

LUMINOS Impulse
Decidedly fresh

[siemens-healthineers.com/luminos-impulse](https://www.siemens-healthineers.com/luminos-impulse)

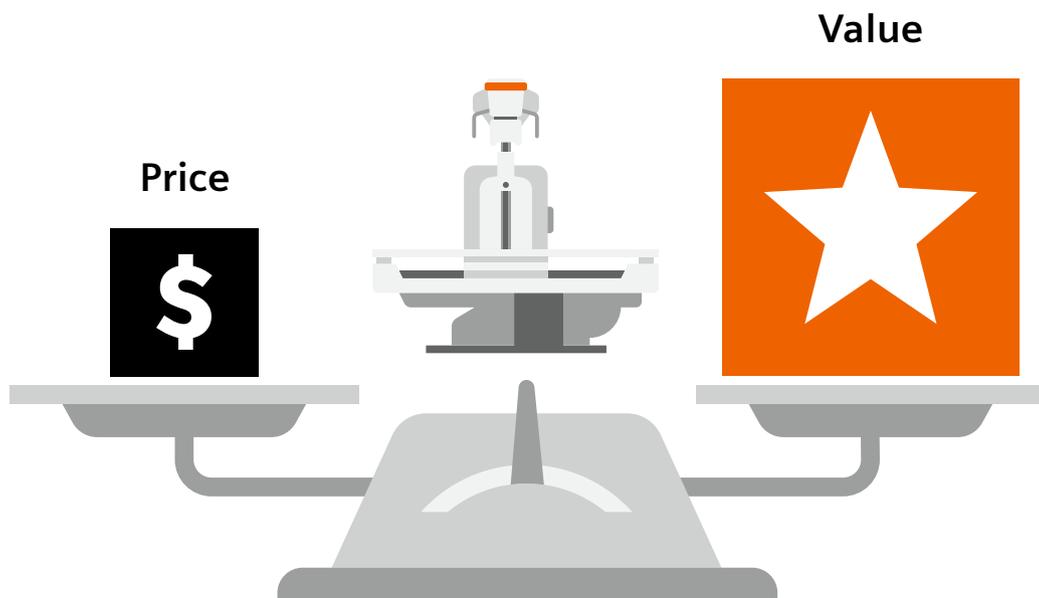


High value and top performance at a low price

Looking to upgrade your image quality and feature set with your next fluoroscopy purchase? That's usually no problem. The tough part is keeping costs contained at the same time...

Your wish list:

- High-end imaging capabilities
 - High clinical versatility
 - Low initial system purchase price
 - Low total cost of ownership
-





Time for a fresh approach

High-value system at an economical price

LUMINOS Impulse is built to satisfy all the demands of modern-day healthcare. This fully digital fluoroscopy and radiography system will help you achieve high image quality while keeping the radiation dose low. And of course, it will also optimize your imaging workflows.

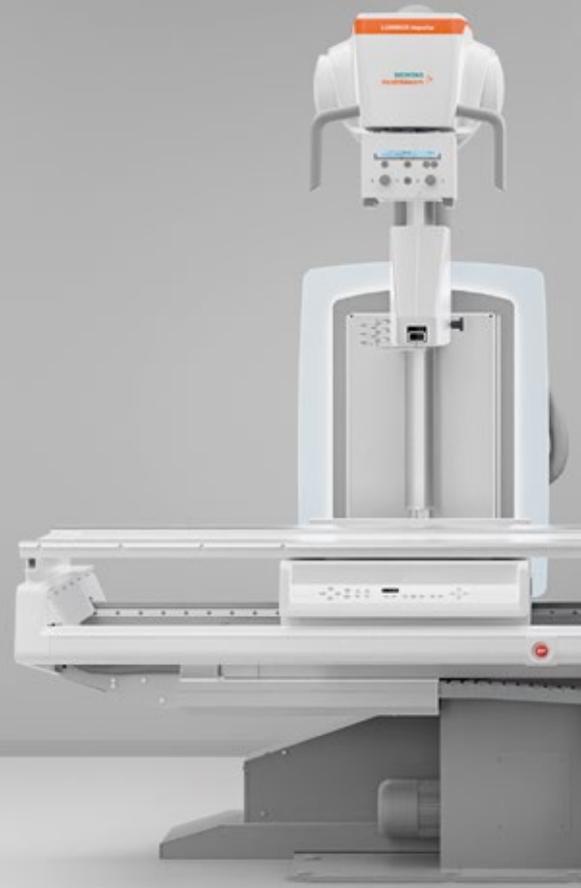
The economical price and the potential cost savings due to detector sharing allow you to minimize the financial impact while still getting maximum value from your purchase.

Now that you know what LUMINOS Impulse has to offer – high value at an economical price – wouldn't you say it's decidedly fresh?

Discover LUMINOS Impulse

At a glance	4
Trust your results	6
High image quality (DiamondView MAX)	7
Optimize your capabilities	9
Innovative services	11
High level of cybersecurity	12
Fleet Level Benefits	13
Technical specifications	14

LUMINOS Impulse at a glance



Trust your results

LUMINOS Impulse allows you to achieve high-end image quality at consistently low dose levels thanks to a premium imaging chain and processing engine, comprehensive dose optimization management, and predefined low-dose organ programs.

Optimize your capabilities

LUMINOS Impulse delivers advanced functionalities at an economical price. Both fluoroscopy and radiography exams can be performed with this fully digital 2-in-1 system, detector sharing maximizes efficiency and realizes cost savings, and continuous operation is ensured by world-class Siemens Healthineers service and support.



High level of cybersecurity

LUMINOS Impulse features security by design and a comprehensive range of features to reduce the risk of cyberthreats to your IT network and sensitive patient data – and to keep your equipment better protected for years to come. For an even higher level of security, advanced cybersecurity options can be added.

Fleet Level Benefits

Siemens Healthineers offers specific solutions across the entire X-ray portfolio that let you standardize, analyze, and secure your fleet. This let you obtain valuable Fleet Level Benefits: consistency, transparency and confidence for improved efficiency and greater staff and patient satisfaction.

Trust your results

Decidedly fresh

LUMINOS Impulse allows you to achieve high-end image quality at consistently low dose levels, thanks to a premium imaging chain and processing engine, comprehensive dose optimization management, and predefined low-dose organ programs.

High image quality at a low dose

Made possible by the advanced technologies found in high-end fluoroscopy systems:

The same imaging chain components, the same MAX dynamic flat detector, and the same image enhancement technologies as in LUMINOS Lotus Max, Luminos dRF Max, and Luminos Agile Max.



See anatomical details at high image quality

To make fast and confident diagnostic decisions, you need top image quality. LUMINOS Impulse offers DiamondView MAX – our unique image processing engine with a large field of view of 43 cm x 43 cm (17" x 17"). The image quality of Ortho Scanning is also optimized, thanks to a new software algorithm.

Excellence in fluoroscopy and radiography applications



Enhanced contrast at low dose for gastrointestinal examinations.



Swallow studies with high frame rates.



Study ID: 5aac939

Radiography image with clear details.



Study ID: 5aac913

Study ID: 5aac939

Easy positioning and standardization with predefined organ programs.

Optimized ortho image quality



Study ID: 5aac954

High accuracy for lumbar spine examinations.



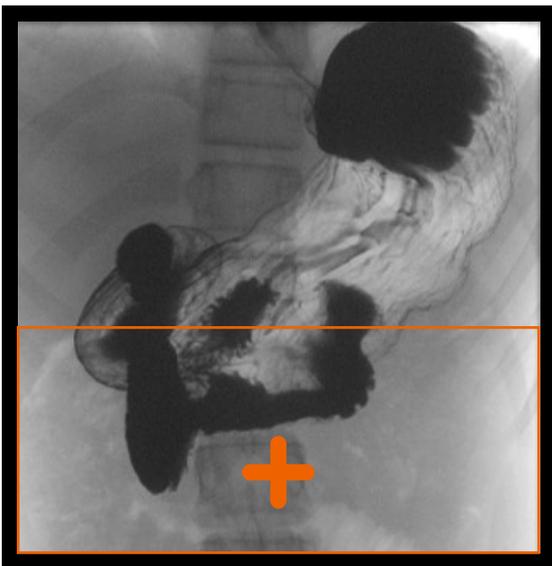
Study ID: 5aac956

Fully automatic ortho imaging.¹

¹ Option

Comprehensive dose management with CARE

With LUMINOS Impulse, we are delivering on our promise to continuously improve dose management, from the Basic CARE features to the Enhanced CARE package.¹ Our goal: to keep dose levels contained.



CAREPOSITION¹: Dose-free patient repositioning



Digital zoom

Contain dose and improve your efficiency with our CARE solutions

Basic CARE features

Reduce the radiation dose for patients and staff using dose-free applications like:

- **CAREPOSITION¹**: Reduce radiation dose with dose-free patient repositioning
- **CAREPROFILE¹**: Reduce radiation dose with dose-free image collimation

Enhanced CARE package¹ – Lets you focus on your patients by ensuring a seamless workflow and allows you to avoid additional radiation

- **Snapshot Mode** – Enjoy immediate low-dose image capture
- **Histogram-based dose regulation** – Enjoy automatic dose regulation for more efficient workflows
- **Digital Zoom** – Benefit from dose-free zooming-in on clinical images
- **Proactive FluoroLoop** – Focus on the patient and avoid additional radiation dose

¹ Option

Optimize your capabilities

LUMINOS Impulse delivers advanced functionalities at an economical price. Both fluoroscopy and radiography exams can be performed with this fully digital 2-in-1 system. Detector sharing maximizes efficiency and realizes cost savings. Continuous operations are ensured by world-class Siemens Healthineers service and support.

Get the most from your fluoroscopic and radiographic exams:



- Both table and Bucky wall stand¹ exposures can be performed with the main system X-ray tube, for maximum flexibility
- Stitching functionality (Ortho Scanning¹) allows long-leg and full-spine examinations
- Two options for thorax examinations:
Main system table: SID of 150 cm (59.1")
Bucky wall stand¹: SID of 180 cm + (70.9")

Use one wireless flat detector (Max wi-D¹) with multiple imaging systems to maximize efficiency and realize cost savings:



- Excellent MAX image quality in RAD examinations with Bucky wall stand¹ or for free examinations
- Robust design thanks to powerful coating
- Very thin and lightweight (3.3 kg / 7.3 lbs.)
- Easy to handle and carry thanks to a smooth carbon handle
- Can be charged in the Bucky tray
- MAXswap¹: Detector sharing functionality

¹ Option

Continuous operations ensured by world-class service and support

Get all the help you need whenever you need it, thanks to world-class Siemens Healthineers service and support



>7,000
fluoroscopy
systems installed
worldwide

98%
Siemens
Healthineers
uptime
guarantee¹

98%
of spare parts
are delivered
within 24 hours¹

Benefit from minimized equipment downtime in the rare event that something goes wrong:

- **Remote Assist¹**: On-demand application support via TeamViewer® – with image quality assessments, protocol optimization, and workflow enhancements in real time. The result: fewer workflow interruptions and higher patient throughput.
- **Smart Remote Services (SRS)**: A secure connection between your medical system and our Customer Care Center enables real-time monitoring of the performance and condition of your equipment.

¹ Prerequisite for this service offering is an existing connection to our SRS infrastructure and a service contract that includes this service offering.

Benefit from innovative services

Increasing value by partnering throughout the entire lifetime of your equipment



Continuously adding value and caring for your equipment, your workforce, and your entire institution.

Equipment Maintenance & Monitoring

Designed for quality and availability, UpTime Services allow you to increase your equipment's uptime by safely managing planned and unplanned downtime – for optimized equipment performance.

Education Management

Within UpSkill Services we share the latest technical and clinical knowledge to continuously and strategically build job-specific skill-sets – for better patient care.

Fleet Management

teamplay Fleet enables you to streamline the management of your fleet from Siemens Healthineers 24/7.

Performance Management

An intelligible overview of your radiography performance data helps you make prompt and well-informed decisions.

Asset Management & Planning

Access to innovative medical technology and equipment throughout the entire contract life-time allows you to maximize focus on patient care.

Accessory Solutions

Products from our partner companies complement your use of our equipment in your daily workflow.

Business Modelling & Financing

Customized business and financial models address your budgetary and enterprise needs enabling you to remain more competitive.

Departmental Layout Optimization

3D-Visualization and digital twin analysis create more efficient workflows and a more enjoyable working environment.

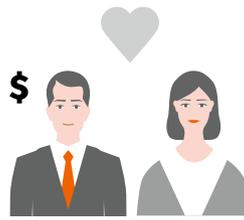
High level of cybersecurity

High level of cybersecurity by design is available with LUMINOS Impulse

Did you know that the risk of experiencing a data breach at a hospital is much higher than getting struck by lightning or dating a millionaire?



1 in 960,000
get struck by lightning



1 in 220
date a millionaire



1 in 4
hospitals are at risk
of experiencing
a data breach

Source: IBM Ponemon Institute 2018 Cost of Data Breach study.

LUMINOS Impulse features security by design and a comprehensive update of cybersecurity options to keep your medical equipment protected throughout the entire lifecycle. The system is delivered with standard cyber-

security offerings and if necessary, advanced security solutions can be optionally added for an even higher level of security.

Standard

Secure development lifecycle

- Secure coding and testing
- Vulnerability scanning
- Penetration testing

Whitelisting

Encrypted data storage

90-days hotfixes

Option

Advanced security package

- Advanced user management
- Centralized access role management
- Audit trail
- DICOM encryption

Hardware security package

- Lock to generator cabinet
- Hardware port covers for syngo FLC

Fleet Level Benefits

Unlock your potential – and increase the efficiency across your imaging fleet

As healthcare provider you are forced to do more with less, you have to run your radiology department more efficiently. A high level of complexity makes it challenging for you to reach the desired efficiency. Siemens Healthineers offers specific solutions across the entire X-ray portfolio

that let you standardize, analyze, and secure your fleet. Experience consistency, transparency, and confidence as valuable Fleet Level Benefits and improve outcomes, increase efficiency – and achieve greater staff and patient satisfaction.

Standardize
for consistency



Analyze
for transparency

Secure
for confidence



Standardize
for consistency

- Systems with highly intuitive user interfaces and common workflows
- Staff with consistent knowledge level
- Unified image quality and same image impression



Analyze
for transparency

- Consolidated data in one place
- Analyzed and evaluated data turned into valuable information



Secure
for confidence

- Protect large IT network and imaging fleet with one cybersecurity philosophy
- Same maintenance cycles and update strategies for the whole fleet

Technical specifications



Monitor trolley¹

For flexible monitor positioning in the examination room.

Control console¹

Control console for more flexibility in exam rooms with SmartTouch – touch-sensitive joysticks activated only by a human touch.

Compact system design

- Table length: 210 cm (83")
- Comfortable patient height: 89 cm (35")
- Weight capacity: up to 200 kg (441 lbs.)
- Tabletop width: 80 cm (31.5")



System X-ray tube

- Anode heat capacity: 820 kHU
- Oblique projection: Max. $\pm 40^\circ$ axial

Moodlight¹

MoodLight creates a friendly work environment for patients and staff.

Bucky wall stand¹

- Vertical travel range: up to 143.5 cm (56.5")
- Minimal central beam height: 31.5 cm (12.4")
- With MAX wi-D¹

Remote control console

With SmartTouch, touch-sensitive joysticks can only be activated by a human touch – with integrated TUI (touch user interface) for intuitive imaging.

MAX imaging chain

MAX dynamic detector with a large coverage 43 cm x 43 cm (17" x 17")

MAX wi-D detector¹

- Wireless
- Size: 35 cm x 43 cm (14" x 17")
- Weight: 3.3 kg (7.3 lbs.)
- Thickness: 19 mm (0.7")







Why Siemens Healthineers

At Siemens Healthineers, our purpose is to drive innovation to help humans live healthier and longer. Through our products, services and solutions we help physicians, medical staff, and healthcare providers prevent illnesses from occurring and to correctly diagnose and determine the right treatments for people who do become ill – resulting in fewer complications, shorter hospital stays, and faster patient recovery.

Our mission is to enable healthcare providers to increase value by expanding precision medicine, transforming care delivery, improving the patient experience, and digitalizing healthcare. With our comprehensive portfolio – from in-vitro diagnostics and best-in-class imaging to therapy and follow-up care – we address the complete care continuum for many of the world’s most threatening diseases.

Every hour, more than 240,000 patients are touched by technologies provided by Siemens Healthineers. We are at the center of clinical decision making with almost three-quarters of all critical clinical decisions influenced by our solutions. We are a leading medical technology company with over 120 years of experience and more than 65,000 highly dedicated employees around the globe who are innovating every day, truly shaping the future of healthcare.

LUMINOS Impulse is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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

The information in this document contains general descriptions of the technical options available and may not always apply in individual cases.

Siemens Healthineers reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local Siemens Healthineers 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 may recycle certain components where legally permissible. For recycled components we use the same extensive quality assurance measures as for factory-new components.

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

Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com/