

-Monitoring graph ON/OFF (DICOM transfer is impossible)

## 2.7.6. ECG Volume Scan (Retrospective)

### (1) Scan time

0.35, 0.4, 0.5s/rot

### (2) Maximum scan time

50s (@0.5s/rot×100 scan)

### (3) FOV

20 ~ 500mm (1mm step)

(Note: Small Bow-tie filter is effective at 20 ~ 240mm)

### (4) Selectable heart beat

40 ~ 140bpm (1bpm step)

### (5) Reconstruction mode

- Half
- Segment (2,3,4) (Automatic segmentation number set)

### (6) Phase setting mode

- Relative : 0 ~ 99% (1% step)
- Absolute : -2,000 ~ +2,000ms (1ms step)

### (7) Temporal Resolution

49 ~ 196ms (Depends on heart rate, scan time, table pitch, reconstruction type)

### (8) Pitch - Slice thickness

Beam Width	Beam Pitch	Table mm/rot	Reconstruction thickness				
			x1	x2	x4	x6	x8
40mm (0.625 x64)	0.109	4.375	0.625	1.25	2.5	3.75	5.0
	0.141	5.625					
	0.172	6.875					
	0.203	8.125					
	0.234	9.375					

### (9) Maximum image number

Max. 3, 000 images

### (10) Recommended cardiac scan parameter setting (CardioConductor)

Automatically set the recommendation scan condition by using the range of heart rate during the breath-holding practice.

### (11) Automatic cardiac phase selection (CardioHarmony)

- System will search the minimum movement phase in the heartbeat and propose the optimal reconstruction.
- Available when scanning condition / multi-recon / scan protocol / post-recon setting
- Scope for phase searching: Diastole phase (60~95%) or Systole phase (30~59%)

### (12) ECG Dose Modulation (IntelliEC Cardiac)

- Modulation of two phases in diastole and systole is possible
- High mA can be set for each phase(Low mA is common)

### (13) Maximum 100 phases can be registered in Post-recon

(14) Restriction

- Unable to use IntelliEC (Scanogram image based mA modulation)
- Unable to use high-resolution reconstruction filter

2.7.7. ECG Normal Scan (Prospective)

(1) Scan time

0.35s/rot

(2) Beam Width

40mm (0.625mm×64)

(3) Table movement

35mm (Fixed)

(4) Reconstruction image thickness

0.625mm×56i / 1.25mm×28i / 2.5mm×14i

(5) FOV

20~500mm (1mm step)

(Note: Small Bow-tie filter is effective at 20 - 240mm)

(6) Selectable heart rate

40 ~ 140bpm (1bpm step)

(7) Reconstruction mode

Half

(8) Heart phase setting

- Absolute : 200~2,000ms (1ms step)

(9) Temporal resolution

196ms

(10) Scan cycle

Minimum 0.7s (@35mm movement)

(11) Padding (Set the extended time for the X-ray irradiation time)

-40 ~ +40ms (10ms step)

(12) Restriction

- Unable to use IntelliEC
- Unable to use high-resolution reconstruction filter
- Unable to set the scan interval time
- Unable to use gantry tilt
- Unable to additional scan and re-scan

2.7.8. Orbital Synchronized Scan

(1) Scan time

Volume scan only

(2) Restriction

Scan conditions other than angles at which X-ray irradiation is started are not synchronized.