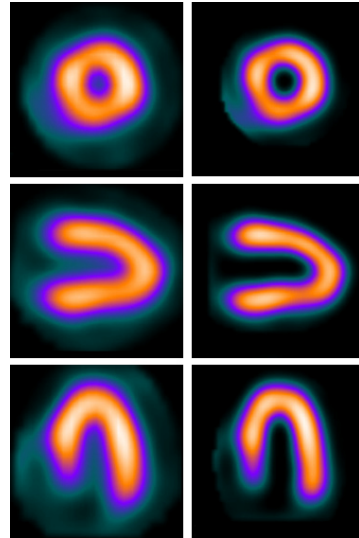


Introducing nSPEEDSM

3D OSEM Rapid Image Acquisition



Improved resolution using nSPEED (right) compared to 2D OSEM (left)

nspeed

CLEARER IMAGES IN LESS TIME

A 3D-OSEM reconstruction software, Digirad's nSPEED provides superior image quality over existing 2D reconstruction techniques by producing sharper, higher contrast images. This technique provides such a significant improvement in image quality enabling clinicians to reduce acquisition times or patient dose.

nSPEED models the depth-dependent point response function in an iterative reconstruction algorithm (OSEM), thus enabling depth-dependent resolution recovery and improving chamber contrast in cardiac SPECT images. nSPEED has been shown to significantly improve the resolution of SPECT images as compared to standard reconstruction methods. These improvements enable the reduction of acquisition time or patient dose while maintaining image quality as compared to conventional reconstruction methods that do not use depth-dependent resolution recovery. nSPEED reconstruction software is optimized for solid-state detector systems and is available for new and existing Digirad systems.

DIGIRAD[®]

REDUCE ACQUISITION TIME BY HALF

- Image Quality Equivalent to Current 2D Reconstruction Methods
- Improved Contrast and Resolution
- Increased Patient Comfort
- Decreased Patient Motion
- Increase Productivity

REDUCE PATIENT DOSE BY HALF

- Image Quality Equivalent to Current 2D Reconstruction Methods
- Improved Contrast and Resolution
- Reduce Radiation Exposure to Patients and Staff
- Reduced Radiopharmaceutical Costs

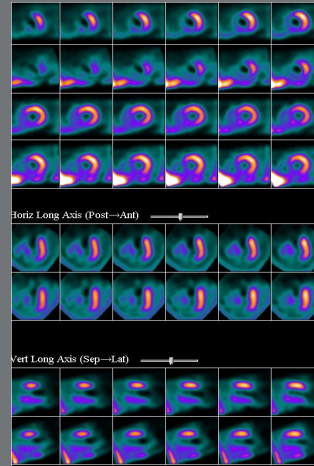
IMPROVE IMAGE QUALITY

- Equivalent Image Quality at Half Time or Half Dose
- Improved Contrast
- Improved Resolution
- Reduce Motion Artifact
- Thinner Myocardial Walls

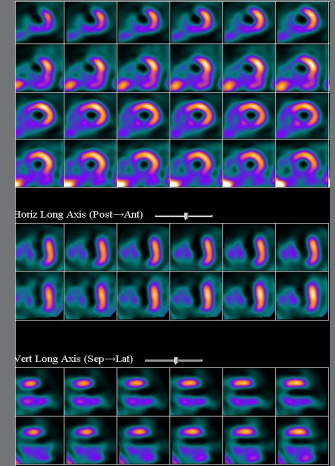
OPTION INCLUDES

- nSPEED CD
 - Operators Manual
 - License Key
 - Release Notes
 - Guaranteed Seamless Integration with Digirad Products
- Note: nSPEED was designed specifically for use with Digirad's solid-state detector systems

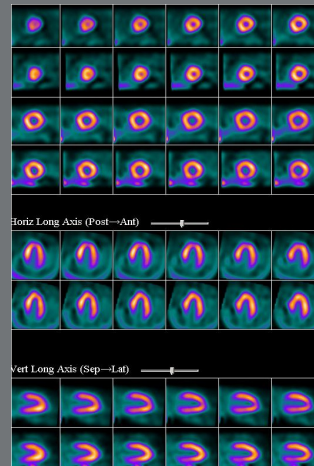
SPECT Camera ACQ SPEED Rating Chart				
	Stress	Rest	Stress w/ nSPEED T1/2	Rest w/ nSPEED T1/2
Single-Head	24 min 1.0x	28 min 1.0x	12 min 2.0x	14 min 2.0x
Dual-Head	12 min 2.0x	14 min 2.0x	6 min 4.0x	7 min 4.0x
Triple-Head	7 min 3.5x	8 min 3.5x	3.5 min 7.0x	4 min 7.0x



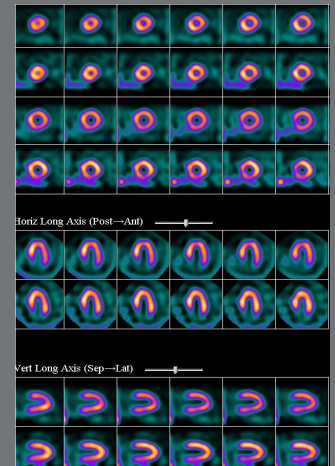
2D OSEM Images: 6-min stress scan; 8-min rest scan on the Cardius® 3 XPO



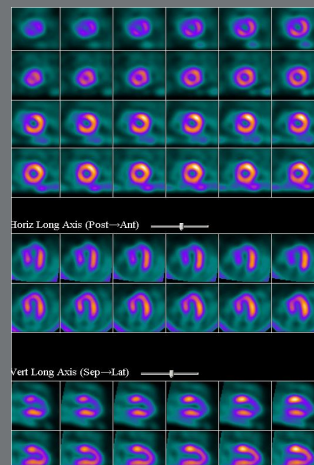
nSPEED Images: 3-min stress scan; 4-min rest scan on the Cardius 3 XPO



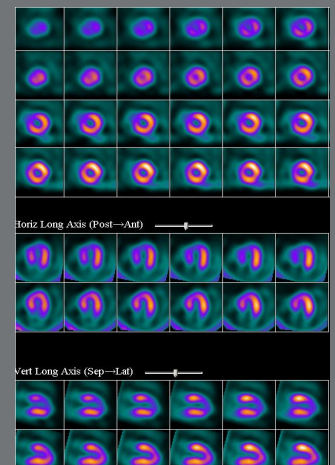
2D OSEM Images: 10-min stress scan; 14-min rest scan on Cardius 2 XPO



nSPEED Images: 5-min stress scan; 7-min rest scan on Cardius 2 XPO



2D OSEM Images: 9-min stress scan; 11-min rest scan on Cardius 2 XPO



nSPEED Images: 4.5-min stress scan; 5.5-min rest scan on Cardius 2 XPO