



**PHILIPS**

Image guided therapy

*Azurion 3*

With **Azurion**,  
performance and superior  
care become one

Treating patients. It's what you do. You strive every day to provide the best patient care, quickly and reliably, no matter which procedure you are performing. So try to imagine an increased number of procedures, for more patients, carried out more consistently and more efficiently with fewer preparation errors. Workflow can be optimized and performed on an intuitive platform designed to make your day a lot easier.



Azurion enables you to provide superior care



Azurion helps you optimize your lab performance



An easy-to-use platform supports you in quickly and easily performing diverse procedures

This is what Azurion 3 stands for. This new-generation image guided therapy platform allows you to easily and confidently perform a high volume of procedures with a unique user experience, helping you optimize your lab performance and provide superior care. Azurion 3 is powered by ConnectOS, a real-time multi-workspot technology designed specifically for the Azurion interventional suite. Intensive user testing has guided the entire development process to ensure the system is easy to use.

With this latest Philips innovation in image guided therapy, we reinforce our commitment to you and your patients. Azurion 3 is tailored to your clinical needs and your business ambitions, while extending your access to new innovation and capabilities as your goals change. Be ready for the future with Azurion 3.



With Azurion we help you to  
**optimize your lab performance**



To address rising cost pressures, how can I do more with the same staff and equipment in my interventional lab?

**Get more done through Instant Parallel Working**

The Azurion 3 interventional suite has been specifically designed to save time by enabling interventional team members to do two tasks at the same time in the exam room and control room - without interrupting each other. As an example, while fluoroscopy/exposure is taking place, a technologist in the control room can instantly review previous images from the same patient, prepare the next exam or finish reporting on another patient. Quantitative analysis can be done in the control room while work continues in the exam room.

In this way the interventional team can get more done, leading to high throughput and fast exam turnover.

**Accelerate set-up**

The Azurion 3 uses a range of ProcedureCards to help accelerate and standardize system set-up for all your cases. The system will automatically select the appropriate ProcedureCard(s) based on the RIS/HIS/CIS code of the scheduled procedure.

**Quickly adapt viewing for every case**

The exam room monitors are suspended on a monitor boom, so they can be positioned for comfortable viewing for any given intervention. This helps you handle a broad mix of procedures with greater ease.

In a simulation study with over 60 users globally,

**91%** believe that the system will help reduce procedure time<sup>1</sup>

# Azurion enables you to **provide superior care**

As patient volumes rise and procedures evolve, how do you maintain high standards of quality and safety in your healthcare facility?

## **Improving exam consistency**

In addition to helping optimize and standardize routine tasks, the ProcedureCards can increase the consistency of exams by offering presets. These can include default protocols and user-specified settings on the procedure, physician or departmental level. So you always have the right settings for each exam and physician. Typical settings range from X-ray imaging parameters and geometry position to automatic position control and patient orientation. In addition, hospital checklists and/or protocols can be uploaded into the ProcedureCards to help safeguard the consistency of interventional procedures and prevent preparation errors.

## **Insightful image guided therapy**

We have pioneered a steady stream of innovations in image guided therapy that help clinicians determine the most advantageous course of treatment with confidence. These options include 3D-RA (Rotational Angiography), StentBoost, CardiacSwing and many more. All these advanced interventional tools are seamlessly integrated in the Azurion 3 to support your clinical workflow

In a simulation study with over 60 users globally,

**100%** believe that the possibility to display Checklists & Protocols on the system will help minimize preparation errors.<sup>1</sup>





High standards of safety and  
**low radiation  
exposure**

As patient volumes rise and procedures evolve, how do you maintain high standards of quality and safety in your healthcare facility?

**Managing dose efficiently**

DoseWise solutions help you take control over patient care, staff safety, and regulatory compliance with a comprehensive suite of radiation dose management tools, training and integrated product technologies.

The Azurion 3 in particular offers several features that have a positive impact on dose. The MRC200+ X-ray tube incorporates SpectraBeam filtration, which helps maintain image quality at a low dose. Our clinically optimized X-ray protocols, low-dose protocols, fluoro choices and fluoro all allow you to tailor your system by image quality and dose to meet your specific requirements.

**Preparing your next run without fluoroscopy**

The Zero Dose Positioning function let's you pan the table and change the table height or field-of-view on your last image. This means you can already see the effect of moving the table or changing the field-of-view on your region of interest to prepare your next run without using fluoroscopy.

**Managing dose across your organization**

Philips DoseAware provides instant, time-stamped feedback in the exam room so you can immediately adjust working habits to decrease radiation exposure with your staff.

A critical component in providing exceptional patient care is strong radiation control and management. We can help you create a comprehensive dose management program with DoseWise Portal at its core. This turnkey dose management solution gives you control over patient dose and staff occupational dose. It increases transparency across the entire enterprise and enables you to make data-driven decisions concerning quality initiatives and radiation management.

# Outstanding user experience

Studies have documented the adverse impact that poor usability, design and ergonomics can have on medical procedures and patient safety.<sup>2</sup> How can you make it easy for your staff to use imaging solutions?

## **We do this by:**

Giving you cutting edge guidance, ease of use and responsiveness in our new standardized Azurion user interface. It is designed to anticipate what you need, when you need it, to make procedures flow intuitively and easily.

An extensive user-centric design process was carried out for the Azurion system. Clinical users tested the user interface at different stages during the iterative development process to ensure that the system would be easy to use, learn and remember. The new workflow approach was further evaluated by 61 physicians and technologists in Europe and the USA in a simulated environment. The participants had experience using various brands of interventional X-ray systems.

## **Designed around you and your procedure**

All Azurion systems and interventional tools use the same standardized user interface which makes it easy to train and rotate staff. Use has been further simplified through a sophisticated help function. You can access digital user guides with one click for on-the-spot assistance.

## **The next step in ease of use**

All controls feature the latest advances in ease of use. Task guidance, for example, means the user interface button appears only when needed, allowing you to concentrate on the image.

On screen, you can easily see information against the distinctive black background where active applications are highlighted. Backlit icons and distinctly shaped buttons on the Control Module promote intuitive operation. All controls are designed for easy cleaning to meet stringent sterility requirements.

In a simulation study with over 60 users globally, users gave the Azurion a score of 87 on the System Usability Scale (SUS),<sup>3</sup> which is in the top 10% of the scale.<sup>4</sup>

In a simulation study with over 60 users globally,

**96%** are satisfied  
with how easy it is  
to use the system<sup>1</sup>



The new-generation  
**image guided  
therapy platform**

“The bigger field size on the FD12" (30 cm) is **perfect for navigating** towards the coronaries and for left ventricle imaging. You can also see bigger parts of the aorta with this detector size.<sup>5</sup>”

Dr. Joakim Sternvall, TAYS Heart Hospital Helsinki, Finland

Azurion is the new-generation image guided therapy platform that provides a foundation for today and the innovations of tomorrow. It is backed by innovative services and support that offer a lifetime of benefits, reinforcing our commitment to you and your patients.

**Enjoy a lifetime of benefits**

The entire Azurion family is designed around a single, standardized hardware and software platform. New solutions and innovations are added as they evolve. And as your requirements change you can easily integrate additional functionality and third-party applications. Together, this approach can extend the utilization and lifetime of your suite.

**Work efficiently and confidently**

This productive lifetime starts with our robust floor-mounted stand and a choice of detectors to fit your case mix. The floor stand can be ergonomically positioned to facilitate staff comfort and efficiency during lengthy procedures.

**Enhance visibility for dynamic cardiac structures**

With its new 12" Flat Detector, the Azurion 3 provides high-resolution imaging over a large field-of-view (FOV). This is particularly beneficial in cardiac interventions. The entire coronary tree can be visualized in a single view with minimized table panning. Thanks to the compact design of the 12" flat detector, a full range of projection angles, including the spider view, can be made.

**Cover the vascular anatomy you need**

Thanks to the next generation 15" detector your vascular procedures can benefit from excellent image quality. It gives you access to a wider anatomical coverage to give you the opportunity to perform a variety of procedures. Combined with the superb Philips image processing chain, you can see small vessel details with exceptional clarity. You can also select your field of view, giving you the insight you need to diagnose and treat patients with precision and confidence.

The Azurion 15" Flat Detector combined with the swivel option supports head-to-toe imaging during interventions. This, coupled with three-side positioning provides flexibility and allows patient access from all sides. There is an option to pivot the table for radial approaches.



## High productivity combined **with low cost of ownership**

Flexible financing, advanced service and support help you maintain peak performance and deliver cost-efficient care.

### **Make the most of every day**

Staying on top of today's complex healthcare environment is challenging enough without a constant concern of keeping your systems up and running smoothly. We are dedicated to tackling whatever issues you may have. We offer professional support through our flexible RightFit support options and our experienced network of over 7,000 field service engineers.

A key driver of RightFit is Philips Remote Services, which aim to help you maintain peak performance of your equipment, deliver uninterrupted procedures and address your most complex technical problems before they impact clinical workflow. For instance, you can plan the most suitable time slot for remote service to avoid disturbing patient care.

Next to matching your service coverage to your business needs, our RightFit service portfolio helps you to grow as your needs change. It provides software and hardware updates to continually advance your performance. You can upgrade to new technologies,

interventional tools and system functionality to keep growing and evolving your services in the future.

### **Unlock your potential**

Philips Healthcare Education can help unlock the full potential of your staff, technology and organization to meet new challenges through innovative and evidence-based healthcare education. Our comprehensive clinical, technical and business-related courses are designed to help enhance operational efficiency and provide high quality patient care.

### **Boost lab utilization**

If your facility is looking for ways to more effectively manage large volumes of procedures, while lowering costs, our dashboards can help you assess your current performance and identify opportunities to increase your lab utilization. This can result in more meaningful and sustainable improvements for your lab.

Next to the utilization dashboards, our healthcare consulting can help you further enhance the efficiency and efficacy of your care delivery process.





**Some features are optionally available.**

**Not all features are available on all systems. Please check with your Philips representative for local availability.**

1. Results obtained during user tests performed in the period of November 2015–February 2016. The tests were designed and supervised by Use-Lab GmbH, an independent and objective usability testing engineering consultancy and user interface design company. The tests involved 31 US-based clinicians (16 physicians and 15 technicians) and 30 European-based clinicians (15 physicians and 15 technologists), who performed procedures using Azurion in a simulated interventional lab environment.
2. Gurses A, Ozok AA, Pronovost PJ. Time to accelerate integration of human factors and ergonomics in patient safety. *BMJ Qual Saf.* 2012;21:347–51.
3. Sauro J. Measuring Usability With the System Usability Scale (SUS). Article published on the web. 2011; Feb. Downloaded 5 Aug 2016. <http://www.measuringu.com/sus.php>
4. Sauro J. A practical guide to the System Usability Scale (SUS): Background, benchmarks & best practices. Denver, CO: Measuring Usability LLC. 2011.
5. In comparison to Allura Xper FD10 system

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