New dimensions

Allura Xper FD20

New dimensions in

The world of interventional radiology and neuroradiology continues to expand with the introduction of new treatments and applications. While that growth is exciting, it also places tremendous pressure on interventional medical staff and their departments. Today, interventional teams treat more patients doing increasingly complex procedures that demand superb image quality and seamless information integration.

With the Allura Xper FD20, Philips affirms its commitment to the growth and expansion of the world of interventional health care and the safety of the people who make it possible.

Philips' flat detector system integrates the latest technologies in imaging and C-arm geometry. Its proven workflow efficiency and intuitive user interface with customizable settings make your Allura a true Xper system. In fact, it is everything your interventional department needs today and tomorrow.

The Allura Xper FD20 is perfectly suited to your changing needs. The evolution of interventional applications will open up new fields of treatment that will require new X-ray imaging technologies. Philips is committed to delivering those solutions to you by making your Allura Xper FD20 fully prepared for future innovations.

Geometry

X-ray Generator

User Interface

Image Detection

interventional imaging

Viewing

Unique system architecture ensures future-safe investment Philips' unique Allura architecture, based on "functional building blocks", guarantees your system's access to future innovations.

New dimensions in

image quality

As interventions increase in complexity, image quality becomes even more critical. In the course of a day's work, high-quality imaging saves time, ensures the best possible clinical results, and makes your department as productive as possible.

The Allura Xper FD20 Flat Detector's complete 2048 x 2048 pixel, imaging chain sets a new standard in image quality. It redefines image clarity with 154 micron pixels for higher resolution and superb contrast visualization. The image area, as large as 30 x 40 cm, can be adjusted to a square image as small as 11 cm for complex studies and interventions.

The Allura Xper FD20 imaging chain is perfectly suited for the most complex vascular, neuro-vascular and non-vascular interventions. Automated settings produce high-quality images with a low patient x-ray dose, freeing the user to focus on the patient and the procedure.

The imaging chain is supported by the powerful MRC X-ray tube, which ensures uninterrupted noiseless operation during your most demanding procedures and proven lower life-cycle costs.

Philips' LCD monitors are designed specifically for the demands of the interventional environment with high reliability and viewing quality. They ensure the details captured in the digital images are fully visible during display. The compact design enhances image viewing and reduces glare.

The Allura Xper FD20 Imaging Chain:
- High power MRC X-ray tube
- Latest generation collimator with beam shaping
- Next generation Flat Detector for improved image quality
- Advanced image processing automatically optimizes images for specific applications
- LCD monitors reduce eye strain with brighter display

New dimensions in

User friendliness is just one of the many reasons the Allura family of X-ray imaging systems are preferred by healthcare professionals worldwide. The Allura Xper FD20 takes user friendliness one step further with Xper technology. It optimizes exam efficiency and supports the best possible clinical outcome.

Xper Settings let you personalize the system according to how you work. Patient data management, exam scheduling and preparation, image acquisition, system movement, image post processing and archiving, all can be set according to your own way of working and for every clinician in your department.

The Xper User Interface lets you focus on what is important, your patient. It supports more confident and faster diagnoses with a design that is intuitive and ergonomic, making operation transparent. It is based on Vequion, Philips' next generation family of clinical IT

products, solutions and professional services. The touch-screen Xper Module gives you full control of your procedure. By adapting to your own personal work style, it saves time and reduces x-ray exposure.

The Allura stand is fully motorized and fast for unlimited projection flexibility with the solid stability required for advanced imaging like Allura 3D-RA*. But this speed is only possible if the patient is fully protected. Philips' BodyGuard technology uses a unique detection system to sense the patient's position. The user can take full advantage of Allura's high speed with total confidence.

* optional

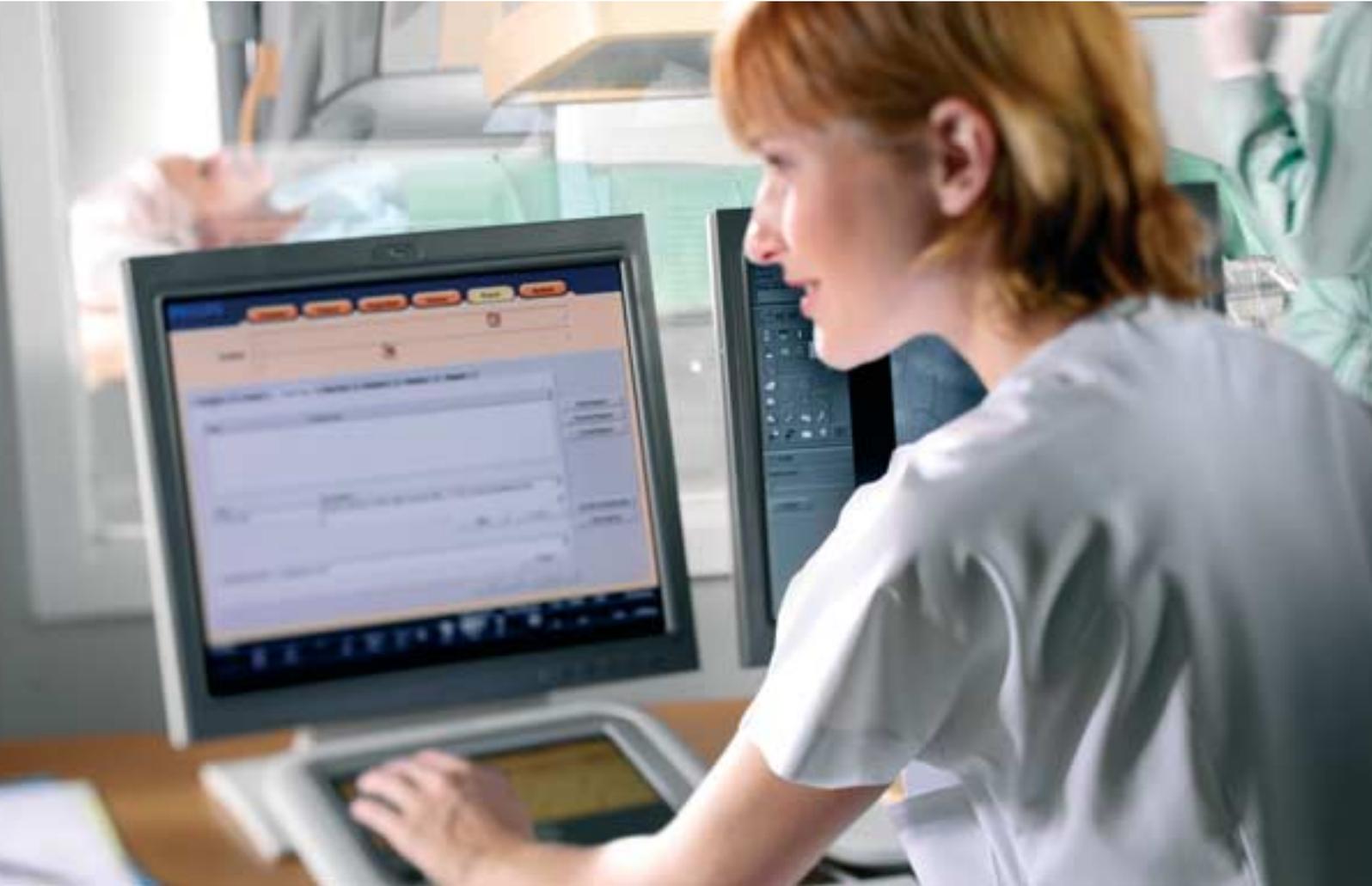**Xper Access lets you re-position the detector from portrait to landscape for:**
• Ideal image coverage
• Maximum patient accessibility
• Steep projection flexibility

personalized use

Xper Access
Freedom to select portrait or landscape.

New dimensions in

information integration

Xper Integration provides advanced functionality that boosts the efficiency of procedures and workflow before, during and after the intervention. It helps to increase diagnostic confidence, planning for patient management and can improve department processes.

The increased complexity of interventions requires more and more access to all diagnostic information, regardless of the imaging technique used.

Through Xper Integration, the user can easily access and view any type of medical image and patient information – from CT to MR and Ultrasound – during the intervention.

Xper Workspace* offers a unique possibility to enhance workflow efficiency by enabling true parallel viewing and processing of current and previous patient images, while you at the same time continue the intervention at the Allura Xper FD20, without loosing any performance. With direct access to your PACS system, Xper Workspace* fluently enables the use of multimodality images – e.g. CT and MR - before, during and after the examination to help guide the intervention.

Xper Integration and Xper Settings also make it easy to combine all relevant clinical images for PACS or CD Archiving in a single patient file. You can send the medical report with clinical images via email to referring physicians from your Allura Xper system.

These are just a few of the many examples of how the Allura Xper FD20 can re-engineer workflows for maximum productivity. Xper Settings can meet every user's needs by personalizing image archiving.

As space saving is a critical issue, Allura Xper FD20 features Xper Window Switch*. This window-in-window viewing feature can integrate PACS, RIS and Allura 3D-RA* and eliminate the need for additional monitors.

* optional

Seamless and effortless workflow with the Allura Xper FD20
- Xper Window Switch* for window-in-window viewing
- Xper DICOM Image Interface (including Query/Retrieve) for PACS archiving
- DICOM Print*
- DICOM CD Archiving*

New dimensions in

clinical performance

The Allura Xper FD20 is designed to meet your most demanding requirements for image acquisition and processing. A powerful set of tools, from DSA, Roadmapping, Dual Fluoro*, Bolus Chase* and Rotational Scan* to high quality 3D Angio*, is available to achieve excellent clinical outcomes consistently.

The increased complexity of interventions requires that you have your interventional tools available instantly at tableside. That's why the Allura Xper FD20 gives you an integrated 3D solution – the first for any interventional system. Conventional X-Ray systems require a separate system to process data and construct 3D images. Philips is the first to integrate this powerful feature into the X-Ray system itself, allowing 'real-time' 3D reconstructions. This has enabled new applications such as 3D Roadmapping*, high speed XperCT* and 3D mulitmodality matching*.

Complete integration of the Allura Xper FD20 and Allura 3D-RA* provides other key timesaving features. For example, 3D Automatic Position Control (3D-APC) allows the gantry to automatically move to the best interventional projection as shown on your 3D monitor. 3D Follow C-arc, exclusive to Philips, allows your 3D image to remain in sync with the 2D projection, automatically adjusting viewpoint as the gantry is repositioned.

* optional

Allura 3D-RA
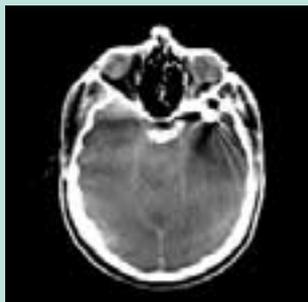
XperCT

State-of-the-art interventional tools
• High quality "real-time", 3D-RA reconstructions
• High speed XperCT*, providing CT like imaging in the angio suite
• 3D Roadmapping*, enhancing navigation with dynamic 3D Roadmap
• 3D Multimodality matching*, combining best of both worlds

New dimensions in

safety with DoseWise

Endovascular interventions increase the quality of patient care by providing an alternative to more invasive treatments. By shortening the length of a procedure with increased efficiency and productivity, the Allura Xper FD20 reduces X-ray exposures to medical staff and the patient.

Philips' DoseWise facilitates excellent image quality at a low x-ray dose for both the patient and the interventional team. DoseWise combines a wide range of technologies to achieve efficient radiation protection.

Xper Beam Shaping and Xper Fluoro Storage minimize X-ray dosage. Xper Beam Shaping positions the shutters and wedges on the last image without radiation. Xper Fluoro Storage continuously records fluoro sequences to keep track of important clinical information. The user can review, post-process and archive fluoro images and runs in the same manner as regular exposures. Pulsed fluoroscopy is standard on the Allura Xper FD20 with Grid Switch technology on the MRC X-ray tube. Low fluoro frame rates are also available to further reduce x-ray dose.

The legendary MRC X-ray tube is the backbone for SpectraBeam filtration. As one of the most advanced beam filtration systems, SpectraBeam from Philips dramatically reduces radiation for the patient and the interventional team.

All relevant dose information is available in the exam and control room, including accumulated and rate values of patient skin dose and dose area product. Dose information is also documented in the patient file.

Philips' advanced imaging techniques such as Bolus Chase*, Rotational Scan* and 3D imaging* further reduce contrast load and unnecessary radiation to the patient.

* optional

DoseWise
Perfect image. Perfect sense.
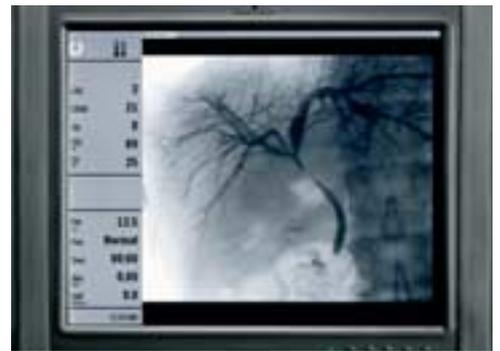
Here's how DoseWise guarantees a low dose with excellent image quality:
- MRC X-ray tube enabling SpectraBeam filtration
- Xper Beam Shaping
- Xper Fluro Storage
- Real time dose information
- Grid switched pulsed fluoroscopy and low fluoro frame rates

New dimensions in

Continuing to set the pace for clinical excellence, Philips has developed XperCT*. This remarkable technology provides soft tissue imaging capabilities in the interventional suite without the need to transport the patient. XperCT* opens up a new area of clinical applications aiding interventions. Designed for interventional use, XperCT* reconstructions take only three minutes from acquisition to display, which is especially important in critical situations when the patient's condition may have deteriorated. Philips offers a unique matching functionality easily combining XperCT* information with high-resolution 3D vessel information. With this technique, areas of bleeding or other soft tissue features can be related to the vessel tree.

Enabled by the integrated 3D approach, Philips offers the unique 3D Roadmapping* functionality.

This patented Philips technology ensures that the 3D image is registered with the system and overlaid with live 2D fluoroscopy providing a sustainable roadmap. The clinical advantages for this technology can be significant for applications such as real-time catheter navigation and monitoring coil delivery. The 3D roadmap is dynamic; providing the freedom to change field of view, rotation and angulation parameters and source to image distance.

3D multimodality matching* is designed to integrate 2D and 3D morphological or physiological MR or CT datasets with 3D angiographic information. This provides an integrated view of patient data where the merged data sets increase diagnostic confidence and patient management for aneurysms, AVM's, stroke, as well as neurosurgery and stereotactic neurosurgery treatment planning.
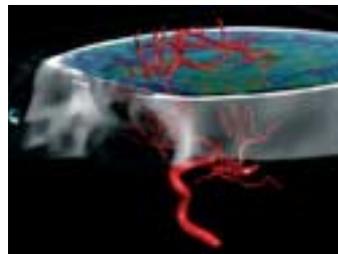
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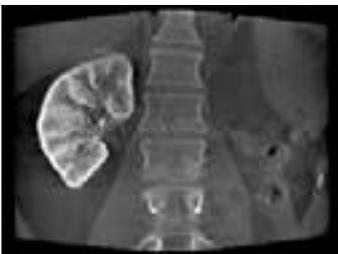
XperCT

3D Roadmap

3D multimodality matching

interventional 3D

New dimensions in

With more than 2,000 Allura systems in use worldwide, it is clear that Philips has become the trusted choice of radiologists and neuroradiologists around the globe. Why? Because Philips has the vision to develop technology that will carry you into the future, and the resources to support it.

How do you measure reliability? If you can start procedures when you arrive in the morning and end the day without equipment-related interruptions – that's reliability. Allura has been tested in the busiest institutions in the world, passing with flying colors. One reason is workhorse technologies like Philips long-lasting MRC X-ray tubes that enable virtually uninterrupted operation and our Flat Detector, which provides constant image quality over time.

The Allura Xper FD20 can be customized to fit your needs. Our wide choice of options lets you configure a solution that addresses all of the variables, from your application mix to your budgetary requirements. Designed to grow with you, the Allura Xper FD20 can be upgraded so that it remains a productive, long-term investment.

The Allura Xper FD20 is also protected by Philips powerful customer support organization. Our dedicated people and flexible programs in training, service and continuing education will keep your site functioning at optimal levels. Remote support capabilities, for example, allow us to identify potential problems before they cause unexpected downtime.

To learn more about the Allura Xper FD20 system and how its powerful capabilities can transform your practice, talk with your Philips representative or visit our website www.medical.philips.com.

commitment

Philips Medical Systems is part of
Royal Philips Electronics

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products? Please do not hesitate to contact us.
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