

DICOM Correction Item

Correction Number	CP-956
Log Summary: Pixel Spacing may not be negative	
Type of Modification	Name of Standard
Clarification	PS 3.3 2008
Rationale for Correction Pixel Spacing may not be negative. Also, remove inappropriate units from Pixel Spacing encoding example, and fix incorrect tags in text.	
Sections of documents affected PS 3.3 10.7.1	
Correction Wording:	

10.7.1.1 Pixel Spacing

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If Pixel Spacing (~~0018,2010~~) (~~0028,0030~~) is present and the image has not been calibrated to correct for the effect of geometric magnification, the values of this attribute shall be the same as in Imager Pixel Spacing (0018,1164) or Nominal Scanned Pixel Spacing (0018,2010), if either of those attributes are present.

If Pixel Spacing (~~0018,2010~~) (~~0028,0030~~) is present and the values are different from those in Imager Pixel Spacing (0018,1164) or Nominal Scanned Pixel Spacing (0018,2010), then the image has been corrected for known or assumed geometric magnification or calibrated with respect to some object of known size at known depth within the patient.

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10.7.1.3 Pixel Spacing Value Order and Valid Values

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To illustrate, consider the following example:

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Pixel Spacing = Row Spacing \ Column Spacing = 0.30-~~mm~~ \ 0.25-~~mm~~.

All pixel spacing related attributes shall have **positive** non-zero values, except when there is only a single row or column or pixel of data present, in which case the corresponding value may be zero.