

## DICOM Correction Item

Correction Number		CP-780
Log Summary: Correct conditions in Palette Color Lookup Table Module		
Type of Modification	Name of Standard	
Correction	PS 3.3 2007	
Rationale for Correction		
The use of the Palette Color Lookup Table Module in IODs is based on requirements or conditions that make the additional contained requirements for the LUT Descriptors redundant.		
Sections of documents affected		
PS 3.3 C.7.9		
Correction Wording:		

### C.7.9 Palette Color Lookup Table Module

Table C.7-22 specifies the Attributes that describe the Lookup table data for images with Palette Color photometric interpretation.

When the Palette Color Lookup Table Module is present in an Image IOD, the conditional requirements for the use of Palette Color Lookup Table Data (0028,1201-1203) and Segmented Palette Color Lookup Table Data (0028,1221-1223), described in Table C.7.9, shall take precedence over the conditional requirements described in the Image Pixel Module (See Section C.7.6.3). When the Palette Color Lookup Table Module is present in a Presentation State IOD, the Palette Color Lookup Table Data (0028,1201-1203) attributes are mandatory and the Segmented Palette Color Lookup Table Data (0028,1221-1223) shall not be present.

**Table C.7-22  
 PALETTE COLOR LOOKUP MODULE**

Attribute Name	Tag	Type	Attribute Description
Red Palette Color Lookup Table Descriptor	(0028,1101)	1C	Specifies the format of the Red Palette Color Lookup Table Data (0028,1201). <b>Required if Photometric Interpretation (0028,0004) has a value of PALETTE COLOR in an Image IOD, or if the IOD is a Presentation State IOD.</b> See C.7.6.3.1.5 for further explanation.
Green Palette Color Lookup Table Descriptor	(0028,1102)	1C	Specifies the format of the Green Palette Color Lookup Table Data (0028,1202). <b>Required if Photometric Interpretation (0028,0004) has a value of PALETTE COLOR in an Image IOD, or if the IOD is a Presentation State IOD.</b> See C.7.6.3.1.5 for further explanation.
Blue Palette Color Lookup Table Descriptor	(0028,1103)	1C	Specifies the format of the Blue Palette Color Lookup table Data (0028,1203). <b>Required if Photometric Interpretation (0028,0004) has a value of PALETTE COLOR in an Image IOD, or if the IOD</b>

			<del>is a Presentation State IOD.</del> See C.7.6.3.1.5 for further explanation.
Palette Color Lookup Table UID	(0028,1199)	3	Palette Color Lookup Table UID. See C.7.9.1 for further explanation.
Red Palette Color Lookup Table Data	(0028,1201)	1C	Red Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is NOT used in an Image IOD, or if the IOD is a Presentation State IOD. See C.7.6.3.1.6 for further explanation.
Green Palette Color Lookup Table Data	(0028,1202)	1C	Green Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is NOT used in an Image IOD, or if the IOD is a Presentation State IOD. See C.7.6.3.1.6 for further explanation.
Blue Palette Color Lookup Table Data	(0028,1203)	1C	Blue Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is NOT used in an Image IOD, or if the IOD is a Presentation State IOD. See C.7.6.3.1.6 for further explanation.
Segmented Red Palette Color Lookup Table Data	(0028,1221)	1C	Segmented Red Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is used in an Image IOD; shall not be present in a Presentation State IOD. See C.7.9.2 for further explanation.
Segmented Green Palette Color Lookup Table Data	(0028,1222)	1C	Segmented Green Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is used in an Image IOD; shall not be present in a Presentation State IOD. See C.7.9.2 for further explanation.
Segmented Blue Palette Color Lookup Table Data	(0028,1223)	1C	Segmented Blue Palette Color Lookup Table Data. Required if <del>Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and</del> segmented data is used in an Image IOD; shall not be present in a Presentation State IOD. See C.7.9.2 for further explanation.