



Precision™ 420

Dynamic flat panel R&F within reach

Precision 420 is a commercial configuration of Optima RF420



Precision 420

Dynamic flat panel R&F within reach

"I'm interested in real-time imaging with a larger field of view"

"I wish to acquire high-definition images while reducing exposure dose"

"I'm interested in improving the efficiency of examinations, to utilize the examination room more efficiently"

As the first in its class equipped with a portable FPD, the Precision 420 system is the answer to these requests.

Make a smart investment choice

Ease your working day

Widen your clinical portfolio





Make a smart investment choice

The system performs R/F examinations for gastrointestinal and other fluoroscopic examinations as well as plain radiography, providing more efficient utilization of the examination room.

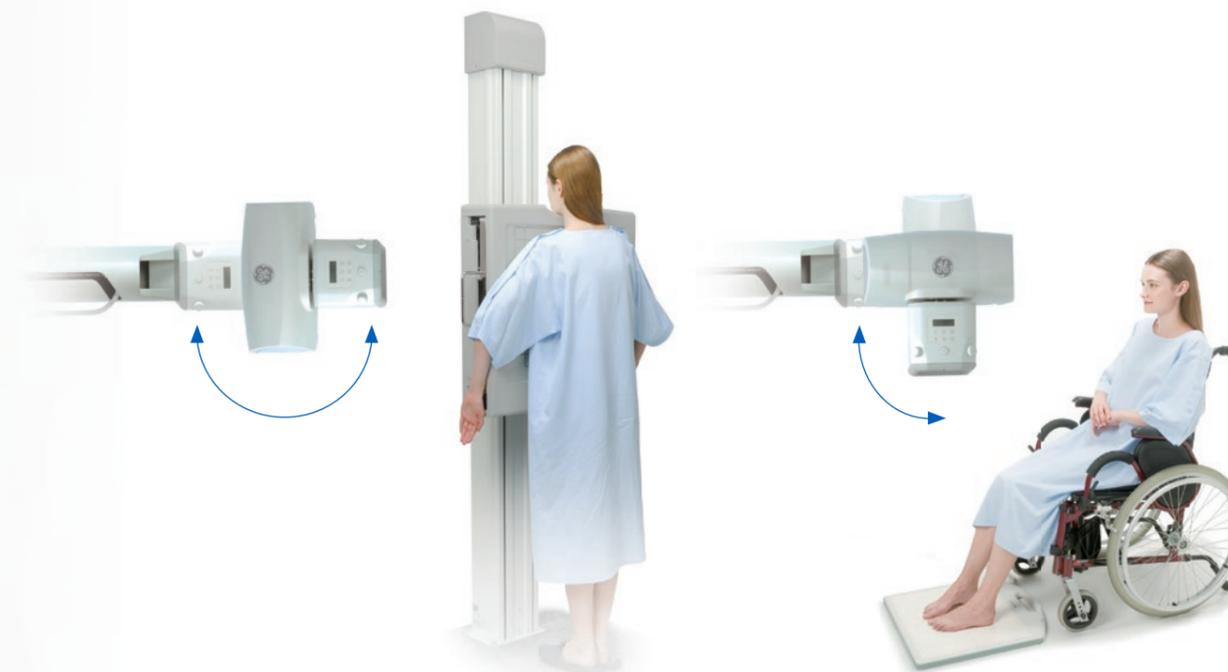
X-ray Tube 180° rotation unit

180-degree rotation of the X-ray tube/collimator easily and effectively accommodates chest examinations using a bucky stand.

The FPD can be used on the table, to perform skyline and other radiography procedures in projections that are difficult to achieve with traditional R/F tables.

X-ray Tube 90° rotation unit

Direct Flat Panel radiographic exposures of patients on trolley or wheelchairs when table tilted vertically and tube head rotated 90° towards the floor.





Ease your working day

Precision 420 is equipped with table elevation and a number of other features to make the system friendly to both patients and operators. Designed with patients and operators in mind, this system not only enables examinations to proceed smoothly, but also lessens the burden during examinations, thereby achieving a safe and comfortable examination environment.



Patient access

Thanks to the compact design, there is ample workspace around the table providing maximum patient access from behind the table, which makes transferring the patient easy.

Bedside controller

The tabletop and imaging chain can be operated from the bedside. Positioning is easy while providing close monitoring of the patient, so examinations can proceed safely and smoothly.

Table elevation

This function reduces operator strain during patient transfer. The elevating tabletop also allows the technologist to select their most comfortable examination height.

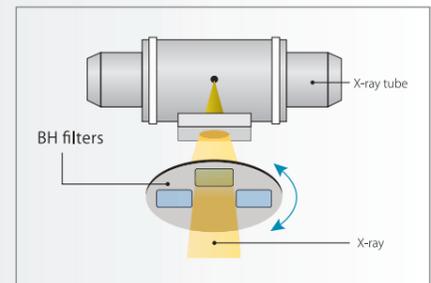
Rubber cushioned, flexible collimator

The periphery of the collimator is fitted with a rubber cushion to provide additional safety for the patient and operator.



Low dose

Precision 420 not only provides high-definition images with the optimal image quality for each examination. It also effectively reduces the total exposure dose in pediatric, gynecological and other examinations where low dose exposures are required.



Lower dose with a removable grid

The Precision 420 grid can be inserted or removed to suit the radiography application. The grid can easily be removed for pediatric, obstetrics and gynecological examinations when the radiation dose to the patient must be kept to a minimum.

Automatic BH filters switch to suit the examination

Three beam hardening (BH) filters are provided as standard to efficiently remove unnecessary soft X-rays that do not contribute to image quality. The optimal BH filter is automatically selected to suit the examination, so image quality is increased while exposure dose to the patient is reduced.

Pulsed fluoroscopy

As a standard feature, four modes of pulsed fluoroscopy (up to 15 fps) can be selected to suit the examination, for the reduction of patient dose while maintaining high image quality.

Digital recording of fluoroscopy Images

During examinations, up to 1,000 fluoroscopy images can be recorded in DICOM format. During fluoroscopy, images are saved to memory in a loop, in the same format as radiography images. As a result, examinations proceed efficiently, and unnecessary exposures can be avoided.



Widen your clinical portfolio...

Precision 420 is equipped with a flat panel detector (FPD) providing a large 17" x 14" field of view capable of both fluoroscopy and radiography. This supports a wide range of examinations, from enema to other gastrointestinal examinations, DIP and other urinary tract contrast media examinations. Pelvic, extremity and other examinations in the field of orthopedic surgery can easily be performed.



Large Field of View FPD

The system is equipped with a large 17" x 14" field of view flat panel detector. The system covers a wide range of examinations both in landscape and portrait orientations. Positioning during fluoroscopy is simple as the overall position of the body is easily imaged.

Supports VF examinations and thoracic radiography

The X-ray tube extends to 1.5 m (4.9 ft) allowing video fluoroscopy (VF) and other examinations to be performed with the patient remaining in a wheelchair. There is ample space between the wheelchair and the X-ray tube, which reduces patient anxiety.

FPD rotates to suit the examination

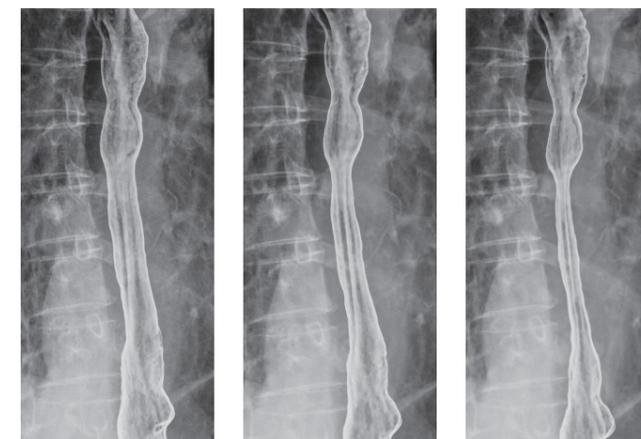
The FPD can be rotated from portrait to landscape to suit the examination being performed.

Cranial /caudal projections

Extreme angles required for views such as Towne's projection can be easily performed using the oblique projection feature.

...with high quality imaging

A variety of body parts can be observed in real time, with high image quality, making full use of the FPD performance. In addition, high-speed image processing technology lets you effectively control halation and the loss of shadow details, thereby instantly providing easy-to-view images on the monitor display.



High speed serial radiography with impeccable timing

High speed serial digital radiography at up to 15 fps accurately captures even the high speed flow of contrast media as it is swallowed, with impeccable timing.

Contrast optimization

Multi-frequency processing and other digital image processes are applied to the high-definition FPD images acquired. The area of interest is then contrast enhanced, naturally and unobtrusively, in real time, providing clearer radiography and fluoroscopy images without any image lag. In addition, halation in the vicinity of the skin or due to digestive tract gases, as well as the loss of shadow details from significant overlap by other organs is effectively suppressed.

Effective noise suppression for fluoroscopy

Noise during fluoroscopy is effectively reduced by matching the intensity of the recursive filter to patient movement producing clearer, noise-free and low dose fluoroscopy images.

High volume image data storage

Up to 80,000 acquired images can be saved in real time to the hard disk drive, which means that even image intensive examinations can be performed with peace of minds.

Storage with DICOM images

Stored images and patient data are entirely managed in DICOM format, so networked management of image data is simple.

- DICOM storage
- DICOM print
- DICOMMMWM
- DICOMMPPS
- DICOM Media Storage



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