

# mVascular Package

## APPLICATION

The mVascular Package is an optional package for Canon Medical Systems magnetic resonance imaging (MRI) systems. This package provides new imaging functions as well as pulse sequences that are useful for vascular imaging.

## 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    | V2.10 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

### 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, thus permitting the scan to be started at the optimal timing for each patient.

### MovingBed

This function moves the couch top 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).

### Advanced MovingBed

This function enables individual scan setting for each scan when MovingBed is used. It allows acquisition of images with the most appropriate settings for each station.

### STAMD

This function is used to generate MIP images by changing the slice range for MIP processing in a step-by-step manner (shifting the slice range or increasing the number of slices). It enables the spatial relationships between blood vessels to be visualized more clearly.

Note: This function is available as standard from following software version.

- Vantage Titan 3T: V2.50 or later
- Vantage Titan: V3.1 or later
- Vantage Elan: V3.1 or later

### Dynamic Complex Data Subtraction

Subtraction is performed between the complex data sets for pre-enhanced acquisition and contrast-enhanced acquisition, and the resulting data is reconstructed. When contrast medium enters the imaging slice at a high concentration, signal inversion may occur, causing the blood vessels to appear discontinuous. Complex data subtraction prevents this phenomenon.

### DRKS

When applied to FFE3D dynamic imaging, 3D DRKS (3D Different Rate K-Space Sampling) makes it possible to obtain echo data near the center of the k-space with a higher temporal resolution than in other sections, reducing the required time interval for obtaining 3D images. This technique is advantageous in imaging techniques that require high temporal resolution.

Note: This function is available as standard from following software version.

- Vantage Titan 3T: V2.50 or later
- Vantage Titan: V3.1 or later

## **INSTALLATION CONDITIONS**

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

## **COMPLIANCE WITH STANDARDS**

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

## **MASS**

| Unit              | Mass (kg)   |
|-------------------|-------------|
| mVascular Package | Approx. 0.5 |

## **CANON MEDICAL SYSTEMS CORPORATION**

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