PHILIPS

Image Guided Therapy
Mobile C-arm System

Zenition Series

Unlimited potential at your fingertips

As people live longer, they are suffering from complex orthopedic conditions and a high prevalence of osteoporosis. Obesity is also rising and causing spine and joint disorders.

Trauma and musculoskeletal injuries are a cause of death in developing nations. At the same time, low back pain is the leading cause of activity limitation and workplace absence worldwide.

An aging population and rise in obesity put new demands on the OR

High quality imaging and steep projections are key to visualizing details of osteoporosis, and spine and joint fractures, in normal and high BMI patients. In some cases these patients have metal objects, which can obscure visibility.

To support superb care that improves the quality of life for your orthopedic patients, our innovative Zenition mobile C-arm offers the Orthopedics extension. Its advanced features address the unique challenges of today's orthopedic procedures.

Enhance orthopedic surgery with Philips Zenition Orthopedic C-arms

With Zenition, you gain exceptional image clarity of dense and complex orthopedic anatomy to support diverse spine and joint cases. This harmonized range of systems is designed to reduce operational costs, simplify use and streamline fleet management.

Key benefits

- Enhance image quality and dose efficiency of dense and complex structures
- Reduce miscommunication and positioning errors[1]
- Increase OR efficiency with user-friendly controls
- Simplify fleet use and management across ORs

Enhance clinical capabilities

Personalize your orthopedic procedures

- 5 field of view choices across II and FD technologies
- Up to 90% dose reduction for certain orthopedic anatomies (DoseWise Zenition)

Ortho personalization tools

Personalize planning

- Zenition offers 5 choices of II and FD technologies, providing a patient-specific customizations for orthopedic anatomies. It enables precise imaging and dose parameters for each patient
- Zenition orthopedic exam settings automatically select the specific image quality and dose settings for the specific anatomy to enhance results

Personalize guidance

- Measurements and feedback facilitate intra-operative decisions and adjustments based on actual patient image

Personalize verification

- Confirm proper positioning prior to closing up the patient

FD 30 x 30 cm

FD 26 x 26 cm

FD 21 x 21 cm

II 12"

II 9"

Zenition dose management – DoseWise

Philips DoseWise Zenition is a combination of techniques, programs and practices, built into our Zenition mobile C-arm systems that provide clinically relevant image quality during each application, while efficiently managing dose. Zenition provides a wide range of dose-frame rate combinations, enabling up to 90% X-ray dose reduction for certain anatomies. For each X-ray protocol, four fluoro dose choices are available to the user: low, normal, medium, and high. These settings range from 15 mGy/min up to 160 mGy/min, so the lowest dose level is only about 10% of the highest dose level. Each fluoro dose can be set.

Increase OR performance

Orthopedic anatomic settings save time

An image of a fracture repair in an ankle or a left hip require different imaging parameters. Zenition provides a pre-set list of orthopedic acquisition settings grouped by anatomy, so you can easily select the relevant anatomical area from the list. The system automatically applies the parameters to deliver superb image quality at excellent X-ray dose efficiency.

Automatic image enhancement

MetalSmart automatically excludes metal artifacts caused by metal implants to provide higher image quality and efficient dose control for orthopedic procedures and patients with metal implants, compared to systems without metal exclusion. BodySmart promotes first-time-right imaging and dose efficiency by automatically adapting the measuring field to the area of interest.

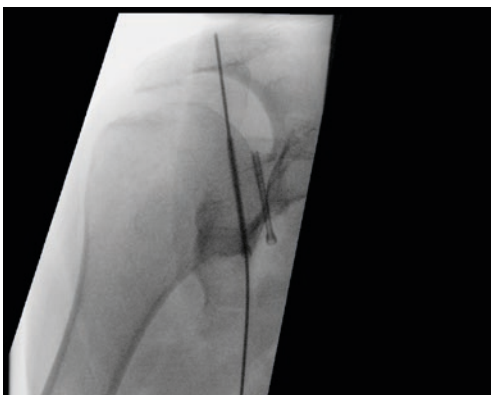
Asymmetric Collimation with a fingertip

Asymmetric shutters increase collimation flexibility and help you collimate the anatomy outside your field of interest with a fingertip. You can adjust shutters and image orientation while on last image hold without using radiation.

Reduce total cost of ownership and avoid obsolescence

Extend your system's clinical performance with the standard Windows® platform ready to incorporate new innovations and software upgrades. Realize high uptime with easy serviceability and remote support options that can handle many service issues without an on-site visit. Leverage the capabilities of in-house service teams with our RightFit support options.

Asymmetric collimator



Accurate Anatomic settings

MetalSmart

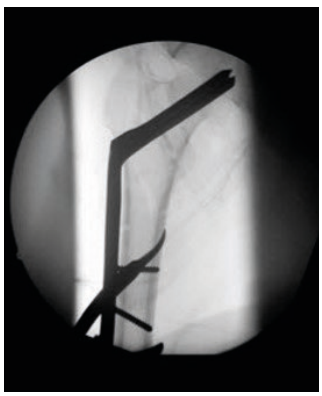


Image without MetalSmart applied. IQ at 72kV.

With MetalSmart applied. No overexposure - same 72kV.

BodySmart

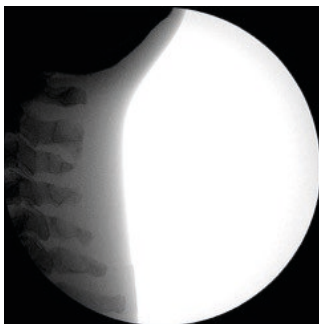


Image without BodySmart applied.

Image with BodySmart applied.

Outstanding user experience

Reduce distractions with Zenition's tablet-like simplicity and communication aids

Position Memory increases first-time-right repositioning[1]

Simplify workflow for challenging orthopedic cases requiring frequent re-positioning of the mobile C-arm. With Position Memory,[2] participants in a usability study[1] achieved 94% first-time right repositioning and experienced less frustration during (re)positioning tasks. They also reduced (re)positioning time by 20%.

Unify workflow cuts miscommunication by almost half[1]

When setting pedicle screws for a spinal fusion or locking a nail for a mid-shaft fracture repair, reducing technical distractions and discussions can help surgical teams remain focused on what's important, the patient. Experience smoother team interactions with Unify workflow that cuts miscommunication by almost half.[1]

Image more patients with large C-arm bore and 50° overscan

The large C-arm bore and standard 50° overscan of the fully counterbalanced C-arm provide ample room to position around high BMI patients and image the lumbar spine and hip. Combined with the low profile tube tank, you can easily reach over the table, even with tables that have a large base.

Contact your local Philips representative for more information about how Zenition can help you meet your Orthopedics challenges.

Explore the Zenition Series online:
www.philips.com/zenition

www.philips.com

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[1] 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.

[2] Position Memory is only available on Zenition 70

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