

In the Jan/Feb 2015 Peer Reviewed article
of the ASRT Radiologic Technology Journal:
“Increasing Source-to-Image Distance to
Reduce Radiation Dose From Digital
Radiography Pelvic Examinations”





Entrance surface dose, including backscatter was reduced by 39% and effective dose by 41% when the **SID** was increased from 100 cm (40") to 140 cm (55").

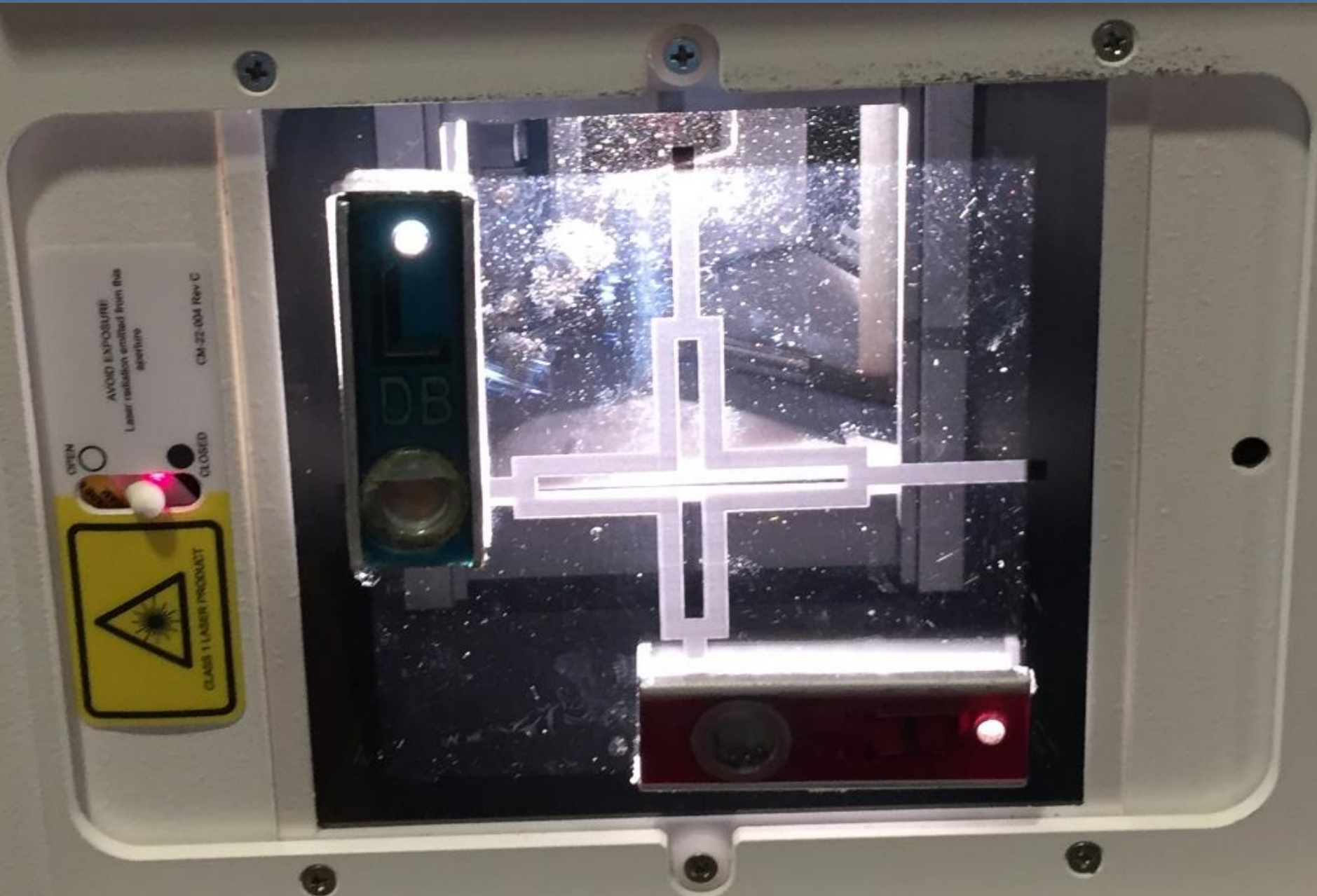
- In addition, “the image quality is increased because the magnification and geometric unsharpness are reduced” (because there is less elongation).



Exposure-Distance Conversion Chart

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New SID	Original SID								
	36in (91cm)	40in (102cm)	42in (107cm)	44in (112cm)	48in (122cm)	60in (152cm)	72in (183cm)	100in (254cm)	120in (305cm)
30in (76cm)	0.7	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1
36in (91cm)	1.0	0.8	0.7	0.7	0.6	0.4	0.3	0.1	0.1
40in (102cm)	1.2	1.0	0.9	0.8	0.7	0.4	0.3	0.2	0.1
42in (107cm)	1.4	1.1	1.0	0.9	0.8	0.5	0.3	0.2	0.1
44in (112cm)	1.5	1.2	1.1	1.0	0.8	0.5	0.4	0.2	0.1
46in (117cm)	1.6	1.3	1.2	1.1	0.9	0.6	0.4	0.2	0.2
48in (122cm)	1.8	1.4	1.3	1.2	1.0	0.6	0.4	0.2	0.2
50in (127cm)	1.9	1.6	1.4	1.3	1.1	0.7	0.5	0.3	0.2
55in (140cm)	2.3	1.9	1.7	1.4	1.3	0.8	0.6	0.3	0.2
60in (152cm)	2.8	2.3	2.0	1.9	1.4	1.0	0.7	0.4	0.3
72in (183cm)	4.0	3.2	2.9	2.7	2.3	1.4	1.0	0.5	0.4
100in (254cm)	7.7	6.3	5.7	5.2	4.3	2.8	1.9	1.0	0.7
120in (305cm)	11.1	9.0	8.2	7.4	6.3	4.0	2.8	1.4	1.0

40" SID collimated to 16.1"x16.1"



72" SID collimated to 16.1"x16.1"

AVOID EXPOSURE
Laser radiation emitted from this
aperture

CM-22-004 Rev C

OPEN



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CLASS 1 LASER PRODUCT

