

## Digital Image Quality

Factor Increased	Effect			
	Spatial Resolution	Contrast Resolution	Temporal Resolution	Noise
Reconstruction Algorithm (smooth to sharp)	↗	↘	0	↗
FOV Image Receptor Size	↘	↗	0	↘
Matrix Size	↗	↘	0	↗
**FSS	↗	0	↗	0
SID	↗	↘	0	↗
OID	↘	↘	0	↗
Detector width	↘	↗	0	↘
Sampling Frequency	↗	0	0	0
Patient Size	0	↘	0	↗
mA (same mAs)	↘	0	↗	0
Scatter control collimation	*0	↗	0	↗
Noise	*0	↘	0	
<p><i>*Noise affects visibility (perception) of the radiographic detail not the detail itself.</i></p> <p><i>** When FSS is increased mA must be increased</i></p>				
Increase	↗			
Decrease	↘			