Precision every day
Philips CT Smart Workflow

CT Smart Workflow harnesses the power of AI that's deeply embedded into the tools you use every day so that you can apply your expertise to the patient, not the process.

Remove common obstacles to CT performance, clearing the way for the precision in dose, speed and image quality. CT Smart Workflow enhances the experience from the start of the exam through reconstruction and review.
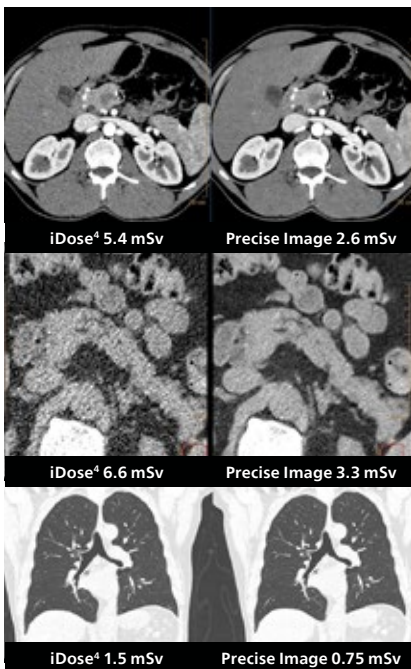
Every day
needs to be
first-time right

That's why every day need Smart Workflow. Harnessing the power of AI-enabled tools bring you the advances that matter in your day to day imaging, such as AI reconstruction, motion free cardiac, interventional needle guidance, and patient positioning.

Precise Image

iDose[4] 5.4 mSv   Precise Image 2.6 mSv

iDose[4] 6.6 mSv   Precise Image 3.3 mSv

iDose[4] 1.5 mSv   Precise Image 0.75 mSv

Improved confidence and reduced reading time
Precise image puts the power of deep-learning neural network to work for you for dramatic reductions in dose and image noise, significant increase in low-contrast detectability, and reductions in reading time. It's the industry's fastest AI reconstruction with all reference protocols reconstructed in less than one minute.

Simultaneously*

Up to **80%** lower radiation dose

Up to **60%** improved low-contrast detectability

Up to **85%** lower noise
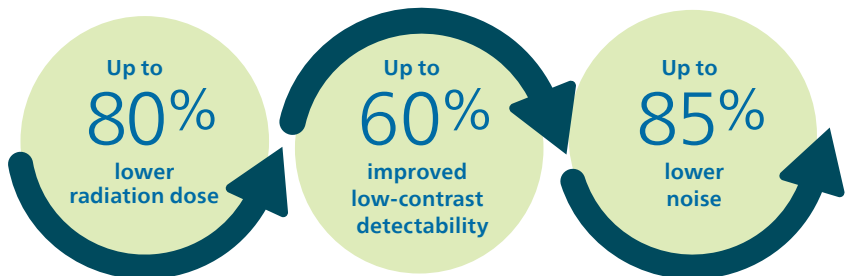
*Lower image noise, improved low-contrast detectability, and/or dose reduction were tested using reference body protocols. All metrics were tested on phantoms. Low-contrast detectability tests were performed using 1.0 mm slices, and tested on the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using an auto tool "CHO" (Channelized Hotelling Observer). Data on file.
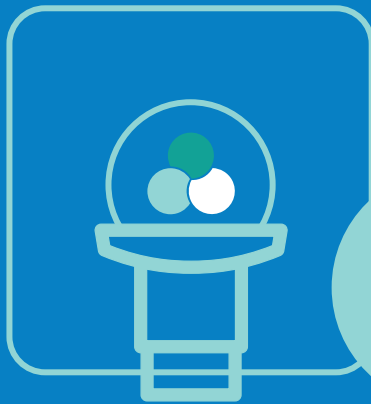
Reduces patient positioning time by up to **23%***

Increases user-to-user consistency by up to **70%***

Improves accuracy of vertical centering relative to manual positioning by up to **50%***
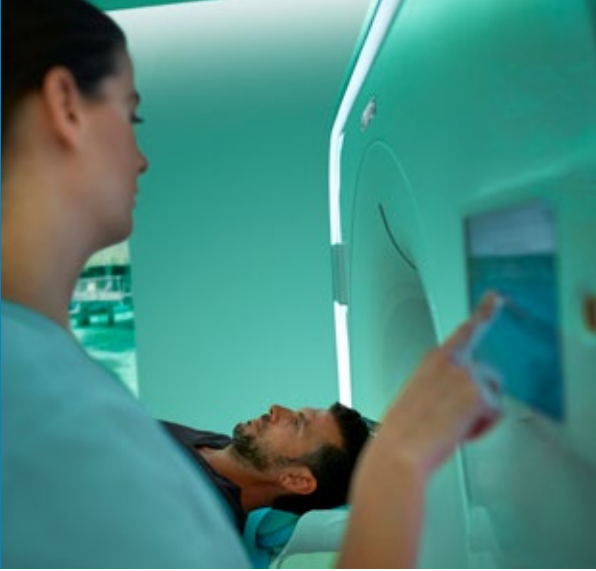
## Precise Position

Automatic patient positioning

Inaccurate patient positioning is a common and documented challenge in CT imaging, which can lead to unwanted consequences such as increased radiation dose to the patient and image noise.[1] An AI-enabled camera supports automatic patient positioning for increased positioning accuracy and user-to-user consistency in a fraction of the time.
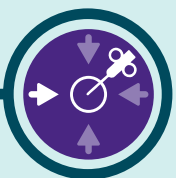
Precise Cardiac

Motion-free cardiac

Motion has long been a challenge in cardiac imaging, especially at high heart rates. Used prospectively or retrospectively, Precise Cardiac corrects for motion in cardiac images to enhance image quality at high heart rates.
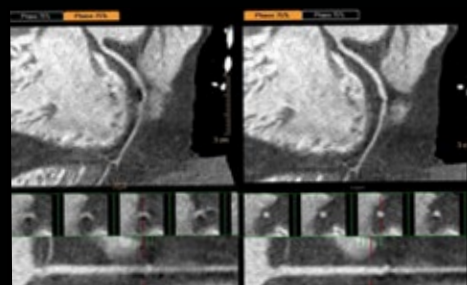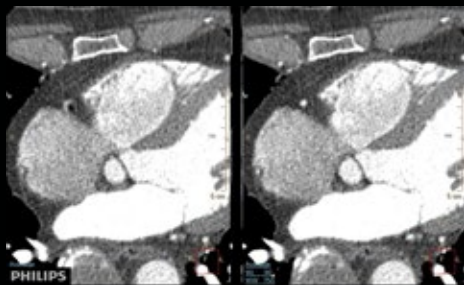
Precise Cardiac allows for motion-free cardiac imaging.

Precise Intervention
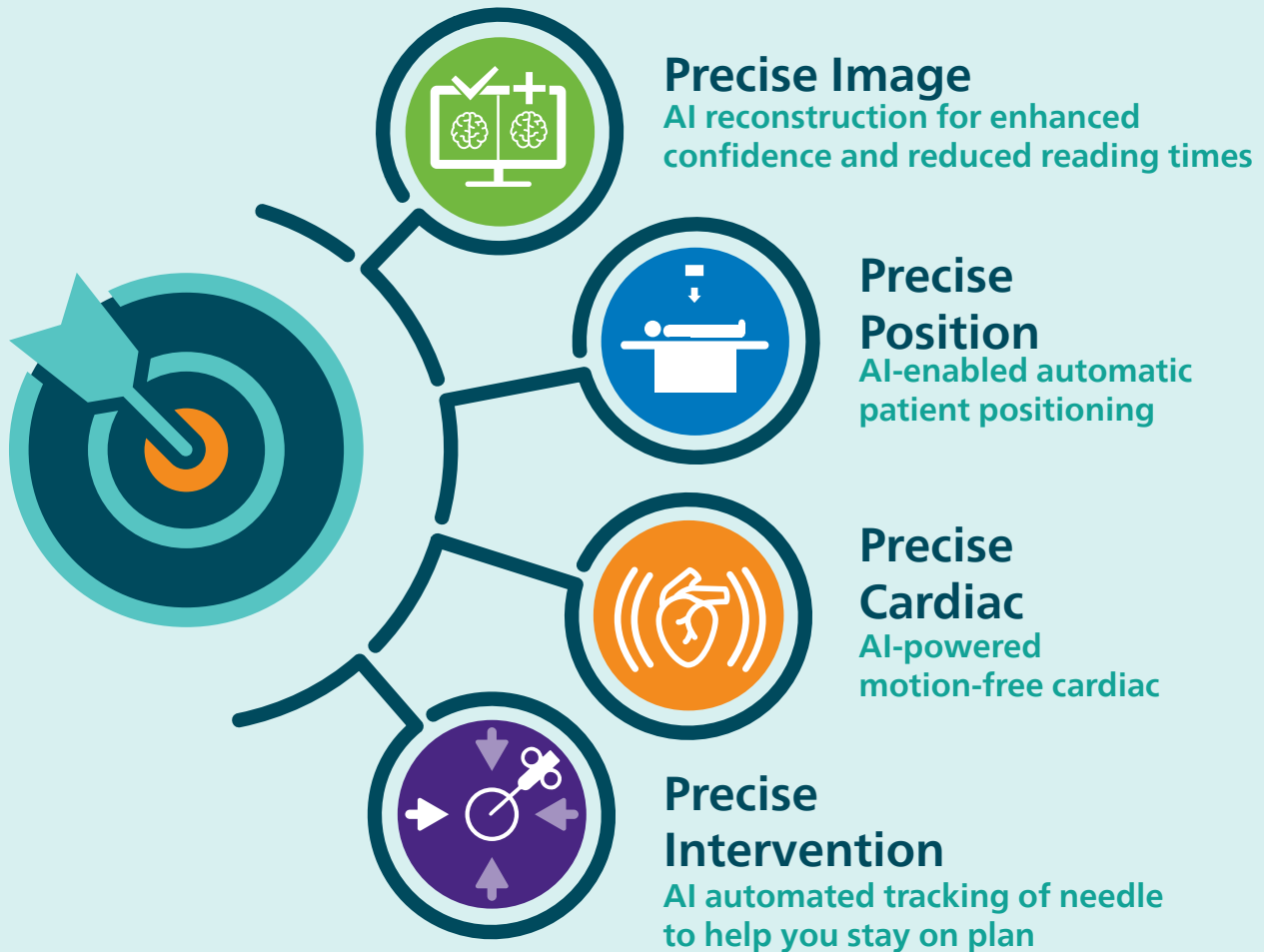
Automatic needle tracking

The needle guidance of Precise Intervention enhances workflow for confident interventional CT procedures. Automatically calculate depth, angle, tip-to-target and deviation from plan, enhancing the speed and efficiency necessary for quick and confident interventional procedures. In addition to Precise Intervention, CT 5100 – Incisive OnPlan gantry controls provide workflow flexibility to the interventional radiologist.

OnPlan allows workflow flexibility for the interventional radiologist.

*Based on Philips in-house assessment by five clinical experts, comparing manual versus Precise Positioning in 40 clinical cases using a human body phantom. Results from case studies are not predictive of results in other cases. Results in other cases may vary.

CT Smart Workflow

Precise Image
AI reconstruction for enhanced confidence and reduced reading times

Precise Position
AI-enabled automatic patient positioning

Precise Cardiac
AI-powered motion-free cardiac

Precise Intervention
AI automated tracking of needle to help you stay on plan

Reference

1. Toth T, Ge Z, Daly MP. The influence of patient centering on CT dose and image noise. *Med Phys*. 2007;34(7):3093-3101. DOI.org/10.1118/1.2748113.