Your open door to advanced interventions

Philips Allura Xper FD20 for interventional radiology
Your open door
The role of interventional radiology is continually expanding. Almost daily, new treatments and new applications are being pioneered. And although this expansion is exciting, it means that you are becoming more versatile than ever before - performing an increasingly wide variety of complex procedures.

As a world leader in X-ray imaging Philips has established a worldwide clinical network of partners. Together with our work with customers this has given Philips a deep understanding of your changing needs, resulting in truly meaningful innovation that helps move forward and expand the role of interventions.

That is why Philips introduces the next generation Allura Xper FD20 system. It is optimized for all the different procedures that you are now facing, ranging from vascular, non-vascular, embolization to interventional oncology procedures.

It combines superb image quality with advanced interventional tools, seamlessly integrated in the clinical workflow and making your Allura a true Xper system. It gives you enhanced opportunities with optional Live 3D guidance to even further expand your range of interventional procedures.

The integrated workflow, intuitive user interface, and personalized settings enable you to easily take full advantage of all the Allura’s capabilities. And, for a broad variety of procedures, to assist you in providing excellent clinical care effectively and comfortably.

This all adds up to an open door to do more advanced interventions in your angio suite, helping you to grow your practice.
Imagine you could perform highly advanced clinical procedures in your own angio suite, with all the relevant information available where and when you need it. Now you can, because the Allura Xper FD20 combines superb image quality and advanced interventional tools with an integrated workflow solution. With the Allura you can diagnose and treat more patients in your suite than ever before. That’s because it’s designed to support all of today’s interventional procedures, and it makes a positive impact at every stage: from preparation and planning to archiving and reporting.

**Simplified preparation**
Planning your procedure is made faster and more convenient than ever thanks to the system’s ability to show you all previous images - including MR, CT and US datasets. System set-up is also easier and faster, as it sets itself automatically to your own personalized settings.

The geometry-reset function automatically realigns the system to the default position within seconds.

Furthermore, the high-quality LCD monitors are suspended from the ceiling and are easily placed at your preferred position for optimal viewing.

**Enhanced diagnosis**
You can evaluate the smallest details and vessels with extreme clarity combined with Philips’ unique 2k x 2k imaging chain. Diagnosis is further enhanced with high quality ‘real-time’ reconstructions, allowing you to review vasculature in 3D with a single contrast injection.

In addition, the high-resolution 3D vessel information can be fused with CT & MR datasets enhancing clinical insight. And with the remarkable XperCT technology, developed by Philips, you can evaluate soft tissue and boney structures right in the angio suite.

Open up a new era in your angio suite
Advanced treatment
During treatment you have high-quality fluoroscopy and advanced roadmapping capabilities. Navigation can be further enhanced with the Dynamic 3D Roadmap, which can result in reduced contrast medium and X-ray dose. ViewForum provides immediate access to multi-modality information at tableside for reference during the intervention. Another important efficiency feature is the Xper table’s automatic positioning – bringing the table back to the reference position with a single command.

With XperGuide, you can perform advanced non-vascular Live 3D guided needle procedures in your angio suite. XperCT data will help you get to the exact spot quickly and efficiently.

Throughout your diagnosis and treatment, your patient is cared for by DoseWise: the Philips philosophy for minimizing X-ray dose while ensuring excellent image quality.

Speeding up archiving & reporting
With ViewForum, post-processing can be performed while a patient is being examined and treated, thus improving lab efficiency. You can also send the medical report with images via email to referring physicians straight from your Allura Xper system. In short, the Allura Xper FD20 can truly open a new era of advanced clinical solutions for your angio suite, helping to grow your practice. What’s more, thanks to the advanced automation and systems integration, everything is easy to use and deployed in seconds. Just what you would expect from a company dedicated to sense and simplicity.
Do more, more easily

To meet the challenge of the increasing variety of delicate procedures, you need an X-ray system that is both advanced and easy-to-use. One that is flexible and can be controlled intuitively. Only then can you fully focus on your patient – not the system. That is why we have done everything possible to ensure that the advanced technology within the Allura Xper FD20 is easily accessible. Thus creating an environment that is comfortable for patients and staff.

**Easy positioning and optimal 3D performance**

The Allura Xper systems are designed for fast, flexible imaging. The rock-solid C-arm provides excellent patient access and also enables you to perform rotational scans with extreme precision - within seconds. And you can take full advantage of the Allura's speed with total confidence, thanks to the BodyGuard detection system, which senses the patient's body.

**Intuitive controls at tableside simplify operations**

The Allura Xper system enables you to focus on the patient with a user interface that is intuitive and ergonomic, making system operation transparent. The Xper Module gives you full command of the system at tableside: from selecting the protocols you need to using the advanced interventional tools, and streamlining procedures.

**Easy patient access**

The Xper table, with its feather-light, free-floating capabilities, 250 kg patient weight capacity, and tabletop memory position make patient positioning easier than ever. Together with its true iso-centric tilt and cradle capabilities it gives you all the flexibility you need for a broad range of procedures.

**Personalization streamlines interventions**

With Xper Settings, your personal preferences and protocols are pre-programmed, saving you time and effort during procedures. Everything from patient data management, exam scheduling, image acquisition, system movement, image post-processing and archiving – can be set according to your own way of working and for each of the clinicians in your department.
Changing your practice with Live 3D guidance

Philips continues to set the pace in interventional 3D tools by expanding the range of applications with Live 3D guidance. This helps make your needle and catheter navigation easy and fast, and will change your practice by expanding the number and type of interventions you can perform in your angio suite. To help you take full advantage, tableside control is further enhanced by the advanced positioning capabilities of the Xper Table.
Live 3D needle guidance with XperGuide
XperGuide brings needle procedures back in to your interventional suite. It combines live fluoroscopy with the Allura’s XperCT soft tissue imaging capabilities. By overlaying the two images on a single display it provides visualization of needle, target and surrounding anatomy. It is ideal for a variety of interventional procedures including biopsies, drainages, and vertebroplasties.

Benefits of XperGuide:
• Full projection freedom for planning insertion angles
• Flexible, automatic gantry adjustments for easy positioning
• Real-time imaging to visualize one or more needle targets
• Requires no additional navigation or tracking devices to assist in procedure guidance.

CT-like imaging in the intervention suite with XperCT
XperCT gives you soft tissue imaging capabilities right in your interventional suite, and in many cases will eliminate the need to transport the patient to a separate CT room.

High-quality XperCT opens up a new area of clinical applications allowing visualization of low contrast areas down to 5 HU. Its flexible acquisition protocols allow for optimal visualization of the targeted anatomy with frame rates of up to 60 frames per second, while the XperCT slice acquisition provides collimated acquisition to help reduce patient X-ray dose.

The XperCT data is reconstructed and displayed in the exam room in less than a minute – typically between 25 and 60 seconds. You can view your XperCT datasets and manipulate them in the control room as well as the exam room, supporting treatment planning, intra-procedural visualization and post-procedure result assessment.

You can also automatically register your XperCT volumes with Allura 3D-RA data sets allowing visualization of areas of bleeding or other soft tissue features in relation to the vessel tree.

Live 3D guidance through tortuous vasculature with Dynamic 3D Roadmap
Dynamic 3D Roadmap brings roadmapping procedures to the next level by matching live fluoroscopy with 3D vessel information, supporting catheter and guide-wire navigation. The 3D roadmap is dynamic and allows for changes at tableside in the gantry projection, source-to-image distance, and field of view. The 3D roadmap matches this in real-time, with no delays. It is designed to ease navigation through tortuous vasculature and it helps to reduce contrast medium and X-ray dose. The integrated Xper table provides additional flexibility to the procedure enabling you to easily recall the Dynamic 3D Roadmap position.

‘Real-time’ high-resolution 3D imaging throughout the body with Allura 3D-RA
The Allura Xper systems are designed to integrate 3D functionality, providing reconstructions that can assist in better, more confident interventional decisions. To optimize workflow it includes a full range of analysis and measurement tools, such as automated vessel analysis and aneurysm visualization, for vessel evaluation at tableside. Workflow is further enhanced because the stand’s position can automatically be synchronized with the 3D volume.

Advanced image fusion with 3D Multimodality Matching
The Allura 3D-RA volume can be matched with pre-operative CT and MR datasets, enhancing surgical planning and enabling improved procedure management.
Visualization at its cutting edge

As interventions increase in complexity and medical technology advances rapidly, image quality becomes even more critical. In the course of a day’s work, high-quality imaging saves time and enhances patient care.

2k x 2k imaging for better clinical insights
The Allura Xper FD20, with its rotatable 30 x 40 cm flat detector has set a new standard in image quality. Its groundbreaking 2k x 2k digital imaging chain takes full advantage of the flat detector technology, visualizing even the smallest of details. Its resolution is four times greater than that of conventional systems, to enhance clinical insight. Especially helpful in evaluating small vessels and structures and visualizing stents, coils and embolization materials.

Powerful imaging tools to support clinical performance
Designed to meet your most demanding imaging requirements and to help you achieve excellent clinical care, the Allura Xper FD20 provides a powerful set of diagnostic and interventional tools. These include Subtracted Bolus Chase, Rotational Angio, Interventional 3D, Trace Subtract Fluoroscopy, Dual Fluoro, and SmartMask functionality.

Fluoroscopy and Subtracted Fluoroscopy image quality is greatly enhanced by the Philips unique Xres image processing algorithm. Xres optimizes image quality in real-time by simultaneously reducing noise levels and enhancing contrast areas. This enables you to perform complex and delicate procedures with greater confidence.

Perfect image. Perfect sense.
Perfect image quality is essential in today’s angio suite. But so too is minimizing X-ray and contrast doses. Fortunately, Philips has applied its unique ‘DoseWise’ philosophy of X-ray dose management to help provide low X-ray dose levels while producing excellent image quality.

The Allura Xper system has SpectraBeam technology in place to generate images using low X-ray dose. It filters out soft radiation and is the most important factor in overall X-ray dose reduction. Uninterrupted virtually noiseless operation is possible, even during your most demanding procedures, thanks to the powerful MRC X-ray tube, which is the backbone for SpectraBeam filtration.
The increasing complexity of procedures is compounded by the pressures on you and your team to perform more procedures. So, more than ever, you need easy and fast access to all relevant information and clinical data, preferably integrated with departmental IT systems. That is why Philips provides Xper Workspace, an integrated environment that brings together all the information you need, where you need it. So you can manage and improve your procedures and departmental efficiency with ease.
Streamlined patient and procedure management
- Access to previously acquired diagnostic data from CT, MR and US
- Operational integration with HIS/RIS and PACS to save space in the control room
- Parallel working allows for post-processing of a patient in the control room, while treating another patient in the exam room
- Medical reports sent with clinical images to referring physicians
- Automatic archiving of clinical images to flexible destinations.

Integrated interventional environment
- Access and control of multi-modality information in the exam room.
- Integration with Philips Intelliview for patient monitoring
- Integrated hemodynamic monitoring and electronic clinical reporting as well as billing and inventory management by Xper Information Management
- Integration with in-room Ultrasound equipment
- Integration with 3rd party IVUS equipment.
An open door to the future

Even with the most advanced technology, the human factor remains critical. Turn to Philips ‘Ambient Experience concept’ and you will create the relaxing experience your patients will appreciate.

More patient comfort, less stress
At Philips we obviously focus on the system itself, but then we look further. We consider the total interventional experience and we have created the unique ‘ambient experience concept’. It can help maximize comfort and minimize stress for both patients and staff by using a combination of lighting, music and architectural elements to create a uniquely soothing and comfortable environment – in the waiting room, in the procedure room, and in the control room. This revolutionary concept is based on a deep understanding of patient and medical staff needs: insights that help you create a more relaxing experience for your patients, a better working environment for your staff, and a unique competitive differentiator for your healthcare facility.
With more than 5,000 Allura systems in use worldwide, Philips has become the trusted choice of radiologists around the globe. Why? In one word: reliability.

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.

The Allura Xper FD20 is especially reliable in the long term. Our wide choice of options enables us to configure a solution that perfectly addresses all your needs, your application mix, and your budgetary requirements. It's also designed to grow with you, with timely upgrades so that it remains optimally productive in the years to come.

Keep your technology fresh
Choose Philips Technology Updates, so you can keep your system fresh with an update of the purchased interventional tools like Allura 3D-RA or XperGuide. You and your staff get free clinical education with each update, ensuring you stay as advanced as your system.

Support in every season of system ownership
Philips Customer Services works for you in all the seasons of system ownership – from Planning through Start-up, Peak Usage and Renewal – by helping you simplify your operations in ways that let you spend more time focusing on what is most important: the needs of your patients. Philips Customer Services is service that works for you in all the seasons of ownership.