

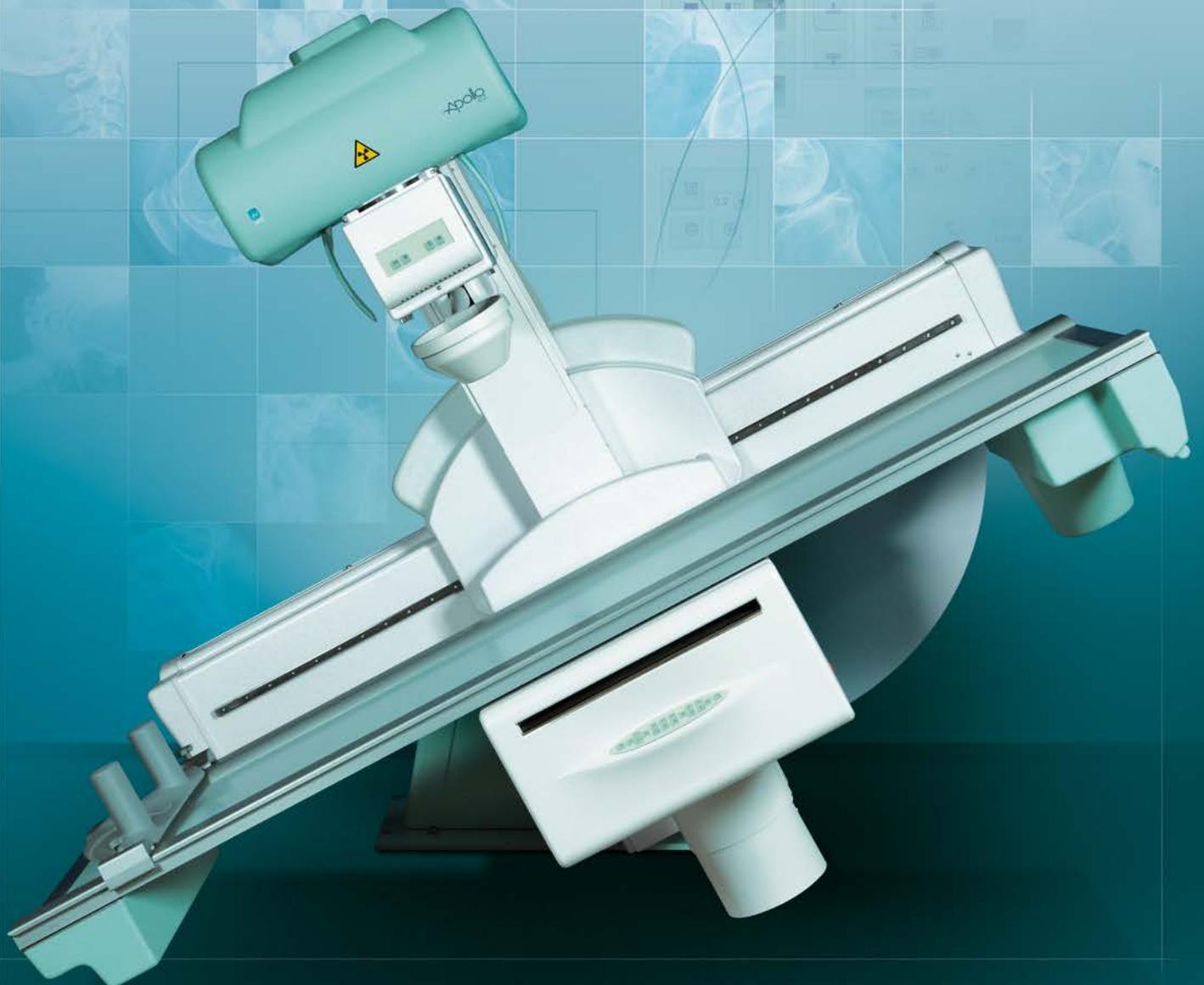


VILLA  
SISTEMI  
MEDICALI

MEDICAL  
IMAGING

# Apollo EZ

90/30 Remote Controlled RF System



## The “Easy” solution for your Remote Controlled room

Apollo EZ represents the “Easy” approach for the radiographic/fluoroscopic room and it comes from the experience of thousands of remote controlled tables manufactured by Villa Sistemi Medicali and distributed worldwide, to grant a compact and cost-effective solution for all the needs of radio-fluoroscopic imaging.

- Tilting from  $-30^{\circ}$  to  $+90^{\circ}$
- Variable SID with choice of 150cm (59”) or 180cm (71”)
- 2 or 4 way tabletop movement
- Patient weight capacity up to 200kg (440 lb.) without movement limitations
- Plastic laminate or carbon fiber tabletop
- Reduced height from the floor: 83 cm (32”) only
- Available also as DRF version with dynamic flat panel
- Touch screen command console
- Reduced space requirements



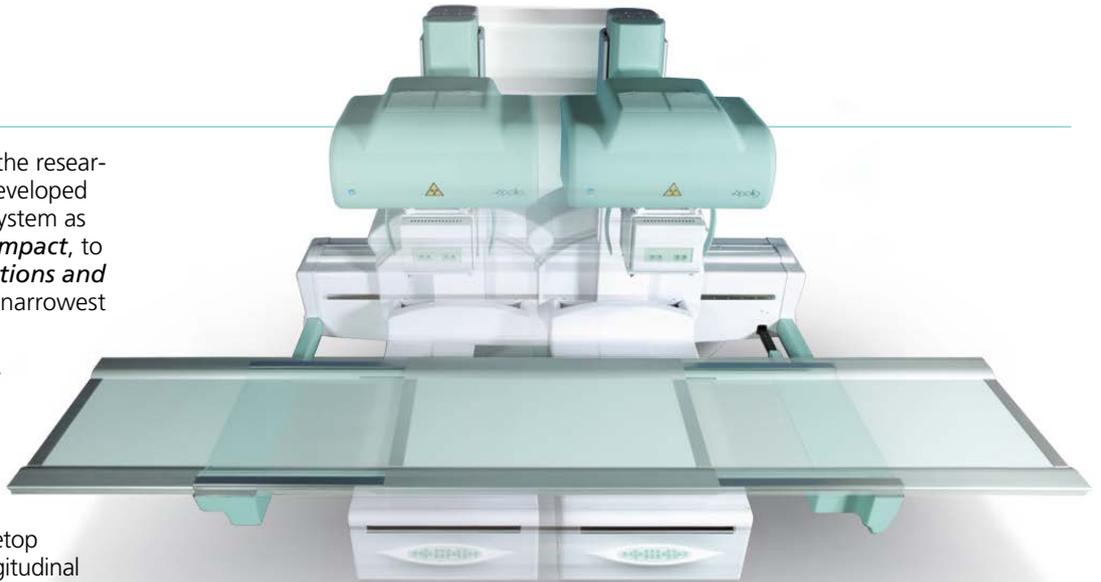


## A series of peculiarities appositely developed to maximize the efficiency of your radiographic room

### Compact

One of the key inputs given to the researchers and the engineers who developed the Apollo EZ was to realize a system as much as possible *small and compact*, to possibly *overcome any restrictions and installation limits* even in the narrowest spaces.

For this reason, Apollo EZ is available with either 2-way tabletop movement, for the *maximum compactness*, and with 4-way tabletop movement, in order to *maximize patient coverage area*, combining tabletop and tube/spot film assembly longitudinal movement.



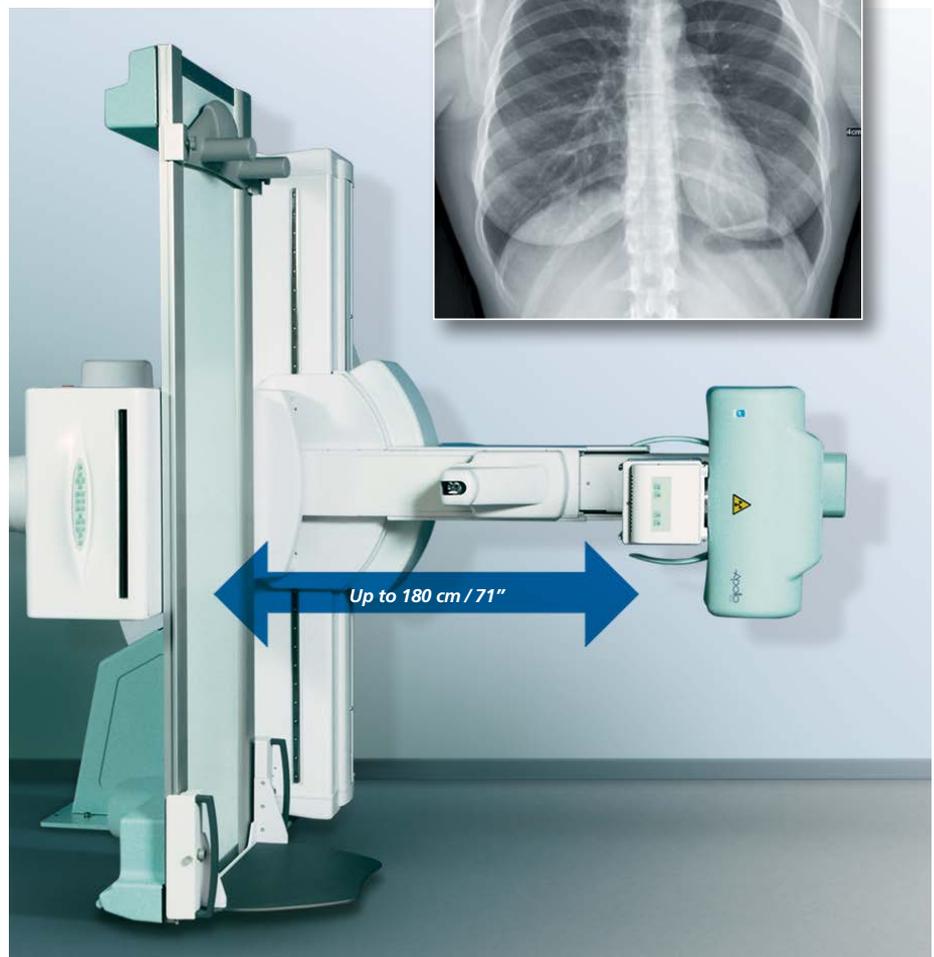
### Versatile

*Rapid and concurrent movements* reduce dramatically the patient preparation time and *increase workflow*, with the additional benefit of improving *patient comfort*. The main movements can rely on a *progressive speed control*, combining *accuracy* for the small regulations, yet *speed* for extended movements.

On the film-based versions, the *powerful spot film device*, available with *either line or cross divisions*, can fit virtually any application need, while the *one-hand cassette loading and unloading* mechanism grants a maximized speed for this frequent operation.

The *retractable grid*, available on all Apollo EZ versions, represents another key element granting the superior versatility of the machine; thanks to this feature, the operator is *never required to manually remove the grid* even in all the examinations where it is not required.

Finally, on the Apollo EZ the *extended focus distance* can arrive *up to 180cm/71"* allowing to obtain chest images comparable to those done on a chest stand, making the remote controlled room suitable also for routine exams.



## Innovative

Apollo EZ has been engineered using the **most advanced and sophisticated technologies**, in order to offer to our users a system relying on the imaging performance thoroughly refined on our Apollo units, yet integrating the **latest developments in terms of Man-Machine Interface**.

Particularly, the new console, based on **wide 12" touch screen display**, improves dramatically the system's usability: its immediately accessible commands offer the maximum efficiency and assure an optimal workflow.

In addition to the commands available on the Touch Screen console, all table movements can also be activated via the **table-side keypad** to improve efficiency during the patient preparation phase.



## Reliable

Apollo EZ is entirely **engineered and manufactured** at our headquarters in Italy, leveraging on our **recognized skills** in the manufacture of remote-controlled tables and employing **European-Standard production processes**, guaranteeing an **excellent price/performance ratio**.

The performance of Apollo EZ is therefore assured for a long time, even when the machine is used in the **most stressing environments as well as for operations with bariatric patients**, thanks to its weight capacity up to 200kg (440 lb.) without movement limitations.



## Safe

Since its engineering at our R&D laboratories, Apollo EZ was developed with a **high degree of intrinsic safety features**, for the complete peace of mind of operators and patients during everyday's operations. Special attention is always by us given to **patient's dose reduction**, by employing a number of provisions, such as reduced skin-to-film-distance, automatic collimation, fully automatic parameter settings in both fluoro and exposure.

Additionally, in order to grant the highest level of safety, a **dedicated anti-collision device** on the vertical tilting movement stops the motion in case of contact with foreign objects.



## A complete range of versions and configurations to satisfy any user's needs

### Apollo EZ

Even in its entry-level configuration with analog TV chain, Apollo EZ offers *all the key benefits* typical of a modern and sophisticated unit, to allow any user to obtain the best from the RF room.

A wide range of tubes and generators allows a *complete customization of the unit* according to the customer's expectations, while its highly-performing mechanical structure makes possible a *comprehensive variety of radiographic studies* as well as *fluoroscopic procedures*.

In order to dramatically improve the resolution of fluoroscopic dynamic studies, high resolution 1kx1k TV chains are also available in our catalogue.



### Apollo EZ with Diva systems

Should you want to combine the performance of the Apollo EZ with the advantages deriving from digital imaging, a possible solution is represented by our acquisition systems based on Image Intensifier: 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. With Diva systems the entire imaging chain, from exposure parameters to image processing algorithms, is automatically optimized thanks to the anatomical based programs.

Additionally, full Dicom connectivity is assured for seamless integration into your PACS network, as Diva-D and Diva-HDE support the most common Dicom 3 operation classes: with Print class images can be sent to the department imagers for hardcopy, Store class provides connection to image reviewing stations, Worklist class will give additional integration with the hospital RIS/HIS system for direct transfer of patient data to the acquisition station. Finally, an optional CD/DVD writer can be supplied with Diva systems for immediate images backup directly at the system console.



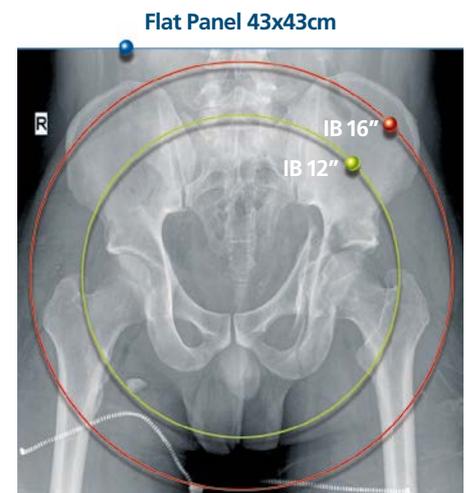
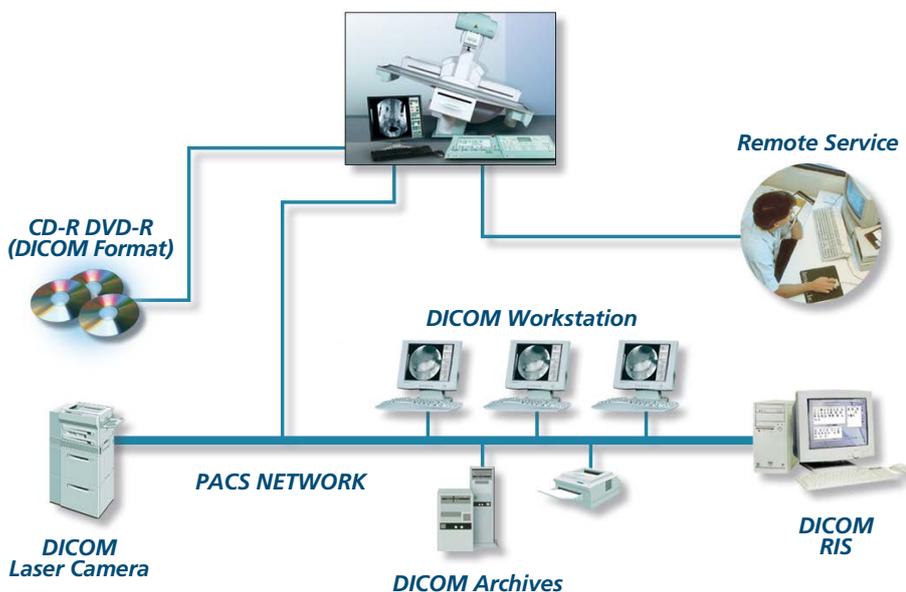


## Apollo EZ DRF

Apollo EZ, in its DRF version, is the innovative Digital RF room combining the *flexibility* of the remote controlled tables with the *image quality* and the *speed* of the new Dynamic Flat Panel detector. According to the workload and the requirements of the patient workflow, it is possible to *instantly switch* from general radiographic studies to high volume chest exams, trauma exams, or contrast studies such as GI, urological and vascular investigations. The simultaneous presence in the unit of two grids, alternatively entering

into the imaging area, allows use of the machine at any possible value of SID without directly acting on them, as long as the innovative *AGS function (Auto Grid Selection)* automatically selects the proper grid according to the selected anatomic procedure. The large 43x43cm - 17"x17" active area is appropriate for examination of any anatomic region and grants almost 50% more coverage than a 16" Image Intensifier. The combination of *large coverage* and *high image resolution* extends the application of the fluoro suite

to areas such as chest, pelvis and extremities, which could be hardly done with conventional image intensifier based systems. Thanks to the Flat Panel Technology images are displayed instantly on the integrated console and, with its *full DICOM connectivity*, Apollo EZ DRF is directly integrated into PACS networks, realizing a fully integrated RF room granting the *maximum patient throughput*. Such efficient integration between Apollo EZ DRF and the rest of the network ensures that the whole imaging chain works at the maximal efficiency, allowing the operator to concentrate primarily on the patient, rather than on the equipment.



## A broad series of radiographic studies granted

### Study of extremities



Study of the extremities is made particularly easy on Apollo EZ thanks to the immediate accessibility. Should the examination require the positioning of the machine at 90 degrees, the patient loading step very close to the ground grants ease of access for any patients.

### Analysis of skull



Exposure of skull can be easily obtained on Apollo EZ, in either Latero Lateral or Antero-Posterior View, allowing visibility of sinuses, facial bones and jaw bones.

### Arthroscopy view



Following the injection of contrast media on the region of interest, Apollo EZ can be used for the analysis of pathologies of joints.

### Study of the urinary system

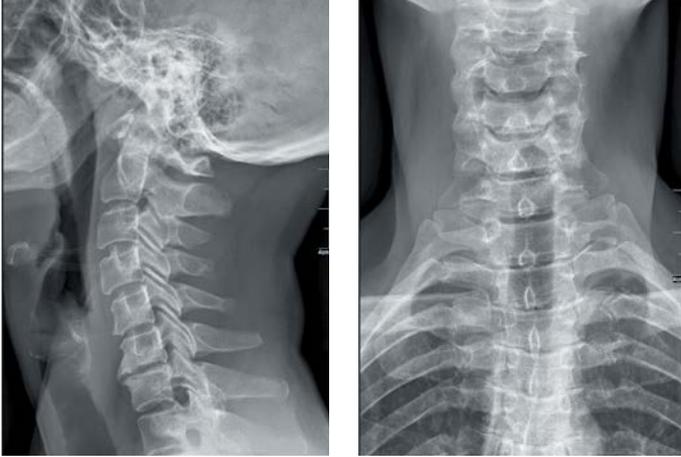


Apollo EZ allows a complete investigation of the urinary system, by combining a typical intravenous urogram (IVU) with sectional views of the kidneys obtainable with the tomo function.

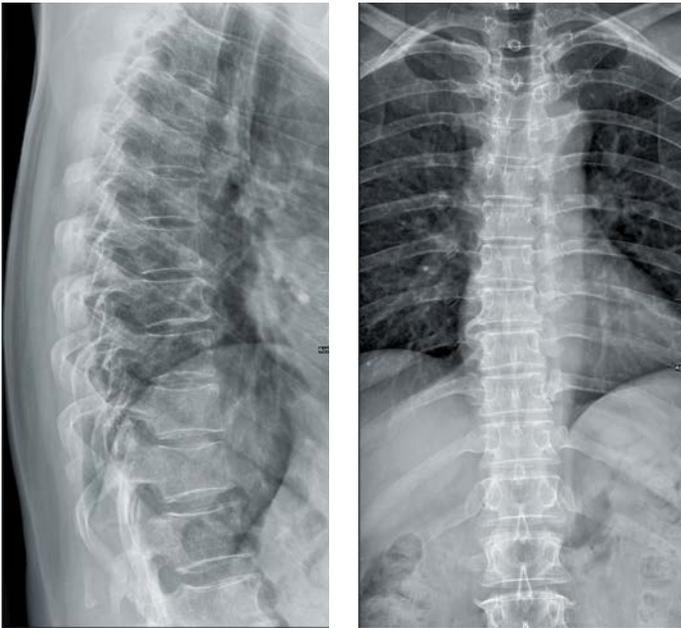
## by a superior flexibility

### Study of the segments of the spine

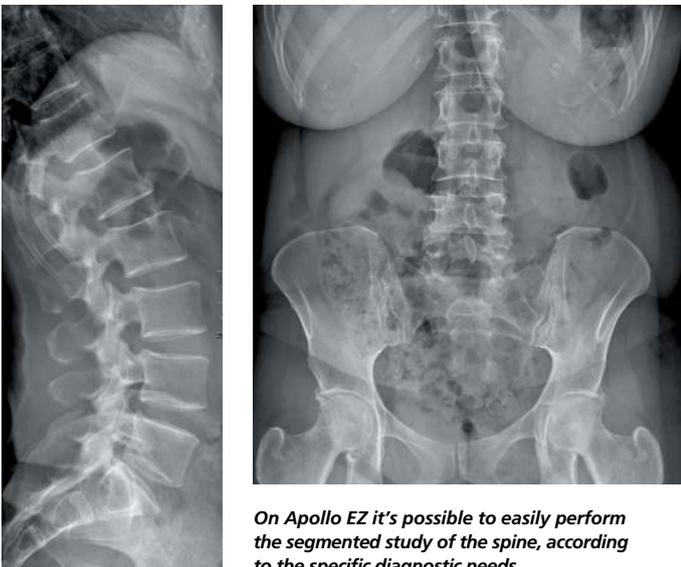
#### Study of the cervical vertebrae



#### Study of the thoracic vertebrae



#### Study of the lumbar vertebrae



*On Apollo EZ it's possible to easily perform the segmented study of the spine, according to the specific diagnostic needs.*

### View of the complete vertebral column



*Thanks to the optional stitching function, available on the DRF unit, it's possible to easily reconstruct the entire spine, delivering a single, distortion-free image.*

# A comprehensive choice of fluoroscopic applic

## Lower GI fluoroscopy



*Apollo EZ allows to perform an accurate lower gastrointestinal series via a barium enema. Particularly, on the DRF version the large active area of the detector makes possible to show larger anatomic regions without repositioning the patient.*



## Angiography



*Angiographic studies can be easily performed on Apollo EZ. On the DRF version equipped with Trixell Pixium RF 4343<sup>®</sup> detector, as well as on the unit equipped with Diva systems, the Digital Subtraction Angiography is available as an optional package and benefits from the large patient coverage without longitudinal repositioning.*

## Flebography

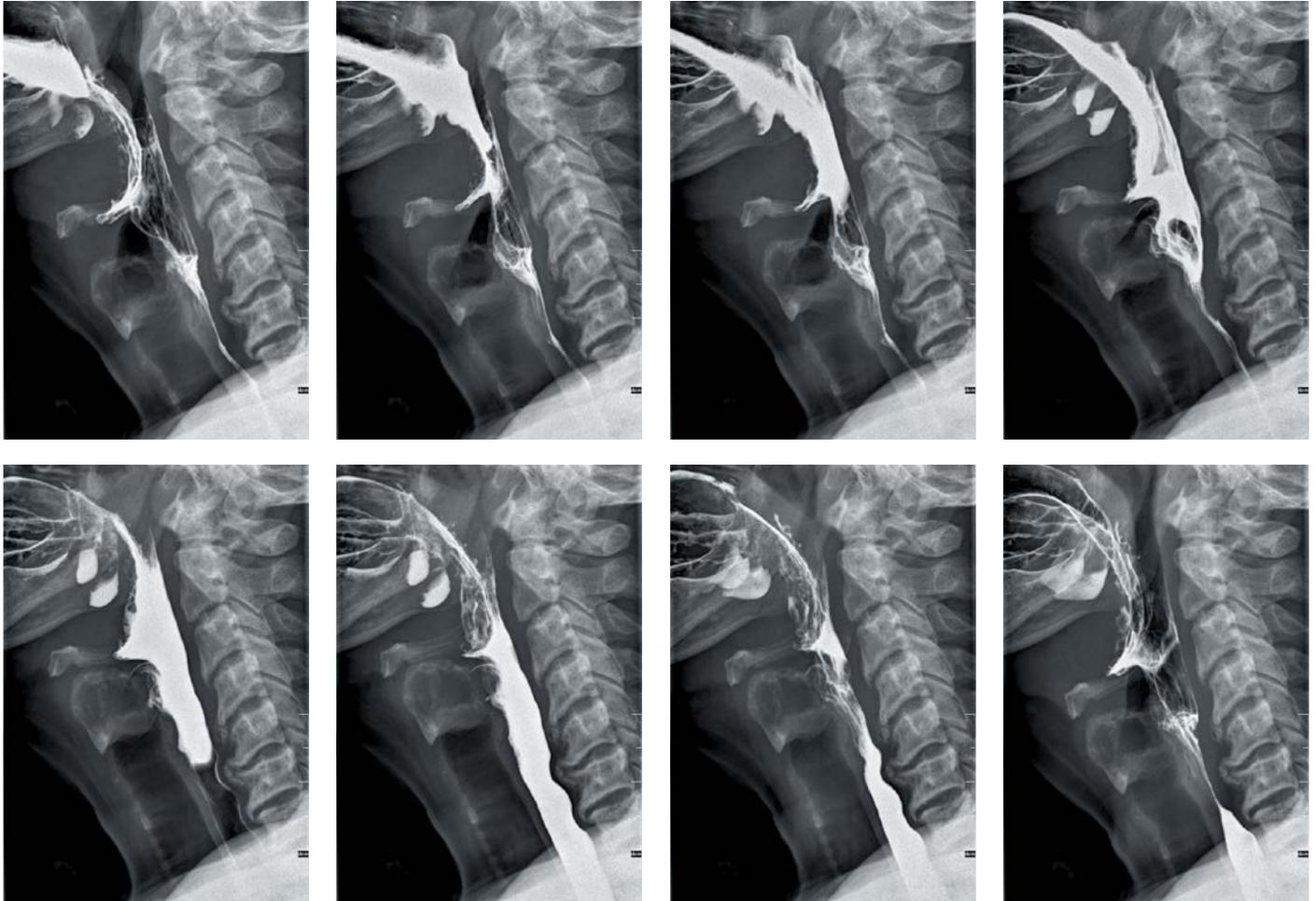


*Following the injection of contrast media via a catheter, thanks to the precise and accurate movements of Apollo EZ the user can carry on a complete study of the vascular system over the area under analysis.*

# ations obtainable with effortless procedures

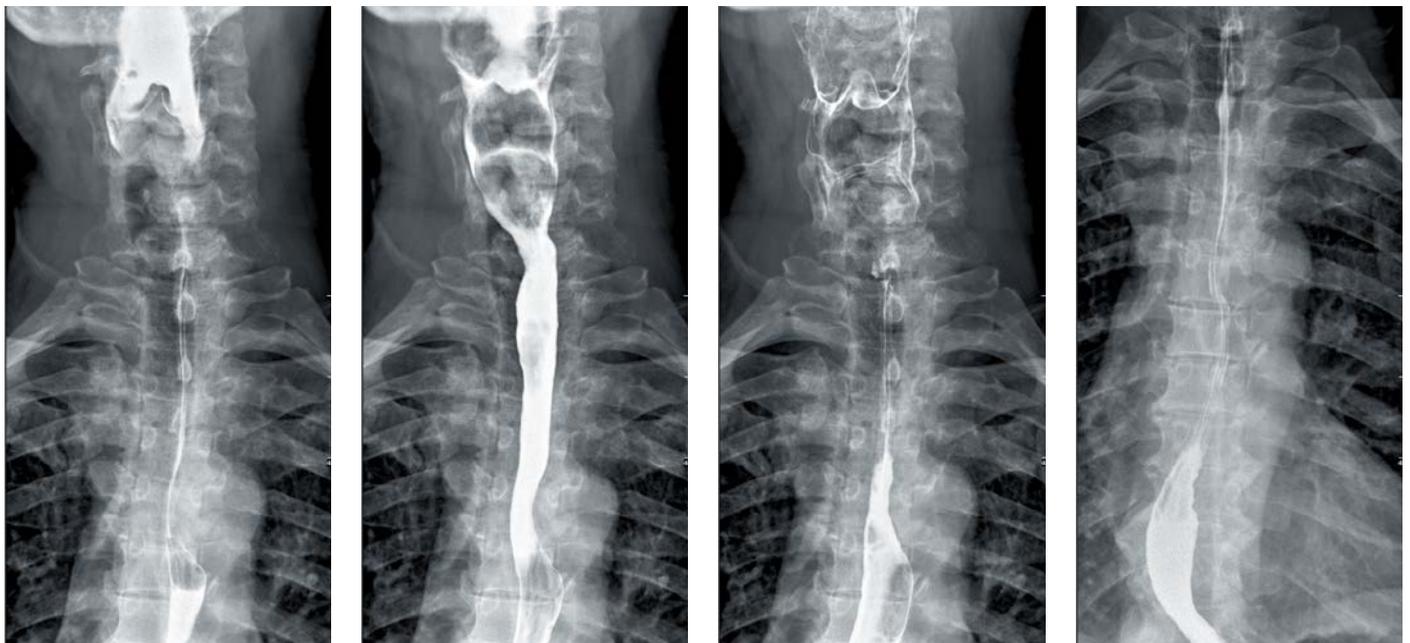
## High speed esophagus study

### Lateral analysis



*Lateral analysis: dynamic examination of the superior part of the digestive system is performed while the patients swallows a contrast agent.*

### Frontal analysis



*Frontal analysis: the previous lateral analysis is typically integrated with the same examination in frontal view.*

**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.

Distributed by:

**DEL MEDICAL**  
A UMG COMPANY

Toll Free: (800) 800-6006  
Fax: (847) 288-7011  
Email: info@delmedical.com  
www.delmedical.com  
241 Covington Drive, Bloomingdale, IL 60108

*Del Medical is an Authorized Distributor for Villa Sistemi Medicali Spa*

**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

### 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.

Products are continuously under review in the light of technical advancement; the actual specifications may therefore be subject to improvement or modification without notice. Some features and/or accessories displayed and described could be optional on different markets. X-ray images published in the present document are shown exclusively for demo purposes, are representative of the possible applications and might have been taken using other systems. All rights reserved - Printed in Italy - 11/13



**Villa Radiology Systems**  
91 Willenbrock Rd. B-1  
Oxford, CT 06478  
Tel. +1 203 262 8836  
www.villaus.com

