

## DICOM Correction Item

Correction Number		CP-632
Log Summary: Correct Palette Color LUT conditions in Color Presentation States		
Type of Modification	Name of Standard	
Correction	PS 3.3 2006	
Rationale for Correction		
The Palette Color LUT Module is mandatory in Pseudo-color and Blended Color Presentation States, but the conditions on various module attributes are predicated on Photometric Interpretation, which is present only in image objects.		
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). Required if Photometric Interpretation (0028,0004) has a value of PALETTE COLOR <b><u>in an Image IOD, or if the IOD is a Presentation State IOD.</u></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). Required if Photometric Interpretation (0028,0004) has a value of PALETTE COLOR <b><u>in an Image IOD, or if the IOD is a Presentation State IOD.</u></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). Required if Photometric Interpretation (0028,0004) has a value of PALETTE

			COLOR <b><u>in an Image IOD, or if the IOD is a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is NOT used <b><u>in an Image IOD, or if the IOD is a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is NOT used <b><u>in an Image IOD, or if the IOD is a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is NOT used <b><u>in an Image IOD, or if the IOD is a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is used <b><u>in an Image IOD; shall not be present in a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is used <b><u>in an Image IOD; shall not be present in a Presentation State IOD</u></b> . 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 Photometric Interpretation (0028,0004) has a value of PALETTE COLOR and segmented data is used <b><u>in an Image IOD; shall not be present in a Presentation State IOD</u></b> . See C.7.9.2 for further explanation.