

Media Backgrounder

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AI-Enabled MR 5300

[MR 5300](#) is the next revolution in helium-free MR operations. This innovative 1.5T MR system, powered by AI¹ technology, simplifies and automates the most complex clinical and operational tasks. It ramps up productivity to meet the growing demand for exceptional quality images, so healthcare workers can focus on what matters the most: their patients.



Why is it important?

As MR imaging plays an ever-increasing role in precision diagnosis, radiology departments face multiple challenges such as a growing population of clinically challenging patients, and a worldwide shortage of skilled technicians.

As a result, there is a clear need for smart diagnostic systems, optimized workflows, and integrated clinical solutions that reduce time-to-diagnosis, improve patient throughput, reduce the need for rescans, and enhance the patient and staff experience.

What is innovative about it?

Philips transformed MR operations with the first helium-free operating 1.5T system and proprietary BlueSeal magnet technology. It not only eliminated the need for liquid helium, it changed the way clinicians think about MR imaging. Now the MR 5300 takes helium-free MR operations to the next level – with breakthroughs designed to deliver automated patient-centric workflow, ultra-fast exams, high quality diagnostic imaging, and performance for life².

What is the benefit of the innovation?

In MR, Philips' mission is to achieve a fast, fully automated, and personalized exam for every patient, while acting responsibly towards our planet and society. With AI-driven smart connected imaging, optimized workflows, and integrated clinical solutions, Philips improves the MR department's productivity, enhancing patient and staff experience, and delivering high quality diagnostic outcomes.

This is achieved with Compressed SENSE to reduce scan time up to 50%³ with virtually equal image quality, while creating exceptional MR images with 60% higher resolution for confident diagnosis.

¹ According to the definition of AI from the EU High-Level Expert Group.

² Performance for Life is an optional service entitlement exclusive for MR 5300. 10 years is the minimum life we offer on a system. Parts like consumables and coils are guaranteed in that lifetime and so are the services we are offering on the contract.

³ Compared to Philips scans without Compressed SENSE

In addition, the MR 5300 improves the MR experience for patients who have difficulty holding their breath – or find it hard to follow breathing instructions – with 4D FreeBreathing – enabling excellent image quality, without breath holds - delivering exceptionally reliable results and improved imaging confidence.

Find out more: [MR 5300 brochure](#).

For further information, please contact:

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About Royal Philips

Royal Philips (NYSE: PHG, AEX: PHIA) is a leading health technology company focused on improving people's health and well-being through meaningful innovation. Philips' patient- and people-centric innovation leverages advanced technology and deep clinical and consumer insights to deliver personal health solutions for consumers and professional health solutions for healthcare providers and their patients in the hospital and the home. Headquartered in the Netherlands, the company is a leader in diagnostic imaging, ultrasound, image-guided therapy, monitoring, and enterprise informatics, as well as in personal health. Philips generated 2022 sales of EUR 17.8 billion and employs approximately 70,700 employees with sales and services in more than 100 countries. News about Philips can be found at www.philips.com/newscenter.