

**CT Chest- High Resolution**  
**Maximum CTDI 36**

**GE- 5003**

- Indication: Pulmonary Fibrosis, (ILD, BOOP), asbestos related tumor disease, abnormal pulmonary function test
- PT Prep: No oral contrast  
 No IV contrast
- Series 1: Scouts AP & LAT – Supine “O” at Sternal Notch S20 to I350
- Series 2: Scan from lung apices to L2 with **Full Inspiration. 1 BREATH HOLD Helical** scan superior to inferior, apex of lungs to L2 in a **Bone Plus Algorithm with Lung Window. Include axial MIP.**
- Series 3: Rescan supine with **Expiration. Scan Axial with built in pauses to allow breathing breaks.**
- Series 4: Flip patient over to **Prone** position (if able to tolerate.)  
 Re-scout and scan with **Inspiration. Axial with built in pauses to allow breathing breaks**
- Technique: Bone Plus in Lung Window, DFOV approx. 36 cm

Series 2

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>VCT 64 CT3</b>	<b>Optima 660 CT1</b>
Scan Type	Helical	Helical	Helical	Helical
Noise Level	22.10	22.10	22.10	22.10
Scan FOV	Large Body	Large Body	Large Body	Large Body
kVp	120	120	120	120
AEC Type	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA
MA range	100 to 500	100 to 500	100 to 500	100 to 500
Manual mA option (avg)	240	240	240	240
Rotation Time	0.50	0.50	0.50	0.50
Interval (mm)	1.25	1.25	1.25	1.25
Avial/Helical Slice Thickness (mm)	1.25	1.25	1.25	1.25
Pitch	1.375:1	1:375:1	1:375:1	1:375:1
Speed mm/rotation	55.00	55.00	55.00	55.00
Detector Row	64	64	64	64
Detector Configuration	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625
Beam Collimation	40mm	40mm	40mm	40mm
Dose Reduction (if available)	30%	30%	30%	30%
ASIR (if available)	30%	30%	30%	30%
Algorithm	Bone Plus	Bone Plus	Bone Plus	Bone Plus
Window	Lung	Lung	Lung	Lung

Original Date: 3-7-19, 1/30/24  
 Revised Date:

Approved by: Dr. Songmen , MCR  
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Series 3

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>VCT 64 CT3</b>	<b>Optima 660 CT1</b>
Scan Type	Axial	Axial	Axial	Axial
Noise Level	22.10	22.10	22.10	22.10
Scan FOV	Large Body	Large Body	Large Body	Large Body
kVp	120	120	120	120
AEC Type	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA
MA range	100 to 500	100 to 500	100 to 500	100 to 500
Manual mA option (avg)	240	240	240	240
Rotation Time	0.50	0.50	0.50	0.50
Interval (mm)	10	10	10	10
Avial/Helical Slice Thickness (mm)	1.25	1.25	1.25	1.25
Pitch	N/A	N/A	N/A	N/A
Speed mm/rotation	N/A	N/A	N/A	N/A
Detector Row	64	64	64	64
Detector Configuration	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625
Beam Collimation	1.25mm	1.25mm	1.25mm	1.25mm
Dose Reduction (if available)	30%	30%	30%	30%
ASIR (if available)	30%	30%	30%	30%
Algorithm	Bone Plus	Bone Plus	Bone Plus	Bone Plus
Window	Lung	Lung	Lung	Lung

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Series 4

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>VCT 64 CT2</b>	<b>Optima 660 CT1</b>
Scan Type	Axial	Axial	Axial	Axial
Noise Level	22.10	22.10	22.10	22.10
Scan FOV	Large Body	Large Body	Large Body	Large Body
kVp	120	120	120	120
AEC Type	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA	Auto MA/Smart MA
MA range	100 to 500	100 to 500	100 to 500	100 to 500
Manual mA option (avg)	240	240	240	240
Rotation Time	0.50	0.50	0.50	0.50
Interval (mm)	10	10	10	10
Avial/Helical Slice Thickness (mm)	1.25	1.25	1.25	1.25
Pitch	N/A	N/A	N/A	N/A
Speed mm/rotation	N/A	N/A	N/A	N/A
Detector Row	64	64	64	64
Detector Configuration	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625
Beam Collimation	1.25mm	1.25mm	1.25mm	1.25mm
Dose Reduction (if available)	30%	30%	30%	30%
ASIR (if available)	30%	30%	30%	30%
Algorithm	Bone Plus	Bone Plus	Bone Plus	Bone Plus
Window	Lung	Lung	Lung	Lung

Networking/ PACs:    Send scouts  
                               Send all series 2,3,4 in Bone Algorithm/Lung window  
                               Send series 2 in axial MIP  
                               Send series 2 in standard Algorithm  
                               Obtain sagittal and coronal images from Recon 1 for series 2  
                               Send to PACS

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