

A photograph of a Philips MRI machine in a clinical setting. A female patient in a blue shirt and grey pants is sitting on the MRI table, looking towards a female technician in white scrubs who is standing and talking to her. The MRI machine is a large, white, cylindrical structure with the Philips logo visible on its side. The background is a clean, modern clinical room with white walls and ceiling lights.

PHILIPS

Radiation Oncology

MRI

Next generation MRI for radiation therapy is here.

MRI is uniquely qualified to become a primary imaging modality to enable oncology specialists to address today's challenges, from diagnosis to therapy guidance and follow-up.

The next generation Philips wide-bore digital MR-RT systems, Ingenia Elition 3.0T and Ambition 1.5T, are designed for simple, fast, and precise workflow, from start to finish. Employing cutting-edge MR imaging techniques, Ingenia Elition and Ambition offer specific benefits for radiotherapy.

By harnessing the full power of MRI, the new Elition and Ambition MR-RT deliver:

- State-of-the art digital platform at the forefront of MR imaging in RT with access to the latest innovations such as MR-only simulation and RTdrive prostate
- Up to 50% faster¹ 2D and 3D scans using Compressed SENSE
- BlueSeal magnet (Ambition 1.5T) for easier installation of MR into existing radiation oncology facilities
- New gradient design (Elition 3.0T) for fast diffusion-weighted imaging
- Excellent geometric accuracy with an industry-leading gradient linearity

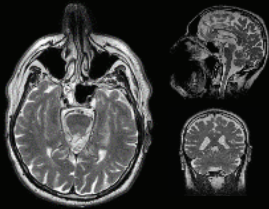
Compressed SENSE

Accelerate entire patient exam

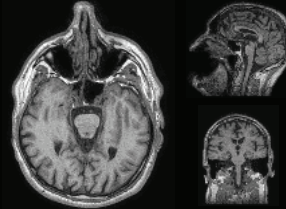
Fast overall exam-time is achieved through Compressed SENSE applied in dedicated RT ExamCards, which speeds scans and enhances patient comfort. This enhanced version of innovative SENSE technology enables 2D and 3D scans up to 50% faster¹ than before with virtually equal image quality, shortening the time the patient is in the scanner.

Compressed SENSE

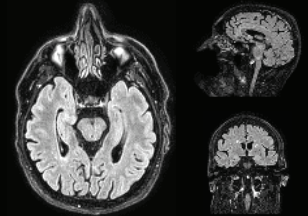
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T2W 3D TSE



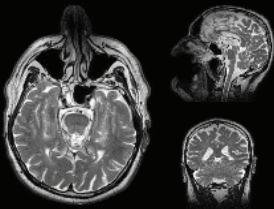
T1W 3D TFE



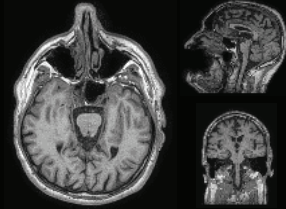
FLAIR 3DView

Without Compressed SENSE

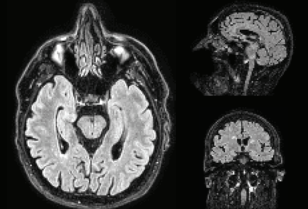
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T2W 3D TSE



T1W 3D TFE



FLAIR 3DView

Elition 3.0T with high performance gradient

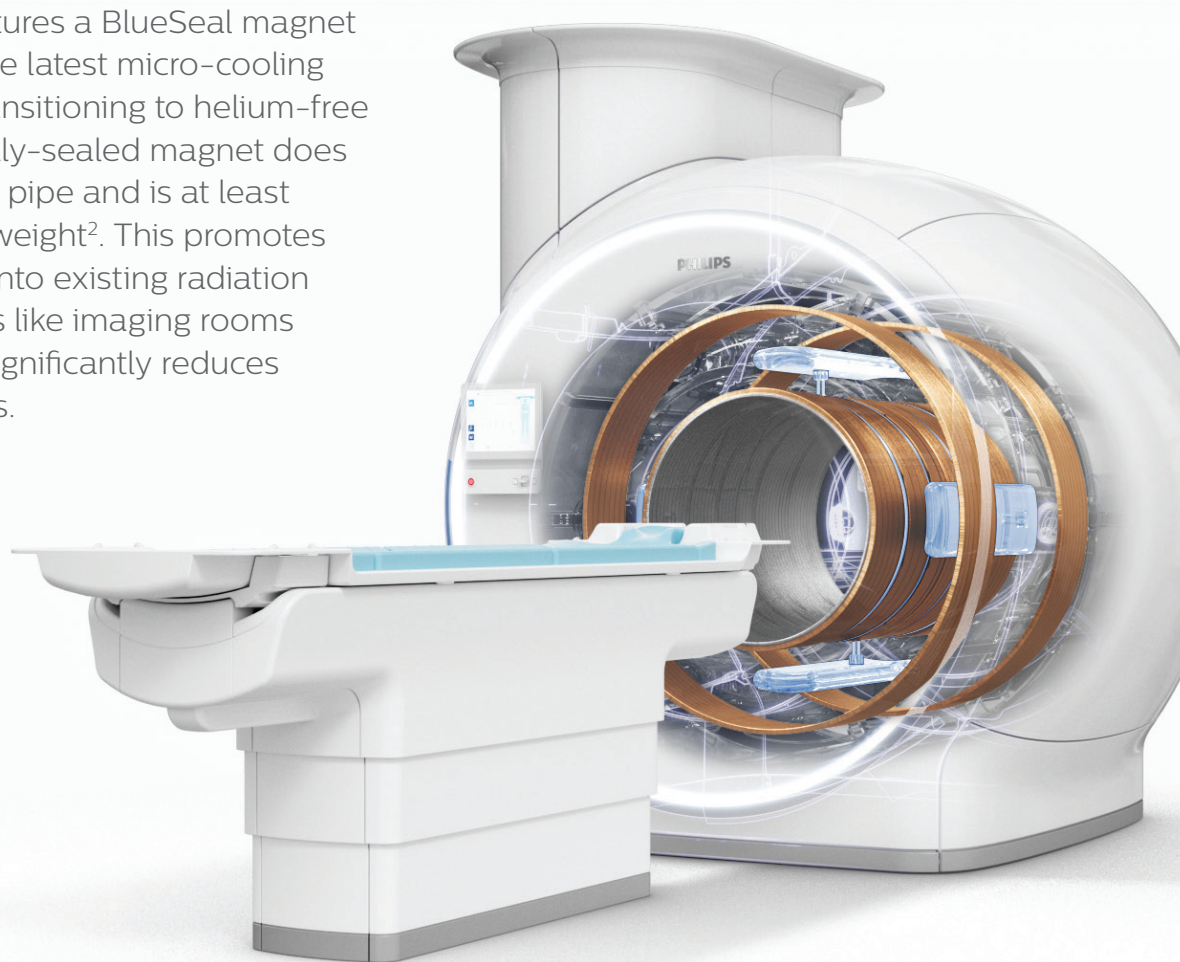
A revolutionary breakthrough in diagnostic quality – and speed

Ingenia Elition 3.0T's new high-performance gradients and RF designs enable fast diffusion scans with high SNR, relevant for tissue characterization and treatment response monitoring. Elition helps you attain new levels of precision in anatomical and functional clinical imaging, for a heightened degree of diagnostic confidence and therapy efficacy.

Ambition 1.5T with BlueSeal

Designed to facilitate low siting and reduce construction costs

Ambition 1.5T features a BlueSeal magnet which employs the latest micro-cooling technology for transitioning to helium-free operation. The fully-sealed magnet does not require a vent pipe and is at least 900 kg lighter in weight². This promotes easy installation into existing radiation oncology facilities like imaging rooms or bunkers, and significantly reduces construction costs.



VitalScreen

Guidance in patient setup

The VitalScreen offers guidance and insights on the details of the current patient study. This 22-inch interactive touchscreen provides information on exam duration, which coil to use, patient positioning, physiology signal captors (EEG) and – if applicable – contrast usage and breathhold guidance.



State-of-the-art **today and tomorrow**

Elition and Ambition MR-RT are positioned to become important soft tissue visualization tools as the use of MRI for radiation therapy gains in popularity and feasibility. Designed to take advantage of the most recent advances, both systems will benefit from MRI innovations, now and in years to come. Critical among those are MR-only simulation, new adaptive planning strategies, and automated contouring and planning workflows such as RTdrive.

1. Compared to Philips scans without Compressed SENSE.
2. Compared to the Ingenia 1.5T ZBO magnet

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