

DICOM Correction Item

Correction Number CP-357	
Log Summary: Add attributes to CT IOD for helical pitch	
Type of Modification Addition	Name of Standard PS 3.3 2003
Rationale for Correction: The current CT IOD does not include attributes describing helical pitch. Explicit recording of the pitch used in scanning is necessary for documentation as part of the ACR CT professional certification process. Attributes for pitch are included in the Enhanced CT IOD (Supplement 58), but also need to be included (as Type 3) in the current IOD.	
Sections of documents affected PS 3.3 Section C.8.2.1	
Correction Wording:	

Add attributes to PS3.3 Table C.8-3

**Table C.8-3
 CT IMAGE MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...			
<u>Revolution Time</u>	<u>(0018,9305)</u>	<u>3</u>	<u>The time in seconds of a complete revolution of the source around the gantry orbit.</u>
<u>Single Collimation Width</u>	<u>(0018,9306)</u>	<u>3</u>	<u>The width of a single row of acquired data (in mm).</u> <u>Note: Adjacent physical detector rows may have been combined to form a single effective acquisition row.</u>
<u>Total Collimation Width</u>	<u>(0018,9307)</u>	<u>3</u>	<u>The width of the total collimation (in mm) over the area of active x-ray detection.</u> <u>Note: This will be equal the number of effective detector rows multiplied by single collimation width.</u>
<u>Table Speed</u>	<u>(0018,9309)</u>	<u>3</u>	<u>The distance in mm that the table moves in one second during the gathering of data that resulted in this image.</u>

<u>Table Feed per Rotation</u>	<u>(0018,9310)</u>	<u>3</u>	<u>Motion of the table (in mm) during a complete revolution of the source around the gantry orbit.</u>
<u>CT Pitch Factor</u>	<u>(0018,9311)</u>	<u>3</u>	<u>Ratio of the Table Feed per Rotation (0018, 9310) to the Total Collimation Width (0018, 9307).</u>