise and motion artefacts reduction.

The Apollo and Apollo EZ remote controlled tables are also available with **DIVA-HDE digital acquisition systems**, based on image intensifiers, which further increase performance and workflow, through the acquisition process streamlined by the anatomical programs, the image processing tools and integration with the HIS/RIS and PACS networks via DICOM functions.

The system can be supplied with a **wide range of accessories**, useful for patient positioning and for special procedures, such as lateral cassette holders, compression band, shoulder support, patient footrest, leg support and handles.





## *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 which can create a modern radiographic examination room.

### 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
- Dental units: intra-oral, panoramic and 3D.

### Our priority: Technical Service

A wide network of highly skilled service engineers ensures effective and reliable maintenance of all Villa Sistemi Medicali equipment installed worldwide. Preventive maintenance programs and 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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