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IMAGING

# ArmonicUs

DR U-Arm system



# ArmonicUs

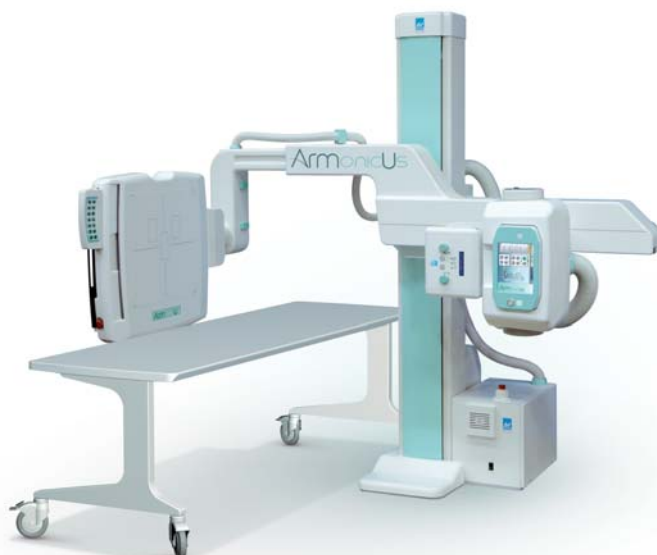
ArmonicUs represents the new *U-arm solution* by Villa Sistemi Medicali: a **modern and efficient** system integrating all our knowledge on **Digital Radiography products** and providing the **effectiveness of DR for all facilities**. Featuring a totally **new positioning stand** and a state-of-the-art **43x43 cm Amorphous Silicon Flat Panel Detector** with Caesium Iodide Scintillator, ArmonicUs offers the possibility to be **customized in all its principal parts**, with a complete offer of generators, collimators and X-ray tubes from our wide components portfolio.

As long as **user-friendliness and patient safety** are our top priorities, ArmonicUs features a **simplified user interface** based on a **8" Touch Screen** with multi-functional activation button, while an advanced **AEC system** grants the delivery of an appropriate dose to any patient.

ArmonicUs operates with either **1 or 2 grids** and, even for applications where they are not required, they can be **safely and comfortably stored** on the dedicated stations close to the bucky, being **always ready for the next use**.

ArmonicUs can be easily **installed even in narrow spaces** and its hardware doesn't need any extra room thanks to the **compact control cabinet**, yet can be integrated with a choice of **mobile tables**, standard or elevating.

- Compact and flexible U-arm design for extended use, including general radiographic, emergency and orthopedic studies.
- Configurable with either manual or automatic collimator, for complete system customization.
- Wide choice of X-ray tubes (normal or hi-speed) and generators (from 50 kW to 80 kW) for compliance with any diagnostic need.
- Touch Screen control panel and infrared remote control, standard on all versions, for ultimate "hi-tech" look and feel.
- Simplified User-Interface, with multifunctional "A" push-button, for immediate operator's learning.
- Complete range of pre-programmable system's positions, for maximized patient's throughput.
- Operating with either 1 or 2 grids, with dedicated grid parking, for appropriate image definition and unsurpassed user's comfort.
- Complete range of projections allowed, including cross-table lateral exams, for maximum application coverage.







# ArmonicUs The c



## The opportunity: switching from film to digital

### ArmonicUs: the solution.

In a medical world constantly oriented to digitalization, ArmonicUs represents the effective solution to switch to digital instantly and effortlessly. Thanks to its totally integrated Flat Panel Detector, operators can enjoy the enhanced productivity assured by digitalization, with images available few seconds after exposures for immediate evaluation and processing.

## The issue: relying on a moderate budget

### ArmonicUs: the solution.

Specifically developed as an all-in-one concept, ArmonicUs covers virtually all the applications of a modern radiological room, yet limiting the financial investment to a single, cost-effective piece of equipment. Additionally, the unit allows to immediately save film handling cost and storage space, and it's specifically engineered to limit its maintenance cost to the minimum.

## The concern: limited space for installation

### ArmonicUs: the solution.

The structure of ArmonicUs includes the X-ray source, the digital detector and the compact control cabinet, all integrated into a single, compact design. Moreover, the short height of the column, the telescopic arm supporting the digital bucky, as well as the limited footprint of the entire U-arm stand, make possible the installation even in the narrowest rooms.



# complete U-Arm solution



## The commitment: hosting any possible patient

### ArmonicUs: the solution.

ArmonicUs is a flexible system ready to operate on virtually any possible patient; its use is not limited even with pediatric or bariatric subjects and patients on wheelchairs can be easily positioned as well. Additionally, the system can be integrated with a complete range of mobile tables, floating and elevating, even battery powered.

## The need: covering all examinations

### ArmonicUs: the solution.

Thanks to the versatility of its mechanics, the Source-to-Image-Distance (SID) on the ArmonicUs can be adjusted from 100 cm to 180 cm (40" to 72") and assures flexibility for the entire range of general radiographic exams, from extremities to chest studies, from pediatric to orthopedic exams, with patients either standing, or seated, or laying on table.

## The challenge: maximizing the patient's throughput

### ArmonicUs: the solution.

On ArmonicUs, X-ray tube and detector remain constantly aligned, thus reducing the exam set-up time. The operator's workflow is also improved by the user interface with Touch Screen control as well as by the secondary keyboard close to the bucky. For these reasons, ArmonicUs is an ideal solution for high volume applications where an highly efficient throughput is a must.



## Always under control

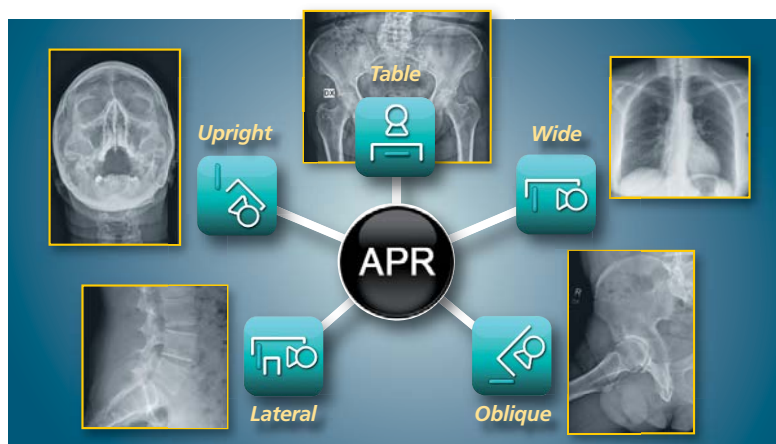
Core of the ArmonicUs user interface is the 8" Touch Screen display, standard on all versions, associated with the peculiar "A" multi-functional pushbutton, for immediate and safe operability by any user; additionally, to assure appropriate control of the system when the operator is close to the bucky area, a secondary key-board is placed right over there.

Finally, should the application environment require further freedom for the operator, the movements of ArmonicUs can be controlled also with the standard infrared remote control, where also the most important preset operating positions can be recalled.



## Ready for your next patient

The flexibility of ArmonicUs allows an easy positioning of any patient, virtually in any condition; the system can be operated manually, yet can rely on a complete configuration of preset positions, efficiently organized in functional areas (Wide, Table, Lateral, Upright, Oblique) through the APR functions. Additionally, in case the workstation controlling ArmonicUs is configured in a Dicom network, the advanced communication protocol allows a totally automated setting of the machine simply using the RIS procedure codes, leaving to the operator any other activity than pressing the multifunctional button to activate the movements.



## Everything you need, everything in its place

To assure optimal image definition during any application, ArmonicUs can operate with either one grid ( $f=140\text{cm}$ ) or two grids ( $f=120$ ,  $f=180$ ), obviously leaving the possibility to operate without any grid in the X-ray field in case of need. Clearly, knowing the importance of operating in an environment always tidy and well organized, ArmonicUs is properly equipped with a dedicated on-board double parking station; here two grids can be stored at the same time, allowing an effective management of the grids according to the examination to be performed.



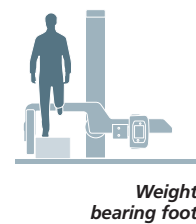
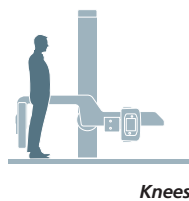
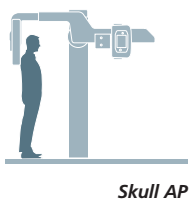
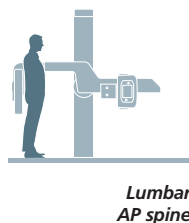
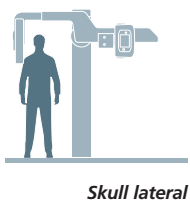
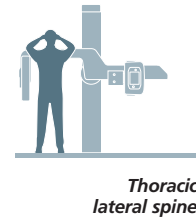
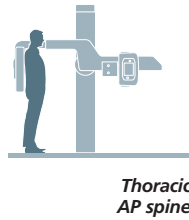
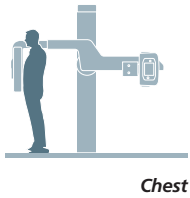
## The latest technology at your service

ArmonicUs integrates the most advanced technologies in terms of safety, ease of operation and image quality. The location of the positioner is always controlled by proximity sensors all over the key areas of the machine; this limits any risk of collision with the surrounding environment, for ultimate safety of patients and operators. Additionally, the new collimator features positioning references using a LED source instead of the traditional halogen lamp, thus improving visibility and reducing power consumption. Finally, image acquisition and processing is based on our new VDX 4343TS digital system, employing a 43x43 cm Amorphous Silicon Flat Panel Detector with Caesium Iodide Scintillator, recognized as state-of-the-art in digital X-ray capture technology.

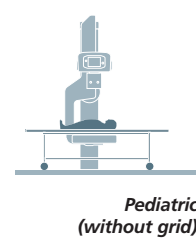
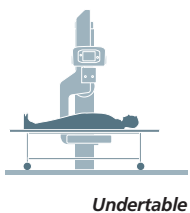




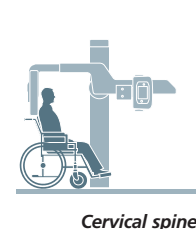
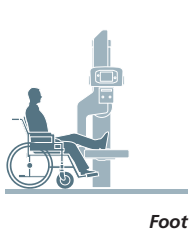
## Applications on standing patients



## Applications on patients on mobile table



## Applications on patients with special needs



**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.