VILLA
SISTEMI
MEDICALI

MEDICAL
IMAGING

Apollo

Remote controlled RF system

next generation remote controlled R/F system

Innovation and safety

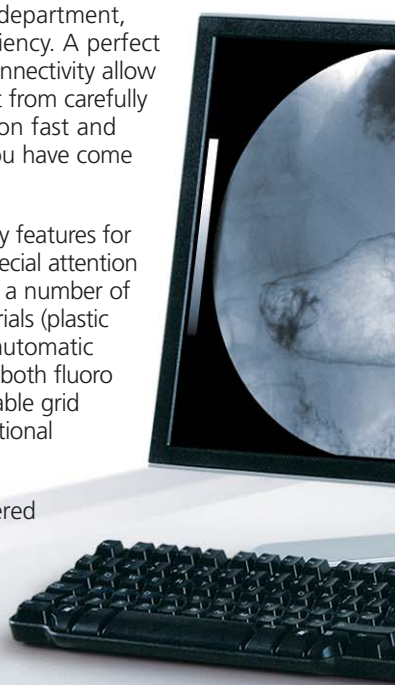
Apollo is the ***next generation*** remote controlled RF system from Villa Sistemi Medicali, designed for maximum patient throughput and application flexibility.

Four sides open access and one of the industry's lowest tabletop height will ease patient loading operations, as well as procedures requiring support personnel to operate in the table area.

The new Touch Screen interface, with its hi-tech look and feel in line with Apollo's performance, allows to further improve the system's usability.

In the demanding environment of your imaging department, Apollo is one step ahead in the direction of efficiency. A perfect mix of flexibility, ease of use, image quality and connectivity allow you to get the best out your RF room. You benefit from carefully engineered solutions that make every examination fast and effective, with the widest scope of applications you have come to expect from an RF room.

Apollo is built with a high degree of intrinsic safety features for your peace of mind during everyday operation. Special attention is given to patient's dose reduction, by employing a number of provisions, such as low-absorption tabletop materials (plastic or carbon fiber), reduced skin-to-film-distance, automatic collimation, fully automatic parameter settings in both fluoro and exposure (zero point technique). The retractable grid can be automatically parked out of field for additional dose reduction, such as during pediatric exams.

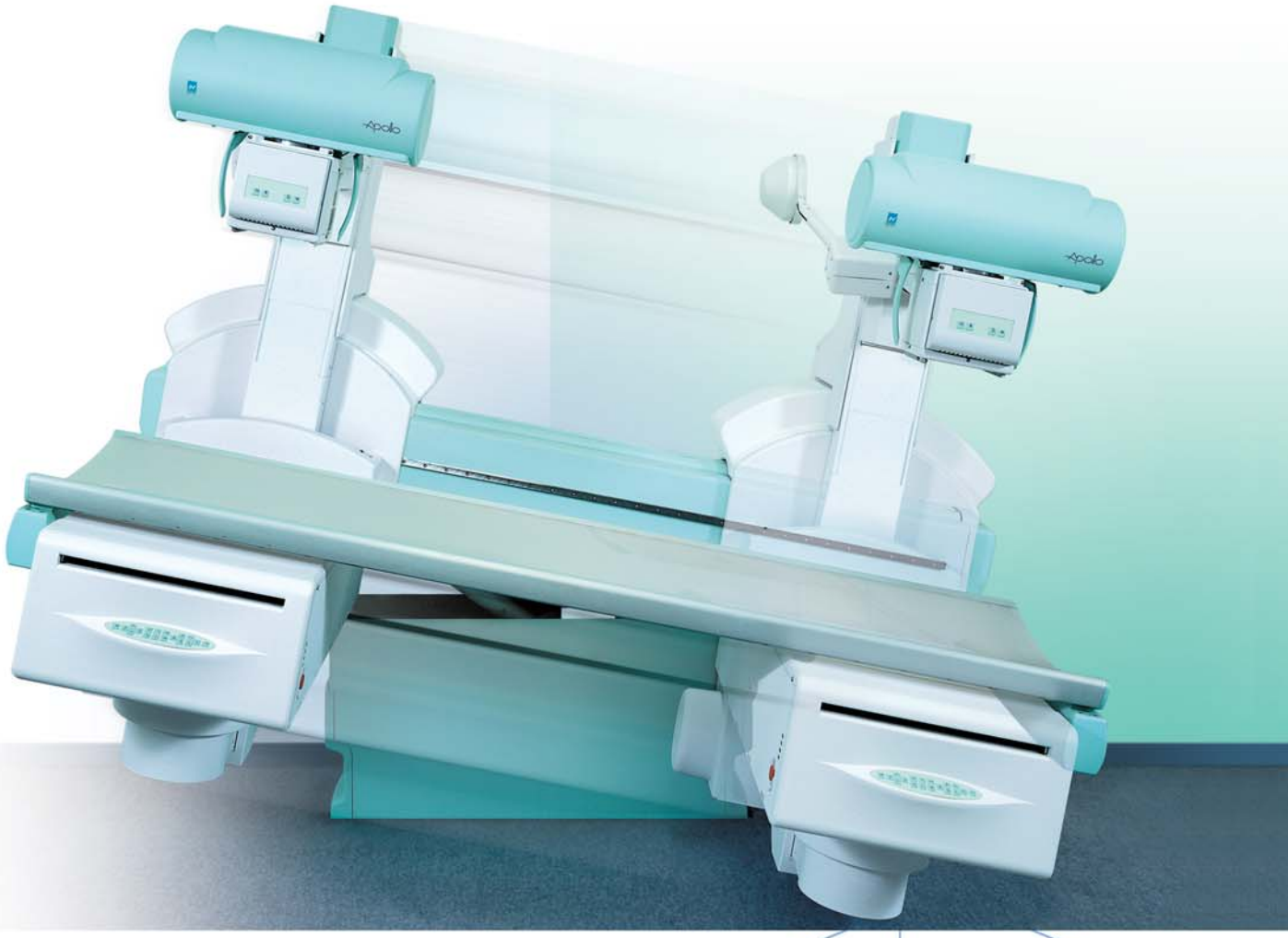


Specifically designed motion algorithms keep the target organ centered during oblique projections in fluoroscopy, thereby reducing the examination time as well as patient radiation exposure.
An integrated safety supervisor chip continuously checks that table movements and X-ray emission are within allowed limits to ensure the highest possible patient and operator safety.

Apollo

Increased workflow

We know how important ***your investment*** is, and how fast you need to recover it. That's why Apollo is designed to ***maximize the workflow*** of your RF suite.



Wide, fast and accurate movements reduce the patient preparation time and increase workflow with the additional benefit of improving patient comfort. The main movements have progressive speed control that combines accuracy for small adjustments and speed for extended travels.

The wide scanning range provides complete patient coverage without the need for longitudinal tabletop movement, resulting in faster positioning and better patient comfort.

Even the finest details have been considered to make the system adapt to the way you work: you can define preset table positions to speed-up the most frequent procedures, select the tilting speed or even choose your preferred movement orientation according to table or monitor view.

Additonally, during the collimation phase, the operator's workflow can be further improved thanks to the use of the optional motorized filters and LED references.

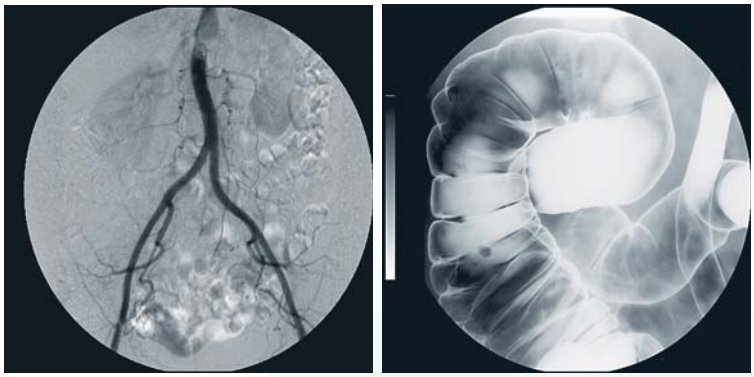
The powerful spot film device with line and cross divisions will fit every application need. A unique cassette loading and unloading mechanism speeds up even this frequent operation. All table movements can also be activated via the tableside keypad to improve efficiency during the patient preparation phase.

Image Quality

Our commitment is to provide our users with ***outstanding images*** on every radiographic exam.

High integration between each sub-system ensures that the entire imaging chain always works at its best to provide the highest picture quality with minimal manual settings, allowing you to concentrate on your patient, rather than on the equipment. Reduced skin to receptor distance, fully automatic zero point technique, state of the art CCD cameras with advanced noise reduction algorithms, are the key to consistent image quality in every application.

Should your intention be to go digital, we can provide you with our solutions based on Image Intensifier technology: Diva-D and Diva-HDE. They feature a 1K x 1K, 12 bit camera and can perform up to 25 frames per second acquisition speed in fluoroscopy. Diva systems' anatomical based programs automatically optimize the entire imaging chain from exposure parameters to image processing algorithms, and the optional image intensifier lift device is also available to further improve the digital image quality.



Wide scope of application

The advanced design of Apollo provides ***unsurpassed application flexibility*** for every need in radiographic and fluoroscopic procedures.

Apollo maximizes the flexibility of the remote controlled RF approach. Skeletal, GI, tomography, vascular, ERCP are performed easily and quickly. Fast switching between applications is guaranteed by careful attention to design details such as the out-of-field automatic compressor parking or the user-preset table positions.
The large tabletop, with an ample radio-transparent area, provides for extra anatomic coverage and easy centering of every anatomic region.

Reduced weight, compact design and fully symmetrical movements, such as 90/90° tilting, solve every installation barrier, helping you to get the best out of your RF system in all working environments.

The large column scanning range provides complete patient exploration without longitudinal patient movement. The optional stepping angio package can be supplied for peripheral angiography.

Chest exams are possible by using an additional chest stand or, more efficiently, thanks to the continuously adjustable Source to Image Distance, which can arrive of up to 180 cm, depending on the specific Apollo version.

Extremities can easily be executed with the patient standing only a few centimeters above the floor.

The tilting column allows to take oblique projections at both edges of the tabletop, especially useful in skeletal, gynecological or urological applications.

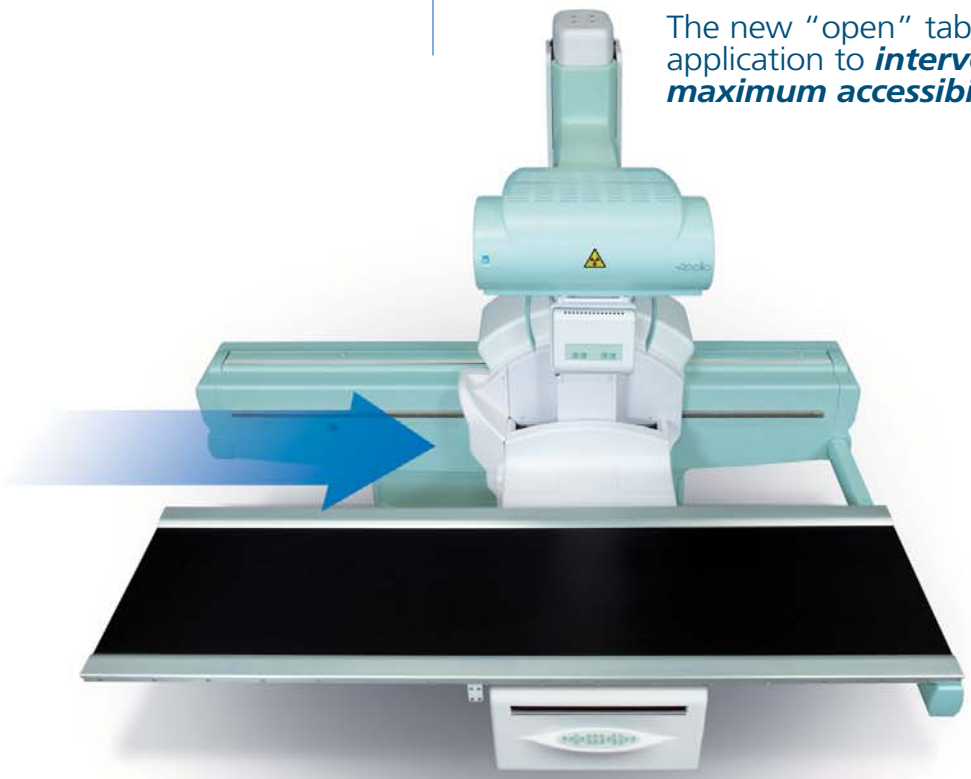
Fully electronic bi-directional tomography without connection bar, can be performed on film or in digital mode and in any position of the table.

GI studies are easily carried out in upright, horizontal or Trendelemburg position.

VILLA SISTEMI MEDICALI

Apollo open

The new "open" tabletop extends the system's application to ***interventional procedures*** and allows ***maximum accessibility*** during patient's positioning.



The Open configuration of Apollo allows a total access to the patient from any side of the tabletop in a fast, comfortable and safe way.

This complete accessibility allows also to perform any interventional procedure that might become necessary, without any limitation; the operator has therefore the possibility to act rapidly and effectively.

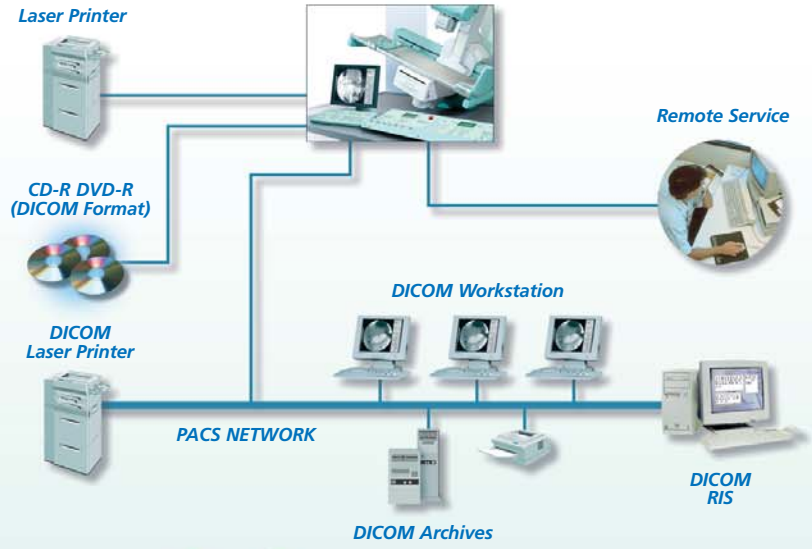
The carbon fiber tabletop allows on the Apollo Open a maximum patient load of 230 kg (507 lbs.) without limitations in movement, allowing the access also to bariatric patients.

Digitalization

Apollo allows to add the ***power of digital imaging*** to further enhance the workflow of your room.

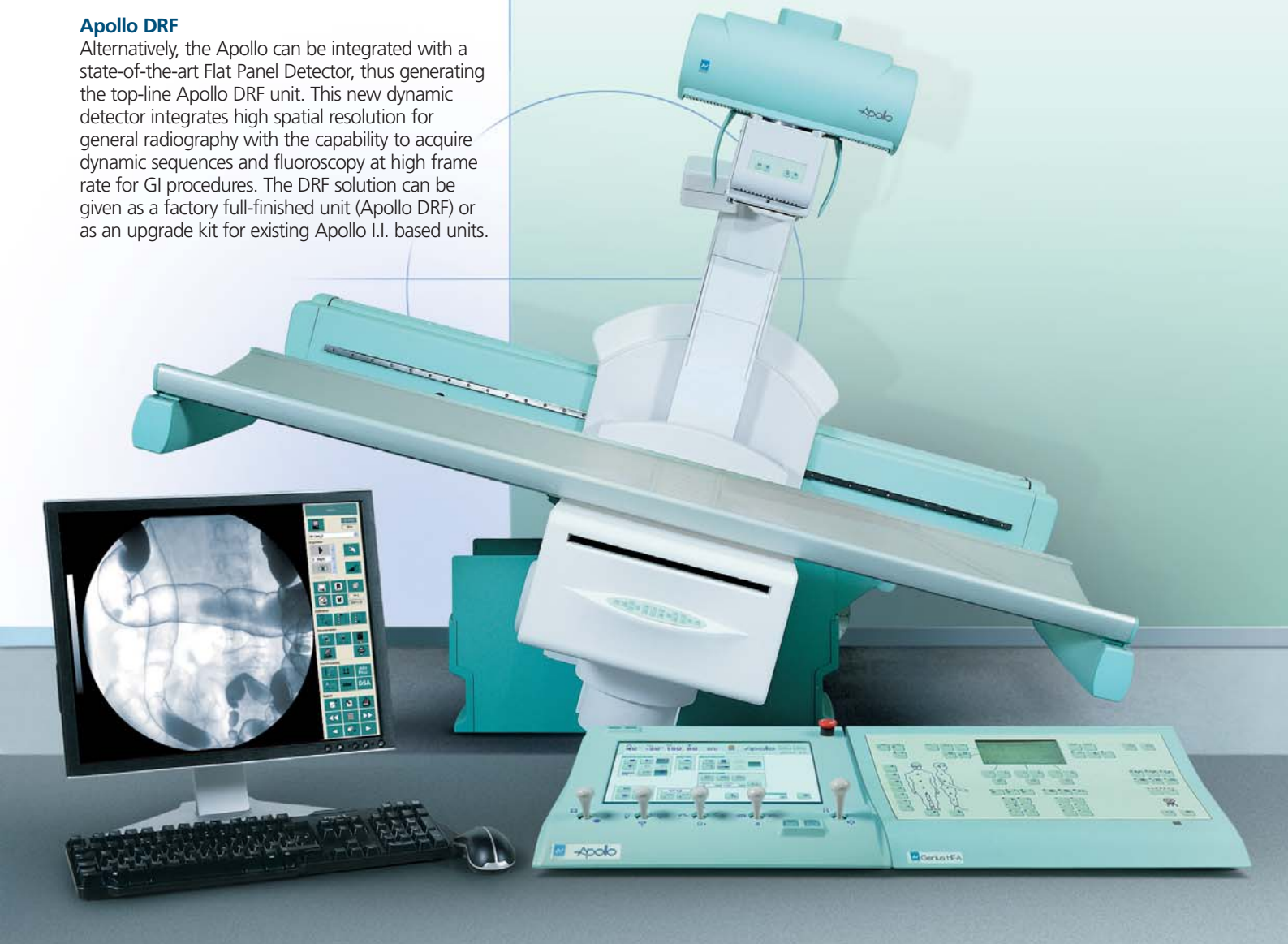
Apollo with Diva systems

The Diva acquisition systems, either Diva-D or Diva-HDE, perfectly match Apollo, when your goal is to create a digital RF or DSA room with the maximum patient throughput and full Dicom connectivity for seamless integration into your PACS network.
Both Diva versions support the most common Dicom 3 operation classes.
With Print class you can send images to the department imagers for hardcopy.
Store class provides connection to image reviewing stations for softcopy reading or to archival units for long term storage.
Worklist class will give additional integration with the hospital RIS/HIS system for direct transfer of patient data to the acquisition station.
An optional CD/DVD writer can be supplied with any Diva system for immediate images backup directly at the system console.



Apollo DRF

Alternatively, the Apollo can be integrated with a state-of-the-art Flat Panel Detector, thus generating the top-line Apollo DRF unit. This new dynamic detector integrates high spatial resolution for general radiography with the capability to acquire dynamic sequences and fluoroscopy at high frame rate for GI procedures. The DRF solution can be given as a factory full-finished unit (Apollo DRF) or as an upgrade kit for existing Apollo I.I. based units.



VILLA
SISTEMI
MEDICALI

Villa Sistemi Medicali long-standing experience at the service of our customers

Competence in x-ray systems

Villa Sistemi Medicali specialists can provide qualified information on new x-ray systems, room structure and installation and equipment positioning.

A wide range of equipment

Villa Sistemi Medicali is among the major European manufacturers of radiological systems and offers a wide range of products, such as:

- Digital radiographic and angiographic systems
- Remote controlled tables
- Classical tilting tables
- General rad floating tables
- Chest stands
- Mobile units
- Surgical C arms
- HF Generators
- 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 adapted to the needs of our customers

Logistic services: a widespread presence

Spare parts, accessories and consumables are shipped daily by Villa Sistemi Medicali to all its customers worldwide.

Villa Sistemi Medicali Spa
20090 Buccinasco (Mi) Italy - Via delle Azalee, 3
Tel. +39 02 48859.1 - Fax +39 02 4881.844
www.villasm.com - vsminfo@villasm.com

ISO 9001:2008 ISO 13485:2003 CE 0051