

SIEMENS

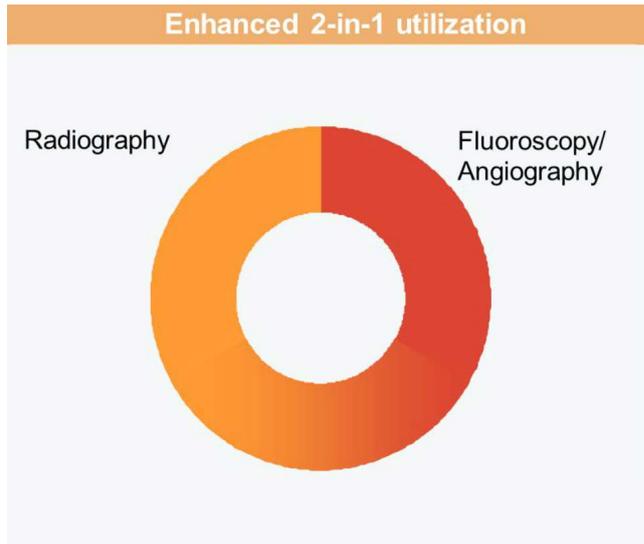
Luminos Fusion - Fluoroscopy System

The 2-in-1 system that fits your needs and fits your budget

Dear Clinicians,

Siemens has introduced the new Luminos Fusion, a combine fully digital fluoroscopy and radiography system that features flat panel detectors. Switching out cassettes is a time consuming process and working with bulky C-arms during fluoroscopy could be a cumbersome. This fluoroscopy system fits your needs with a large 43 cm x 43 cm image, safer design and outstanding dose saving. It fits your budget with proven 2-in-1 efficiency and with industry-leading technologies.

Luminos Fusion - The 2-in-1 system that fits your needs and fits your budget



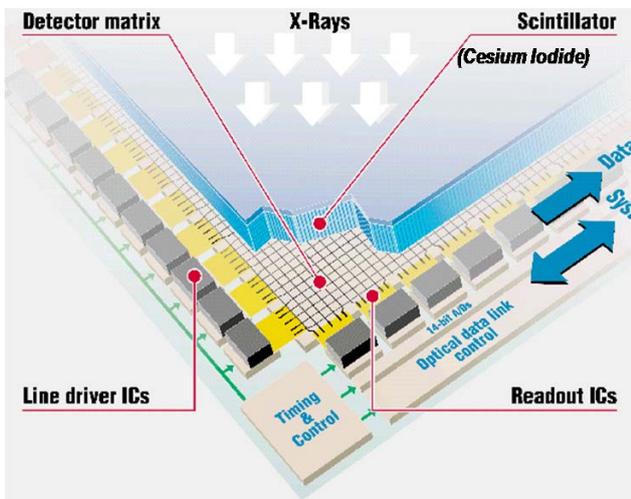
System Salient Features:

- 2-in-1 radiography and fluoroscopy true digital system
- Choice of Image intensifier or Flat Detector
- Large 43 cm x 43 cm field-of-view
- Easier procedures with excellent patient access from all sides
- Flexible positioning for a wide range of examinations
- Ceiling suspension and wall stand options
- Fluoroscopy with up to 30 p/s
- High resolution radiography with low dose
- Efficient space requirements

New Generation of Flat Detector Technology:

The flat panel version allows the Luminos Fusion to be a more compact system saving hospitals' precious space for a more comfortable experience and other uses. Working with current image intensifiers is a time-consuming process. Taking an X-ray means inserting, removing, and replacing cassettes. As these cassettes have to be processed, patients have to wait longer for results. Luminos Fusion with flat panel detector technology is different. Its 43x43 cm image surface provides full-digital, distortion-free X-ray and fluoroscopic images within seconds. With accelerated treatment, patient throughput can be increased. The higher-quality images generated by the flat panel detector give radiologists better diagnostic information and provide images double the size of that of those achieved with typical image intensifiers. The flat panel detector also takes up less space than image intensifiers and makes it easier for medical personnel to position the patient.

Combining superb coverage with exceptional image quality, the 43 cm x 43 cm flat detector delivers 2-in-1 imaging with distortion-free high-quality dynamic sequences and static images with a resolution of up to 3.4 lp/mm.



- Excellent coverage with a large 43 cm x 43 cm flat detector
- High resolution imaging in radiography and fluoroscopy
- State-of-the-art Cesium Iodide (CsI) scintillator technology
- Innovative integrated imaging chain
- Distortion-free images in radiography and fluoroscopy
- High resolution – up to 3.4 lp/mm
- Unique Siemens imaging technology



Full abdominal coverage via large flat detector

Operational Benefits:

This combination of fluoroscopy and radiography equipment helps increase system utilization and avoids idle time. Since fluoroscopy patients typically need to fast before an examination employing contrast agents, for example, appointments are generally scheduled in the morning. A 2-in-1 system like Luminos Fusion is available in the afternoon for X-ray imaging, so the equipment can be utilized at greater capacity.



➤ SmartTouch – Touch-sensitive joysticks improve safety for patients and staff

- The compact control console with an intuitive touch user interface allows easy access to all system functions at your fingertips
- Touch-sensitive joysticks are only active with the touch of a human hand – preventing unintentional system movements
- Intuitive operation – no second button required for joystick activation

- New generation of joysticks translate hand movements one-to-one into direction and speed – for easier and more precise positioning

➤ **Safer patient positioning**

Whether for transfer onto or off the table, during interventional procedures, or to reassure a nervous patient, the clean and compact table design ensures access to your patient without over-extending your reach

➤ **Single-touch positioning**

With just one button press, the system can quickly and directly be moved to either a horizontal or vertical patient transfer position. Optimized for moving the patient onto or off the table, these positions shorten the preparation time for each examination.

➤ **Positioning flexibility**

Compact system design can adapt to almost any examination need – including free exposures, lateral projections, and even patients in wheel chairs or beds. This flexibility has benefits in examination speed, system utilization and patient comfort.

➤ **Low footstep**

The lowest footstep height of just 4 cm above the floor makes stepping onto the system safer and more comfortable for your patients.

Financial Benefits:

The key benefit of 2-in-1 is increased room utilization. Luminos Fusion can quickly adapt to your mix of fluoroscopy and radiography and optimize system use. With the one-click digital workflow, and the fast and easy patient positioning, examination times are shorter and patient throughput higher with both the image intensifier and flat detector versions. The flexibility and high utilization of the system saves time, space and costs in both radiography and fluoroscopy. With the flat detector, images can be reviewed almost instantly, dramatically shortening examination times for you and your patients.

Comprehensive dose saving applications

Combined Applications to Reduce Exposure (CARE) provide outstanding dose reduction without compromising image quality ensuring lower dose for you and your patients.

CAREFILTER

Automated copper filter selection that reduces the body entrance dose is linked to the fluoroscopy imaging chain to adjust the copper filters in real time as required.

CAREMATIC

Automatic calculation and optimization of exposure parameters for consistent high quality results across different patients and examination types.

CAREVISION

Pulse frequencies of 15, 7.5, and 3 pulses per second for low-dose imaging in real-time.

Removable grid

Reduces dose in extremity and pediatric examinations.

FluoroLoop*

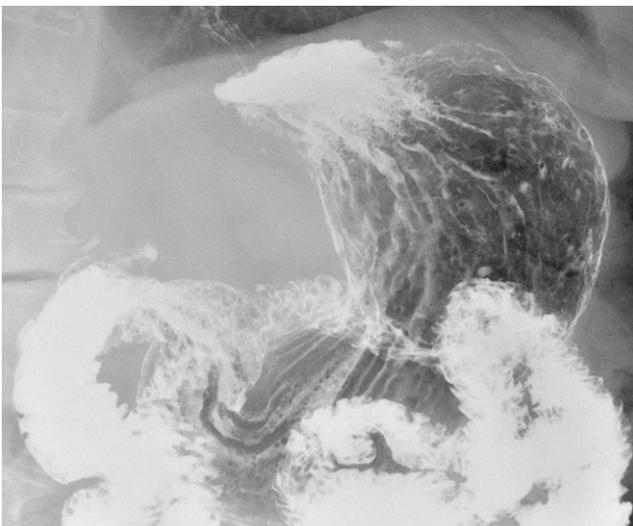
A background memory buffer for retrospective viewing and storage of fluoroscopic sequences, reducing the need for re-exposure.

*Optional

Clinical Gallery:

Luminos Fusion is a powerful addition to a broad range of clinical environments. Applications such as digital subtraction angiography (DSA) and tomography expand the range of exams. Distortion-free images in radiography and fluoroscopy.

Excellence in fluoroscopic applications



Excellence in radiographic imaging



Quiz: Nov 2015_Edurad_Siemens

Question 1:

Luminos Fusion system has a flat detector of measurement ____; which guarantees superb coverage and generates full-digital, distortion-free X-ray and fluoroscopic images within seconds.

- a. 35 X 35 cm
- b. 25 X 25 cm
- c. 43 X 43 cm

Question 2:

The dual usage of Luminos Fusion - in Fluoroscopy and Radiography results in _____ room utilization at the hospital. With the fast and easy patient positioning, examination times are shorter and patient throughput _____.

- a. Increased, higher
- b. Reduced, same
- c. Reduced, lower

Question 3:

Which of the following statements is true

- a. Luminos Fusion system is a combined full digital fluoroscopy and radiography system
- b. Luminos Fusion system is equipped with SmartTouch technology, where Touch-sensitive joysticks at the Control Console improve safety for patients and staff.
- c. CARE (Combined Applications to Reduce Exposure) technology on Luminos Fusion provides outstanding dose reduction without compromising image quality.
- d. All the above

Please send your answers along with your contact details and the lucky winners will receive a special prize.

E-mail to hc_contact.india@siemens.com

Read further on Siemens fluoroscopy solutions at: <http://www.healthcare.siemens.com/fluoroscopy>

Correct answers for Sep 2015_EDURAD_Siemens issue on ARCADIS Orbic 3D C-arm

b, true, e

Winners:

DR S B C, Mahalaxmi hospital, Sindagi

Dr. Chitragada Singh, Dr. D . Y. Patil hospital, Navi Mumbai

Dr. Ameya Kawthalkar, Tata Memorial Hospital, Mumbai