



**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 consistently and 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 our Image Guided Therapy System Azurion 3 stands for. It 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.

As the interventional space evolves, we continue to integrate essential lab systems and tools onto the Azurion platform for a seamless user experience. The Azurion integrated lab gives you control of all compatible applications from a single touch screen at table-side, to help make fast and informed decisions without breaking sterility.

With Azurion's industry leading image guided therapy platform, we reinforce our commitment to you and your patients. Azurion 3 is tailored to your clinical needs and 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



In a simulation study with 23 users,  
**83%** of users think the enhanced touch screen module with multimodality functionality will enable faster procedures by reducing staff movements and clicks to use different clinical applications.<sup>1</sup>

Looking for ways to simplify workflow for your interventional staff? Azurion's integrated lab offers total control at table side and many other time saving improvements so your attention is free for the task and patient at hand.

### Azurion allows you to run an entire case without breaking sterility

The touch screen module and FlexVision XL option offer total control within the sterile field. Run an entire case table side as you quickly diagnose, navigate, annotate and measure to your exact specifications, even when wearing gloves and under a sterile drape. Table side control saves you from having to go to the control room to access applications.

### Get more done through instant parallel working

The Azurion 3 image guided therapy system 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, for higher throughput and exam turnover.

### Simplify workflow

Enter patient information once and it is automatically transferred to connected applications to reduce data entry errors. To save time, IntelliSpace Cardiovascular<sup>2</sup> and IntelliSpace Portal launch automatically with the specific patient on the exam room monitor. Azurion's full system automatic position control (APC) gives you more flexibility to recall the stored position of the C-arm, table and other parameters for a particular image to simplify positioning.

### Quickly adapt viewing for every case

The FlexVision XL\* is designed to enhance efficiency during interventions and provide full control at the table side. With it, you can connect 12 different sources and display 8 sources at the same time. This gives you the flexibility to support the growing complexity and mix of procedures in your lab with greater ease.

### Safeguard clinical performance and enhance lab security over time with Windows 10 platform

The standard Windows 10 platform can help support compliance with the latest security and standards to protect patient data. It can also accommodate new software options to extend your system's clinical relevance over time.

# Azurion enables you to provide superior care

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

## **Clinical demands are getting more specific.**

### **So are we**

Our clinical suites are tailored to meet your specific challenges, while offering you the flexibility to carry out procedures in the easiest, most efficient way.

We have a flexible portfolio of integrated technologies and services to support various interventions.

## **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 can always have the right settings for each exam and physician. These settings can include X-ray imaging parameters, geometry position, automatic

position control, patient orientation and others. 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.

## **Enhance patient care with continuous monitoring**

The Philips Interventional Hemodynamic System is integrated with the IntelliVue X3 patient monitor, allowing continuous patient monitoring throughout procedures in the interventional workflow. There is no need to change cables, minimizing disruption to vulnerable patients and giving you more time to focus on them. Continuous patient monitoring also results in a gap-free patient record.

## Clinical suites



In a simulation study with 23 users,

**78%** of users think the ease of use of the enhanced touch screen module with multimodality functionality will increase their utilization of different clinical applications in interventional procedures.<sup>1</sup>



High standards  
of safety and low  
radiation exposure

Looking for radiation management strategies to enhance patient and staff safety, while maintaining and enhancing care? We can support you in meeting your goals.

**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.

**Preparing your next run without fluoroscopy**

The Zero Dose Positioning\* function lets 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.

**Perform standardized Quality Assurance verifications in just 5 minutes<sup>3</sup>**

To make it easier for you to routinely perform consistent verification tests of radiation dose and image quality, only Philips offers the User Quality Control Mode (UQCM)\* tool on its Azurion system. With this option, you can independently verify and audit the radiation and image quality related factors of your Azurion system in a standardized way in just 5 minutes,<sup>3</sup> as well as carry out a range of validation and quality assurance tests.

**Managing dose across your organization**

Philips DoseAware\* provides instant, time-stamped feedback in the exam room so you can immediately adjust working habits to manage 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

At Philips, we are guided by you. With Azurion, we've brought the user experience and simplicity of touch screen controls right where it's needed to make a difference to lab workflow.

## Gain advanced physiologic guidance to help improve treatment outcomes

You can access IntraSight, a comprehensive suite of clinically proven<sup>4-8</sup>, physiology and co-registration<sup>9</sup> tools, via the central touch screen module. These tools allow you to go beyond the angiogram and complete your view of the target vessel, to help you make fast, informed clinical decisions.

## 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 help function. You can access digital user guides with one click for on-the-spot assistance.

## Clear and simple to use

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.

## Tablet ease to do more at table side

With our enhanced touch screen module, you will experience simpler, smoother procedures, based on familiar tablet interactions. You can now control all compatible applications in the interventional lab. This reduces interactions and the need to move to different consoles or the control room to access applications.

In a simulation study with 23 users,

**91%** of the users think the touch screen module with multimodality functionality increases the ease of use when switching between compatible applications (e.g., X-ray, iFR/FFR, hemo, etc.) during interventions, compared to their current system(s).<sup>1</sup>



# Azurion 3 - benefits at a glance

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

## Key benefits

- 12" Flat Detector or 15" Flat Detector
- Versatile cardiac positioning capabilities
- Visualize the complete coronary tree and spider view with minimal table panning
- Gain wider anatomical coverage to support vascular procedures
- 15" Flat Detector and swivel option supports head-to-toe imaging
- Enhance visibility of small vessel details with Philips superb image quality
- Three-side positioning to access patient from all sides

### Enjoy a lifetime of benefits

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

### Work efficiently and confidently

This productive lifetime starts with our robust floor-mounted stand and a choice of 12" or 15" Flat Detectors to fit your case mix. The floor stand can be ergonomically positioned to facilitate staff comfort and efficiency during lengthy procedures.

### The Philips advantage

Access exclusive IntraSight features table side to enhance treatment and productivity for a full range of cardiac and vascular procedures. Only offered by Philips, iFR is an evidence-based methodology that improves outcomes, saves time, and reduces patient discomfort.<sup>6-8</sup> IntraSight also offers exclusive plug-and-play digital IVUS at table side. The ADAPT-DES study reported that IVUS guidance was associated with a change in PCI strategy 74% of the time.<sup>11-14</sup>

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>10</sup>

Dr. Joakim Sternvall, TAYS Heart Hospital Helsinki, Finland



Azurion 3 F12



Azurion 3 F15



## High productivity combined with low cost of ownership

With Philips, you get the best service performance<sup>15</sup> which enables you to treat more patients<sup>16</sup>, and professional support to help you deliver cost-efficient care.

### Best service performance<sup>15</sup> enables you to treat more patients<sup>16</sup>

Staying on top of today's complex healthcare environment is challenging enough without a constant concern of keeping your systems up and running smoothly. With Philips, your operations are protected by the best overall service engineer performance for imaging systems according to IMV ServiceTrak for 5 years in a row.<sup>15</sup> Philips remotely connected systems provide 135 more hours of operational availability in average, per year, enabling you to treat more patients.<sup>16</sup>

### Professional support helps you deliver cost-efficient care

To help you fully leverage your financial, technological and staffing resources and realize a high return on your investment, we offer professional support through our experienced network of over 7,000 field service engineers, as well as a flexible service offering that includes:

- Innovative financing solutions tailored to meet the needs of healthcare organizations
- A broad range of healthcare consulting programs to help your organization further enhance the efficiency and efficacy of your care delivery process
- Philips Healthcare Education, offering comprehensive learning options to meet your needs

### Cost-effectively manage future upgrades with the Technology Maximizer program

Technology Maximizer is a program that runs in tandem with your Philips Service Agreement.<sup>17</sup>

When you opt into the program, you receive the latest available software and hardware<sup>18</sup> technology releases for a fraction of the cost of purchasing them individually. The Technology Maximizer Plus allows you to further tailor upgrades to reduce costs. No need to buy individual upgrades. Just a cost-effective way to manage ongoing technology upgrades through your operational budget.

### Unlock your potential

Philips Healthcare Education can help unlock the full potential of your staff, technology and organization to meet new challenges through innovative, meaningful and evidence-based healthcare education. Our comprehensive clinical, technical and business-related courses, programs and learning paths 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.

Philips remotely connected systems provide

**135** more hours of operational availability on average, per year, enabling you to treat more patients.<sup>16</sup>



## References

- \* 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 a Usability Evaluation in the period of May and June 2019. The tests involved 23 clinicians (16 physicians and 7 technologists) from Europe who performed procedures using Azurion 2.1 image guided therapy system in a cardiac workflow and non-cardiac workflow in a simulated interventional lab environment.
  2. It is the user's responsibility to ensure that Philips network requirements (such as performance, VPN) for IntelliSpace Cardiovascular are met. Note: Automatic same patient launch feature is available only with specific versions of IntelliSpace Cardiovascular and IntelliSpace Portal.
  3. The related tests were performed by 3 users with different background and experience level. The test timings were performed using a frontal plane of an Azurion biplane R2.1 system (FD20/15N, STM-1713 (Dick Bruna), location QL-1).
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  6. Patel M. "Cost-effectiveness of instantaneous wave-Free Ratio (iFR) compared with Fractional Flow Reserve (FFR) to guide coronary revascularization decision-making." Late-breaking Clinical Trial presentation at ACC on March 10, 2018.
  7. Maehara A, Matsumura M, Ali ZA, Mintz GS, Stone GW. IVUS-guided versus OCT-guided coronary stent implantation. *J Am Coll Cardiol Img*. 2017;10:1487-1503.
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  9. Co-registration tools available within IntraSight 7 configuration via SyncVision.
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  13. Witzenbichler B, et al. Relationship between intravascular ultrasound guidance and clinical outcomes after drug-eluting stents: The ADAPT-DES study. *Circulation*. 2014 Jan;129,4:463-470.
  14. Singh V, Badheka AO, Arora S, et al. Comparison of in-hospital mortality, length of hospitalization, costs, and vascular complications of percutaneous coronary interventions guided by ultrasound versus guided by angiography. *Am J Cardiol*. Online 18 Feb 2015.
  15. IMV ServiceTrak 2018 X-ray Cardiovascular Systems.
  16. Data shown is an average, based on the comparison between remotely connected and non-remotely connected systems. Data sample from 2018 for Allura FD and Azurion (n=9955).
  17. Eligible RightFit Service Agreements are available with Technology Maximizer.
  18. Not currently available for ultrasound hardware.

