



B75732AA HiSpeed FX/i

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Introduction

The HiSpeed FX/i System supplies unsurpassed computer and image processing power that significantly enhances clinical productivity.

HiSpeed FX/i System includes :

- 76 cm Gantry Aperture
- Gantry tilt: +/- 30 degree with Remote control from Operator console
- HiLight Solid State Detector
- 1024 Localizer for easy scan location set up
- 0.8 second scan time (360 degree acquisition)
- 1.6 second scan-to-scan cycle for axial acquisition
- 120 seconds single helical scan time
- Solarix™ tube with 3.5 MHU of heat storage
- Wide range of technique factors (10 mA to 350 mA, in 5 mA increments) gives operator and physician flexibility to tailor technique to specific needs, optimizing patient dose, and providing the power needed to perform a broad spectrum of axial and helical examinations.
- Auto mA : Dose(mA) management by slice based on X-ray attenuation.
- CTDI provides patient dose information to the operator.
- SmartPrep® contrast monitoring software
- SmartRecon – "real time" imaging up to 6 frames per sec.

* Option

- 1.5 second reconstruction time for prospective or retrospective image
- 100 base-T Ethernet network interface for fast images communication inside and outside the Medical Imaging Department
- Truly multi-tasking environment where even advance image processing can take place quickly, simultaneously with other processes underway
- Completely protocol-driven scan control with a dramatic reduction in number of screens
- Large on-screen controls and attractive color palette provide comfortable viewing over extended periods
- Very high degree of automation, yet allow patient-specific changes to be easily made, with virtually no restrictions
- Highly flexible editing tools that allow easy tailoring of the exam to the patient
- Auto-Filming, AutoStore, Auto-Archive, Auto-Transfer
- Computer, image processor and image reconstruction hardware completely integrated in base of console – no separate computer cabinet to site
- Large, 1280 x 1240 color display
- Real-time image processing : MPR, MPVR (Standard)
- Color 3D*, Navigator*, Perfusion* - powerful CT software packages available on Operator Console

Scan Modes

Although the HiSpeed FX/i System can perform many clinical applications, scanning has been simplified to three basic modes

Helical

- Multiple 360 degree scans with no interscan delay
- Scan can be acquired with (helical) or without (cine mode) table increment

Axial

- Single scans with the time between scans set by the user-selected interscan delay (ISD) or intergroup delay (IGD)
- Scans may be easily clustered in groups to allow multiple scans in a single breath hold
- Minimum ISD of 0.8 sec, with table moves of less than or equal to 10 mm

Scout

- Single radiographic plane scan for localization
- Wide coverage up to 1000 mm anatomy

Helical Scan Parameters:

- Helical acquisition might be set up with Gantry tilted and whatever Z-axis direction
- In Multi Helical Mode, HiSpeed FX/i allows to set up for each group of helical scan, same acquisition parameters (slice thickness, scan time, KV, mA, scan FOV) and same reconstruction parameters (Reconstruction FOV, reconstruction algorithm) OR different parameters for each group

Scan Technique:

- Scan Thicknesses: 1, 2, 3, 5, 7 and 10 mm
- Scan Speed: (Full 360° rotational scans in 0.8, 1, 1.5, 2, 3 sec.
- kVp: 80, 120, 140 kVp
- mA: 10 to 350 mA, 5 mA increments
- Power: 1.2 to 4 kW
- Focal Spot Selection:
 - Small spot for up to 24 kW
 - Larger spot for greater than 24 kW

Ge Single Slice Ct Machine User Guide

Arturo Cuomo



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