



How to reach us

10 Yangnyeong-ro, Moga-myeon, Icheon-si, Gyeonggi-do 17408 Korea

Tel. +82 (0)2 449 6908 **Fax.** +82 (0)2 449 6909

E-mail. sales@sghealthcare.com **Web.** www.sghealthcare.com Copyright © SG

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| Magnet



1.5T Magnetic Resonance Imaging

Resonancia Magnetica 1.5T



IMAGING for Life

Focused on excellent performance, 1.5T perfectly meets your needs of quantitative study in MRI practice- with new generation of quantitativeanalysis tools to fulfill precision medicine and latest applications tobroaden your clinical scope.

Also with advanced IAI denoising technology, it enables fast image acquisitionand multiple exams without repositioning.



| | | | |
|------------------------------------|---|----------------------------------|-------------------------------|
| Maximum gradient field strength | 38.5mT/mm | Maximum switching speed | 175mT/m/ms |
| Minimum climbing time | 0.22ms | Control mode | Full digital real timecontrol |
| Cooling method | Water cooling | Automatic shimming function | Possible |
| Type | Liquid helium-free superconducting magnet | | |
| Field strength | 1.5T | Center frequency | 63.87MHz |
| Weight | 4,400kg | Patient space geometry | D : 60cm / L : 149cm |
| Magnetic field stability | ≤0.1ppm/h | Magnetic field uniformity (Vrms) | ≤0.4ppm 45cm DSV |
| Magnetic field uniformity (pp) | ≤8ppm 45cm DSV | 5 highs line | 4m(A), 2.5m ® |
| Shimming method | Active + Passive | Liquid helium volume | 0L |
| evaporation loss rateLiquid helium | 0 L/day, direct cooling technology (no liquid helium) | | |

Gradient subsystem

| | | | |
|------------------------------------|-------|------------------------------------|------|
| Maximum scanning fieldof view(FOV) | 500mm | Minimum scanning fieldof view(FOV) | 50mm |
|------------------------------------|-------|------------------------------------|------|



Scanning specifications

Table

| | | | |
|--------------------------------|---------------|----------------------------|-------------------------|
| Maximum echo chain length(ETL) | 256 | 2D minimum layer thickness | 0.5mm |
| 3D minimum layer thickness | 0.1mm | Maximum acquisition matrix | 512 x 512 |
| Maximum reconstruction matrix | 1,024 x 1,024 | Shortest TR / TE | TR : 1.6ms / TE : 1.0ms |

specifications

Coil

*Optional : Shoulder / Wrist / Breast / Ankle / Knee / Temporomandibular

| | | | | |
|-------------------------|----------------------|----------------|---------------------------------|------------|
| Maximum weight capacity | 200kg | Movement range | 2270 ±,070 ± 5mm (HF 10mm (AP)) | |
| Spinal | Combined head / neck | Flexiblebody | Universalflexible | Ankle |
| 8 channels | 16 channels | 8 channels | 8 channels | 8 channels |

Knee Shoulder8 channels Wrist4 channels Temporo-mandibular2 channels Breast8 channels

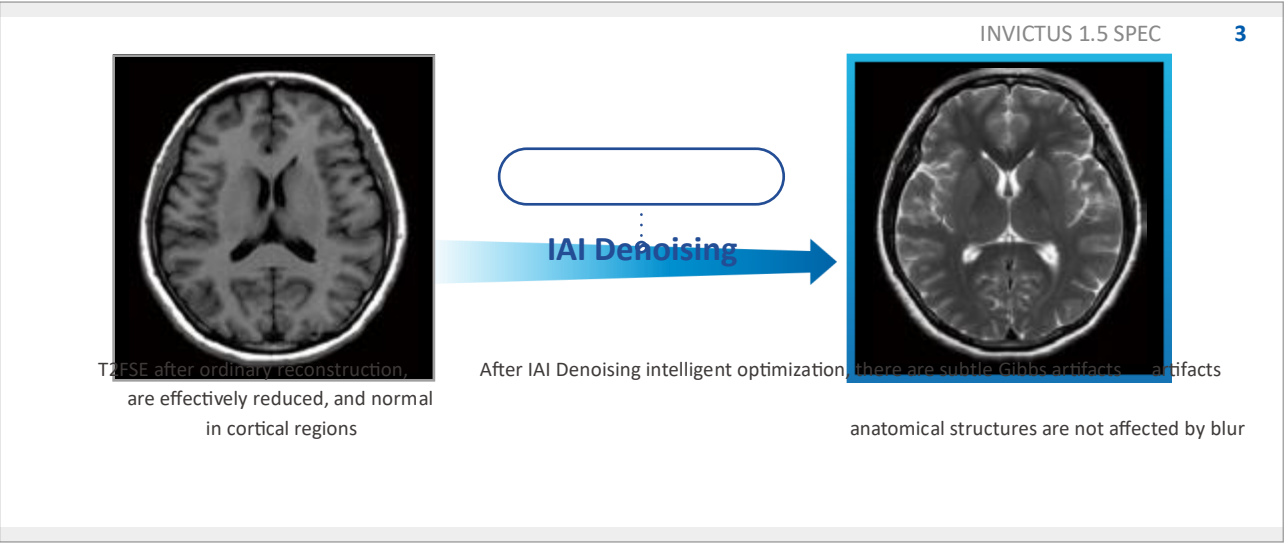
8 channels

IAI Denoising

Medic Bright Solutions LLC.

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IAI noise reduction and artifact removal algorithm based on machine learning.



Comprehensive parallel acquisition technology

- Grappa : Parallel acquisition algorithm for calibration of K-space data
- Sense : Parallel acquisition algorithm for calibration of image data
- CAIPIRINIA : Cocktail algorithm-parallel acquisition algorithm for acceleration in 3D



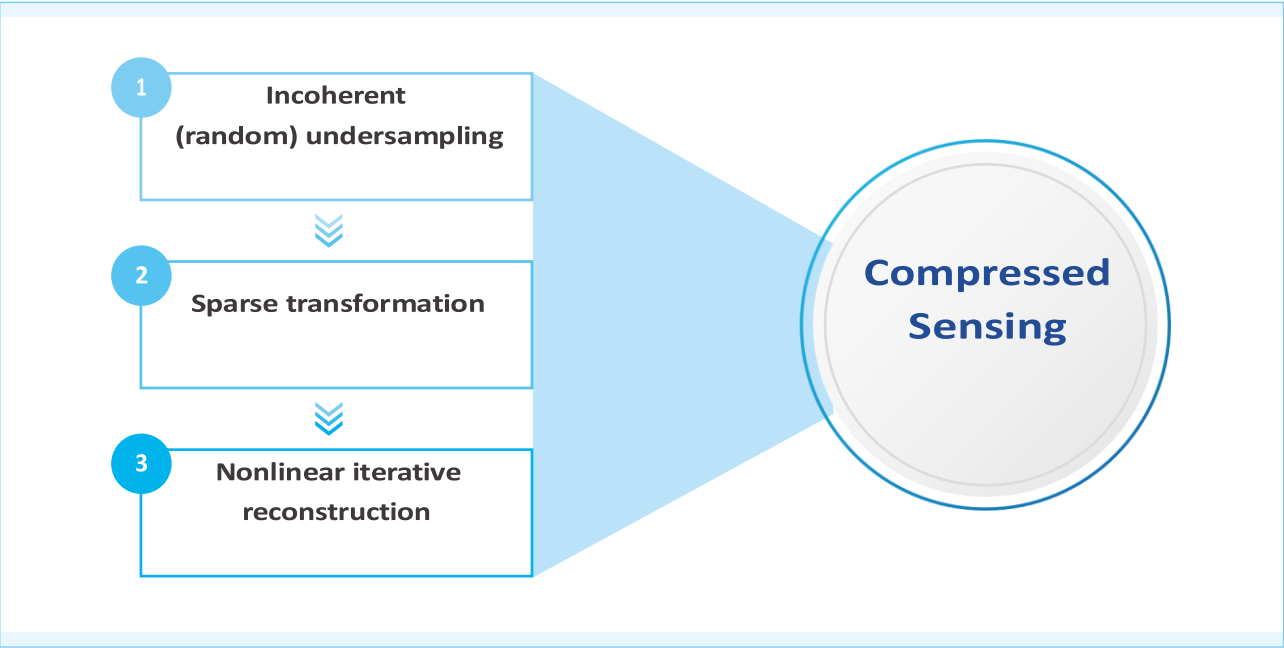
Fully Upgraded Algorithms

INVICTUS AI noise reduction and artifact removal algorithm : IAI denoising, compressed sensing algorithm, high-speed parallel acquisition grappa technology, etc., while ensuring scanning speed and imaging quality. has a variety of core algorithms, such as machine learning

DE-FSE

DE-FSE : Fast spin-echo technology driving balanced acceleration
Improving effective data acquisition time using drive balanced pulses

ACKs(Accelerating Kits)



Half-scan

- Acceleration technology for half-fourier acquisition
- Partial K space filling technology to speed up data sampling

Pro 3 three-generation propeller anti-artifact technology

The new and upgraded collection method has wider application scenarios
Suppress body motion artifacts Remove susceptibility artifacts

True 16-channel platform

16 independent ADCs(analog-to-digital converters) + fiber optic digital spectrometer

Fifth-generation topological coil :parallel acquisition technologies 16-channel phased array receiving coil-fully supports various

High-speed acquisition algorithm supported by GPU hardware acceleration

High-definition vascular imaging—the comprehensive application of advanced vascular imaging technology

- TONE / SLINKY / MTC technology
- AI intelligent noise reduction and background signal suppression technology

Clinical Image

INVICTUS delivers excellent image quality in nervous system.
The system supports the complete range of clinical applications.

