

PHILIPS

SmartPath

Interventional X-ray



Making the difference with **Live Image Guidance**

Catalyst program



Making the difference with **Live Image Guidance**

Together we make the difference in minimally invasive treatment to improve patient outcomes and enhance patient care.

With our Live Image Guidance we aim to remove barriers to safer, effective and reproducible treatments, delivering relevant clinical value where it's needed most – at the point of patient treatment.

Intelligent and intuitive integration of live imaging, patient information, and procedure based applications optimize real time therapy guidance.

Our AlluraClarity family with ClarityIQ technology enables physicians to deliver fast, confident diagnosis and treatment, simplified procedures and an efficient clinical workflow. All while delivering equivalent image quality at low dose levels of patients of virtually any size.

Build clinical reputation and increase revenues by extending your procedural mix to treat a wider range of patients while increasing patient throughput. Enhance return on investment with tailored services to increase uptime and benefit from upgrades and innovations.

Together, we open doors to new procedures and techniques that truly make a difference to people's lives designed to drive growth and reducing the cost of care.

It's like getting **a new life**

Philips SmartPath Catalyst program is the practical and cost effective way to transform your current system into the state-of-the-art Philips AlluraClarity interventional suite. It gives you access to the latest clinical functionality and offers training and warranty equal to a completely new system.

Philips SmartPath Catalyst brings new life to your current system and makes it look and perform as if completely new.

You retain highly valuable structural components of your existing Philips imaging lab, allowing costs to be reduced. At the same time, we will swap in new functional parts to your system, such as the imaging and control circuitry and flat detector. This allows that your current imaging technology is quickly and easily be brought up-to-date without the disruption and costs involved with purchasing a completely new system.

Quick-view

SmartPath Catalyst program benefits



1. System renewal: A converted Catalyst system will look and operate as if new.



2. Cost savings: Savings of between 35% - 57% of the cost of buying a brand new system.



3. Minimal room construction: A Catalyst conversion significantly reduces room reconstruction costs.



4. Improved image quality: A converted system is capable of the same image quality as a brand new AlluraClarity platform.



5. More efficient workflow: Catalyst conversions provide the same functionality, integration, and compatibility possibilities as a brand new system.



6. Reduced downtime: A Catalyst conversion significantly reduces system downtime compared to a brand new installation.



7. Training provided: Philips offers customer training on all new Catalyst converted system functionalities.



8. Support and warranty: Converted systems are supported as if brand new.



9. Green and clean: Refurbishing your medical equipment contributes to a more sustainable, circular economy



10. Maintain patient capacity: A Catalyst conversion facilitates minimal disruption to hospital operation and patients as well as to the associated revenue losses that are caused by taking one of your systems out of service for a prolonged period of time.

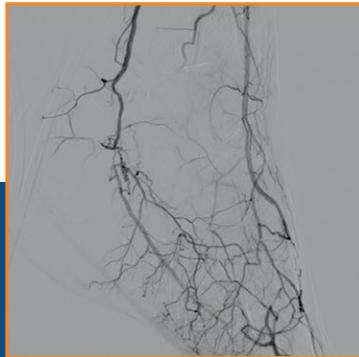
“It is our goal to **expand the life** of your investment”

Gene Saragnese, CEO Imaging

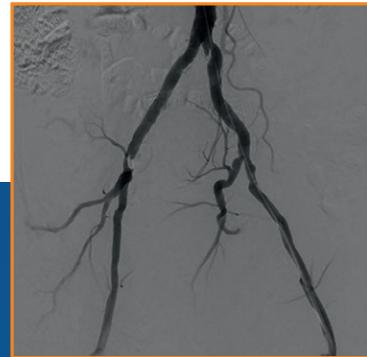
Philips AlluraClarity family see with confidence

During interventions you want to see with confidence - every time. AlluraClarity with ClarityIQ technology allows you this confidence. Philips' AlluraClarity family is a revolutionary generation of interventional X-ray systems which provide high quality imaging for a full range of clinical procedures at low dose levels.

Interventional Radiology



Patient suffering from critical limb ischemia

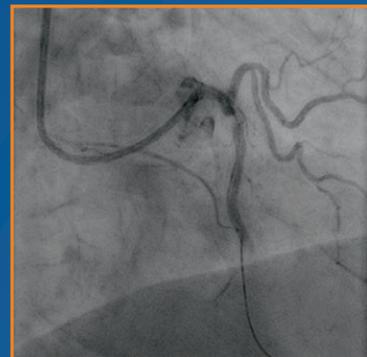


60 year old male smoker (BMI 24.7) with hypertension and hyperlipidaemia

Cardiology



51 year old female (BMI 28) with angina pectoris



61 year old male (BMI 31) with diabetes and hypertension 2nd attempts CTO in RCA.

family, ence every time

“It is the **invisible revolution**.
You can't see it, but it is
going to **change**
everything.”

Dr. M. van Strijen, Nieuwegein, the Netherlands

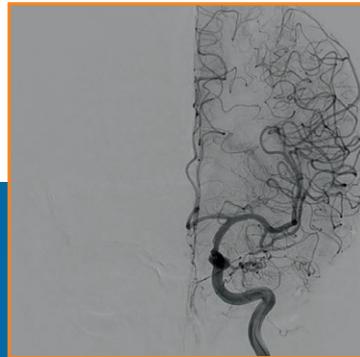
A quantum leap forward for your interventions

As you know, interventions are becoming increasingly complex. This, in turn, lengthens fluoroscopy time and increases the need for high resolution imaging. New devices can be more difficult to visualize, making it harder to position them precisely and the prevalence of patients with a high BMI can necessitate increased dose levels in order to visualize anatomy.

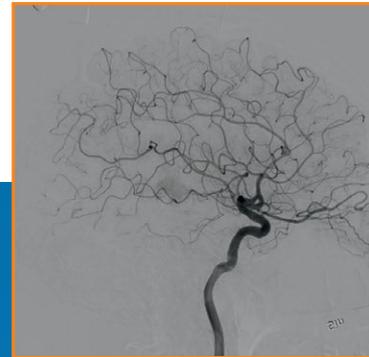
All of these factors inspired us to completely redefine the balance in interventional X-ray with our Philips AlluraClarity family.

AlluraClarity with its unique ClarityIQ technology gives you excellent live image guidance during treatment. What's more, you can confidently manage low X-ray dose levels without changing your way of working. In short, you can see what you have to regardless of patient size.

Interventional Neuroradiology

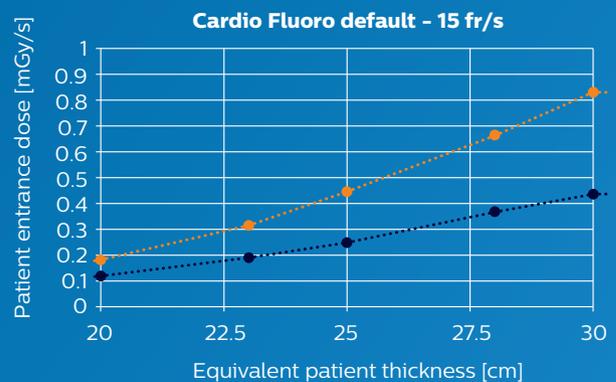
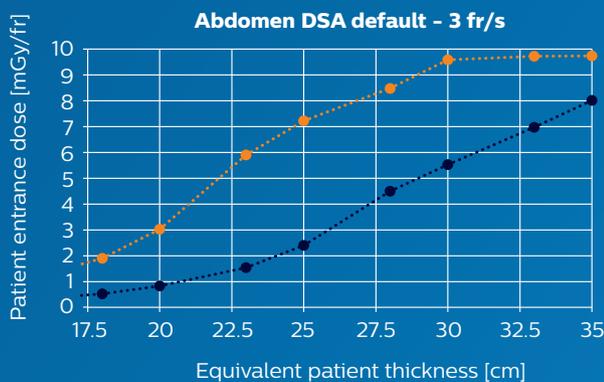


Cerebral angiogram of 53 year old male patient



53 year old male with aneurysm

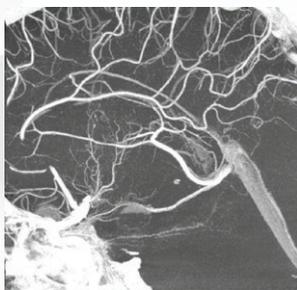
—●— Allura Xper Phantom measurements according IEC 60601-2-43, with default X-ray protocol
—●— AlluraClarity



VasoCT

VasoCT supports improved treatment of ischemic stroke in the interventional X-ray lab. It uses high resolution soft tissue imaging technology to reveal key information about cerebral vascular structures in an extremely high level of detail.

VasoCT is designed to help you quickly identify and assess the size and direction of an occlusion in case of an ischemic stroke. This enables improved patient care by allowing treatment to be carried out as quickly as possible.



All available interventional tools

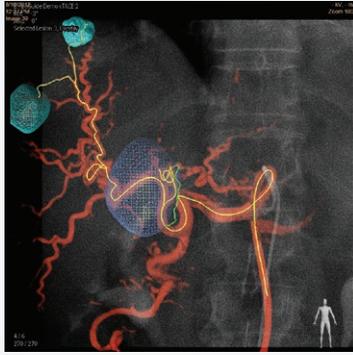
- Allura 3D-RA
- Dynamic 3D roadmapping
- XperCT
- XperCT Dual
- XperGuide
- EmboGuide
- VasoCT
- Allura 3D-CA
- Heartnavigator

Greater insight and confidence in **finding and treating** the problem

Our Live Image Guidance expands clinical capabilities through intelligent and intuitive integration of multi-modality images at the point of treatment, enabling confident diagnosis and real-time therapy monitoring.

EmboGuide

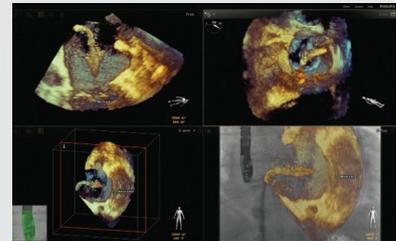
EmboGuide with XperCT Dual provides the first workflow-based tool to guide detection and treatment of tumors and vessel feeders to multiple lesions. One study showed EmboGuide detects 50% more feeders than standard DSA¹ EmboGuide, supports Live Image Guidance in various embolization procedures, such as transarterial chemoembolization (TACE), selective internal radiation therapy (SIRT), and prostate embolization.



- EchoNavigator
- Stentboost
- Stentboost Subtract
- EP Navigator
- Vascular Stentboost
- XperGuide ablation
- MR/CT Roadmap
- OncoSuite Embolization
- OncoSuite Complete
- OncoSuite Ablation
- 2D perfusion

EchoNavigator with SmartFusion

Fusing live X-ray and live echo for intuitive guidance during structural heart disease procedures.



“The beauty of good imaging is that you don’t have to imagine too much.”

Professor J. Zamorano, Head of Cardiology, University Hospital Ramon y Cajal, Madrid

StentBoost

StentBoost with its unique StentBoost Subtract feature allows you to see your stent in relation to the vessel wall. So you can immediately check positioning, before and after deploying balloons and stents, and confirm stent expansion. StentBoost is an excellent alternative to intravascular ultrasound (IVUS) when it is not available or when a quick result is required.



¹ Miyayama S et al., (2013). J. Vasc. Interv. Radiol. 2013 Apr;24(4):501-8

Give your interventional lab a new life

Philips SmartPath is our long term promise to give you easy access to the latest innovations throughout the cycle of your interventional suite. Our dedicated SmartPath Catalyst program is the practical and cost effective way to transform your current system into a state-of-the-art Philips AlluraClarity interventional suite.

Increase your capabilities, reduce your costs

There are clear economic, operational and environmental benefits to converting your Philips imaging system into a state-of-the-art Philips AlluraClarity platform. Essentially, you can now achieve the performance of the enhanced Philips system at a fraction of the cost associated with a new purchase.

By reusing key structural elements from your existing system architecture (such as the ceiling layout and interface with the building, the stand, ceiling rails, monitor-ceiling suspension, existing cable inlets and cable ducts, and optionally the X-ray tube), we are able to remove the majority of the price associated with installing a state-of-the-art iXR platform.

The SmartPath to premium technology

Instead, we focus on updating your system's technology to the latest versions, as used in our new system deliveries. This includes all software, imaging and control circuitry, and flat panel displays – providing you with Philips best-in-class imaging and diagnostic capabilities and functionality.

This updated technology enables you to use low X-ray doses without compromising image quality. The program also represents the ideal opportunity to consider further system enhancements, such as the FlexVision XL Large Screen option, data integration, and other features which have become available since your initial system purchase. You will now also have access to additional interventional tools, such as XperCT, XperGuide, Stentboost subtract, EchoNavigator etc, enabling you to expand your interventional X-ray care services*.

System overhaul without the disruption

Because the system interface with the building is re-used for a conversion, key structural components remain in place and (for the majority of configurations) only mobile parts are upgraded. This means installation time is short and requires no disruptive construction work, so customers experience minimized downtime both at system and department level.

Furthermore, the Catalyst conversion does not require the other technical elements in and around the lab to be updated to the latest code standards, as would be the case (in several countries) for brand new equipment. Additional hardware now also offers full tableside control of all features and options, providing fast, efficient workflow and ease of use.

A sustainable solution

Philips offers training on all new system functionalities, enabling your staff to work confidently with their new system from day one. Additionally, our converted systems are supported as if they were brand new, with the same warranty period, giving you peace of mind in your investment.

*The advanced interventional tools are available as separately purchasable options.

A close-up, low-angle photograph of a man's face, looking downwards. The image is in soft focus, with the man's eyes and nose being the most prominent features. He is wearing a dark blue shirt. The background is a light, neutral color.

Circular Economy

At Philips we strive to make the world healthier and more sustainable through innovation and our goal is to improve the lives of 3 billion people a year by 2025. For a sustainable world, we see the transition from a linear to a circular economy as a necessary boundary condition.

A circular economy aims to decouple economic growth from the use of natural resources and ecosystems by using those resources more effectively. By definition it is a driver for innovation in the areas of material-, component- and product reuse, as well as new business models such as solutions and services.

In a circular economy, the more effective use of materials enables to create more value, both by cost savings and by developing new markets or growing existing ones. Refurbishing old Philips medical equipment instead of building from scratch is just one way in which we can help to realize this smart, sustainable future.

“ Like all major transitions in human history, **the shift from a linear to a circular economy** will be a tumultuous one. It will feature pioneers and naysayers, victories and setbacks. But, if **businesses, governments, and consumers** each do their part, the evolution of innovative business models and closed-loop concepts like **remanufacturing, refurbishing and parts harvesting**, will put the global economy on a path of sustainable growth. Many years from now, people will look back on it as a revolution.”

Frans van Houten, CEO, Royal Philips

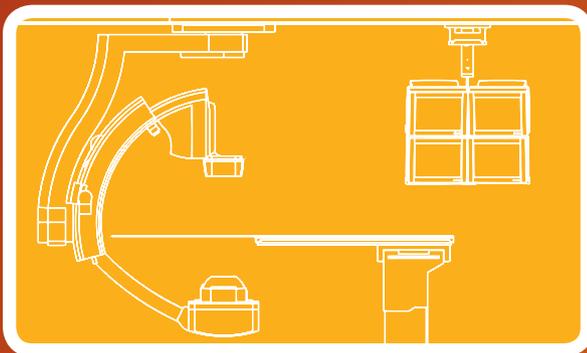
“ We like Catalyst because it **saves us time and money**. To me there is no difference when compared to a brand new system. The installation was seamless and the service and the product are amazing. It’s remarkable that **you can re-use an existing system in this way**.”

Tom Summitt, Director of Cardiology Services, Methodist Main San Antonio, December 2014

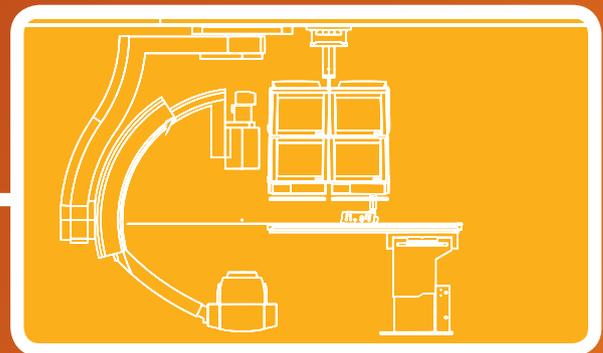
Catalyst program – examples

A Catalyst conversion is possible for many different systems. Please ask our sales representative for more detailed information related to your specific configuration.

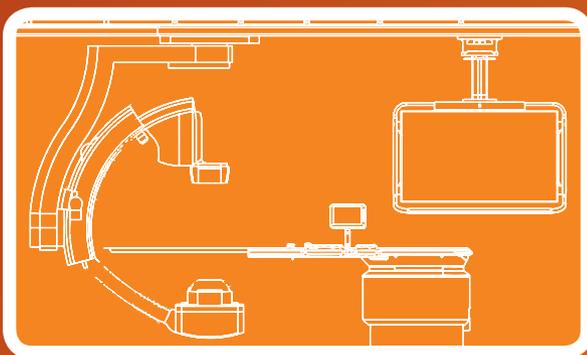
From: FD10



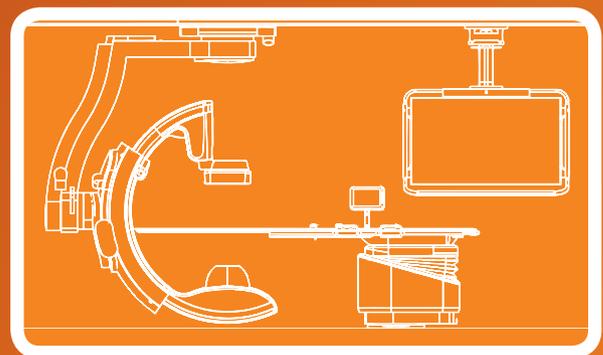
From: Integris H5000 or Allura 9



To: AlluraClarity FD10



To: AlluraClarity FD20



Typical re-use elements are¹:

- Monitor Ceiling Carriage and rails
- Stand rails
- Frontal stand
- MRC GS X-Ray tube
- Older arms will be replaced.

All of the mechanical interfaces with the hospital and cable ducts can be re-used, thereby avoiding the need for construction changes to fit the converted system. This saves significant exchange time and costly construction work and disruption of hospital operation in nearby rooms, which is something that would apply when installing any other vendor equipment.

¹ The specific re-use elements depend on the exact configuration



Value Calculation

Our online Value Calculator allows you to explore and assess the benefits of a SmartPath Catalyst program at your facility. The tool is designed to compare the total costs of converting your system versus those required to purchase a brand new one. Try it now to understand the true value that Catalyst can offer you, and your patients. Our sales representative can also provide you with a more detailed and customer specific Value Calculation.

www.philips.com/catalyst-calculator

Investing in a partnership

We are dedicated to helping keep your quality of care as high as possible, while reducing your risk and costs. Your interventional suite is a long-term commitment to your patients and personnel. We too have a long-term vision for interventional imaging, supported by an extremely comprehensive portfolio of service options.

Global expertise and infrastructure, locally delivered

Wherever you are in the world, Philips is ready to support you. Our local field service teams understand your local needs. At the same time, they're backed by our extensive technical support network and international research and development organization. We channel our global reach towards delivering you world-class expertise.



Visit our website for more information:
www.philips.com/catalyst

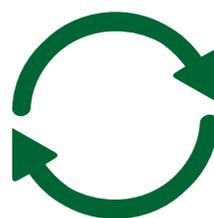
Partnering with Philips to enhance your investment and expand your capabilities



Enhance



Optimize



Trade-in



Transform

We collaborate with you in the long-range planning of your medical imaging needs. With Philips SmartPath you can optimize, enhance, or transform your existing equipment so you have "like new" functionality throughout the whole lifecycle. You gain the most advanced enhancements in workflow, clinical capabilities and imaging quality with the equipment you already own.

Philips SmartPath is a partnership program that also helps you extend the life of your equipment. You can get the latest technology for a fraction of the cost or disruption of buying and installing new. If you prefer to replace your equipment with a new system, you can choose to trade in your current system at attractive terms. And you can conserve capex budget by selecting a financing option that suits your business need.

www.philips.com/smartpath

