Insight where it matters

Philips Allura Xper FD20/10 and Allura Xper FD20/20
for interventional neuroradiology
Insight with highly advanced technology

As a neuro-interventionalist, your cases are among the most demanding in the field. You routinely perform complex procedures on seriously ill patients under critical conditions. To meet the standards of clinical care, you demand gold standard performance from your interventional system.

In answer to your and your colleagues’ demands Philips introduces the next generation of Allura Xper biplane systems. These are optimized to provide you with better insight so you can be more confident of making the right decisions with optimal risk management.

The leading edge Allura Xper family combines superb flat detector image quality with advanced interventional tools. With Philips’ 2k imaging you can evaluate small vessels so you can move through the procedure with confidence. Allura 3D-RA helps to improve treatment planning, providing you with valuable 3D vessel information, where and when you need it.

Risk management is enhanced with XperCT. This technology provides CT-like imaging during the procedure right in the angio suite. You can push the applications envelope with Dynamic 3D roadmap and XperGuide providing you with Live 3D image guidance capabilities.

The Xper technology that is at the heart of the Allura Xper family allows you to streamline the clinical workflow to match your preferences, so you can focus on the patient – not the system. Multi-modality information integration is provided with Xper Workspace to further enhance clinical insight during the procedure.

Philips offers a choice of systems with the Allura Xper FD20/10 and Allura Xper FD20/20, with its two large detectors, to match your clinical practice. Whichever system you choose the Allura Xper family sets a new standard in neuro-interventional imaging.

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Insight with highly advanced technology
Confidence at every stage

Designed to give you enhanced insight, the new Allura Xper family helps you make crucial decisions at every stage of your procedure: 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 at tables – including MR, CT and X-Ray datasets. Patient preparation is also easier and faster, you can now apply your preferred settings at the touch of a button. The ‘geometry reset’ function automatically realigns the system to the default position within seconds.

**Enhanced Diagnosis**
You can evaluate small details and vessels with extreme clarity taking full advantage of Flat Detector technology combined with the 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 remarkable XperCT technology, developed by Philips, you can evaluate soft tissue and boney structures right in the 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 less contrast medium and X-ray dose. With ViewForum or your PACS workstation linked to MultiVision, immediate access is provided to multi-modality information at tableside. Another important efficiency feature is the Xper Table’s automatic positioning – bringing the table back to the reference position with a single command.

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

**Speeding up Archiving & Reporting**

With ViewForum, post-processing can be performed while you examine and treat your patient, 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 biplane series 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.
Visualization at its cutting edge

As interventions increase in complexity, image quality becomes even more critical. In the course of a day’s work, high-quality imaging saves time and assists with clinical decisions.

2k imaging for superb image quality
The Allura Xper systems take full advantage of flat detector technology to offer you superb clinical images. They incorporate a complete 2k imaging chain with four times more information than with conventional systems. With its 2k biplane imaging capabilities it redefines image clarity, visualizing very small vessels and structures.

Perfect image. Perfect sense.
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 for low dose levels while producing excellent image quality. The powerful MRC X-Ray tubes ensure uninterrupted noiseless operation while Spectrabeam technology filters out soft radiation; the most important factor in overall X-ray dose reduction. Additional technologies to further reduce radiation include:
- Xper beam shaping to position shutters and wedges without using radiation
- Xper Fluoro storage to document and review important phases of the procedure
- Grid switch pulsed fluoroscopy for the sharpest X-ray pulses.

Powerful imaging tools to support clinical performance
Designed to meet your most demanding imaging requirements and to help you achieve excellent patient care consistently, the Allura Xper systems provide a powerful set of advanced imaging tools. These include Trace Subtract Fluoroscopy, Dual Fluoro, and SmartMask functionality for improved guidance during interventional procedures. 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. Furthermore high speed subtracted acquisition up to 60 frames per second is possible to evaluate blood flow in e.g. AVMs.
Pushing the boundaries in interventional 3D

Philips continues to set the pace in interventional 3D imaging by expanding the range of applications with Live 3D image guidance to enhance catheter and needle navigation. These groundbreaking tools have all been developed in close cooperation with our worldwide clinical network. This enhances superb imaging performance, instant availability of results, seamless integration, and full tableside control – all for better clinical insight and enhanced navigation. Moreover, you can deploy any of these tools quickly and efficiently, since they are fully integrated into the Allura Xper workflow.
‘Real-time’ high-resolution 3D imaging with Allura 3D-RA

Allura Xper systems are designed to integrate 3D functionality, providing almost real-time reconstructions that assist with more confident interventional decisions. To optimize workflow they include a full range of analysis and measurement tools, such as automated vessel analysis and aneurysm analysis, for vessel evaluation at bedside. Workflow is further enhanced because the stand’s position can automatically be synchronized with the 3D volume.

Advanced image fusion with 3D Multimodality Matching

With 3D Multimodality Matching the Allura 3D-RA volume can be matched with pre-operative CT and MR datasets, enhancing surgical planning and improved procedure management such as in stroke treatment.

Live 3D image 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 bedside in the gantry projection, source-to-image distance, and field of view. The 3D roadmap matches this in real-time, with no delays, and is designed to ease navigation through tortuous vasculature while reducing 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.

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. The 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 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 needle guidance with XperGuide

XperGuide combines live fluoroscopy with the Allura’s XperCT soft tissue imaging capabilities. By overlaying the two images on a single display it provides better visualization of needle, target and surrounding anatomy. It is ideal for a variety of interventional procedures including biopsies, drainages, and vertebroplasties.

• Full projection freedom for planning insertion angles
• Flexible, automatic gantry adjustments for easier needle positioning
• Real-time image guidance to one or more needle targets
• Requires no additional navigation or tracking devices to assist in procedure guidance.
Xper lets you focus on

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. Only then can you fully focus on your patient – not the system. The Allura Xper systems take user friendliness one step further with Xper technology, allowing you to streamline your clinical workflow to your preferences.

**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 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, makes patient positioning easier than ever. Together with its true iso-centric tilt and cradle capabilities it gives you flexibility in patient positioning. Patient access is further improved with the unique double C-arc concept on the lateral stand creating optimal space for the interventional team. Patient access is improved with the compact design of the flat detector allowing for positioning close to the head even with a large lateral detector. With the lateral detector mounted on the doctor’s side, scatter radiation towards the operator is reduced.

**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 also for each of the clinicians in your department.
the patient
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’s 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.
your patient data

Streamlined patient and procedure management
• Access to previously acquired diagnostic data from CT, MR and X-ray
• 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 for fast and accurate decisions
• 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.

Hospital Information System (HIS)
Radiology Information System (RIS)
Integration for efficient workflow

Xper IM
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 maximizes comfort and minimizes 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 ownership**

Philips Customer Services works for you in all the seasons of 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.