

DICOM Correction Item

Correction Number CP- 999	
Log Summary: Add 'Angle of View' and Acquisition Context Module to Ophthalmic Photography IODs	
Type of Modification	Name of Standard
Addition	PS 3.3 – 2009 PS 3.6 – 2009
Rationale for Correction: <p>The Ophthalmic Photography SOP Classes were added to the DICOM Standard as part of Supplement 91. It was determined that the more generic Visible Light Photography SOP Class would not include sufficient descriptive information needed for ophthalmic photography images, such as fundus images.</p> <p>The Visible Light Photography SOP Class does include the 'Acquisition Context Module' for description of the conditions present during data acquisition. Because of the more specific nature of the Ophthalmic Photography SOP Classes, specific elements were defined in Sup. 91 and the 'Acquisition Context Module' was not made part of the Ophthalmic Photography SOP Classes. However in the definition of the 'Ophthalmic Photographic Parameters Module', not all relevant acquisition parameters have been included. For example, it is very common, in eye care practices throughout the world, that the angle of view can be switched between different settings on a fundus camera (e.g. 30° or 45°). Instead of having to convey that important acquisition parameter as a private tag, this Correction Proposal adds it as a specific DICOM element.</p> <p>Other settings (including flash intensity settings, focus and focus aid settings) may be vendor-specific; therefore it may not be possible to commonly define the commonly used values. However being able to convey those in a coded way in the Acquisition Context Sequence appears to be much more favorable and informative to the end-user, compared to the use of private tags.</p>	
Sections of documents affected	
PS 3.3 Section A.41.3 PS 3.3 Section A.42.3 PS 3.3 Section C.8.17.3 PS 3.6 Section 6	
Correction Wording:	

Add 'Acquisition Context' Module to Ophthalmic Photography 8 Bit Image IOD Modules

**Table A.41-1
 OPHTHALMIC PHOTOGRAPHY 8 BIT IMAGE IOD MODULES**

IE	Module	Reference	Usage
...
Image
	Device	C.7.6.12	U
	<u>Acquisition Context</u>	<u>C.7.6.14</u>	<u>U</u>
	Ophthalmic Photography Image	C.8.17.2	M

Add 'Acquisition Context' Module to Ophthalmic Photography 16 Bit Image IOD Modules

**Table A.42-1
 OPHTHALMIC PHOTOGRAPHY 16 BIT IMAGE IOD MODULES**

IE	Module	Reference	Usage
...
Image
	Device	C.7.6.12	U
	<u>Acquisition Context</u>	<u>C.7.6.14</u>	<u>U</u>
	Ophthalmic Photography Image	C.8.17.2	M

Add 'Angle of View' to Ophthalmic Photographic Parameters Module

**Table C.8.17.3-1
 OPHTHALMIC PHOTOGRAPHIC PARAMETERS MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...
<u>Camera Angle of View</u>	<u>(0022,001E)</u>	<u>3</u>	<u>The aperture angle of the camera, in degrees</u>

Amend PS 3.6 Section 6 as follows:

(0022,001E) Camera Angle of View CameraAngleofView FL 1