

ExcelsiusGPS®

PREOPERATIVE CT SPECIFICATIONS

The imaging techniques required for volumetric images used with the ExcelsiusGPS® system are described below.

Item	Function
Patient Position	Supine with patient located at the isocenter of the gantry
Image Parameters	<ul style="list-style-type: none"> • No gantry tilt • Standard bone algorithm • Scan contiguous slices • Scan with constant slice thickness of 1mm • Spiral or axial scans are recommended • Matrix: 512mm or higher • Recommended Pitch 1:1 • Pixel Spacing: $\leq 1.25 \times 1.25$mm (square pixel matrix) • Maximum thickness accepted: 1mm • Filter: L or D (SHARP for Lung on Philips; Bone Edge on GE) • BMI <25: 120 kV/110 mAs; BMI 25-35: 140 kV/130 mAs; BMI > 35: 140 kV/200 mAs or more
Field of View (FOV)	Spine should be centered with a FOV of 200-250mm <i>For deformity procedures, adjust the FOV to ensure operative levels are captured</i>
Scan Ranges	Scan 30mm above and below the levels of interest <i>Example image to the right shows dashed lines to scan if the levels of interest are T3-T12</i>
Image Export	Store image data with DICOMDIR as an uncompressed DICOM on a USB
Requirements to Format CT Data	<ol style="list-style-type: none"> 1. CT data should consist of one series of axial slices 2. Axial series should possess the following properties: <ul style="list-style-type: none"> • All slices should be parallel to each other • All slices should be the same dimensions • Slice spacing should be consistent • The slices saved on CD should not be compressed (DICOM)
Technical Assistance	Contact Globus Technical Support at (888) 677-7441

