

# *vdX* next SYSTEM ADD-ON

Portable DR flat panels & Software



radiology ahead

# next step to digitalization

## VDX Next System Add-on

As part of the VDX Next Systems family, Villa presents the advanced **VDX Next System Add-on retrofit kit**, which simplifies the transition to DR technology in any existing analog or CR radiology system, ensuring fast and efficient conversion. This new package, which integrates a workstation, flat screen detectors, and advanced software, is designed to equip healthcare facilities with **an ideal set of tools to increase workflow and diagnostic accuracy**, while offering a cost-effective solution to upgrade equipment with a strong return on investment.



### Bridging the gap: from analog to digital

VDX Next System Add-on provides the use of the latest flat panel detectors with a-Si TFT (in two sizes: **35x43 cm and 43x43 cm**), featuring a durable design and easy portability, allowing for an easy and quick workflow.

Moreover, the optional **Bluetooth® DAP kit** allows dose measurement and wireless data transmission of the radiography to the imaging workstation without any connection with the x-ray generator. It simplifies the monitoring and collection of radiation exposure data, improving the efficiency of health professionals in managing patient radiation doses. This feature also allows the creation of **DICOM RDSR** ensuring compliance with the latest dose reporting requirements.

Instead, when the VDX Next System Add-on is used with Villa analog equipment featuring the G100C generator and DAP meter, it can be interfaced directly, eliminating the need for a separate DAP device. This integration **simplifies the radiological workflow** and optimizes resource utilization.



# digital quality

## The advantages of digital transformation

This digital technology significantly enhances image quality, delivering **crystal-clear diagnostic images** that empower medical professionals with greater accuracy.

The improved image quality not only streamlines the imaging process, significantly reducing the time needed to achieve optimal results, but also notably **reduces the dose delivered to the patient**, enabling better patient care. In addition, the transition to digital technology ensures efficient management of patient records, helping to improve the entire diagnostic process.



## Increased productivity

Thanks to the powerful digital acquisition system, the images are displayed on the monitor within a few seconds after the exposure, ready for a complete assessment. This drastically reduces overall examination time and ensures the system is instantly prepared for the next patient, significantly **boosting the efficiency of the X-ray room**.

In addition, full DICOM functions give the digital system optimum PACS/RIS/HIS integration, enabling information to be shared rapidly.

## Unique solution for different needs

Its lightweight design ensures the VDX Next System flat panel's mobility, enabling it to transition effortlessly from the chest stand to the table or even for use outside the bucky room, facilitating lateral projections and direct contact with the detector. The result is **a comprehensive set of radiographic procedures**, matching the performance of expensive DR systems equipped with two fixed sensors.



Image **without** Bone suppression



Image **with** Bone suppression



Image **without** Boost lines functions



Image **with** Boost lines functions

## VDX Next Software

At the core of the VDX Next System, the powerful software provides healthcare professionals with seamless digital radiography. This **user-friendly interface**, designed for **touch screens**, guides users through X-ray projections with ease. Anatomical programs automatically select exposure parameters, speeding up the system setting phase.

Post-acquisition, the software employs advanced algorithms to **enhance image details and harmonize the visibility of the anatomical structures**, delivering outstanding quality within seconds for immediate diagnosis. A full range of processing tools further enriches image content. VDX Next Software offers optional advanced applications and features to maximize diagnostic capabilities such as bone suppression and boost lines.

Using AI, **Bone Suppression** optimises the visualisation of soft tissue by removing bone components from AP/PA radiographic images of the chest, while **Boost Lines** facilitates the visualisation of tubes and catheters, enabling a quick comparison between the original and processed images.

VDX Next user-friendly interface allows for easy customization of imaging settings and rapid access to patient data, thus making this system **a powerful tool for radiologists and clinicians**, prioritizing diagnostic accuracy, efficiency, and patient care in the digital radiography environment. Finally, full DICOM functionalities integrate the digital system efficiently with hospital HIS/RIS and PACS systems, enhancing operational efficiency.



## *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.

### Villa Sistemi Medicali Spa

Via delle Azalee, 3  
20090 Buccinasco - Italy  
Tel. +39 02 48859.1  
Fax +39 02 4881.844  
vsminfo@villasm.com  
www.villasm.com

