

SIEMENS

Ysio

The most direct way to the image.
Driven by FAST.

www.siemens.com/ysio



Answers for life.



Ysio – the most direct way to the image. Driven by FAST.

Speed and throughput are key factors in today's X-ray departments. Which is why it's important that your equipment supports you in working as quickly and efficiently as possible.

Unique simultaneous FAST movement in 6 axes

Providing the most direct way to the image, Ysio's unique system positioning FAST features a Free Axis Simultaneous Travel for a parallel movement in 6 axes, ensuring that the system always moves directly to its destination for faster, shorter, safer and more accurate positioning.

Maximized comfort at your fingertips with MaxTouch

Intuitive and convenient, MaxTouch gives you the control you need for best-in-class usability with maximized comfort at your fingertips. All key image parameters, including – uniquely – the order of examinations, can be changed directly from the tube for greater usability and improved efficiency.

Outstanding images enhanced by DiamondView Plus

Ysio delivers directly outstanding image quality, enhanced by DiamondView Plus combined with advanced organ-program-linked post-processing for faster, more confident diagnosis.

Ysio. The most direct way to the image. Driven by FAST.



“*It’s all about speed.*”

At Siemens, we understand that the biggest challenge facing radiography departments is optimizing workflow and maximizing patient throughput. Which is why we designed Ysio with these requirements in mind, identifying the small things that would make a big difference to the way technicians work and to the number of patients they could handle.

With Ysio, we’re delivering new levels of intelligent automation and integration to help you deliver excellent images with less effort and greater efficiency.”

*Thorsten Maisel, Research & Development,
Siemens AG, Healthcare Sector, Germany*



The most direct way to the image. Driven by FAST.

Automated tracking

Tube automatically tracks detector movements for quick, convenient tube positioning.

wi-D

Fully digital flat detector technology can be used for flexible and versatile imaging in table, Bucky wall stand (BWS) and for free examinations.

Universal grid*

Can be used for different SIDs saving time and optimizing workflow.

Automatic Ortho*

For long leg and whole spine with tilting technique. Up to 4 single images are acquired to cover selected region including automatic composing for faster and easier Ortho imaging.

SmartMove**

One touch and the system finds the most direct and fastest possible route to the required position for greater convenience and consistency.

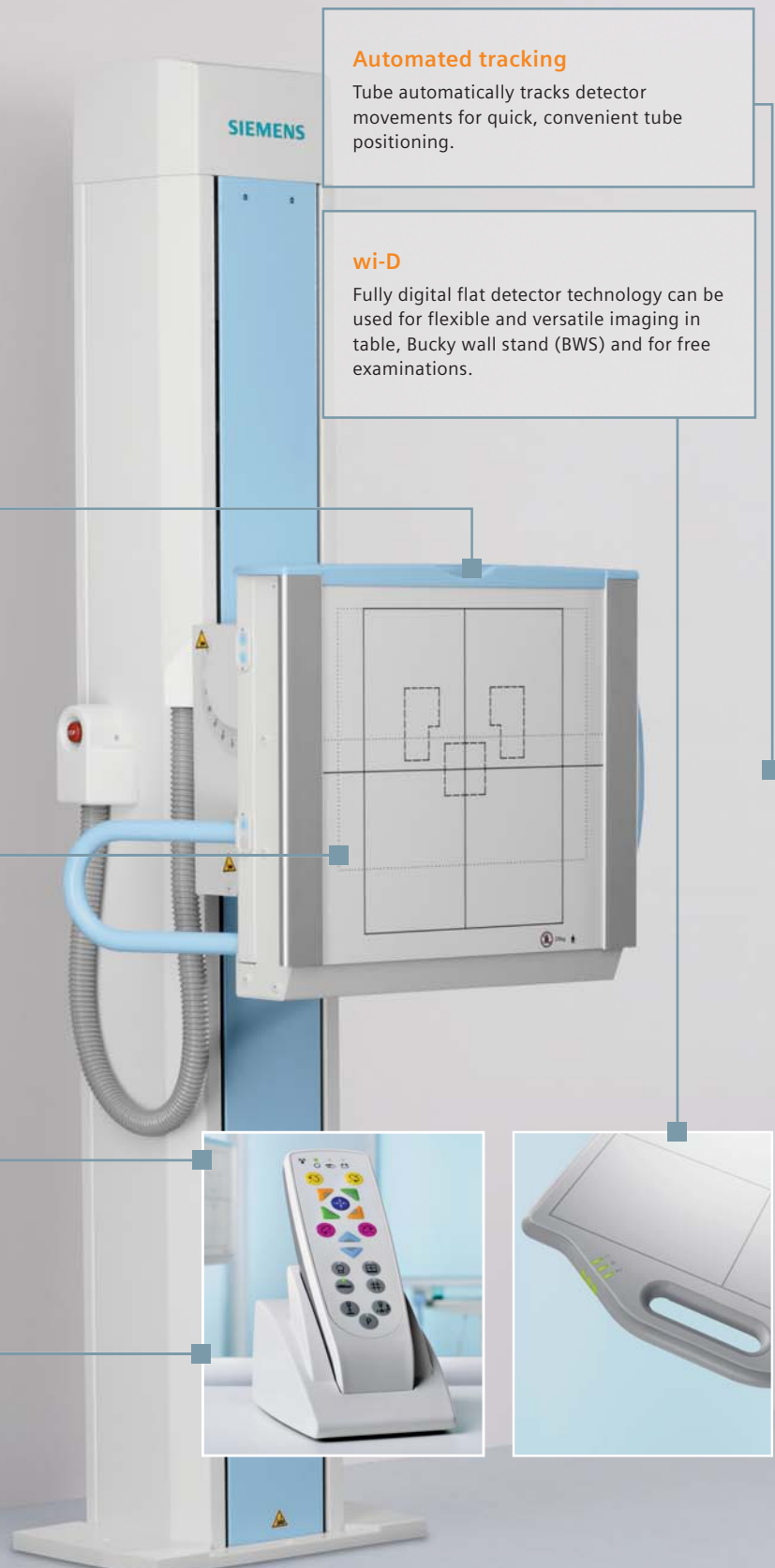
SmartTouch**

Touch-sensitive wireless remote control that allows system movements from anywhere in the room, but only when operated by a human hand to prevent unwanted movement.

* Option

** For fully automated Ysio

*** Standard for fully automated Ysio,
option for fully synchronized Ysio



Excellence in automation

Fully automated Ysio: Highest degree of automation including automated system positioning with one touch of a button. Fully synchronized Ysio: High degree of automation with advanced features like synchronized movements of tube and detector.

Unique simultaneous FAST movement in 6 axes**

FAST – Siemens unique **F**ree **A**xis **S**imultaneous **T**ravel allows movement in 6 axes at the same time.

MaxTouch

Large, intuitive color touchscreen for quick and efficient program changes directly from the tube.

Servo assistance**

Power-assisted servo movement for easier manual tube positioning with minimal physical effort.

Tabletop recognition***

The system tracks the exact position of the tabletop for safer and faster tube movements.

DiamondView Plus

Reduces image noise and improves image contrast giving directly higher detail resolution.



Centering button**

Automatically centers the tube over the detector for easy positioning.



AIM + FAST =
SmartMove

Unique simultaneous FAST movement in 6 axes

Ysio's high level of automation provides effortless efficiency and helps increase patient throughput. Now it takes intelligent integration a step further with **AIM** and **FAST**.

Take the smart route – take AIM

Designed to calculate the shortest, fastest and safest path from one position to the next, Ysio's unique **Artificial Intelligence Mapping*** (AIM) ensures that the system is positioned safely and quickly – regardless of its starting position or final destination.

Move precisely and directly – move FAST

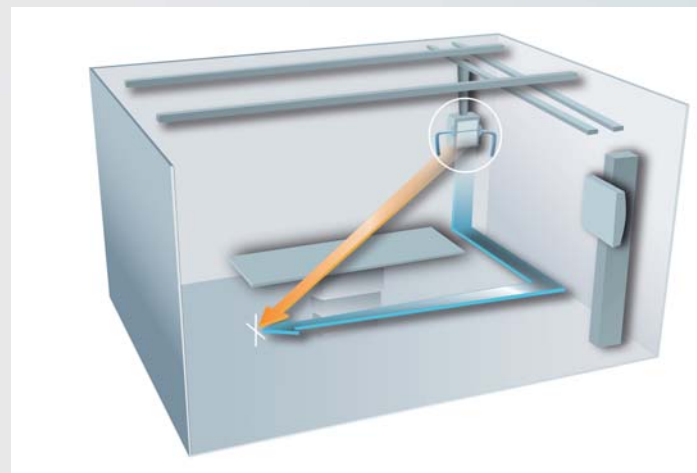
Once AIM has calculated the optimum route, **FAST*** (**Free Axis Simultaneous Travel**), moves the system accordingly using movement in 6 axes at the same time for fast, efficient positioning. The system tracks table movements and the height of the Bucky wall stand automatically, positioning the tube accordingly.

Get more consistent – be SMART

Just one touch on the SmartMove button is all it takes to move quickly and directly to the position you need. Over 1,000 positional settings, covering virtually all your needs, can be pre-programmed helping you reach new levels of consistency in every exam.

“Since the installation of the Ysio system we have entered another dimension of speed and efficiency in DR.”

Gunes Sar, Manager of the Departments of Radiology, Vascular & Nuclear Medicine, Zaans Medical Center, Zaandam, Netherlands¹



SmartMove

One touch and the system moves directly where you need it.

— Conventional movement
— AIM and FAST movement

* For fully automated Ysio

Our aim – Helping you be fast

Created to make your workflow more efficient, every aspect of Ysio has been carefully thought out for faster, simpler, better radiography.

Be in the right place at the right time

For quick tube positioning with minimal effort, Ysio's automated tracking feature tracks the position of the detector and automatically moves the tube to maintain the correct position, SID and tube rotation.

Make light work of manual positioning

When manual movement is needed, power-assisted servo movement* helps to further reduce the strain of heavy workloads, speeding up workflow and cutting time from each examination to provide higher patient throughput.

Make short work of long images

Making long images – such as long leg and spine – faster and easier, automatic Ortho** acquires up to four images to cover the selected region. Ysio automatically determines the number of required exposures and composes to a single image.

Excellence in automatic Ortho



Long leg imaging

Whole spine imaging



Ortho composing makes light work of long images. Automatically determining the number of required exposures, as well as composing the final image.



Maximized comfort at your fingertips with MaxTouch

Giving you complete control directly where you need it, the intuitive MaxTouch color touchscreen display provides all the information you need. And, because all patients and situations are different, MaxTouch uniquely lets you change the examination order from the tube, as well as all key image parameters. All, without ever having to leave the patient.

Say goodbye to duplication of effort

Ysio features an outstanding degree of integration that lets all its components communicate with each other.

So when you make a change via MaxTouch, the information is instantly transmitted to all the other components in the system, which automatically make the adjustments to their own settings where necessary. You only have to make a change once and the system does the rest.



Control at your fingertips

With MaxTouch, you can make all changes you need directly at the tube without leaving the patient.

“We appreciate the ability to change menus and alter exposure directly from the tube head. It cuts down on walking back and forth.”

Susie Dick, Department of Radiography,
York Hospitals, York, United Kingdom¹





Device Position

Tape Measure

81

kV

mAs

2.5

Dose

0

mm Cu

0

mm Cu

Miller, John

T-Abdomen-Supine

33.0 cm

Maximized comfort at the table

Designed with the most demanding routines in mind, Ysio's free-floating table has a weight capacity of up to 300 kg / 660 lbs and a great patient coverage of up to 190 cm / 75" enabling even large patients to be examined from head to toe without repositioning. Plus, the table height can be adjusted making it easy for patient positioning, even those in wheelchairs, while offering a convenient and comfortable working height for the radiographer, too.

Safety fast

Thanks to its seamless integration, Ysio's smart tabletop recognition* tracks the exact position of the tabletop allowing the system to move at the optimum speed at the same time as increasing safety.





Ysio's free floating table provides ease of use and access for almost all patients.



Table specifications:

Weight capacity: 300 kg / 660 lbs

Height adjustment:

52 cm – 95 cm / 21" – 37"



Flexible and fast, wi-D gives you complete imaging freedom everywhere in the X-ray room.

Maximized comfort and versatility with wi-D

Highly flexible and versatile, especially for immobile patients, Ysio's wireless detector (wi-D™) lets you bring the imaging source right to the patient giving you complete imaging freedom. With over 7 million pixels – one of the highest of its kind – and pixel pitch of 144 µm, the 35 cm x 43 cm / 14" x 17" detector delivers excellent high-resolution images. The wi-D combines the best of both worlds: flexible detector positioning with all the advantages of digital imaging.

Experience complete flexibility

The wi-D can be used in table, Bucky wall stand and for virtually all free examinations. Plus, for complete flexibility, the wi-D can be used across multiple rooms in different products, such as Luminos Agile, Luminos dRF, the new Luminos dRF or Mobilett Mira.

Excellent coverage

In addition to the wi-D, Ysio can also be configured with an integrated flat detector letting you conduct virtually every type of examination. Its 43 cm x 43 cm / 17" x 17" flat detector gives you the coverage you need and, thanks to digital processing, you can view the images in seconds.

One grid, broad working range

Saving time and effort, Ysio's new universal grid is optimized for a broad working range without compromising image quality, reducing the need to keep changing grids. Additional optimized grids are available for specific SIDs.



Innovative and automatic charging

The wi-D recharges whenever it's inserted into the tray so it's always ready for use.

Outstanding images enhanced by DiamondView Plus

Ysio's innovative image enhancement features help you see more detail to give you greater confidence with your diagnosis.

DiamondView Plus

With its advanced digital technology, Ysio provides outstanding image quality. And, thanks to DiamondView Plus, noise is reduced and contrast improved for greater resolution and more detailed images.

syngo FLC

Proven in over 7,500 installations, syngo FLC is a fully digital, one-stop system that brings together the entire radiography workflow including registration, examination, post-processing and documentation. Intuitive and easy to learn, the syngo user interface is common to all Siemens systems.

“The images that we get from the Ysio are far superior to any other radiography system we have!”

*Darla Sanders, RT, Lead Radiology Technologist,
Kaiser Permanente Roseville Clinic, Roseville, USA**



Without DiamondView Plus



With DiamondView Plus



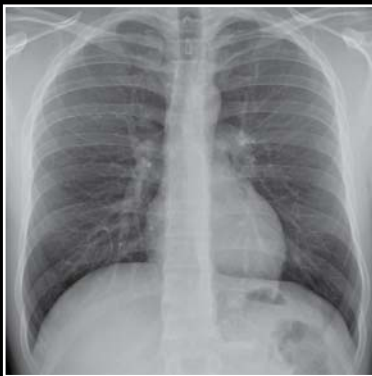
Unlock the unseen diagnostic potential in chest

ClearRead Bone Suppression™

ClearRead Bone Suppression* from Riverain suppresses bone structure on the digital image to enhance the clarity of chest X-rays without the need for two exposures. The result is a clearer, unobstructed view of soft tissue that improves nodule detection without the need for additional patient dose.^{1,2}

ClearRead +Detect™

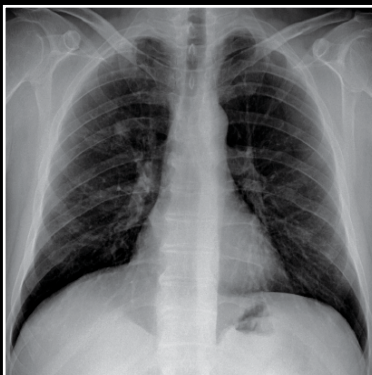
ClearRead +Detect* from Riverain helps you identify potential lesions that could be early-stage lung cancer. Thanks to its advanced algorithm, its superior marking capabilities provide a 50% relative improvement in image sensitivity³ and 75% reduction in false positives in comparison to prior version², helping you detect more lung cancers than standard chest X-rays alone.



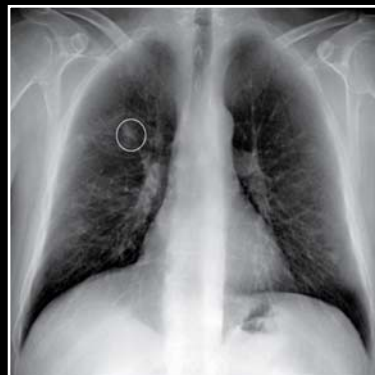
Digital chest X-ray



ClearRead Bone Suppression



Digital chest X-ray



ClearRead Bone Suppression +Detect

* Option

Invest in tomorrow's technology today

Ysio represents an outstanding investment – for today and for tomorrow. Its high levels of automation and unique features bring effortless operability to help staff work faster, more efficiently, and with less physical stress. Whether you choose fully automated or fully synchronized, Ysio is flexibly configurable, letting you expand the functionality of the system with additional clinical applications such as automatic Ortho or tomography* as and when you need them.

Closer by design

Closer to technology and closer to you, Siemens Healthcare Customer Services delivers extensive experience combined with innovative solutions to help protect and optimize your investment in Ysio over the entire product lifecycle; services that help improve uptime, increase performance and optimize workflow for sustainable healthcare, while ensuring that your staff is trained to deliver excellent quality results.

Service tailored for you

Helping you prevent unscheduled downtime and improve workflow, Siemens comprehensive service options can be tailored to your precise requirements. From preventive maintenance to technical phone support, system updates and fast on-site response, our proven Performance Plans** are designed to help improve reliability while ensuring predictable costs, lower risk and greater efficiency.

The problem's solved. Before you know it!

An efficient and comprehensive infrastructure offering device-related remote services, with Siemens Remote Services your system is monitored for parameter deviations so that remedial action can be taken proactively before problems arise. Plus, remote diagnosis allows defective parts to be identified and ordered, avoiding downtime and keeping repair times to a minimum.

“Our workflow has improved with a factor of three, and throughput has also increased. Quick diagnostics for the patient, higher throughput, better workflows, and ease of use for radiographic technologists are benefits that all imaging department managers can appreciate.”

Gunes Sar, Manager of the Departments of Radiology, Vascular & Nuclear Medicine, Zaans Medical Center, Zaandam, The Netherlands¹

* For fully automated Ysio

** Subject to the terms and conditions of the local service agreement



Experience why detail matters

Ysio was a success story just from the beginning. With over 1,250 systems already in use, Ysio's proven technology has been continually refined to help you work faster and with greater convenience. Attention has been paid to every detail; the use of low absorption tabletop material, for example, and keeping the distance between the work surface and detector as short as possible – all part of Ysio's advanced features to reduce patient dose.

Ysio's unique combination of AIM and FAST technologies take radiography automation to a new level, giving you the most direct way to the image. Plus innovative, time-saving features and ergonomics together with advanced image processing help you get higher quality images even faster to give you the diagnostic confidence you need - because detail matters.

**Ysio – the most direct way to the image.
Driven by FAST.**



Extremely flexible, versatile and efficient, Ysio gives you the ideal radiography solution.



On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice.

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Ysio is available in both single and dual detector version.

Please contact your local Siemens sales representative for the most current information.

In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources and waste conservation), we recycle certain components.

Using the same extensive quality assurance measures as for factory-new components, we guarantee the quality of these recycled components.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

For accessories, go to:
www.siemens.com/medical-accessories

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¹ The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

References:

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2. Macmahon, H. Use of Bone Suppression in Computer-Aided Detection for Chest Radiographs: Analysis of a new Scheme with High Sensitivity and Greatly Improved Specificity, RSNA Meeting presentation. November 2011
3. White CS, Flukinger T, Jeudy J, et al. Use of a computer-aided detection system to detect missed lung cancer at chest radiography. *Radiology*. 2009 Jul;252(1):273-81.