

# High Resolution Chest 64 Sensation

<b>Indications</b>	Cough, interstitial lung disease, emphysema, bronchiectasis, asbestosis, restrictive lung disease					
<b>Diagnostic Task</b>	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest					
<b>Scan mode</b>	Helical/Axial					
<b>Position/Landmark</b>	Head first-Supine 1cm to shoulders/inspiration					
<b>Topogram</b>	PA 50mA 120kV					
<b>kVp/Reference mass</b>	helical120kv 180mas//axial 120kv/180mas					
<b>Rotation time/pitch</b>	helical 0.5/0.8 //axial full 0.5s					
<b>Detector Configuration</b>	helical 64x0.6// axial 2x1.0					
<b>Table Speed/Increment</b>	helical 30.72 //axial cycle time 1.75					
<b>Dose reduction</b>	CareDose 4D					
<b>Allowed CTDI ranges*</b>	7mGy-50mGy					
<b>XR29 Dose Notification value</b>	50mGy					
<b>Helical Set</b>						
<b>Routine Chest</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	chest	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	lung	1.5mmx 1.5mm	70very sharp	lung	pacs
	3	super Dchest	1mmx.8mm	31medium smooth	mediastinum	pacs
	3	coronal chest	2mmx2mm	31medium smooth	mediastinum	pacs
	4	sag chest	2mmx2mm	31medium smooth	mediastinum	pacs
	5	axial <b>MIP</b> lung	10mmx2mm	b20f smooth	lung	pacs
<b>1ST axial set</b>						
<b>supine experation</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pacs
<b>2ND axial set</b>						
<b>prone inspiration</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pacs
<b>Scan Start/end location</b>						
<b>DFOV</b>	lung apices lung base 35cm on full chest/FOV limited to just lungs on lung views cone just to lungs on high res views					
	<b>Approximate Values for CTDIvol</b>					
	Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)		
	SMALL	50-70	110-155	4-10		
	AVERAGE	70-90	155-200	8-16		
	LARGE	90-120	200-265	14-22		
<b>NOTE*</b>	*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist.					

