Fujifilm Echelon Smart 1.5T MRI

What if you could get definitive, high-quality scans without sacrificing patient comfort? The Fujifilm Echelon Smart 1.5T MRI makes it possible. Its small footprint and reasonable cost make it an excellent choice.

Installation and logistics included

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Product Overview

The Fujifilm Echelon Smart 1.5T MRI represents a giant leap forward in medical imaging. The machine's power and precision result in crisp, clear images for diagnostic purposes. Those results don't come at the expense of patient comfort.

Key features of the Fujifilm Smart 1.5T MRI include the following:

- High-quality images with ideal contrast, spacial resolution, and signal-to-noise ratio
- Quiet and comfortable patient experience
- Smaller footprint
- More efficient workflows
- Optimized energy efficiency

"With the Echelon Smart, we're able to offer hospitals a compact yet powerful MRI system that delivers exceptional image quality without requiring a massive footprint. It's been a game changer for facilities that need high performance but have limited space."

Core Features of the Fujifilm Echelon Smart 1.5T MRI

Fujifilm engineers have optimized almost every aspect of this groundbreaking MRI machine. These are just a few of the ways it could change the field of imaging as we know it.

Feature	Description
Field strength	1.5 Tesla superconductive magnet, delivering high-quality imaging in a compact design.

RF system	Equipped with an 18 kW RF power output, ensuring stable RF transmission and clear images, even during sequences requiring continuous refocus pulses.
Gradient system	Maximum gradient strength of 33 mT/m and a maximum slew rate of 130 T/m/s, supporting fast and precise imaging.
Receiver channels	16-channel receiver coil system designed for high sensitivity and efficient patient setup, enhancing image quality and reducing examination time.
Comfort	Reduces acoustic noise by up to 96% without compromising image quality or scan time, enhancing patient comfort during examinations.
Energy	Energy-saving feature that minimizes power consumption during periods of non-use, reducing operational costs while maintaining system readiness.

Smart COMFORT

Patients want a quiet, calm MRI experience. However, aggressive noise reduction can cause detail blurring or artifact introduction. Smart COMFORT is different.

Fujifilm's adjustments minimize negative side effects while reducing acoustic noise by up to 96%. Best of all, those reductions don't come with long imaging timeframes. Patients are in and out of the machines quickly.

Smart QUALITY

All MRIs have key sub-systems responsible for core parts of the imaging process. Fujifilm's detailed design and performance characteristics of the individual components of the MRI mean high-quality imaging without compromises.

When all parts of the machine are perfectly designed and calibrated, the results are images you can trust for your diagnostic processes.

Smart SPEED

Long imaging times are taxing on both patients and your bottom line. The Echelon Smart includes optimized workflows for quick and effective operation.

The AutoPose and Parameter Guidance functions make getting patients on and off the table faster. Meanwhile, quick scanning capabilities ensure shorter scan times and fewer re-scanning requests.

Smart ECO

Most superconductive MRI machines come with high operational costs. They need a lot of energy to stay cool and operational. The Echelon is different.

Every Echelon machine comes with an energy-saving function. When you're not using the equipment, the cooling system turns off to reduce your power consumption. The result is a lower overall energy consumption cost.

Smart SPACE

Space is at a premium in hospitals, clinics, and other medical facilities. Waste can lead to lost financial opportunities. Echelon requires less space than a traditional MRI.

Echelon's unique construction also allows for flexible layouts. An extended cable length between the gantry and the power unit will enable you to get creative.

Smart ENGINE

The Echelon is powered by a high-speed A/D converter that suppresses noise while enhancing image quality. You and your patients will notice the difference in the sound of your imaging appointments. Your clinical staff will see the difference in the scan quality.

Performance

Fujifilm technologies enhance image quality on every single scan. An increased number of receiver coils improves reception sensitivity and stability during high-speed imaging. Meanwhile, the RF power output ensures stable maintenance of radiation waveforms.

Smart Application

The Echelon is particularly effective in capturing the following types of images:

- **Plaque**. Diagnose carotid artery plaque characteristics with ease.
- **Hemodynamic changes**. Attain greater visibility of changes caused by issues such as stenosis.
- **Fast blood flow**. Get quick visualization of fast blood flow in renal arteries and portal veins.
- **Fat suppression**. Sensitive machines can quickly spot the differences between water and fat protons due to chemical shifts.
- **Iron deposition**. Tap into a color map display of T2* values.

Operation

The Echelon includes the following features that streamline operation without sacrificing diagnostic results:

- **Workflow enhancements.** Receiver coils support patients quickly, and they ensure clear imaging.
- **Posing assistance.** Autopose functions help reduce slice line setting times.
- **User interfacing.** Streamline settings and changing of protocols with an optimized interface.

Support Features

The Echelon comes with embedded support tools, including the following:

- **Analytics.** Reduce maintenance costs through failure sign diagnosis.
- **Monitoring.** Watch server system status 24 hours per day and tap into automatic notifications.
- **Security.** Rely on encrypted data and know your information is safe and secure.

Contact Us Today to Learn More

Put our years of experience in medical device purchasing and installation to use. We can perform site studies and determine if the machine is right for you. Then, we can supervise the purchase, installation, and positioning.

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