

PHILIPS

Image guided therapy

Azurion 5

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 helps you optimize your lab performance



Azurion enables you to provide superior care



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

Meet Image Guided Therapy System Azurion 5

This image guided therapy system supports you to simply perform a wide range of cardiac and vascular interventions. Its integrated design gives you control of all relevant applications from a single touch screen at table side, to help make fast and informed decisions without breaking sterility. This seamless user experience can help you optimize lab performance and deliver high-quality patient care.

Azurion 5 is powered by ConnectOS, a specially designed real-time, multi-workspot technology. The Azurion platform delivers a set of interventional tools that help you perform diverse procedures to a high standard.

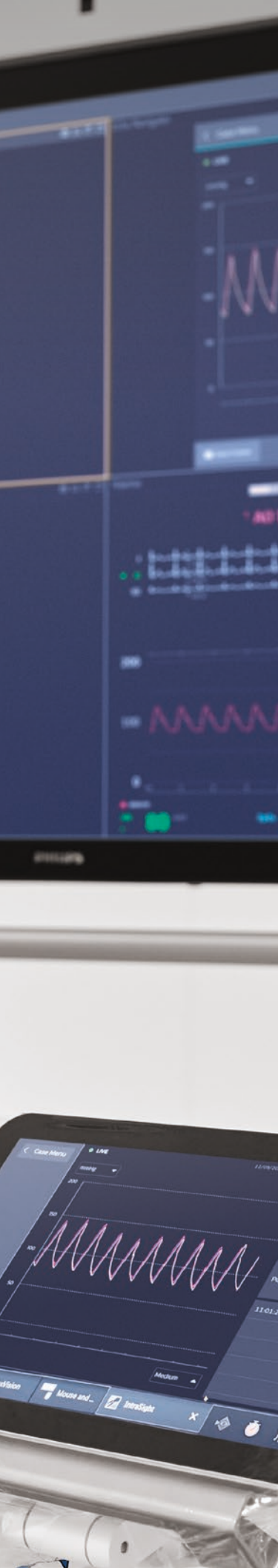
Intensive user testing has accompanied the entire design and development process, making the system easy to use and supporting streamlined lab workflows. The Azurion 5 underlines our ongoing commitment to you and your patients. It was designed with your clinical and business needs in mind, helping you meet ambitious requirements today and in the future.



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.”



As patient volumes and cost pressures rise, you find yourself having to do more with less. How can you achieve this with the same staff and equipment in the lab?

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 5 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 of 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 Cardiovascular² and IntelliSpace Portal² 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.

Adapt your view

Azurion FlexVision XL is designed to enhance efficiency during interventions and provide full control at the table side. With FlexVision XL, 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.

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 healthcare evolves and procedures become more complex, how do you maintain high standards of quality and safety and deliver superior patient care?

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 the full interventional spectrum.

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. 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.

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





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“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.”



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



As radiation dose management becomes more of a topic, how can you implement strategies that advance patient and staff safety, while maintaining and enhancing your level of care?

Managing dose efficiently

Several Azurion 5 features have a positive impact on dose. Philips solutions help you take control of patient care, staff safety, and regulatory compliance with a comprehensive suite of radiation dose management tools, training, and integrated product technologies. The MRC200+ X-ray tube incorporates SpectraBeam filtration, which helps maintain image quality at a low dose. The Zero Dose Positioning function lets you pan the table, change table height or field-of-view on your Last Image Hold (LIH) 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.

High quality images at a low X-ray dose

The optional ClarityIQ technology supports high-quality imaging for a comprehensive range of clinical procedures, achieving excellent visibility at low X-ray dose levels for patients of all sizes. Over 500 system parameters have been fine-tuned to use the full potential of ClarityIQ technology for each application area, enabling superb visualization in many different application areas.

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.



Perform standardized Quality Assurance verifications in just 5 minutes³

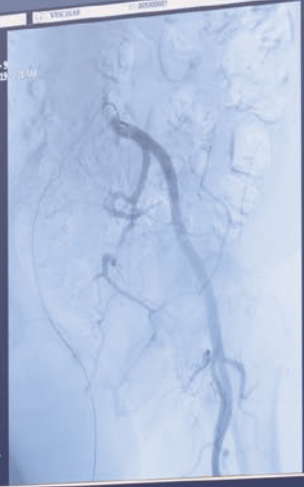
To make it easier for you to routinely perform consistent verification tests of radiation dose and image quality, only Philips offers the User Quality Control Mode (UQCM) tool on its Azurion system. With this option, you can independently verify and audit the radiation and image quality related factors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



Applications Presets

Live X-ray

Series 10
Image 18 - 5
00-Jun-2018 11:30



Reference 1

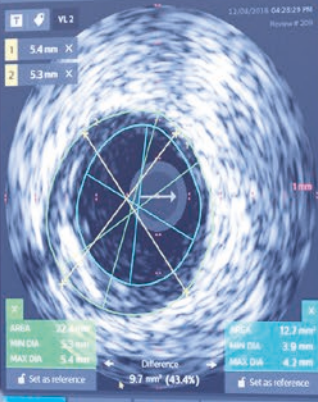
Iliac/Pelvis

IVUS

Case Menu

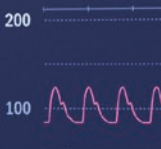
No name

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AREA	32.8 mm²	AREA	12.7 mm²
MIN DIA	5.2 mm	MIN DIA	3.9 mm
MAX DIA	5.4 mm	MAX DIA	4.3 mm
Difference: 9.7 mm (43.4%)		Set as reference	

Haemo



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Azurion delivers an

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 proven⁴⁻⁸ imaging, physiology and co-registration⁹ 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 to support training. Use has been further simplified through a sophisticated help function. This means you can access digital user guides with one click for on-the-spot assistance.

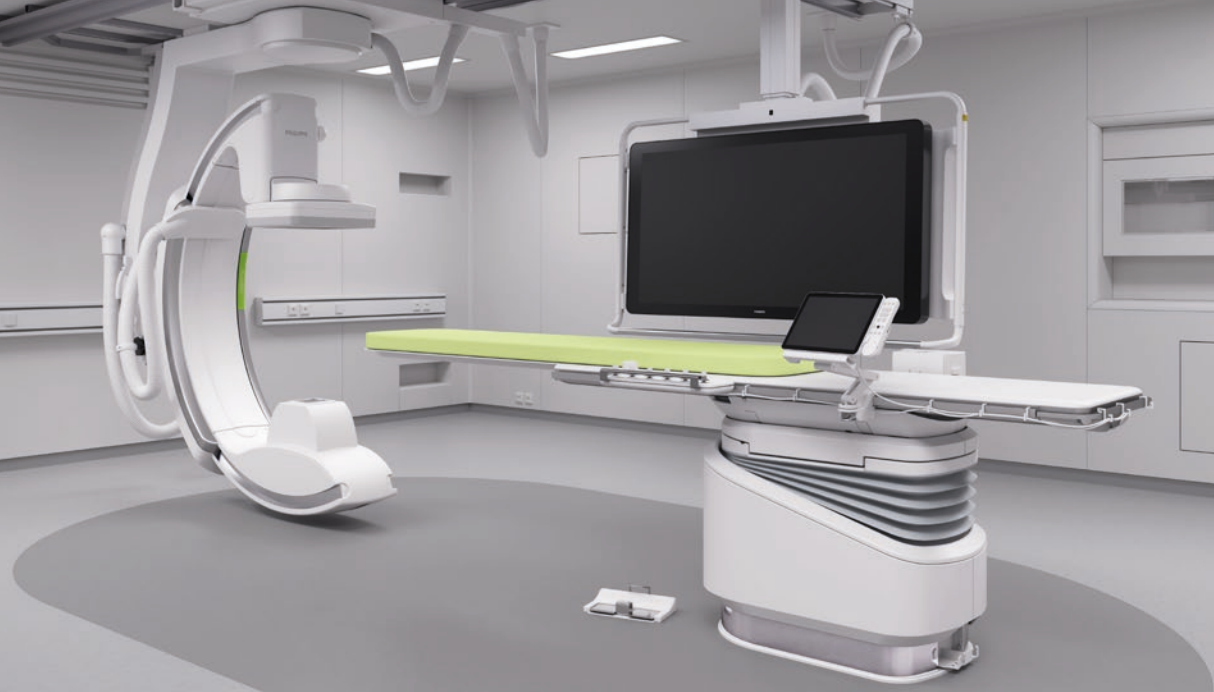
Clear and simple to use

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.

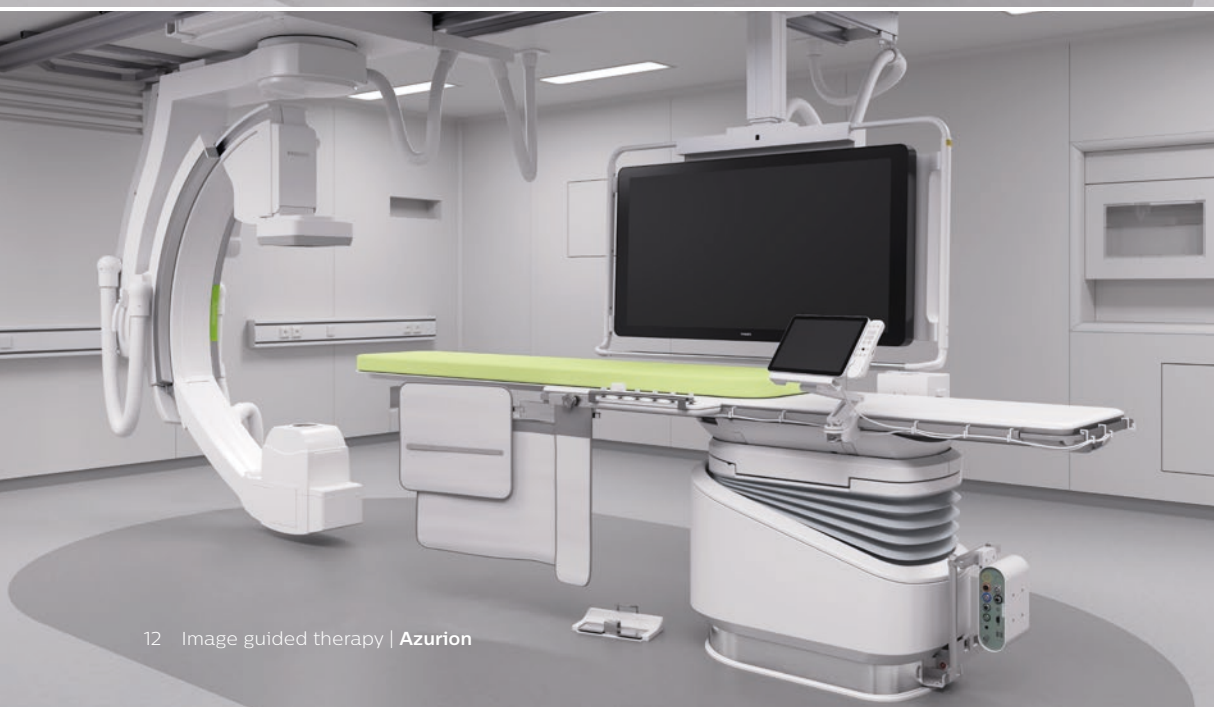
“In a simulation study with 23 users, 91% of the users think the touch screen module with multimodality functionality increases the ease of use when switching between compatible applications (e.g., X-ray, iFR/FFR, hemo, etc.) during interventions, compared to their current system(s).¹”



Azurion 5 C20



Azurion 5 F20



The next generation

image guided therapy platform

Azurion 5 is the next generation image guided therapy system that provides a foundation for today and is designed to support the innovations of tomorrow.

The Philips advantage

Access exclusive IntraSight features table side to enhance treatment for standard cardiac and vascular procedures. Only offered by Philips, iFR is an evidence-based methodology that improves outcomes, saves time, and reduces patient discomfort.⁴⁻⁶ 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.¹⁰⁻¹³

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. In addition, our education and service offerings help you get the most from your solution over time.

Azurion 5 benefits at a glance

- 12" (ceiling) or 20" (floor/ceiling) detector
- Flexible projection capabilities for cardiac interventions
- Entire coronary tree can be visualized with minimal table panning
- Enhanced visibility and excellent image quality for routine cardiac and vascular interventions
- Exceptional clarity for small vessels



“Philips remotely connected systems provide 135 more hours of operational availability per year, enabling you to treat more patients.¹⁵”



High productivity combined with low cost of ownership

With Philips, you get the best service performance¹⁴ which enables you to treat more patients,¹⁵ and professional support to help you deliver cost-efficient care.

Best service performance¹⁴ enables you to treat more patients¹⁵

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.¹⁴ Philips remotely connected systems provide 135 more hours of operational availability per year, enabling you to treat more patients.¹⁵

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.¹⁶ When you opt into the program, you receive the latest available software and hardware¹⁷ 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 wait for budget approval. 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 you meet the challenges of controlling costs, streamlining workflow and improving patient care.

References

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 ISCV and ISP.
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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5. Gotberg M, et al., Instantaneous Wave-Free Ratio Versus Fractional Flow Reserve Guided Intervention (IFR-SWEDEHEART): A Multicenter, Prospective, Registry-Based Randomized Clinical Trial. *New England Journal of Medicine*, epub March 18, 2017.
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 Intg*. 2017;10:1487-1503.
8. Choi K, et al. Impact of Intravascular Ultrasound-Guided Percutaneous Coronary Intervention on Long-Term Clinical Outcomes in Patients Undergoing Complex Procedures. *JACC: Cardiovascular Interventions*. Mar 2019, 4281; DOI: 10.1016/j.jcin.2019.01.227.
9. Co-registration tools available within IntraSight 7 configuration via SyncVision.
10. Elgendy IY, et al. Outcomes with intravascular ultrasound-guided stent implantation: a meta-analysis of randomized trials in the era of drug eluting stents. *Circ-Cardiovasc Interv*. 2016;9:e003700.
11. Ahn JM, Kang SJ, Yoon SH, et al. Meta-analysis of outcomes after intravascular ultrasound-guided versus angiography-guided drug-eluting stent implantation in 26,503 patients enrolled in three randomized trials and 14 observational studies. *Am J Cardiol*. 2014;113:1338-1347. Hyperlink [http://www.ajconline.org/article/S0002-9149\(14\)00549-9/abstract](http://www.ajconline.org/article/S0002-9149(14)00549-9/abstract).
12. Witzembichler 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.
13. 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.
14. 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 systems (n=9955).
15. IMV ServiceTrak 2018 X-ray Cardiovascular Systems.
16. Eligible RightFit Service Agreements are available with Technology Maximizer.
17. Not currently available for ultrasound hardware.

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