

Room for flexibility

Philips EasyDiagnost Eleva with digital Radiography/Fluoroscopy room solutions to combine both applications in one room

PHILIPS

Extend your options

The latest release of the EasyDiagnost Eleva from Philips offers you more possibilities than ever before. Upgraded digital functionality and comprehensive room solution configurations enable you to easily carry out high-quality digital radiography as well as fluoroscopy applications in just one room. This means you can extend your application range and benefit from a smoother workflow while significantly increasing your room utilization. Simply choose the solution that best fits in with your existing technology investment and particular requirements.

The Philips EasyDiagnost Eleva

Recognized for its ease of use and superb image quality, the EasyDiagnost Eleva has for many years been entrusted with a variety of R/F applications from gastro-intestinal and various iodine and vascular procedures to standard radiography. Today, it can be easily combined with other appliances to give you the extra flexibility you need. Digital integration options, together with extensive customization possibilities, enhance your workflow and enable you to make the best use of your time and your team.

Digital Radiography/Fluoroscopy Room Solutions

The EasyDiagnost Eleva is designed to fit into the way you work. It can be used as a key component of a number of different room solutions, such as those involving Computed Radiography (CR) and Digital Radiography/Fluoroscopy (DR/F) capabilities. These enable you to perform multiple procedures in just one room, thereby allowing you to use your facilities more efficiently and cost-effectively. You can upgrade your existing system to take advantage of digital functionality to the degree that you prefer. This can be anything from a single detector version to a high-end full digital room solution with all the advantages of filmless and even cassetteless workflow.

Philips: taking good care of you

At Philips, we develop products around the needs of the people who use them. It is our aim to always make the most complex technologies simple to access and a pleasure

to operate. We strive for continuous improvement in order to always bring you best-in-class solutions. Philips Healthcare has a wealth of experience in creating useful

applications for hospital use. Professionals and patients alike benefit from our user-friendly yet highly advanced innovations.



“Having radiography in the same room where you are able to provide fluoroscopic evaluation is a tremendous advantage in terms of efficiency.”

Dr. Donald Frush, Chief of Pediatric Radiology, Duke Children’s Hospital and Health Center, USA



More functionality, more choice

Created to assist you in making faster, more confident diagnoses, the EasyDiagnost Eleva from Philips delivers exceptional image quality at low X-ray doses. It can be programmed to accommodate your own preferences and requirements, thereby facilitating each task. Easy to handle and intuitive to use, the EasyDiagnost Eleva is built around the way you work. You can combine it with other appliances to perform a comprehensive range of fluoroscopy and radiography procedures swiftly and easily, using digital technology. This can help you to save time, use your facilities more efficiently, and increase your reimbursements.

Wide variety of configurations

The EasyDiagnost Eleva can be used in combination with a variety of other equipment, including a ceiling-suspended tube, a vertical stand and a trolley. These enable you to quickly expand your range of application possibilities. You can also choose to add a CR reader and one or two digital detectors to speed up your workflow.

Easily upgradeable

Because your needs may change, you can upgrade every EasyDiagnost Eleva system whenever you wish. This protects your investment and helps to make your equipment future-proof.



Excellent accessibility for interventional and vascular procedures



Extended application flexibility with additional vertical stand for radiography examinations



Comprehensive dose management with DoseWise functionalities



Tilttable table for all standard barium and iodine contrast studies



Full clinical coverage for all standard fluoroscopy procedures

You set the parameters

The EasyDiagnost Eleva has been designed to adapt to the way you work. Operator-, exam- and patient-related system pre-sets are programmed to your preferences to increase efficiency, accuracy and throughput. Extended programmable defaults include SpectraBeam RF filter selection, IQ and dose settings and pre-defined print formats. The Eleva technology easily adjusts to accommodate new patients, different physical types (including pediatric patients), a variety of examinations, multiple operators and parallel functions. In other words, it performs to your specifications from pre-exam to archive.

Switch to digital in an instant

The EasyDiagnost Eleva offers a full range of digital options that can improve your room productivity. One option is to go digital in a highly efficient, low-cost way with the help of Philips Computed Radiography (PCR). Alternatively, Direct Radiography (DR) allows you to immediately create, view and share digital images. Both options speed up your workflow while improving data capture and transfer.

Direct results

You can receive patient data and work lists directly from your RIS, together with the appropriate patient-related pre-sets. After the exam, technologists benefit from convenient digital image transfer. The images are sent to the PACS or printer, while examination information is simultaneously transmitted back to the RIS. Instant availability and optimized image display greatly contribute to faster working procedures.

The Eleva concept

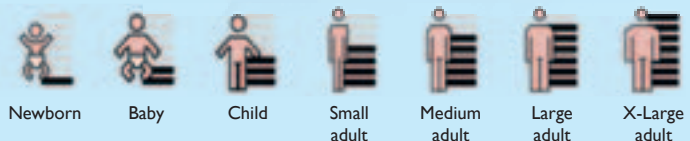
Optimal workflow - High efficiency

RIS coupling activates system-presets

RIS - patient registration

Regular automatic information exchange with the RIS

Seven patient types



“I easily increased my room productivity by 65%*. It was so intuitive to use, the weekend technologists can operate it after only a short briefing. I have never had 100% of the technologists accept a system, except for this one.”

Marc Ferro, Operations Manager Imaging Service, West Palm Beach VA Medical Center, USA

* Results may vary

Working with you

The EasyDiagnost Eleva's complete DICOM functionality takes full advantage of your IT infrastructure. It includes DICOM Worklist Management (WLM), Modality Performed Procedure Steps (MPPS), Store, Storage Commit and Query Retrieve. Naturally, the system has

been designed in accordance with HIPAA requirements and meets IHE standards. Enhanced network security is made possible with mShield: a dedicated modality hardware firewall optimized for medical communication. Based on open standards, our room solutions can be used within any hospital network.

Preparation

- Stand Positions
- On-screen procedure preparation

Examination

- Imaging settings
- Spectrabeam
- Acquisition settings for Fluoroscopy and Exposure

Image Processing

- UNIQUE image processing

Processing

- Archiving
- Printformats
- Information sent back to the RIS

Customizable pre-sets at all stages:

Patient registration

- Bi-directional RIS coupling activates the appropriate Eleva system pre-sets
- DICOM worklist management and MPPS are fully connected

Preparation

- The appropriate Eleva system pre-sets are immediately activated
- Multimodality DICOM viewing helps you access and share information

Acquisition

- In-pulse control enables automatic fine-tuning of fluoroscopy and exposure parameters

Processing

- Analysis and measurements are quickly available in the control and exam room
- ViewForum multimodality software from Philips allows connected viewing and processing
- Parallel working enables simultaneous preparation, acquisition, viewing and post-processing activities
- DICOM Storage Commit supports your work



A smooth operation

Making your job easier

Ease of use and effortless workflow come as standard with the EasyDiagnost Eleva. From the touch screen user interface with its intuitive function locations and integrated generator control to single-handed operation, the system offers a work environment with top-of-the-line convenience. Ergonomic features, such as motorized movements, substantially reduce the physical demands on the technologist. Together with automated procedures such as automatic image stitching, these increase efficiency in your room and throughout the entire medical facility.

Intuitive to use

The Eleva user interface facilitates ease of use and ease of handling because all functions are located exactly where you expect them. In addition, the same user interface is used on a variety of Philips X-ray systems, so it looks familiar and can be operated without difficulty even by less experienced staff. Another visual and practical advantage is that the RIS automatically triggers the appropriate Eleva pre-sets. Your patients' details appear in your preferred format, increasing procedural efficiency and to potentially reduce errors. This is particularly valuable when dealing with paediatric patients. To ensure you have all the details you require, the ViewForum viewing and processing software allows you access to multimodality images and information.

“I believe that the digital room with the digital detectors has made my life as an X-ray tech a lot easier. My workflow has improved tremendously because of the instant images.”

Anja Ancarana, Pediatric Radiological Technologist, Duke Children's Hospital and Health Center, USA

Ergonomic ease

Vertical stands with tracking

The vertical stands are designed to complement the EasyDiagnost Eleva, thereby extending your application range. Available in digital or non-digital versions and suitable for use with or without tilting, they offer features especially developed to enhance your workflow. For example, the tracking feature means that the ceiling-suspended tube will automatically follow the position of the image receiver. Technologists benefit because they can fine-tune the positioning at the vertical stand close to the patient. The tube just follows accordingly.

Automatic image stitching

Another advantage is automatic image stitching, in which a composite image is created instantly on the Eleva workspot out of an image set of two to three images (according to examination type). The algorithm is fully automatic, rendering manual interaction unnecessary, although manual adjustments can be made. Furthermore, orthopedic examinations are facilitated by the use of the orthopedic patient stand for patient positioning.



The Eleva user interface with its intuitive function locations facilitates a smooth workflow



The ergonomic handle EasyGrip for single-handed operation provides outstanding leverage using the left or right hand



The tableside control gives you complete command of table movements at any tilt angle

Flexible solutions that work your way

Tailor-made solutions are easily possible with the EasyDiagnost Eleva. Simply select the most suitable configuration for your medical facility and then customize the settings around your preferences to create an integrated digital radiography and fluoroscopy room for yourself and your team. Instead of standing empty or being booked at inefficient intervals, your room can be used to its full potential.



Orthopedic imaging with automatic image stitching



Exceptional digital radiography images with UNIQUE image processing



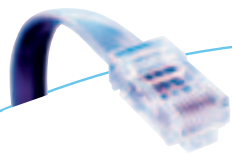
Improved image quality at low X-ray doses with Grid Controlled Fluoroscopy (GCF)



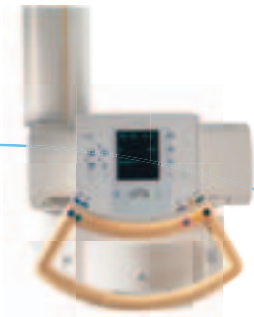
Intuitive workflow with Eleva user interface



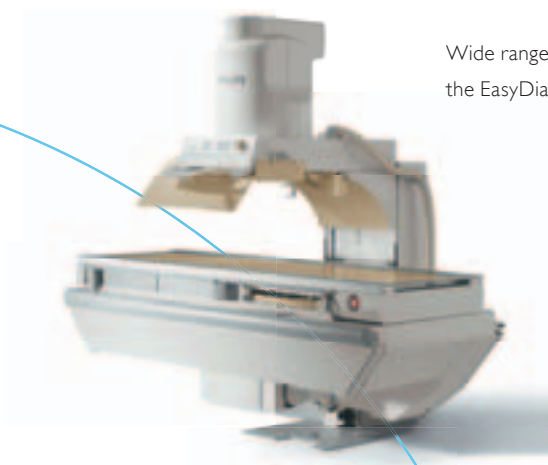
Cost-effective digitization with CR-integration



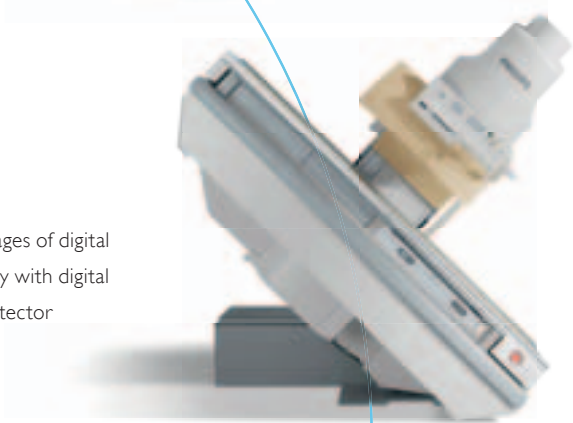
Seamless integration with complete DICOM functionality



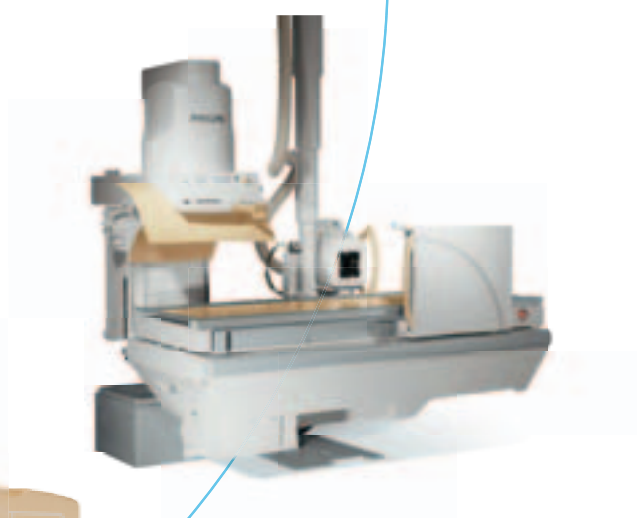
Smooth-running radiography possibilities with second tube



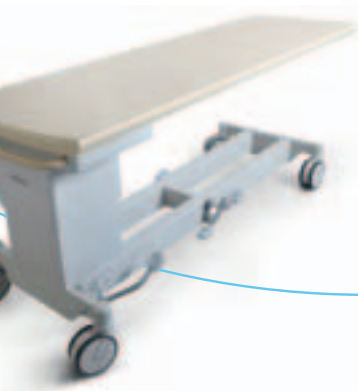
Wide range of applications with the EasyDiagnost Elevation



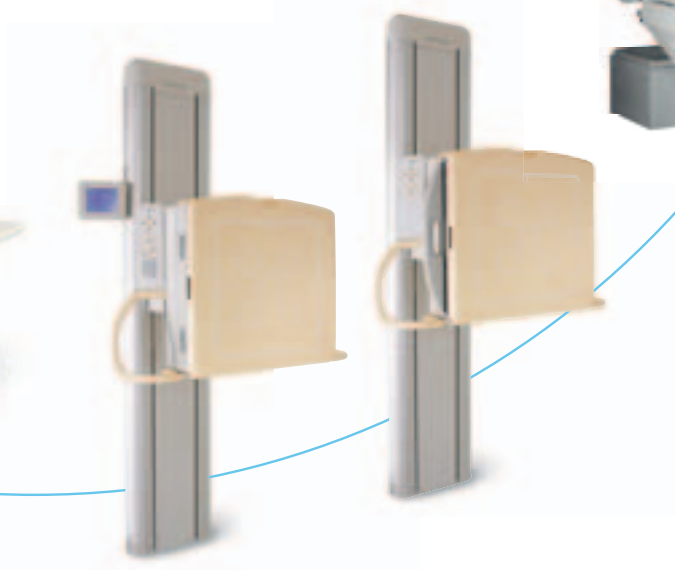
All advantages of digital radiography with digital in-table detector



Enhanced room utilization with a choice of vertical stands



Extended application range with height adjustable trolley



Fast available lateral exposures with fold-out cassette holder EasyLat



Your room, your choice

An empty room is an expensive room. For example, a room dedicated to fluoroscopy may only be used in the morning, or have inefficient operating intervals. By adding digital radiography capabilities, you'll create a two-in-one Digital Radiography/Fluoroscopy room that you can use to its full capacity. We know that everyone has different requirements, so we've made available a variety of room solutions to enhance your workflow and maximize room utilization. Just see which one suits you best.

EasyDiagnost Eleva

At the heart of the whole system, the upgradeable EasyDiagnost Eleva provides a good introduction to its advantages at a great price:performance ratio. It represents the first step towards benefiting from all the further options that can be added.

EasyDiagnost Eleva with CR integration

For users who want to go digital in a cost-effective way, this solution increases productivity and delivers digital radiography images with excellent UNIQUE image quality. CR integration is possible via a locally connected reader or via an existing PCR Eleva network. A great additional benefit of this solution is that you can add Philips' fold-out cassette holder EasyLat to perform lateral exposures quickly and easily.

A variety of Digital Radiography/Fluoroscopy solutions

Whichever room solution you prefer, there are a number of options open to you. Easy to customize to your own requirements, each DRF configuration includes a ceiling-suspended tube and can also be combined with a height adjustable trolley to deliver a higher level of application flexibility and room utilization.

EasyDiagnost Eleva with high-end digital vertical stand

You can enhance your productivity and room utilization by adding a digital vertical stand to perform direct digital radiography examinations. This is particularly beneficial when you need to carry out chest or extremity examinations. EasyLat functionality can be included to give you the fastest-available lateral exposures.

EasyDiagnost Eleva with in-table digital detector

Together with a ceiling-suspended tube carrier, this enables you to perform all your digital radiography work directly at the EasyDiagnost Eleva table. By adding a vertical stand, you can perform upright radiography examinations as well. A cost-effective solution is to use an analog vertical stand and CR integration to digitize the images economically.

EasyDiagnost Eleva with digital in-table detector and digital vertical stand

Combine the digital vertical stand and EasyDiagnost Eleva with a digital in-table detector into one DRF room, and you will benefit from all the advantages of filmless procedures. Fewer retakes and shorter exam times speed up procedures, allowing for higher throughput. This means shorter waits for patients, no need for personnel to handle cassettes, and increased earnings for your medical facility. This versatile solution provides you with excellent flexibility and optimal room utilization.





Achieving exceptional image quality while maintaining low X-ray doses

“The image quality in the DRF room is outstanding. The UNIQUE system that they use to process their images is very detail oriented. Subtle things are caught and seen much easier now.”

Anja Ancarana, Pediatric Radiological Technologist, Duke Children’s Hospital and Health Center, USA

Digital imaging at its best

For fluoroscopy patients, a range of advanced features ensure that images and fluoroscopy runs show the details you require. Also for radiography patients, image processing is of major importance in achieving consistently excellent image quality for all anatomical areas. This is why Philips developed its unrivalled UNIQUE image processing software to give you superb results.

Optimal digital fluoroscopy imaging

The EasyDiagnost Eleva delivers superb results by optimizing every component of the imaging chain. Grid Controlled Fluoroscopy (GCF) and Intelligent Exposure (IQX) enhance accuracy, thereby contributing to greater comfort for both patients and staff. Other beneficial features include CCD technology for image detection, virtually flicker-free monitors, and Extended Digital Imaging for image processing and post-processing. All these features complement one another to support quality of care.

UNIQUE advantages in radiography

Whether you are working with Computed Radiography, Direct Radiography or CR/DR combinations, UNIQUE enhances the detail contrast and harmonizes the image quality for all digital radiography examinations. In combination with DoseWise, it also ensures low X-ray exposure.

High-definition detail

UNIQUE image processing is especially suited to radiography applications in which high-definition detail is absolutely essential. A high image resolution gives insight into fine bone structures, thereby contributing to overall image quality and improved analysis.

Proven quality

Integrated into the vertical stand and available as an optional component in the table is the same digital detector that we use in our Philips DigitalDiagnost systems. With thousands of installations worldwide, you are guaranteed proven quality.



Optimal processed digital radiography images are instantly available for review

Large image area

The flat digital detectors installed in the EasyDiagnost Eleva in-table version and the digital vertical stand each provide a large image area measuring 17" x 17" (43cm x 43cm). Using these allows for maximum patient coverage, making them suitable for use with a wide range of patient types, including bariatric patients.

Keeping it low

Achieving exceptional image quality is only half the battle. Doing so while exposing the patient to a low radiation dose is the true challenge. One of the most useful features on the EasyDiagnost Eleva is the Philips DoseWise technology, which gives you excellent image quality at low X-ray doses.

DoseWise

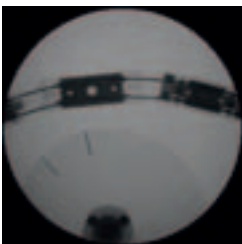
DoseWise helps you see what you're doing more clearly, while the advanced technology minimizes retakes. Automatic pre-sets and dose-limiting technologies reduce X-ray exposure while retaining optimal image quality.

Low X-ray doses, high benefits

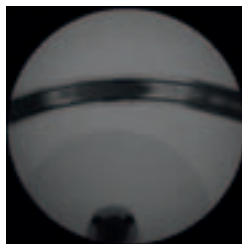
Compared to film-based imaging, Philips' UNIQUE image processing technology in combination with DoseWise can achieve dose reductions of nearly 50 percent. The exact dose reduction naturally depends on the patient and examination type, but is particularly valuable when dealing with your younger and more vulnerable patients.

Caring for patients

The radiation dose should always be kept as low as possible for all patients. And for certain groups, such as babies and young children, the dose of radiation used may have a considerable impact on their future health. When it comes to dose management, Philips really cares. And by integrating DoseWise into the EasyDiagnost Eleva, we help you care more too.



Grid Controlled Fluoroscopy



Conventional Fluoroscopy

Three innovations in one

DoseWise benefits you and your patients in three ways:

Smart beam management

The Eleva programming provides the right exposure and fluoroscopy settings according to the size of the patient, the area of examination, and the type of intervention – all customized to your diagnostic requirements. In addition, the X-ray beam can be managed with in-pulse control technology, Spectra Beam RF, pre-set collimation and a parkable grid.

Less radiation time

The EasyDiagnost Eleva uses unique technologies from Philips that limit radiation while maximizing image quality. Grid Controlled Fluoroscopy (GCF), a combination of in-pulse fluoroscopy control and grid switching, and Intelligent Exposure (IQX), the unique In-Pulse control concept for exposures, ensure that images contain all the details you need. In radiography, DoseWise helps you make excellent use of the radiation that reaches the digital detector due to its high signal-to-noise ratio.

More dose awareness

With DoseWise, dose measurements, calculations and reports create better dose awareness for medical facility staff and patients alike.



Supporting you now and into the



future



Technologies change, but the need for advanced yet cost-effective solutions will always be present. That's why Philips offers you solutions that can adapt to your requirements both now and in the future. We give you a good overview of all options through our Lifecycle approach so you always know the possibilities for integrating new technologies or upgrading your current equipment in other ways. Our aim is to ensure your investment is safe and that it provides a firm basis for developing your work in whichever way you choose.

Easily upgradeable

Every EasyDiagnost Eleva can be upgraded from a stand-alone solution to one of our room solutions as and when you decide. Whether you plan to integrate PCR or add a digital vertical stand or a digital in-table detector, you can continue working with a familiar and trusted system.

Services for life

The success of your organization depends on people. Philips Services are designed with that in mind - creating healing environments, developing your staff, improving your organization's performance, and increasing patient satisfaction. Depend on us. The resources, training, and support we offer enable you to focus on what's most important - your patients.

Use our expertise

By continuously studying workflow issues in key hospitals throughout the world, Philips has gained the knowledge to design practical solutions that solve everyday challenges. The EasyDiagnost Eleva and DRF Room Solutions use this philosophy to benefit professionals and patients alike.

**Philips Healthcare is part of
Royal Philips Electronics**

How to reach us

www.philips.com/healthcare

healthcare@philips.com

fax: +31 40 27 64 887

Asia

+852 2821 5888

Europe, Middle East, Africa

+49 7031 463 2254

Latin America

+55 11 2125 0744

North America

+1 425 487 7000

800 285 5585 (toll free, US only)

Philips Healthcare

Global Information Center

P.O. Box 1286

5602 BG Eindhoven

The Netherlands

Please visit www.philips.com/DRFroomsolution



© 2009 Koninklijke Philips Electronics N.V.
All rights are reserved.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

Printed in The Netherlands.
452296250201 * MAY 2009