

Compressed SPEEDER Application

APPLICATION

The Compressed SPEEDER Application is an optional package for Canon Medical Systems magnetic resonance imaging (MRI) systems. This application allows acceleration factors for shorter scan times or higher resolution based in FSE2D imaging upon the principle of Compressed Sensing in combination with parallel imaging.

APPLICABLE SYSTEMS

This application is applicable to the following systems:

System	Software version
Vantage Galan 3T	V6.0 or later
Vantage Orian	V6.0 or later
Vantage Fortian	V8.0 or later
Vantage Titan	V6.0 or later
Vantage Elan	V6.0 or later

Reconstruction Memory Extension Package (MZKT-REP01/S1) is required for Vantage Titan and Vantage Elan systems.

Reconstruction Memory Extension Package is not required for the Vantage Elan system which Pianissimo Zen Hardware Package (MZKT-RUK01 or MZKT-RUK03) has already been installed.

COMPOSITION

Software (License)1 set
This application does not include an operation manual. Refer to the operation manual supplied with the MRI system.

PERFORMANCE SPECIFICATIONS

Compressed SPEEDER imaging is a method utilizing the compressed sensing that is high-speed scan technique for FSE2D sequences. This technique enhances the benefit of compressed sensing combined a parallel imaging by using multi-sensitivity maps. These maps are iteratively created based on the self-data obtained by under-sampling randomly in the phase encode direction, and then the data are reconstructed to the final images.

Compressed SPEEDER is available in any RF coil, any phase encode direction, any scan plane and any anatomy region.

INSTALLATION CONDITIONS

The power and environmental conditions are the same as for the MRI system.

COMPLIANCE WITH STANDARD

This application complies with the same standards as the MRI system.

MASS

Unit	Mass kg (Approx.)
Compressed SPEEDER Application	0.5

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Canon Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.
Canon Medical Systems Corporation meets the Environmental Management System standard ISO 14001.

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