



chronos

Innovative R/F system



radiology ahead

versatility, precision, and innovation

Chronos is Villa's innovative digital R/F system, designed to redefine diagnostic imaging. It seamlessly integrates high-quality digital fluoroscopy with superior radiographic performance, ensuring exceptional imaging accuracy and workflow efficiency.

With *intelligent automation*, a *compact design* and *AI-powered features*, Chronos enhances the diagnostic process, optimizing both patient care and operator convenience. Available in two versions, with *2-way or 4-way tabletop*, with the exclusive geometry that allows the tube-detector group to move beyond the tabletop, making it possible to perform examinations with *Anatomy on Image Receptor modality* (AIR mode).



reddot winner 2026

Chronos has been recognized with the prestigious Red Dot Award, one of the world's most renowned distinctions in product design. This achievement confirms the strength of a project that combines engineering excellence, ergonomics, functionality and innovation, with a clear focus on the needs of users and patients.

*superior performance
& operational flexibility*



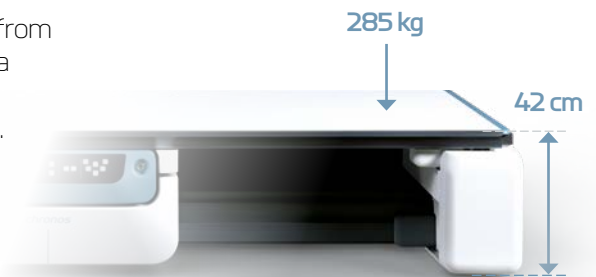


smart design & operational efficiency

Chronos features a compact design with an **integrated digital and electronic system**, reducing installation complexity while maximizing space efficiency. Unlike traditional R/F systems, where components are housed in separate cabinets, all hardware, electronics, and digital processing units are **fully integrated** within the Chronos structure. This streamlined architecture enhances reliability and simplifies installation, saving both space and setup time.

The system's **isocentric tilting movement** further optimizes its operational footprint, making it an ideal solution for environments with restricted space. Its remote-controlled table ensures precise, smooth movements for effortless patient positioning and enhanced operational speed. Additionally, its ergonomic design allows **maximum accessibility around the examination table**, improving both patient comfort and operator efficiency.

The Chronos features an extensive height range, from **42 cm to 124 cm** from the floor, and supports a load capacity of **up to 285 kg** without movement restrictions, making it suitable for all patient profiles. This remarkable system versatility ensures easy access for pediatric, bariatric, geriatric, and mobility-impaired patients, enhancing safety, comfort, and workflow efficiency.



ergonomics & functionality

*Easy patient displacement
from stretcher for operators*



*Smooth height adjustment
and $\pm 90^\circ$ bi-directional tilting
ensuring maximum flexibility*



flexible diagnostic capabilities

Chronos offers an exceptional wide range of applications for conventional medical imaging. In its fully featured configuration Chronos extend its versatility with the ***exclusive AIR (Anatomy on Image Receptor) mode***, which is the ability of the X-ray tube and detector group moving beyond the tabletop allowing a ***complete range of direct examinations*** while making it suitable for trauma patients on stretchers.

Furthermore, advanced imaging capabilities—such as ***digital tomosynthesis*** and ***automatic stitching***—enable precise image reconstruction for spine assessments, scoliosis evaluations, and long bone studies, further expanding its diagnostic potential.



The new AIR mode facilitates emergency examinations for patients on stretchers

*high diagnostic
versatility*

The exclusive AIR (Anatomy on Image Receptor) mode allows effortless access for wheelchair-bound patient



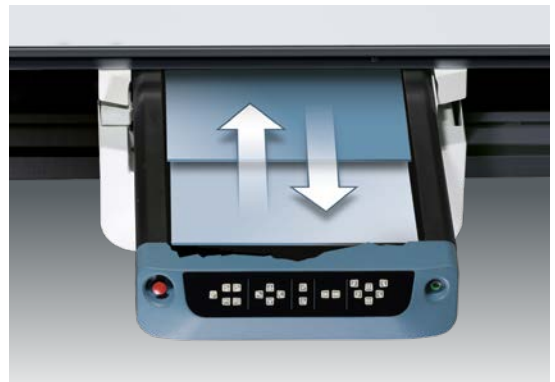
Fully automatic stitching function with the patient in either standing or supine position



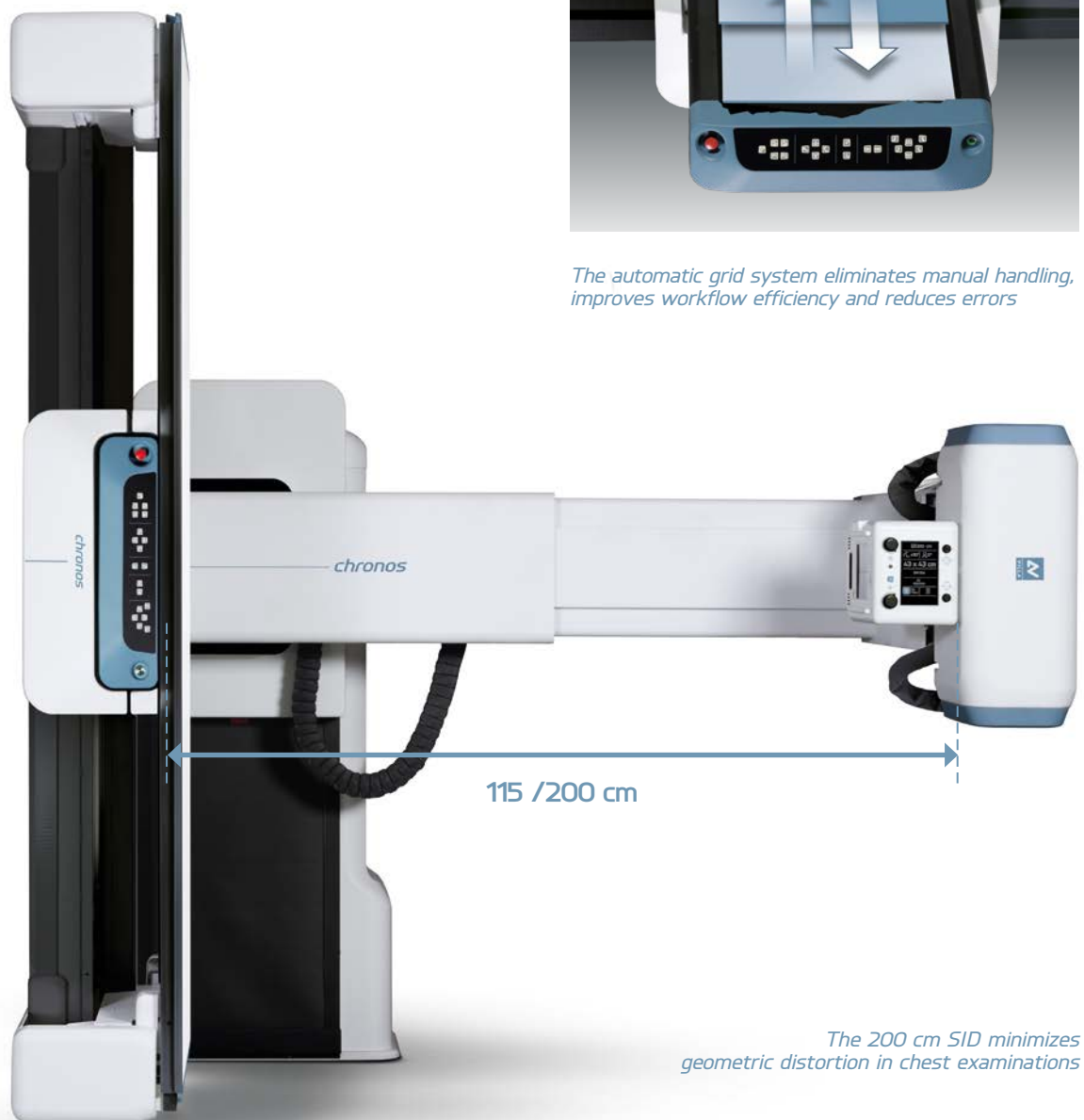
advanced imaging technology

Chronos is designed to deliver **exceptional image quality** across a wide range of diagnostic procedures. Its adjustable Source-to-Image Distance (SID), extending from **115 cm** to **200 cm**, offers the flexibility required for various clinical applications and guarantees optimal imaging geometry. For chest imaging in particular, the system **minimizes the skin-to-detector distance** to just 37 mm by enabling patient positioning directly to the detector support; resulting in sharper images, reduced distortion, and enhanced dose efficiency.

Additionally, the multi-grid system features **automatic insertion and parking** of dual anti-scatter grids, based on the examination type, enhancing image clarity and precision while reducing scatter radiation.



The automatic grid system eliminates manual handling, improves workflow efficiency and reduces errors



The 200 cm SID minimizes geometric distortion in chest examinations

redefining digital imaging



*The exclusive AIR mode allows
performing exams with Anatomy
on Image Receptor*



*Upper limb off-center
exposure in AIR mode*

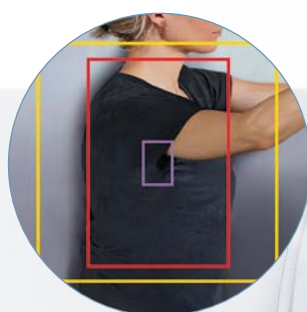
AI-powered smart features

Chronos can be equipped with an *integrated 3D camera powered by AI**, that automatically recognizes patient orientation, position, body type and anatomical districts with respect to the detector. This advanced AI-driven technology supports the operator during patient positioning and enhances workflow efficiency by *minimizing manual adjustments* and reducing the need for patient repositioning.

The *intuitive touchscreen collimator*, featuring joystick for centering control, enables precise adjustments and effortless operation. Additionally, smart automatic positioning simplifies examinations, allowing healthcare professionals to focus on diagnosis rather than setup. This intelligent system streamlines every step of the examination process, bringing unmatched *automation and accuracy* to radiographic and fluoroscopic imaging.



The AI displays geometric references in real time, useful for fast and precise patient positioning



* Available soon

a wide range of applications



Gastrointestinal



Ortho Classic



Digital Subtraction Angiography



Ortho AIR



Long Segments



Contrast media



Pediatric



Tomosynthesis

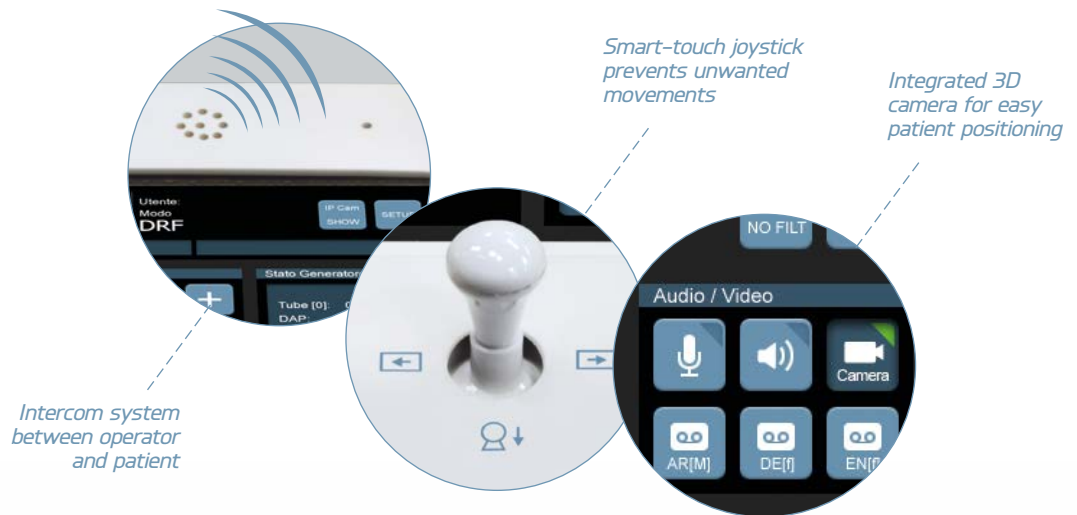
The images used by way of example have been graphically adapted to represent some possible applications

*enhanced.
diagnostic imaging*

user-friendly interface & seamless connectivity

Chronos features a **12" touchscreen console** that provides centralized system control with intuitive navigation. Its DICOM integration ensures **fast and efficient connectivity** with HIS, RIS, and PACS for streamlined data management, retrieval and storage.

Additionally, the system includes an **intercom and an integrated camera** for real-time patient visualization and positioning assistance. These features enhance workflow efficiency and contribute to superior patient care.





VILLA

Joystick for controlling
tube-detector alignment
and tabletop positioning

The touch screen
interface displays key
exam parameters

Joystick for elevating
tabletop and tube
inclination

Knobs for collimator
manual adjustment

chronos

simplicity
& productivity

safety & dose optimization

The system prioritizes patient safety with **advanced radiation dose management**, including an integrated AEC chamber and additional X-ray filtration, which significantly reduces radiation exposure without compromising image quality. Smart collimation, along with real-time Dose Area Product (DAP) monitoring, ensures precise radiation control, optimizing both **safety and diagnostic accuracy**.

Additionally, built-in safety mechanisms, such as smart-touch joysticks, prevent unintended movements, ensuring a **secure and controlled operating environment**. These features work together to protect both patients and operators, enhancing overall procedural safety and workflow efficiency.





Thanks to the exclusive AIR mode, Chronos allows coverage of the critical applications of an emergency room



In the 4-way tabletop version, Chronos performs an exceptional longitudinal patient coverage

*safety &
patient care*

options and accessories

Chronos can be equipped with a **wide range of accessories** for patient positioning and for special procedures, such as shoulder support, compression band, lateral cassette holder, patient footrest, handles and legs support.

Additionally, a variety of operational enhancements are available to suit advanced clinical needs: these include **full DICOM compatibility** and **SSD additional storage**, to expand the archive capacity.

The **software packages** such as Stitching, for full-leg and full-spine imaging, Orthopedic Measurement, Digital Subtraction Angiography, and Tomosynthesis significantly expand the diagnostic capabilities, while the possibility of integrating a second Wi-Fi detector can further expand the Chronos flexibility.

Finally, a **wide range of console monitors**, and in-room monitors on trolley with dual-screen options for reference and comparison, ensures optimal image review and workflow flexibility, even in interventional operations.

The table-side keyboard is backlit, improving visibility and usability





Chest examination at 200cm SID in AIR mode



*efficiency &
convenience*

Chronos can be equipped with a multi-functional in room workstation on trolley

chronos: a time-proof R/F system

Chronos is more than just an imaging system, it's a comprehensive solution that embodies **precision**, **flexibility**, and **innovation**. By seamlessly integrating advanced technology with intelligent automation and ergonomic design, Chronos empowers healthcare professionals to deliver **faster exams** and **more accurate diagnoses**.

With its adaptable configurations and future-ready features, Chronos sets a new standard in digital R/F imaging, **redefining expectations** for diagnostic excellence and patient care.

*innovation
& reliability*







radiology ahead

Competence in x-ray systems

Villa Sistemi Medicali is one of the most important manufacturers of radiological systems worldwide. Leveraging more than 60 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.

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