



Maximize access, minimize costs

Philips interventional X-ray solutions for cardiology

PHILIPS
sense and simplicity

Tailored to your clinical

Interventional cardiology demands imaging technology support of an ever-diverse application environment. Philips gives you the advantage. From essential functionality in mixed use settings, to clinical flexibility for complex procedures, Philips Allura interventional X-ray systems help you excel.

Allura proves the clear choice for imaging excellence. Commitment to effective cardiac care is unequalled. Getting the job done right is paramount.

You've been asked to reduce the risk, lower the dose, speed the process, and provide better clinical care. All at the right cost.

Tailoring an Allura solution to suit your unique clinical needs sets Philips apart. With an expanded portfolio, you'll find access to the perfect system configuration, the right tool set, the most attractive financing options and comprehensive lifecycle service support.

There's never a reason to settle for less.



requirements



Expanding access to care

Interventional cardiology today is increasingly complex. Technology must keep pace. Philips responds with a broad portfolio of interventional suites. You will find a perfect fit.

Choices from the cutting-edge

Philips Allura Xper FD (flat detector) family of interventional X-ray systems helps you reach a faster, more accurate diagnosis and deliver effective treatment with greater confidence - no matter the challenge. Whichever suite you choose, the acclaimed Xper user interface supports efficient workflow and ease of use.





Allura Xper FD10 suite

The Allura Xper FD10 is optimized for your complex PCI, structural heart and endovascular procedures. Gain valuable insight and efficiency with a wide array of advanced cardiology tools. The Allura Xper FD10/10 biplane, an ideal system for elderly and renal insufficiency patients.



Allura Xper FD10/10 suite

The Allura Xper FD10/10 allows you the flexibility and quality required to treat congenital heart disease. Dedicated pediatric EPX dose settings help you achieve the lowest possible X-ray dose and right image contrast to visualize low inherent tissue contrast or tissue density. The bi-plane setup is ideal for cross-purpose interventional cardiology and electrophysiology applications as well.



Electrophysiology suite

The Allura Xper FD systems are an ideal choice with full compatibility with specific third party mapping, recording, steerable robotic catheter and other navigation systems. Integrated equipment and data management capability, in concert with exceptional fluoroscopic image quality and low X-ray dose, to support confidence during the most complex EP procedures.



Cardiovascular Allura Xper FD20 suite

The Allura Xper FD20, with true full 2k (2,048 x 2,048) imaging for maximum image quality expands your interventional cardiology suite to include neuro and vascular applications. A true multi-purpose system, it accepts a broad range of integrated 3D software tools. Consider the Allura Xper FD20/10 biplane for work with elderly and renal insufficiency patients.



Cardiac surgery (Hybrid OR) suite

The Allura Xper FD systems are designed for hybrid surgery lab, sparing your critically ill patients the trauma of being moved. Diagnose and treat in one location. You'll find optimum coverage for procedures like TAVI and AAA and the flexibility to quickly prep for an open surgery alternative. The ceiling mounted Allura Xper FD20 provides the flexibility of working positioning for the ideal approach without compromising of sterility.

Inclusive and affordable

Every hospital wants to provide the best possible healthcare. Your patients should expect nothing less. Take an uncompromising approach. When advanced medical care meets economic reality, look no further than Philips. Find quality performance that's easy on your budget, with systems designed to help you reach more patients.

Gain everything, sacrifice nothing.



Efficient mixed-use suite

The Allura CV20* covers diagnostic and interventional procedures in the cardiac, radiology and electrophysiology realm. Maximize your capital investment with a configuration to address your unique requirements. One system, one room, one Philips is all you need.



Essential cath lab

The Allura FC* delivers high performance at a low cost of ownership. It combines ease-of-use and reliability with essential functionality for diagnostics and interventions. With low power consumption, compact design and rugged reliability, it proves the theory – less is more.



Quality refurbished suite

All Philips Diamond Select interventional X-ray systems have been carefully selected, fully refurbished, updated to the latest available software release and quality tested. You get an almost brand new system. Systems for every procedure type make this a wise decision.

* Not available in North America



Support behind the image

Interventional cardiology is more than just quality imagery

The pressure to maximize your capital budget and amortize your investment is constant. The need to maintain reliable equipment performance is on-going. Access to practical finance and services options are available from Philips.

Financial flexibility

In today's financial climate, there's more pressure than ever to access cash for technology that helps facilitate quality patient care. Philips Healthcare offers flexible finance solutions to help you provide quality patient care and manage a successful business.

Contact your Philips representative for various finance solutions offerings and possibilities.

Lifecycle services

Philips SmartPath provides you with easy access to the latest updates, upgrades and innovations throughout the lifecycle of your Philips' investment.

Philips SmartPath consists of three complementary steps – Optimize, Enhance and Transform. Each is designed to provide the right lifecycle solution at the right moment in time. And each is adapted to your unique requirements, expanding your clinical capabilities at minimal cost.

Not sure what services you'll need? A Philips Customer Support representative can design a program to suit you specific requirements.

Advancing procedural

First time right – the goal never changes. How well you diagnose, plan and treat makes all the difference. Innovative Philips tools and technologies can give you the edge in percutaneous coronary intervention, endovascular and structural heart procedures.



“The zoomed image quality of the FlexiVision is very useful in retro-grade approach for CTO treatment.”

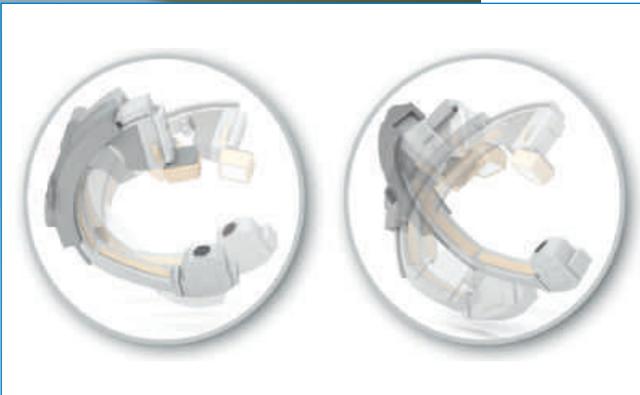
Dr. Tsutomu Fujita, Sapporo Cardio Vascular Clinic (SCVC), Japan

“The 3D perspective gives the ability to analyze far more reliably and enable to determine the length of a stenosis far easier.”

Dr. Philippe Guyon, Centre Cardiologique du Nord (CCN), St. Denis, France

effectiveness

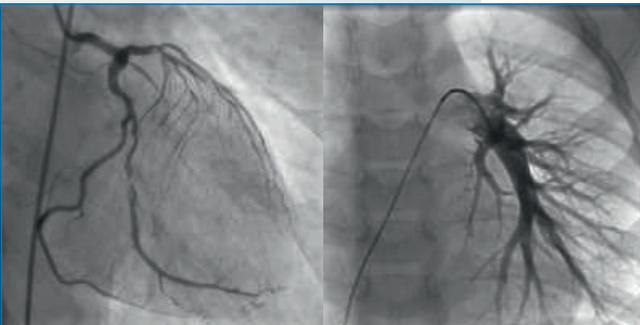
Begin with a quality view



Dual-axis rotational angiography

Gather more information in less time, with less X-ray dose.

Philips XperSwing acquires simultaneous RAO/LAO cranial-caudal views in just one acquisition run by moving the C-arm in a curved trajectory instead of multiple acquisitions. Additional views are also captured, providing a more comprehensive appraisal of the coronary tree.



State-of-the-art image processing

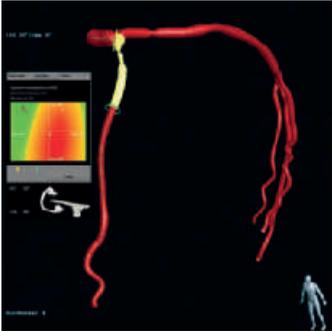
Proprietary **Xres adaptive image processing** provides real-time harmonization and enhancement to your acquired images, reducing speckle, haze and clutter artifacts. The result is images virtually free from noise, with extraordinary clarity and border definition.



A 56-inch wide view

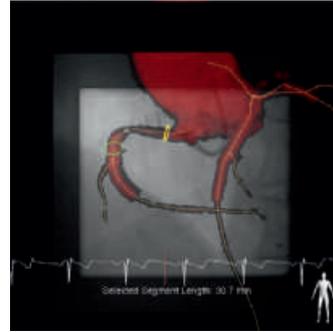
Visual complex cardiac anatomy like never before. With the **FlexVision XL** 56-inch 8-megapixel monitor you experience an unprecedented level of detail. See up to eight different inputs on a single widescreen. You have full control with flexible switching, SuperZoom technology and ease of maneuverability.

Find clarity with first-class tools



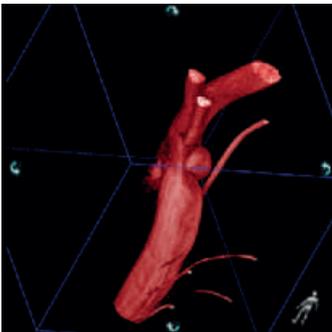
Powerful 3D coronary angiography

Get relevant coronary vessel structure with **Allura 3D-CA**. This 3D model provides you a clearer view of torturous vasculature, high-angle lesions and overlapping bifurcations, with minimal target vessel foreshortening – perfect for fast assessment, and optimal projection/stent selection.



Revealing vessel and lesion assessment

CT TrueView uses 3D images provided by CT for a more robust anatomical roadmap, giving you added perspective on vessel morphology. Helps to determine length of the obstructive lesion, view all side branches, get the optimal projection angle and fit the proper stent – with no additional X-ray dose or contrast.



High resolution 3D images

An alternative to acquiring multiple stationary views, **Allura 3D-RA** generates high-resolution 3D images from a single rotation angiography run. Clarify the complex spatial relationship between the critical and branching vessels, with easy navigation through a wide range of 3D viewing and manipulation options.



Simplify planning and device selection

HeartNavigator* creates a 3D volumetric image (from 2D datasets) which overlays with live fluoro. You gain real-time 3D insight to help simplify planning and device/projection selection and live image guidance to reduce difficulty during complex structural heart procedures such as TAVI.

* Not available in North America

Enjoy alliances that work for you

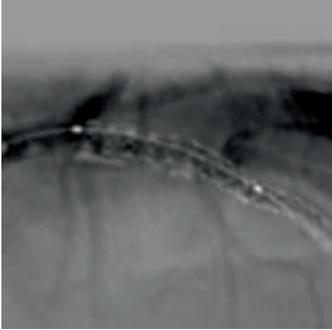
Philips aligns with the best in the business to give you more control. You'll find names you trust in intravascular ultrasound (IVUS), navigation systems, and EP mapping and recording. Tight integration and seamless workflow assure effective results.

For Coronary interventions

- Volcano Corporation
- Boston Scientific Corporation
- St. Jude Medical, Inc.
- InfraReDx, Inc.

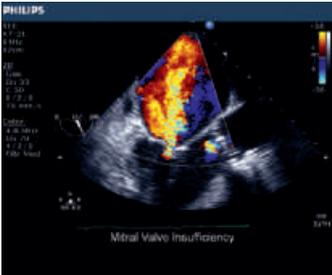
For Electrophysiology

- Bard Electrophysiology
- Biosense Webster
- St. Jude Medical, Inc.
- Stereotaxis



Remarkable stent views

With **StentBoost** you clearly see your stent in relation to the vessel wall. You can immediately check positioning of devices such as balloons and stents before and after deployment, and confirm stent expansion. One quick acquisition is all it takes. There are no operational costs and benefits are high.



Closely integrated ultrasound views

The **CX50 CompactXtreme** premium ultrasound integrates seamlessly with your Allura system. It can be tableside controlled via the Xper Module. The echo image is displayed on the Allura system monitors. This integration lets you quickly see cardiac structure and function, as well as real-time display of the beating heart.

“With 3D-CA, you can potentially save somewhere between \$60,000 and \$120,000 a year by being able to select the correct stent.”

*Dr. Mark Goodwin, Medical Director of Cardiac Cath Lab, Edward Heart Hospital, USA**

“StentBoost is a great asset to have a better understanding of the deployment technique that you are using.”

Dr. Pierfrancesco Agostoni, Interventional Cardiologist, Middelheim Hospital, Belgium

“I plan all my cases with the HeartNavigator as I trust the measurements in the HeartNavigator more than the measurements provided by the normal CT-scan.”

Dr. H. Schröfel, Klinikum für Herzchirurgie, Karlsruhe, Germany

**This is based on estimated calculation of \$2,400 cost for a drug-coated stent and scenario of 1 out of every 40 interventions per week where two stents instead of one is placed because of underestimation of stent length: 50 x \$2,400 = \$120,000 per year savings.*

Streamlining workflow

Technology works when interaction is intuitive. It works when access to the heart is clarified and treatment improved. Philips gives you personalized system control, scalable image and data management options, and reliable uptime support to optimize procedural efficiency.

Focus on your patient, not your tools.

Personalize the way you work



Customizable control

Xper stands for 'X-ray personalized' and that's what you get.

Philips **Allura Xper systems** put you in control, reducing manual tasks and bring multi-modality information to your fingertips through the Xper tableside module.

- Personalize your c-arm projections and X-ray protocols
- See only your own preference
- Enjoy full control of all interventional tools

Configurable widescreen display

The **FlexVISION XL** 56-inch high-definition monitor makes review of critical procedural information more comfortable. All images on the large screen are within your immediate field of view. Don't miss a detail, or data point. Configuration on the fly, or use one of 24 predefined screen layouts.

- Arrange monitor display as you wish
- Select from preset procedural templates, or create your own
- Review relevant cross-modality patient images pulled from PACS

Integrated ultrasound

It's right there when you need it, premium ultrasound. Philips **CX50 CompactXtreme** is controlled tableside and displayed on your procedure monitor to give you quick views of cardiac structure assessments of devices and after procedure, and guide device deployment. Be more confident in your diagnosis and speed your procedures.



Access patient data effortlessly

Hemodynamic documentation

Comprehensive hemodynamic monitoring and analysis, **Xper Physiomonitring 5 (PM5)** captures and integrates cath lab data at the point of care. Simplify your cath lab workflow by reducing data entry, decreasing errors, and improving data integrity.

Cardiovascular workflow solution

Xper Information Management (XIM) is an innovative product suite (includes PM5) with tools for reporting, scheduling, inventory and intelligent data management. It scales easily to fit your budget, needs.

- Coordinate resources
- Enhance reporting
- Manage inventory
- Identify deficiencies
- Integrate with HIS

Cardiology PACS

Your integrated cath lab is complete when you add **Xcelera** to PM5/XIM. This cardiology PACS is configurable, scalable and customizable, providing easy access to and review of all pre-exam, multi-modality images.

Departmental information system

A unique offering, Philips **Cardiovascular Information Management System** empowers you to improve the clinical and financial performance of your cardiology department. You gain easy access, across the enterprise, to detailed records of all your cardiac patients.

Ensure optimal performance

Philips SmartPath

Keep your equipment operating reliably and at peak performance. Minimize disruption to your services and workflow with planned system maintenance. Philips SmartPath offers you state-of-the-art updates, to maintain precision, security and uptime.

With Remote Services, Philips can monitor your system continuously. Technical issues can be addressed early on before they become problems, ensuring you remain fully operational.

Onsite training and continuing education

Clinical onsite training by qualified, skilled specialists gets your staff up and running in short time. Philips Learning Center provides online continuing education courses as a simple and cost-effective way to maintain your educational requirements.

Redefining the environ

Reduce the X-ray dose and soften the surroundings. Keep your patients and staff as safe and comfortable as possible. Philips seeks to ensure a better healthcare experience through advances in product design, in acquisition technique, and in workspace influence.

Work smart, work safe.

Minimize the dose for all

As low as reasonably achievable

Philips **DoseWise** ensures optimum balance and maximum flexibility between X-ray dose and image quality. At every step in the imaging chain from the proven Philips MRC X-ray tube to the real-time Xres processing, Philips technology helps deliver the highest quality image at the lowest possible X-ray dose. With simple to use EPX settings, you control over 500 different parameters to reflect personal preference, procedure type and patient habitus.

Real-time personal dose meter

Besides real time skin dose and accumulated dose display at your X-ray monitors, you can get instant, time-stamped feedback on your current radiation exposure with **DoseAware** personal dose meter. Learn where and when dose was acquired. Take the appropriate action and adjust your work habits immediately. Report, analyze and archive results.



ment

Enhance the experience



Patient protection system

Philips' exclusive **BodyGuard** non-contact patient protection mechanism uses capacitive sensing to determine the location of the patient, in relation to the C-arm, and prevent collision.



Flexible patient table

Allura Xpertables feature dedicated cardiovascular tables with 'feather-like' free-floating table tops. Discover one finger push-to-pivot, effective store and recall positioning, rock-solid stability for CPR, and easy patient transfer with lower height.



People focused environment

Transform your cardiology suite with **Ambient Experience**. This customized solution integrates Philips' expertise in architecture, design, lighting and technology to create a more positive experience for patients and hospital staff. Improvements in cathlab workflow, patient compliance, and emotional well-being are tangible results.



**Philips Healthcare is part of
Royal Philips Electronics**

How to reach us

www.philips.com/healthcare
healthcare@philips.com

Asia

+49 7031 463 2254

Europe, Middle East, Africa

+49 7031 463 2254

Latin America

+55 11 2125 0744

North America

+1 425 487 7000

800 285 5585 (toll free, US only)

Please visit www.philips.com/InterventionalCardiology



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