

HITACHI
Inspire the Next

ECHELON Smart

An Enlightened Choice for High-field MRI

Innovating Healthcare, Embracing the Future

For a society where all can enjoy a secure, safe, healthy way of life, Hitachi delivers innovation for implementing healthcare services tailored to individuals.

- Specifications and physical appearance may change without prior notice.
- Please refer to the "operation manual" and the related documents for appropriate use of this product.



Hitachi, Ltd. Medical System Operations Group, Kashiwa has established and maintains a quality management system according to ISO 9001, ISO13485.



Hitachi, Ltd. Healthcare Business Unit(Head Office, Kashiwa works) is certified as complying with the International Environmental Management System(ISO 14001).

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ECHELON Smart - The Debut of a New 1.5T MRI System -

An Enlightened Choice for High-field MRI

01 SmartQUALITY

Superb Image Quality Realized by Sophisticated Technologies

The advanced specification of MRI sub-systems makes the most important impact on the delivery of image quality without compromise. ECHELON Smart is equipped with powerful sub-systems which includes the SmartENGINE which supports high quality imaging and high performance RF system to empower robust imaging technologies.

SmartENGINE

Integrated technologies for high quality imaging.

- Signal Acquisition Efficiency

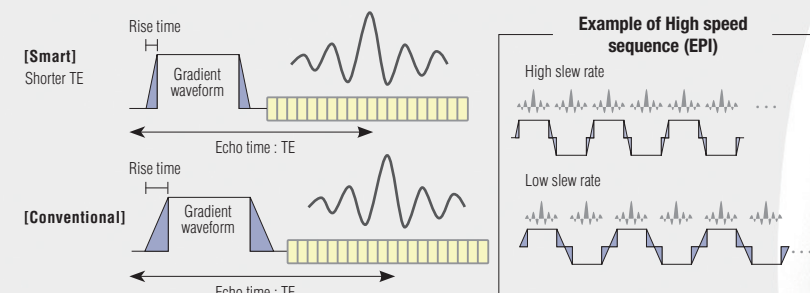
A new mechanism to improve signal acquisition efficiency for high SNR imaging.

- Noise Mitigation

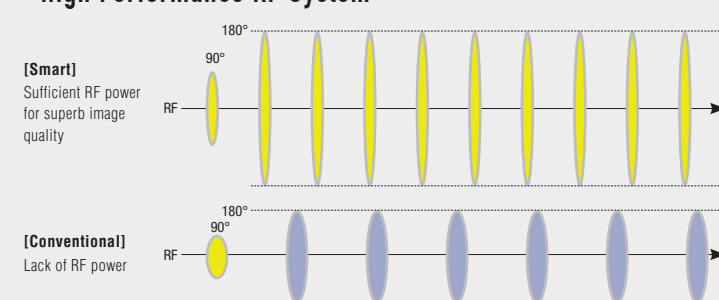
A new algorithm to reduce noise in image reconstruction.

Powerful Gradient System

Enhanced slew rate enables shorter TE for high quality and fast imaging.



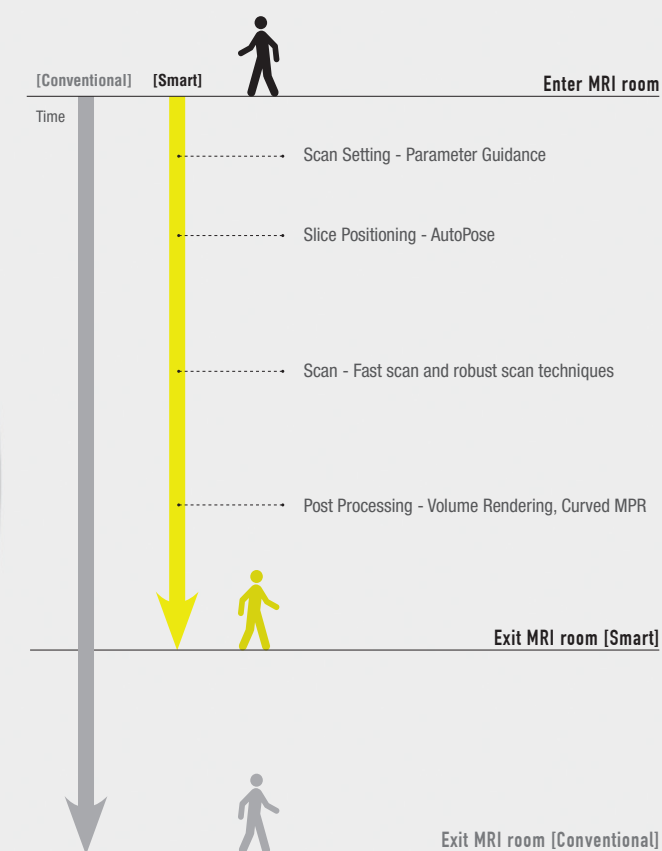
High Performance RF System



02 SmartSPEED

Reduction of Total Examination Time

To boost your productivity, ECHELON Smart offers features that streamline workflow and enhance throughput, such as AutoPose and Parameter Guidance function for easy and fast operation. Fast scan capabilities and robust scan techniques to reduce re-scanning contribute to shorter scan times, and on-console analysis functions reduce the transfer time of data to the workstation. With the SmartSPEED feature, your operational efficiency is improved.

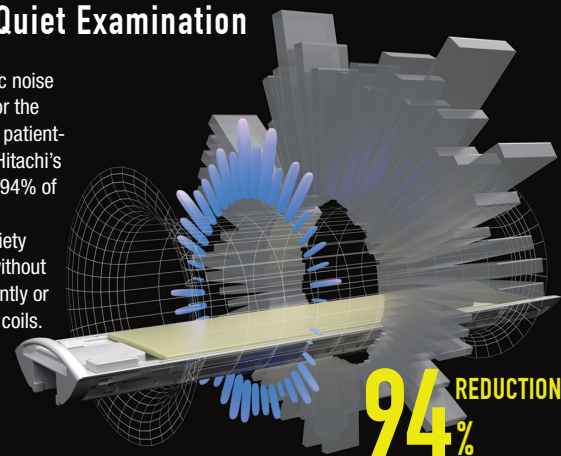


03 SmartCOMFORT

Patient-friendly Quiet Examination

Technologies to reduce acoustic noise are one of the big challenges for the MRI market in a bid to create a patient-friendly imaging environment. Hitachi's SmartCOMFORT reduces up to 94% of the sound pressure.

It can be applied for a wide variety of image contrast sequences without prolonging scan times significantly or without limitation of applicable coils.

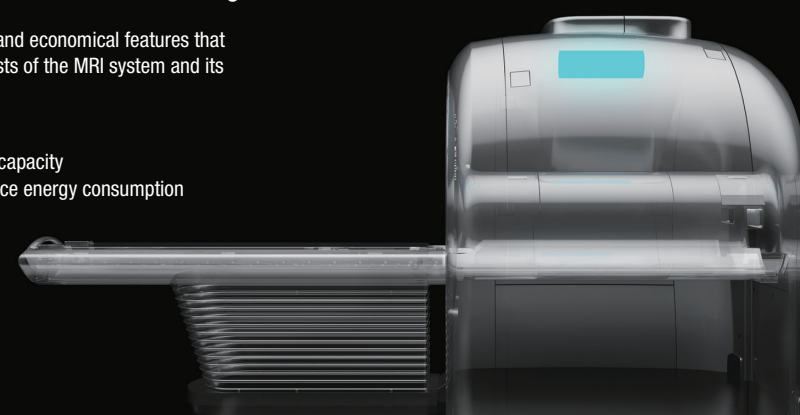


04 SmartECO

Ecological with Economical Running Costs

SmartECO provides ecological and economical features that minimize your daily running costs of the MRI system and its peripherals.

- Zero Boil off
- Ecological power capacity
- Eco-mode to reduce energy consumption



05 SmartSPACE

Small footprint and flexible layout

SmartSPACE encompasses the small footprint and flexible site layout by extending the cable length between MRI gantry and electrical units in the machine room. This feature could facilitate the MRI system installation in your facility.

