

PHILIPS

Image Guided Therapy

Mobile C-arm System
9000

Zenition 90



**Unlimited potential
at your fingertips**





Introducing Philips Image Guided Therapy Mobile C-arm System 9000 – Zenition 90

Modern surgical imaging systems must be fully equipped to handle increasing patient volumes and longer, more complex procedures. Mobile C-arm systems need to deliver flexibility, speed, and excellent imaging during interventions and surgeries, for a broad range of patient types. At the same time, efficiency is vital – with user-friendliness and operational efficiency remaining top priorities.



Outstanding user experience



Increase OR performance



Enhance clinical capabilities over time

Built on the foundations of the Zenition platform's industry-defining ease of use and workflow efficiency, the Philips Image Guided Therapy Mobile C-arm System 9000 – Zenition 90 is a solution designed to go beyond your orthopedic and vascular needs, such as a range of clinical procedures including pain management, urology, gastroenterology, and cardiac interventions.

Experience exceptional imaging clarity and new automated workflows, while taking advantage of the Touch Screen Module for image control from within the sterile field – helping increase efficiency.

Key benefits at a glance

Perform complex and extended procedures

Perform a variety of procedures with steep angles and on dense anatomies. The Zenition 90 C-arm has the power and endurance needed to perform complex or extended imaging procedures while consistently achieving high imaging quality, thanks to features such as active oil circulation and an optimized tank heat management system.

Outline vascular edges with a single click

Rapidly outline vascular edges using the Automatic Vascular Outlining tool with a single click of a button from anywhere in the OR without impacting sterility – for greater efficiency and independence.

Control contrast injections at the table-side

Gain greater control and independence through the ability to adjust and start contrast injections (in relation to X-ray acquisition) from both sterile and non-sterile areas, and experience first-time-right imaging.

Increase table-side control for surgeons

The Touch Screen Module offers increased flexibility by allowing users to control imaging parameters from the sterile field. It displays the same clinical image as the Mobile View Station and boasts the same functionality as the C-arm mounted screen.

Personalize image acquisition

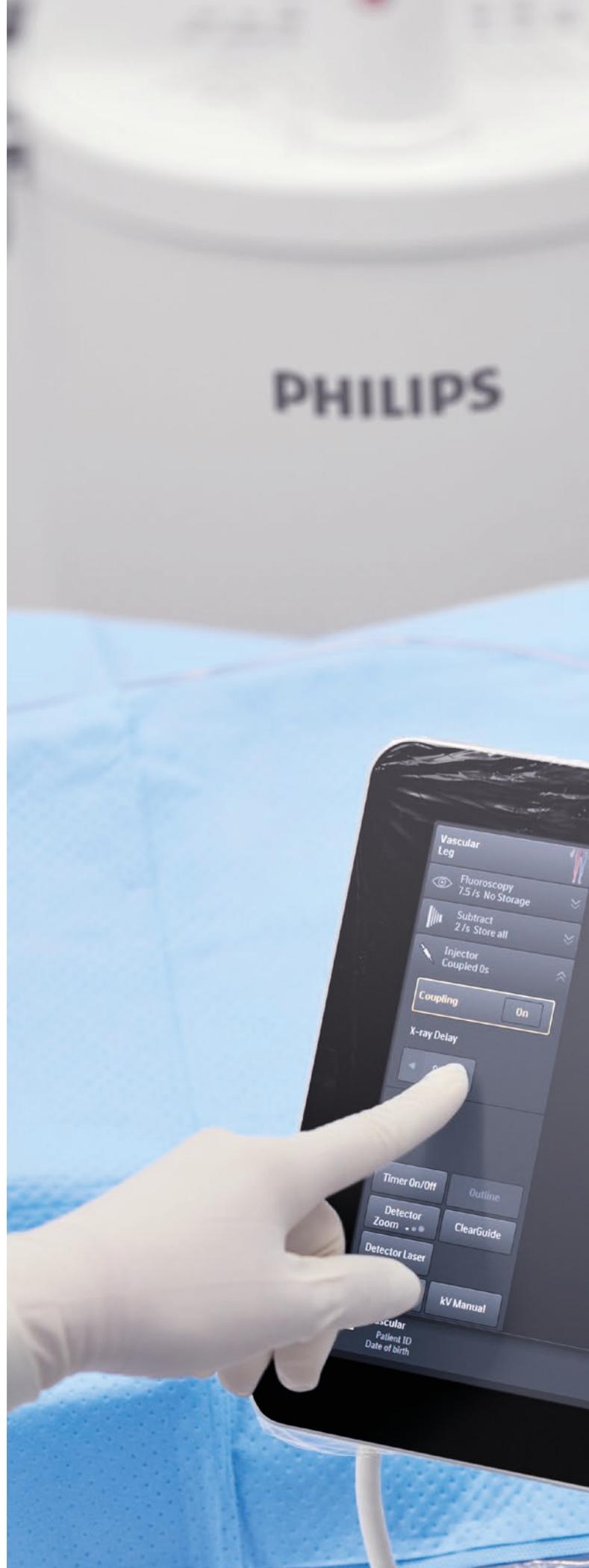
Personalized IQ offers a range of application-specific protocols and customizable presets, streamlining X-ray imaging for a variety of procedures and patients. Users can further elevate their experience by creating unique profiles, enabling them to tailor imaging and general settings to their preferences.

Automatic metal exclusion

Enhance image quality and manage dose for orthopedic and other procedures, and patients with metal implants, through our standard MetalSmart software feature.

High uptime, fast resolution, and reduced on-site visits

Philips Remote Services increases system uptime with faster issue diagnosis and resolution, with Wi-Fi enabled by default. Benefit from a low-maintenance design based on Philips' 65+ years of experience.





System Help ?

PHILIPS

- Flag
- Park
- Recall
- Contrast Brightness
- Flip
- Mirror
- Couple Shutters
- Reset Shutters and Collimator
- Automatic Shutter Pos.

Standard

0° 0° 0.0 cm 0.0 cm 55 kV 0.476 mA 1.32 mA 0.000 mGy Time 0:00

96% of physicians said that the Touch Screen Module gave them complete control over imaging parameters¹



Outstanding user experience



At Philips, we focus on the specific needs and challenges of our customers. That is why we have designed the Zenition 90 to deliver usability by design – with a counterbalanced C-arm, intuitive interface and table-side control via the Touch Screen Module. Together, these functions and features provide a strong platform for positive outcomes.

Independence in the OR

The **Touch Screen Module** provides a user-friendly experience with a familiar tablet-like interface. This results in hassle-free communications and greater control, with the ability to easily handle C-arm image functions directly from the table-side. Adjust imaging parameters, collimate, rotate, and swipe through images – all with a fingertip.

Alongside this, the **counterbalanced C-arm** further enhances independence while helping keep staffing costs under control. The system can be easily operated by a single surgeon – with the smooth movements of a fully counterbalanced C-arm.

The **Pedestal Trolley** facilitates further OR workflow optimization, with the Touch Screen Module attached to it, creating an effective sterile mobile imaging station, away from the table.

Personalize the system

Experience first-time-right imaging with a system that can be adapted to specific user needs. The **Personalized IQ** feature offers application-specific protocols and customizable presets that let users optimize and standardize the system setup for various procedures and patients. Streamline its use by creating a unique **User Profile** with personal preferences for imaging and general parameters, including a Personalized IQ choice.

Upon profile selection, there is a seamless user experience. The system will automatically adjust to the personalized settings, eliminating the need for adjustments during procedures – and saving valuable time.

Accurately return to pre-saved positions

Speed up re-positioning and achieve first-time-right positioning by recalling stored C-arm positions via the **Position Memory** function. This feature enables the coordinates of every stored image to be displayed, as well as the current and saved positions. As a result, users can smoothly guide the C-arm back to the exact projection that is required.





Easy collaboration

Smooth, efficient coordination is vital during procedures. Zenition 90 offers a range of technical features that help minimize distractions so that surgeons can focus fully on their patients. **The Unify Workflow** reduces miscommunication thanks to features such as Position Memory, ClearGuide – which provides a set of reference numbers on clinical images that match with numbers on the detector – and Color Coding (a visual aid relating to system movement).

This system's user-centric approach is further elevated by the convenient controls for operators of all experience levels, with a **uniform design** across the Zenition series. With standardized yet customizable operation, users quickly feel comfortable using the system.

**45% less
miscommunication**
during positioning through
our Unify workflow
communication aids²

Increase OR performance



Whether your team is performing a routine surgery or a complex intervention, time is of the essence. Zenition 90 is specifically engineered to facilitate a smooth workflow that surgeons can easily control, so that they can turn their attention to the procedure and patient at hand. It offers user-friendly controls, time-saving features, and a resilient platform designed for continuous high performance.

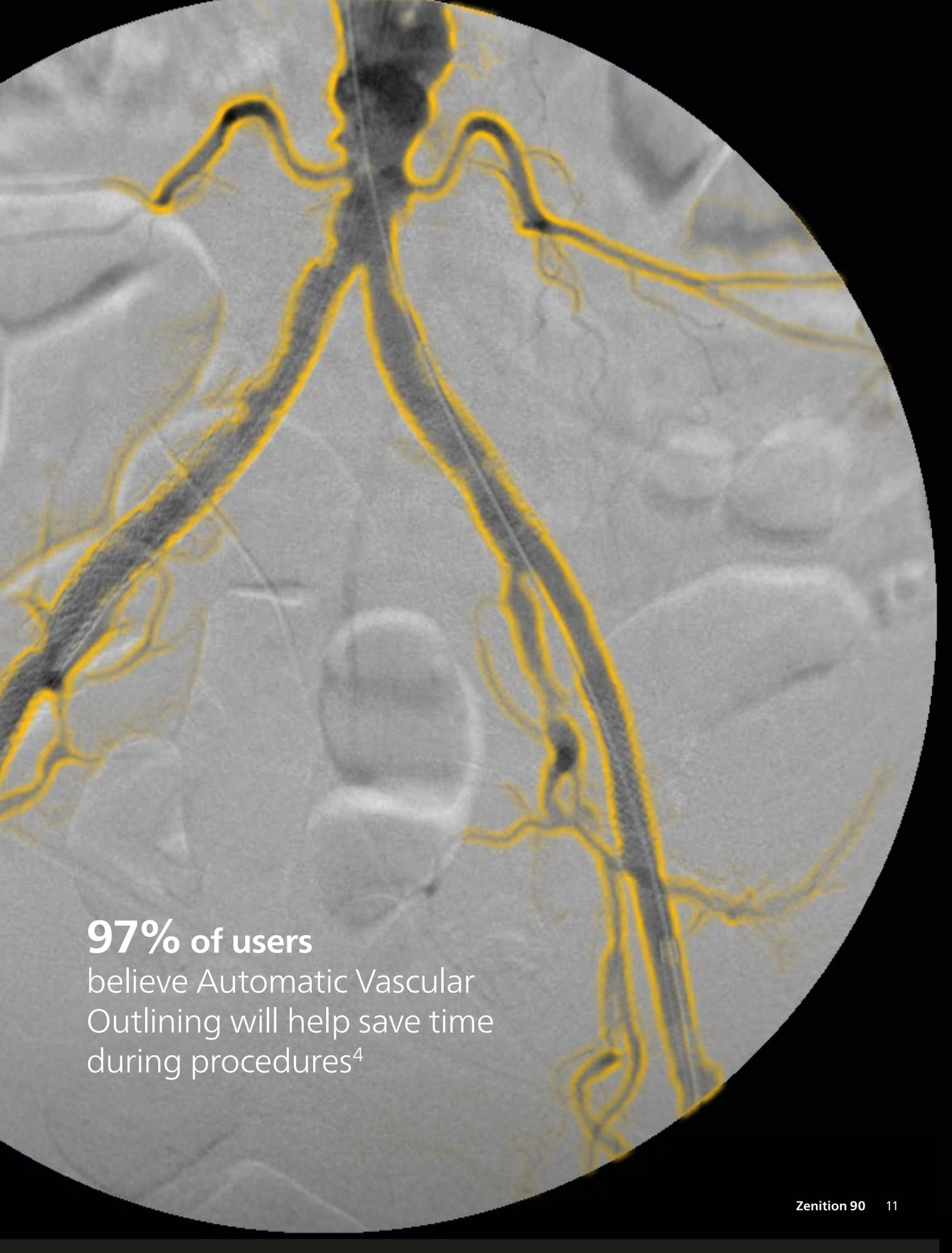
Increased control and efficiency with automated workflows

The **injector interface** enables users to start and adjust contrast injections (in relation to X-ray acquisition) from the Touch Screen Module at the table-side – or from other areas of the OR if attached to the Pedestal Trolley. Combine it with the standard **Timer** feature to further enhance overall usability.

After contrast injection, quickly outline vascular edges by activating the **Automatic Vascular Outlining** tool on the subtraction image from anywhere in the OR – without impacting sterility. This helps save time and may reduce the amount of contrast agent required, while further enhancing independence.

Point-and-shoot imaging further accelerates the workflow and reduces complexity with one-click exam presets, which are optimized for every procedure. Select individual anatomical regions with a single click.

97% of users
believe the injector interface
will give surgeons greater
control over procedures³



97% of users
believe Automatic Vascular
Outlining will help save time
during procedures⁴

Ensure high productivity over time

Experience a **fast learning curve** with Zenition 90, with intuitive controls, on-screen tips, digital user guides, and clinical education solutions designed to help reduce training time and costs. Our newly designed e-learning modules offer the possibility of learning on different devices, at home or at work.

Zenition 90 also accommodates new software options to extend the system's clinical relevance, thanks to its **Windows® platform**. It supports compliance with the latest security standards, and encryption to protect patient data and prevent malware attacks which can affect service delivery, thereby enhancing uptime and cybersecurity.

Easily connect your fleet of Zenition 90 mobile C-arms with other OR systems and your hospital infrastructure, thanks to **advanced connectivity and interoperability tools** – saving time with fast communication across the hospital.

The system's low-maintenance design leverages Philips' 65+ years of experience. Philips Remote Services provides remote connectivity for faster issue diagnosis and resolution – helping maintain high uptime. With Philips' technical experts able to log in remotely and assist from a distance, on-site visits and disruption are kept to a minimum. Additionally, Wi-Fi is enabled by default, for easy data transfer to help reduce cable clutter and eliminate unnecessary steps in the workflow.

Further reduce the resources you spend on service activities with **Healthcare Operational Services***, a broad portfolio of eight multi-tier service agreements tailored to needs and goals. Choose from a diverse range of direct support options, where you effectively rely on Philips, or tiered support, where in-house capabilities are complemented by Philips support and expertise.





Enhance clinical capabilities over time



With increasing patient volumes and complex procedures, maintaining high standards of quality and safety in healthcare is crucial. Zenition 90 empowers medical teams to confidently perform a wide range of interventions while effectively managing radiation dose. It offers personalized image quality settings and the necessary power to meet the clinical demands of today and tomorrow.

Power and endurance for complex procedures

Zenition 90 is engineered for demanding imaging. Its **15 kW generator** delivers power and endurance to smoothly perform a variety of procedures, even with steep angles and on dense anatomies. Active oil circulation and improved heat management further enhance the system's performance, allowing for longer fluoroscopy and extended procedure times.

Excellent image quality at efficient dose levels

Benefit from Philips' premium imaging technologies and advanced image processing, to visualize complex structures and dense anatomy with exceptional clarity. The Flat Detector technology (**30x30 cm** for more anatomical coverage, or **21x21 cm** for positioning flexibility) delivers distortion-free images at low dose. The solution combines the radiation management features of our comprehensive DoseWise tools with training and integrated product technologies.

Our **MetalSmart** and **BodySmart** software tools further support efforts to achieve first-time-right imaging and dose efficiency. MetalSmart, our automatic metal exclusion software, excludes metal from the measuring field and adjusts exposure parameters – for example, during orthopedic and other procedures, or when treating patients with metal implants – to deliver excellent-quality images with optimal anatomical contrast at reduced doses. BodySmart, meanwhile, automatically adapts the measuring field to the area of interest.





Step 1
Select Procedure

Examination Type Selection

Step 2
Select Anatomy

Skeleton

Urology

Endoscopy

Vascular

Cardio



Skull



84% of users believe the pediatric mode could enhance confidence when treating pediatric patients⁵

Clinical extensions

Zenition 90 offers optimized imaging presets for all your needs, paving the way for first-time-right imaging. Orthopedic and pediatric modes are offered as standard, with additional optional extensions available for vascular, cardiac, and pain management.

Optimized workflows for pediatric patients

Improved pediatric imaging presets help ensure high-quality images at low doses. The **pediatric mode** further optimizes the imaging workflow as it includes user alerts to remove the detector anti-scatter X-ray grid. This intuitive feature enhances your clinical capabilities while improving the safety of pediatric patients.

Extend your system's clinical relevance

Efficiently handle future upgrades with the **Technology Maximizer** program. Operating alongside your Philips service agreement, this hardware and software refresh program keeps your system in state-of-the-art condition throughout the term of the agreement. For a reasonable, predictable fee, it combines clinical, financial, and operational security into a single package.

Embracing sustainability

When you choose Philips, you are choosing a partner committed to meeting sustainability and circular economy ambitions. We aim to grow Philips responsibly and sustainably, and therefore continuously set ourselves challenging environmental and social targets and living up to the highest standards of governance. 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.

Zenition 90 is the result of our EcoDesign process and offers significant environmental improvements:



Product durability increased by **25%**⁶



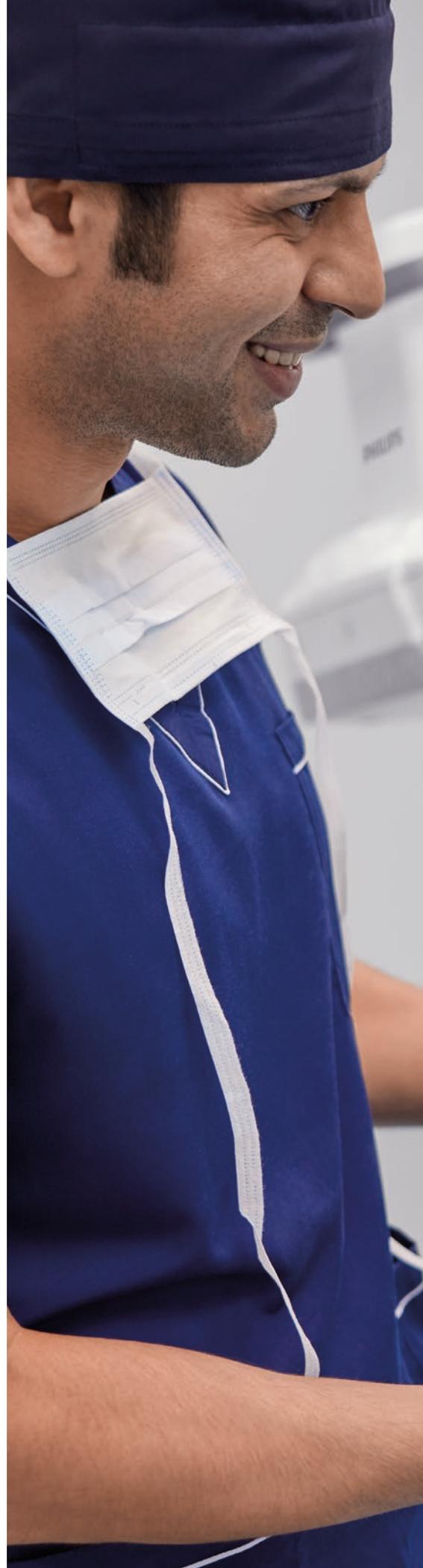
Energy use reduced by **13%**⁷



Parts recovery during servicing, with recycling passport available to ensure high-quality disassembly and recycling



Zenition 90 is manufactured at a **site certified** for Environmental Management (ISO14001), Occupational Health and Safety (ISO45001)







¹ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Based on responses from 25 physicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.

² Results obtained during user tests performed in November 2013 by Use-Lab GmbH, an independent company. The tests involved 30 USA-based clinicians (15 physicians teamed up with 15 nurses or X-ray technicians), who performed simulated procedures using Philips mobile X-ray systems in a simulated OR environment. None of them had worked with each other before.

³ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Based on responses from 44 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.

⁴ Results obtained during claims substantiation study performed in June 2022 and May 2023 by Use-Lab GmbH, an independent company. Based on responses from 49 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with the system.

⁵ Results obtained during claims substantiation study performed in February and September 2022 by Use-Lab GmbH, an independent company. Based on responses from 37 clinicians from the EU and the US, who answered a questionnaire after a usability study with additional hands-on time with a Philips mobile X-ray system.

⁶ Designed for 4000 additional procedures compared to predecessor Zenition 70, based on lab testing.

⁷ Compared to predecessor Zenition 70, based on a comparable average use scenario of 4 examinations/day.

- The X-ray dose reductions refer to specific features and will vary depending on the dose parameters selected.
- Some clinical images shown are from Zenition 70 and Veradius Unity and do not represent the final image quality of the Zenition 90.
- Zenition 90 systems are available for sale in a limited number of countries. Please check with your local Philips representative.
- Some features shown are optional for Zenition 90.
- Actual product representation may vary.
- Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
- Contact your Philips representative for most current information