

### APPLICATION

The mBody Package is an optional package for Canon Medical Systems magnetic resonance imaging (MRI) systems. This package provides new functions that are useful for acquiring body images.

### APPLICABLE COMBINATIONS

This package is applicable to the following systems.

System	Software version
Vantage Galan 3T	V4.0 or later
Vantage Titan 3T	V2.21 or later
Vantage Orian	V4.5 or later
Vantage Fortian	V8.0 or later
Vantage Titan	V2.20 or later
Vantage Elan	V3.0 or later

### COMPOSITION

Software (License).....1 set

This package does not include an operation manual. Refer to the operation manual supplied with the MRI system.

### PERFORMANCE SPECIFICATIONS

This package provides the following functions.

#### VisualPrep

This function repeats the sequence of acquisition, reconstruction, and display for the same slice. The acquired continuous images show when the contrast medium reaches the target region. This feature allows the operator to start the main scan while observing the monitor, ensuring that scanning is started at the optimal timing for each patient.

#### MovingBed

This function moves the tabletop between scans to shift the patient position for scanning, allowing MRA to be performed over a wide range (for example, from the abdomen to the lower limbs).

#### JET scan

The JET technique acquires data for the k-space in non-Cartesian mode to suppress motion artifacts. When combined with respiratory gating, the influence of respiratory motion can be further reduced.

#### Body Diffusion

Diffusion studies can be performed for the trunk. This technique can be combined with respiratory gating, fat suppression, or the IR technique.

#### mVox

FASE3D mVox suppresses the signal decay due to tissue T2 relaxation and reduces the SAR level by varying the flip angle of the flop pulse for each echo, producing sharp images with suppressed blurring even with a small number of shots.

#### FFE3D with SE-AFI

For some FFE3D sequences, AFI can be applied in the slice encode direction to reduce the scan time. When AFI in the slice encode direction is used for dynamic scan, scanning with a high temporal resolution is possible.

Note: This function is available from following software version.

- 3T: V2.50 or later
- 1.5T: V3.1 or later

#### 2D-RMC (Real-time Motion Correction)<sup>1)</sup>

2D-RMC estimates and corrects the positional changes of the liver associated with respiratory motion based on movement of the diaphragm. This technique can be applied to some types of FFE3D<sup>2)</sup>, SEPI2D<sup>3)</sup> and FASE3D sequences. Even if the patient's respiratory level changes during the main scan, the threshold can be changed manually.

- 1) This function is available for software V3.0 or later
- 2) This feature is available for software V4.0 or later
- 3) This feature is available for software V4.5 or later

#### Multi-b

Up to 15 different b-values can be selected for Diffusion Weighted Imaging. Isotropic Diffusion Weighted Images can be processed for each b-value.

Note: This function is available for software V3.5 or later

#### WFS (Water Fat Separation)

Using multiecho sequences with different TE values and taking advantage of the phase difference caused by the resonance frequency difference between water and fat, four types of images (Water, Fat, In Phase, Out Of Phase) can be generated through calculation.

Note: This function is available for software V2.5 and V3.1 or later.

However, this function is not available for Vantage Elan with V3.1.

## **INSTALLATION CONDITIONS**

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

## **COMPLIANCE WITH STANDARDS**

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

## **MASS**

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Unit	Mass (kg)
mBody Package	Approx. 0.5

## **CANON MEDICAL SYSTEMS CORPORATION**

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