



PHILIPS

Image Guided Therapy

Azurion 3

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

Azurion R3.1 is pending 510(k) clearance. Not available for sale in the U.S.A.
Azurion R3.0 and R3.1 is subject to regulatory clearance and may not be available in all markets. Contact your sales representative for more details

Innovatively designed to support even the most challenging procedures

Every day you strive to provide the best patient care, quickly and reliably, no matter which procedure you are performing. Now imagine being able to perform an increased number of procedures, for more patients, consistently and efficiently with fewer preparation errors. Imagine an intuitive platform that lets you optimize workflow. With it, your day just became a lot easier.



Provide
superior care



Help optimize lab
performance



Perform diverse procedures
quickly and easily

Meet Philips Image Guided Therapy System Azurion 3

The Image Guided Therapy System Azurion 3 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 touchscreen at tableside, to help make fast and informed decisions without breaking sterility.

With the Azurion 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.





Analysis Results

Diameter [mm]

Area [mm²]

Stentoid Length	1150 mm
% Stentoid Diameter	72.30 %
Min. Lesion Dia. (MID)	0.65 mm
User Defined MID	0.65 mm
Proximal Diameter	2.48 mm
Distal Diameter	1.94 mm
% Stentoid Area	92.30 %



“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.¹”

With Azurion we help you to optimize your lab performance

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

Run an entire case without breaking sterility

The touchscreen module offers total control within the sterile field. Run an entire case tableside as you quickly diagnose, navigate, annotate and measure to your exact specifications, even while wearing gloves and under a sterile drape. Tableside control saves you from having to go to the control room to access applications.

Save time through Instant Parallel Working

The 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. For 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. This leads to higher throughput and faster exam turnover without compromising quality of care.

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 Portal launch automatically with the specific patient on the exam room monitor. 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 is designed to enhance efficiency during interventions and provide full control at tableside. 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.

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, and 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. Our flexible portfolio of integrated technologies and services supports the full interventional spectrum.

Improve exam consistency

In addition to helping optimize and standardize routine tasks, ProcedureCards can increase the consistency of exams by offering presets. These can include default protocols and userspecified settings on the procedure, physician or departmental level so that 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 reduce preparation errors.

Enhance patient care with continuous monitoring

The Philips Interventional Hemodynamic System is integrated with the IntelliVue patient monitor, allowing continuous patient monitoring throughout the workflow in interventional procedures. 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 touchscreen module with multimodality functionality will increase their utilization of different clinical applications in interventional procedures.¹"



High safety standards and low radiation exposure

As you look for new radiation dose management strategies to continue to enhance patient and staff safety while maintaining and enhancing your level of care, we can support you in meeting your goals.

Managing dose efficiently

DoseWise is integrated across the Philips Image Guided Therapy portfolio. DoseWise consists of a comprehensive range of radiation dose management tools, training and integrated product technologies that aim to help you take control over patient care, staff safety and regulatory compliance. 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 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 minutes³, as well as carry out a range of validation and quality assurance tests.

Managing dose across your organization

Philips DoseAware provides real-time feedback in the exam room, displaying the invisible nature of radiation in real time, so that you and your staff can see it promptly, easily and simply in order to rapidly understand the effect of behavior changes and work patterns.

DoseAware Xtend is a dedicated solution for treatment rooms that builds on the capabilities of DoseAware and interfaces seamlessly with the Azurion Image Guided Therapy system. Thanks to this seamless integration, DoseAware Xtend can provide live individual dose rates (live screen) during procedures, and summarized procedure doses (review screen). It also reminds staff to better protect themselves by providing a warning symbol when the lead protection screen is not being used properly.

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



"In a simulation study with 23 users, 91% of the users think the touchscreen 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

Outstanding user experience

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

Gain advanced physiologic guidance to help improve treatment outcomes

Access IntraSight, a comprehensive suite of clinically proven⁴⁻⁸, imaging, physiology and co-registration⁹ tools, via the central touchscreen 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

Every Azurion system and interventional tool uses the same standardized user interface to support training. A sophisticated help function further simplifies use. You can access digital user guides with one click for on-the-spot assistance.

Clear and simple to use

Information clearly stands out on the screen against the distinctive black background where active applications are highlighted. Backlit icons and distinctively 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 tableside

With our enhanced touchscreen 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.

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 offers 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 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 tableside 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.⁶⁻⁸ IntraSight also offers exclusive plug-and-play digital IVUS at tableside. The ADAPT-DES study reported that IVUS guidance was associated with a change in PCI strategy 74% of the time.¹¹⁻¹⁴

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



Azurion 3 M12 Monoplane Floor Mounted



Azurion 3 M15 Monoplane Floor Mounted

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.^{10"}

Dr. Joakim Sternvall, TAYS Heart Hospital Helsinki, Finland

High productivity combined with low cost of ownership

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

Best service performance¹⁵ enables you to treat more patients¹⁶

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

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 can help unlock the full potential of your staff, technology and organization to meet new challenges through innovative, meaningful and evidence-based healthcare education

Keep your Azurion System up-to-date and clinically advanced with enhanced security

Ensuring that your imaging system remains up-to-date, compliant and protected can be a challenge. Safe, secure and timely upgrades are vital to maintaining and maximizing your system's performance and operational value. Technology Maximizer is a cost-effective and easy-to-use upgrade service, available across all Philips Azurion Systems.¹⁸

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

Doing business responsibly and sustainably

When you choose Philips, you are choosing a partner committed to meeting sustainability and circular economy ambitions. As a leading health technology company, our purpose is to improve people's health and well-being through meaningful innovation, positively impacting 2.5 billion lives per year by 2030. Azurion is the result of our EcoDesign process and offers significant environmental improvements:

- 100% committed to responsible take-back of systems¹⁹
- 100% repurposing of the equipment that is returned to Philips²⁰
- On average, 81% of material weight is reused during Philips Image-guided therapy system refurbishment, thereby reducing the need for virgin materials²¹
- Up to 17% lower energy consumption over total product life usage^{22, 23}

Read more about our Environmental, Social and Corporate Governance (ESG) commitments here: <https://www.philips.com/a-w/about/sustainability.html>

Philips remotely connected systems provide

135 more hours of operational availability on average, per year, enabling you to treat more patients.¹⁶

Maximize operational performance with Technology Maximizer Essential

Technology Maximizer Essential keeps your Azurion up-to-date with structured upgrades delivered upon release to maximize system performance and operational value.

How does it work?

- Core system software release upgrade²⁴
- Operating system (OS) update
- Safety and security updates as part of the core system software release
- A computer hardware upgrade to support a core system software upgrade

Technology Maximizer Essential, 5-year program

Technology Maximizer Essential is included in your Azurion²⁴ purchase. It keeps your Azurion System's latest release technology current, compliant, and protected with support and upgrades for a full 5 years from installation.²⁵



Access future clinical value²⁶



Improves patient and staff experience



Enhances cybersecurity



Controls and saves costs



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 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).
4. Davies JE, et al. DEFINE-FLAIR: A Multi-Centre, Prospective, International, Randomized, Blinded Comparison of Clinical Outcomes and Cost Efficiencies of iFR and FFR Decision-Making for Physiological Guided Coronary Revascularization. *New England Journal of Medicine*, epub March 18, 2017.
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* Img. 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. In comparison to Allura Xper FD10 system.
11. 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.
12. 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).
13. Witzencbichler 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. Certain products or features are subject to regulatory clearances and may not be available in all markets
19. Provided upon customer's acceptance of our trade-in offer or as a service. Equipment returned is, where feasible, made available for refurbishment and/or parts recovery, or locally recycled in a certified way. Subject to availability in your country
20. Equipment returned to Philips is, where feasible, made available for refurbishment and/or parts recovery, or locally recycled in a certified way.
21. Based on the average weight re-use percentage per system for Philips Image Guided Therapy refurbished systems in 2024. Results may vary based on amount, type, mix and age of returned systems.
22. Compared to Philips Allura R8.2.
23. Energy consumption measurements were performed on an Azurion 7 M20 incl. FlexSpot and FlexVision monitor options. Please note that actual energy consumption is dependent on system configuration and user behavior. As an example: switching into off-mode after 12 hours of operational use, can save up to 41% energy consumption per day.
24. Eligible systems: Azurion R3 or later systems released.
25. Upgrades provided if and when available during the coverage term with regard to system software, as long as Technology Maximizer contract remains valid. Does not include upgrades to clinical applications.
26. Certain products or features are subject to regulatory clearances and may not be available in all markets. Contact your sales representative for more details.

