



# Ysio

## As individual as your routine

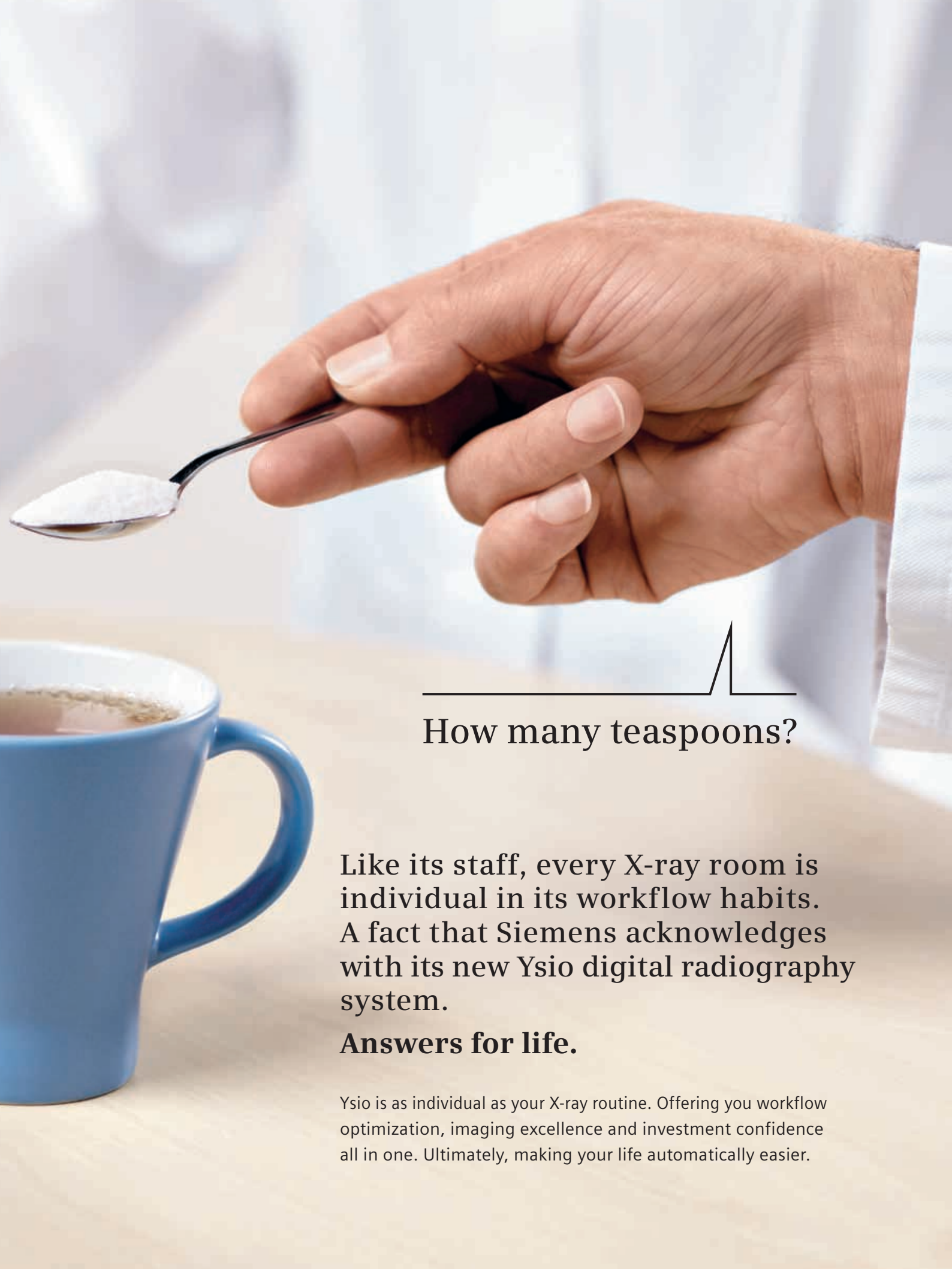
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**SIEMENS**



How are the Spanish lessons going?

How do you like your cooking class?



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How many teaspoons?

Like its staff, every X-ray room is individual in its workflow habits. A fact that Siemens acknowledges with its new Ysio digital radiography system.

**Answers for life.**

Ysio is as individual as your X-ray routine. Offering you workflow optimization, imaging excellence and investment confidence all in one. Ultimately, making your life automatically easier.



**Note:** The systems shown in this document represent a mix of standard and optional features. Optional features may not be present in all systems. Contact your Siemens sales representative for more details.

# Ysio

## Tailored to your needs

Radiography is the most routine form of medical imaging. Yet radiography departments vary greatly in their examination protocols, the patient profiles they handle and their budgetary resources.

Recognizing these differences, Siemens developed Ysio, a highly flexible digital radiography solution tailored to your specific X-ray needs – and expectations.

Whether for general, trauma, dedicated chest or other specialized imaging applications, for hospitals or private practices, and for budgets large or small, Ysio is available in a variety of combinations: as a wall stand with an integrated detector; a wall and table system with a wireless detector (wi-D); even as a mixed detector solution for high throughput and flexibility. An X-ray system that is flexibly tailored to your needs: that's Ysio.

Ysio offers you an X-ray solution as individual as your routine that combines:

- **Enhanced workflow:** fingertip convenience
- **Imaging excellence:** digital speed and flexibility
- **Investment confidence:** the future in hand



Can you really tell  
the machine what to do?



1  
kv

3.6  
mA

ms

Dose

0.1  
mm Cu

Extremity

SS off

134 cm

Manual

15.2 cm

40.0 cm



## In a way, yes.

As an interactive, color touch screen user interface, the MaxTouch of Ysio gives you easy access to key parameters during X-ray examinations.

The intuitive MaxTouch lets you enter into a dialog with the X-ray system – placing important control functions directly at your fingertips, including exposure parameters, exam protocols, detector selection, even dose control.

Now you no longer have to leave the room to reselect the detector workplace or change examination parameters. You save time and effort while speeding up exams – without compromising patient care. In fact, Ysio lets you focus even more of your attention on the patient.

## MaxTouch workflow – fingertip convenience:

- Large color touch screen with excellent display of patient data and key values
- Highly visible and recognizable icons for fast system operation and status identification
- Variable selection of examination order to suit user preference
- Ability to change detector workplace based on patient's condition
- Easy access to comprehensive range of exposure values for adjustment
- Precise measurements with brightly displayed SID (source-image distance) and magnification factor



# Designed to boost your performance

Ysio incorporates several workflow-enhancing features, including more than 500 preprogrammable system positions\*, power-assisted servo movements\* and a unique table design together with the wi-D.



When equipped with a black and white diagnostic monitor\*\*, Ysio further enhances your diagnostic capabilities

## Ergonomic table design

Built with convenience in mind, the table design of Ysio features:

- Detector tray for the wi-D offering improved flexibility and productivity
- Maximum weight capacity of up to 300 kg (660 lbs) for patients of practically all sizes
- Low table height (lower than 52 cm/21") for convenient patient positioning and easy wheelchair transfers onto the table

## Control console

Ysio is available with a high-resolution color monitor. It can also be combined with a black and white diagnostic monitor\*\* for enhanced assessment capabilities.

\* For fully automated Ysio only

\*\* Option



Fully automated Ysio enables flexible X-ray tube positioning according to user-defined positions



Another feature of the fully automated Ysio: automatic X-ray tube repositioning according to grid type



Detector handling flexibility on a single detector system with the wi-D



Ysio dual detector imaging solution with integrated table detector\* and wi-D for high volumes and positioning flexibility

# Fingertip convenience

With more than 500 different preset examination positions\*, Ysio saves you lots of preparation time and effort. Simply press the centering button\*, and the X-ray tube is automatically moved into position and ready to start the examination.

Ysio can be configured to bypass room fixtures during its automated travel to the imaging position. Thus, Ysio is also a tailored solution in terms of space planning. Power-assisted servo movements\* help to further reduce the strain of heavy workloads.



**Handheld control\*\***  
Wall stand and table movements are fully automated – and performed directly at the detector with the conveniently located handheld control



**Wireless remote control\***  
All key positioning functions of the fully automated Ysio can also be controlled from a distance with the help of the handy wireless remote control



**Centering button\***  
Push this "magic button" on the table, and the tube is automatically centered to the table detector for the next examination

\* Fully automated Ysio only

\*\* Standard for fully automated; optional for fully synchronized

Do I have to get up?






## There's no need.

Highly flexible and versatile, the wireless mobile detector (wi-D) of Ysio lets you bring the imaging source right to the patient.

The wi-D – the first of its kind – offers you complete imaging freedom everywhere in the X-ray room. Handling like a cassette, the wi-D combines the best of both worlds: flexible detector positioning with all of the advantages of digital imaging.

With its fully digital flat detector technology, Ysio delivers superb images with outstanding detail resolution to assist you in your diagnostic evaluations and therapeutic decisions – quickly and consistently.



## Streamlining your imaging with the wi-D:

- Fast image preview (within five seconds), without the need to change or process cassettes
- Quick and simple positioning for a wide variety of examinations
- Highly convenient and suitable for immobile patients in beds and wheelchairs
- Easily supports horizontal beam examinations
- Innovative wi-D charging mechanism in the table and wall stand detector trays
- Automatically orientates image correctly when used in table and wall stand
- Always close at hand to support you with your daily workload

## Digital speed and flexibility

In addition to the wi-D, Ysio also features a newly developed integrated flat detector. Highly versatile, Ysio lets you conduct virtually every type of examination without the need for supporting imaging systems.

### Instant high-resolution images

As a digital radiography solution, Ysio delivers high-resolution images within seconds of acquisition. In fact, images acquired with the wi-D can be previewed within 5 seconds.

### Excellent coverage

In terms of detector coverage, Ysio is more than adequately equipped with a:

- Large flat detector (43 cm x 43 cm)
- wi-D (35 cm x 43 cm) with the highest pixel count of any detector of its kind

### Polished pictures

With DiamondView Plus, the detail resolution of your images is given a final polish, and overall image quality is optimized.

### Advanced radiation protection

The comprehensive CARE radiation protection program of Ysio combines various advanced radiation protection functions designed to keep exposure levels as low as reasonably achievable (ALARA).



Image magnification is reduced through direct contact with the flexible wi-D, thereby improving image quality

Mommy, when  
can we go home?





How can we reduce  
the costs?

How can we reduce  
the examination time?

## That's easy – with Ysio

When it comes to savings, Ysio offers an answer – by helping you bring your clinical activities in line with your business expectations.

Granted, a digital flat detector system requires a higher initial investment than a CR-based system. However, by positively impacting your workflow, Ysio enables you to plan more confidently for the future.

# The future in hand

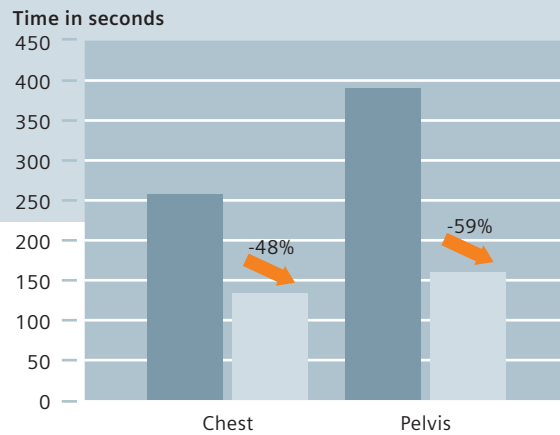
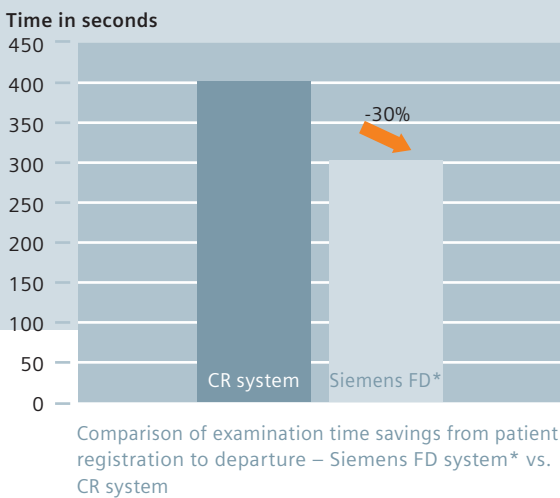
The digital flat detector (FD) technology of Ysio can offer numerous advantages over cassette- and CR-based systems – advantages with the potential to positively impact your bottom line. When considering the purchase of a new radiography system, it pays to compare several factors other than simply procurement costs, as this brief overview shows.

### Ysio adds value through:

- Fewer work steps
- Increased examination capacity and shorter throughput times
- Fewer examination rooms to handle same or greater imaging volume
- Possibility to reallocate staffing resources and reduce room space
- Overall cost savings for consumables, labor and fixed overheads
- Significant reduction of patient examination and waiting times
- Greater patient comfort
- Improved staff morale
- Substantial cost savings

### Faster across the examination spectrum

Consider the following efficiency study for 193 patients at the Children’s Hospital CHU de Nancy Brabois, France, where exams with a Siemens FD system were up to 30% faster on average than exams with a CR system.



# Minimizing work steps and costs

Although a seemingly high investment, an FD system such as Ysio can significantly streamline overall workflow and reduce costs. Consider the following advantages that can be gained from going digital with an Ysio flat detector solution.

	Examination steps	Cassette system	CR system	FD system
1.	Patient registration in HIS/RIS	–	•••	•••
2.	Patient waiting time for image checks	•	•	•••
3.	Accurate patient data entry on cassette/ image	••	••	•••
4.	Accurate selection of image processing algorithms	–	••	•••
5.	Image preview time	•	•	•••
6.	Image postprocessing	–	•••	•••
7.	Image retakes	•	••	•••
8.	Dose optimization and high image quality*	•	•	•••
9.	Overall examination time	•	•	•••
10.	Digital data storage	–	•••	•••
11.	Image system maintenance (e.g., cassette cleaning, QC tests)	•	•	•••
12.	Quick image access from reporting station	–	•••	•••
13.	Electronic image transfer	–	•••	•••
14.	Consumable materials	•	••	•••
15.	Environmentally friendly	•	••	•••

Comparison of imaging system technologies for relevant categories

**Note:**

Cassette system refers to the film/ screen cassettes and processor only. CR system here refers to the CR cassettes, CR processor and workstations only.

- excellent
- good
- adequate
- N/A (not applicable)

\* Dose savings of X-ray system used with film/screen and CR systems are not considered here



## Mix features to match your needs

Whatever your radiography routine, Ysio offers you tremendous flexibility to choose the system configuration that is most suited to your needs.

### Custom configuration

With its innovative design concept, Ysio lets you select from a set of system modules to tailor your solution, choosing only those you absolutely require – whether fully automated or fully synchronized, a single or dual detector solution, with a wall stand or a wi-D. The choice is yours to tailor a suitable digital radiography system for your needs.

### Adapting to evolving clinical needs

With Ysio, you can add system features at a later stage to match your changing imaging needs. With features such as:

- Ortho acquisition\* and composing, enabling full-length images for special orthopedic, spine or leg assessments
- Tomography\*, an upgrade function for all fully automated Ysio systems enabling expanded applications
- Dual Energy\*\*\*, a cost-efficient chest-screening tool providing an unobstructed view of the lungs



## Optimizing your investment

Services such as Life help you to maximize the performance of your Ysio system – as well as your investment returns.

### **Tracking rejected images**

With the recycle bin, rejected images can be easily tracked and verified to meet regulatory guidelines, or simply for departmental analyses.

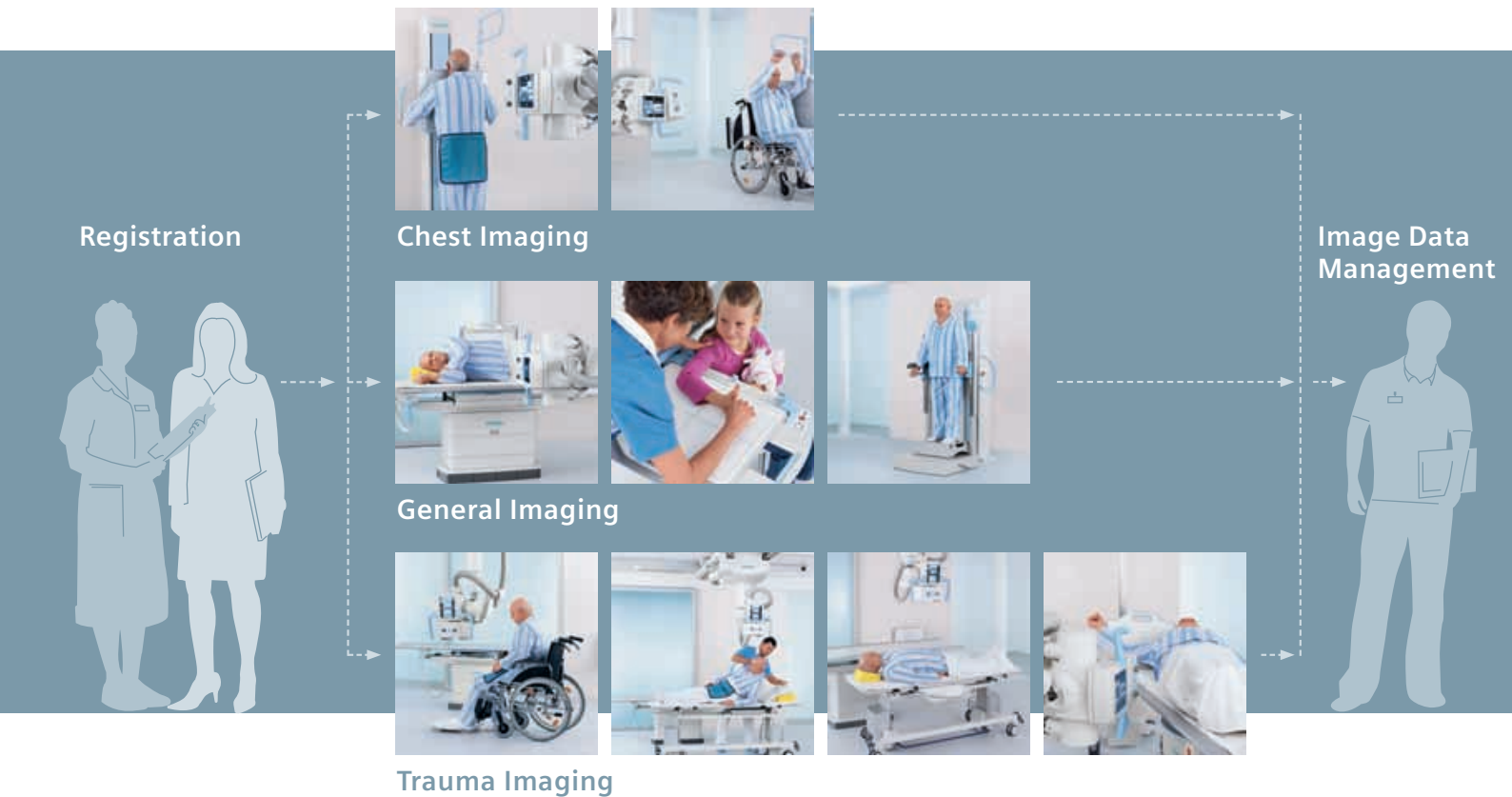
### **Radiographic positioning aid**

A positioning guidebook with suggested imaging parameters is available as a quick reference for users. It provides quick instructions for less common examinations to ensure reduced interruptions and a smoother workflow.

### **Performance over the long-term**

Your investment in a new Ysio marks the beginning of an important relationship that will last many years. From installation planning to turnover, you enjoy the benefits of our highly competent project management team. Our world-class onsite applications training will help you achieve the full imaging and workflow potential of your new Ysio. E-learning gives you 24/7 access to useful tips and tricks for your new Ysio. Uptime is paramount, and that's why Ysio supports state-of-the-art remote proactive service technologies such as the Guardian Program™, which can reduce unplanned downtime by up to 70%\*.

\* Results may vary. Data on file.

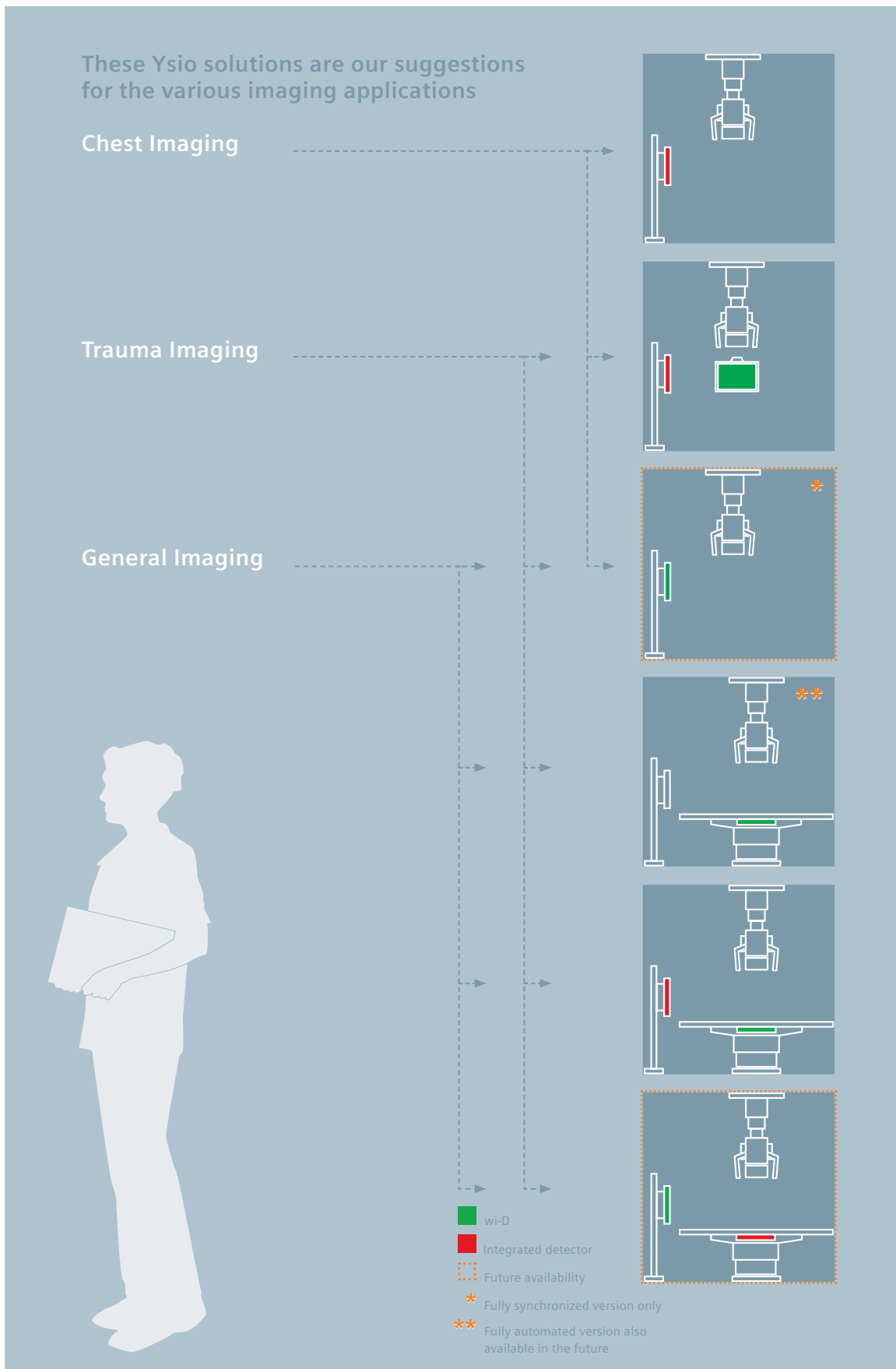


## Ysio – defining combinations flexibility

Your radiography routine is defined by a variety of individual factors specific to your department and local regulations. Consider the following factors when selecting your tailored Ysio solution:

- Registration procedures
- Types of examinations performed
- Patient profiles
- Patient volumes
- Method of data storage
- Data documentation and referral media
- Local standards and regulations

# System configurations overview



All Ysio solutions shown are also available as fully automated and fully synchronized versions, unless otherwise indicated.

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