Elektro
GENESIS
Cherish your life, Cherish your health!

ELK-DIVERSITY 2.0
SUPERCONDUCTIVE MRI SYSTEM

ELK-Diversity 2.0

Driving Diagnostic Excellence Exploring MRI Frontiers

The ELK-Diversity 2.0 MRI system has undergone a comprehensive upgrade, pushing the boundaries of MRI applications. With enhanced hardware and intelligent software integration, it delivers higher signal-to-noise ratio, improved image resolution, and faster scan speeds—offering a full solution for clinical needs. Coupled with reliable pre- and post-sales support, it empowers healthcare providers with greater diagnostic confidence and efficiency

Trusted Performance

Up to 32-channel system, >150 mT/m gradient strength, 1 ppm high-uniformity magnet

Double Acceleration

pSENSE (Power SENSE) compressed sensing imaging technology

Comprehensive Clinical Use

Auto scanning, fully quantitative 3D ASL, PET-like large FOV imaging

Worry-Free Service

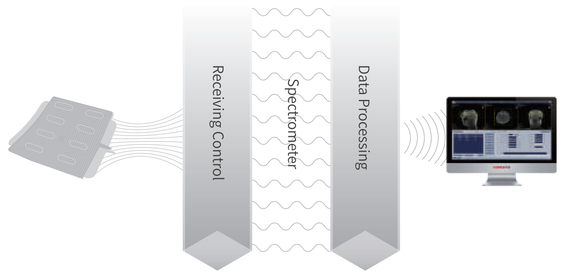
One-stop turnkey solution for fast clinical deployment

ELK-Diversity 2.0

Trusted Performance, Smarter Hardware

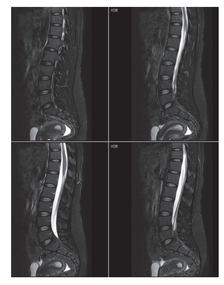
16/24/32 Channel RF Platform

The number of RF channels is a core hardware parameter that defines MRI system performance. The ELK-Diversity 2.0 MRI is equipped with 16/24/32 RF channels, and comes with corresponding coils to achieve 1:1 data acquisition and transmission.

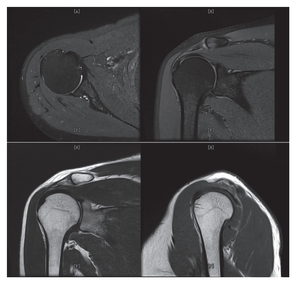


1 ppm High-Homogeneity Magnet

Equipped with a high-performance superconducting magnet and sub-second intelligent shimming technology, the system enables rapid and precise shimming for any region or body part. It ensures magnetic field homogeneity of less than 1 ppm within a 50 cm spherical volume, delivering excellent fat saturation performance even in large FOV and off-center imaging areas.



Lumbar Fat Suppression



Shoulder Fat Suppression

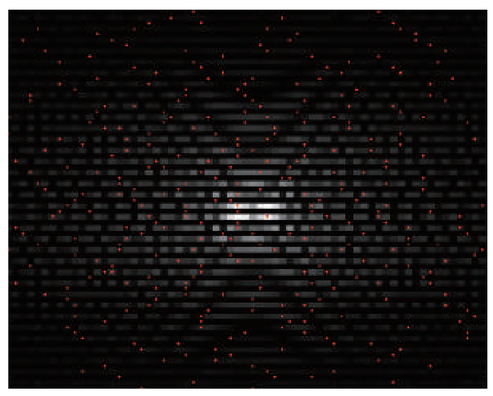
Powerful Gradient Engine

With a gradient strength exceeding 35 mT/m and a slew rate over 150 mT/m/ms, the system supports EPI sequences with minimum TE within 1 ms. This shortens scan times and improves both the precision and speed of advanced imaging sequences

2x Faster, Empowering Efficiency

pSENSE compressed sensing imaging technology

By combining incoherent undersampling from compressed sensing with parallel imaging (SENSE), the number of k-space encoding steps is significantly reduced, resulting in a substantial shortening of scan time. At the same acquisition time, it enables higher spatial resolution or a wider imaging range in 3D scans—delivering fast and precise imaging.

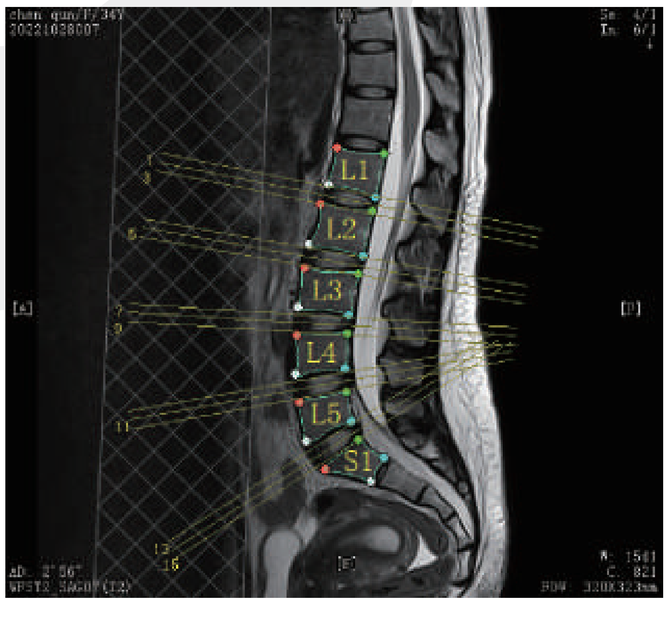


K-space representation:
red dots indicate sampling points

Comprehensive Clinical Use Automated Scanning

UltraScan Intelligent positioning

Smart positioning + intelligent localization, streamlined workflow with one-touch scanning



Intelligent deep learning

Intelligent position recognition

Auto scan line marking

Auto slice positioning

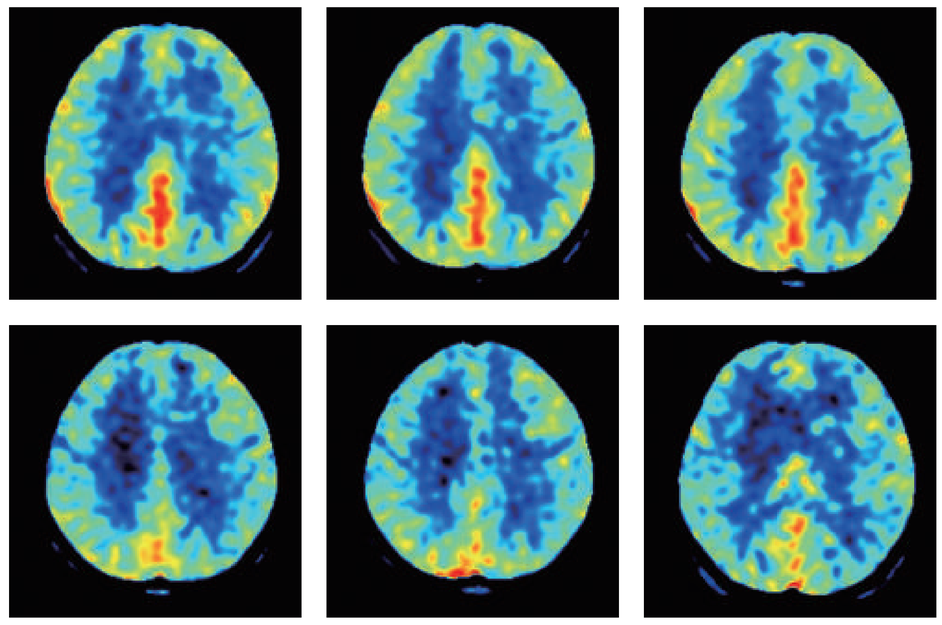
Auto frequency direction selection

Auto FOV selection

ELK-Diversity 2.0

Comprehensive Clinical Use Advanced Applications

3D ASL Whole-Brain Non-Contrast Perfusion Quantification



True 3D ASL

Gold-standard method aligned with international expert consensus

3D Volumetric Scanning

Comprehensive and detailed whole-brain perfusion data

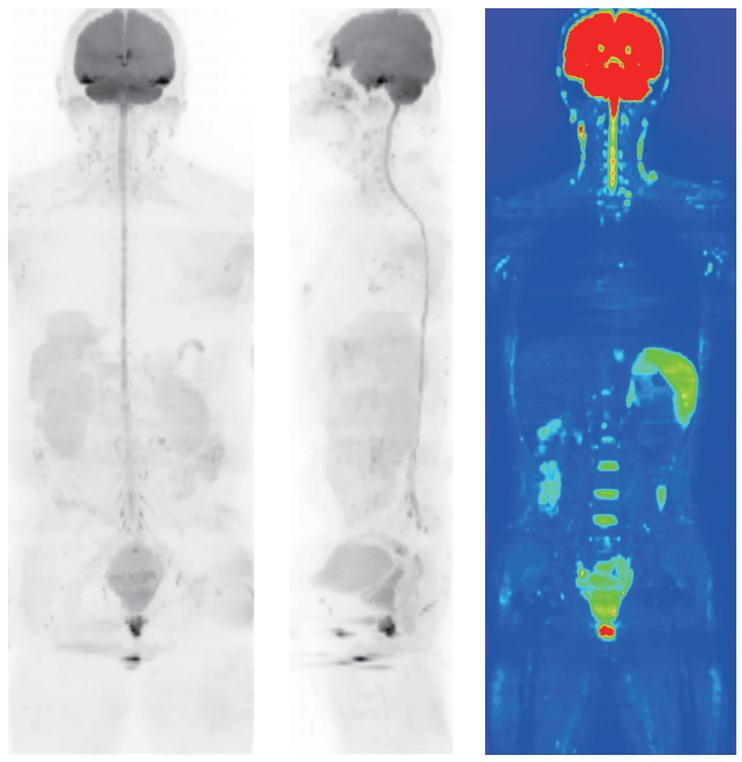
Spiral Acquisition

Fast and accurate whole-brain imaging

Direct Quantification

Absolute CBF values for precise cerebral blood flow measurement

PET-like Wide FOV Imaging



Whole-Body DWI

Supports tumor screening and follow-up across the entire body

High-Uniformity Magnet

Enables faster large-FOV scanning

≥150 Slewing Rate

TE under 1 ms, delivering high SNR with minimal distortion

RF System

High channel count for fast imaging and simultaneous multi-sequence acquisition

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