

DICOM Correction Item

Correction Number		CP-446
Log Summary: Distance Source to Detector and SID errors		
Type of Modification	Name of Standard	
Correction	PS 3.3-2003	
Rationale for Correction		
<p>On a number places there is an error in the description of X-ray geometrical attributes:</p> <p>In Table C.4-16 the Distance Source to Detector attribute (0018,1110) and in Table C.8-30, C8-31 and C.8-68 the Estimated Radiographic Magnification attribute (0018,1114) contains Source Image Distance instead of Source Image Receptor Distance as explanation for SID. This lead to confusion.</p> <p>Defenition of SID: "Source-image receptor distance" means the distance from the source to the center of the input surface of the image receptor.</p> <p>As second issue the descriptions of the Distance Source to Detector attribute (0018,1110) and Distance Source to Patient (0018,1111) are made consistent: add note with explanation of SID or SOD.</p>		
Sections of documents affected		
PS 3.3-2003 C.4.16, C.8.7.5, C.8.7.6 and C.8.11.5		
Correction Wording:		

C.4.16 Radiation Dose

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**Table C.4-16
RADIATION DOSE MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
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Distance Source to Detector (SID)	(0018,1110)	Distance in mm from the source to detector center; SID: Source Image Distance. Note: This value is traditionally referred to as Source Image Receptor Distance (SID).
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C.8.7.5 XA Positioner Module

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**Table C.8-30
XA POSITIONER MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Distance Source to Patient	(0018,1111)	3	Distance in mm from source to isocenter (center of field of view). Note: This value is traditionally referred to as Source Object Distance (SOD).
Distance Source to Detector	(0018,1110)	3	Distance in mm from source to detector center. Note: This value is traditionally referred to as Source Image Receptor Distance (SID).
Estimated Radiographic Magnification Factor	(0018,1114)	3	Ratio of Source Image <u>Receptor</u> Distance (SID) over Source Object Distance (SOD).
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C.8.7.6 XRF Positioner Module

**Table C.8-31
XRF POSITIONER MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Distance Source to Detector	(0018,1110)	3	Distance in mm from source to detector center. Note: This value is traditionally referred to as Source Image receptor Distance (SID).
Distance Source to Patient	(0018,1111)	3	Distance in mm from source to isocenter (center of field of view). Note: This value is traditionally referred to as Source Object Distance (SOD).
Estimated Radiographic Magnification Factor	(0018,1114)	3	Ratio of SID (Source Image <u>Receptor</u> Distance) over SOD (Source Object Distance).
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C.8.11.5 DX Positioning Module

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**Table C.8-68
DX POSITIONING MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
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Distance Source to Detector	(0018,1110)	3	Distance in mm from source to detector center. Note: This value is traditionally referred to as Source Image <u>Receptor</u> Distance (SID).
Estimated Radiographic Magnification Factor	(0018,1114)	3	Ratio of Source Image <u>Receptor</u> Distance (SID) over Source Object Distance (SOD).
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