

DICOM Correction Item

Correction Number	CP-769
Log Summary: MONOCHROME2 missing in part of MPEG2 definition	
Type of Modification	Name of Standard
Correction	PS 3.5 – 2007
Rationale for Correction	
In the description of the MPEG2 compression is mentioned that YBR_PARTIAL_420 and MONOCHROME2 are possible values for the Photometric Interpretation (0028,0004) attribute. In the summary below the MONOCHROME2 is missing.	
Sections of documents affected	
PS 3.5 Section 8.2.5	
Correction Wording:	

8.2.5 MPEG2 MP@ML IMAGE COMPRESSION

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The MPEG2 MP@ML bit stream specifies whether or not a reversible or irreversible multi-component (color) transformation, if any, has been applied. If no multi-component transformation has been applied, then the components shall correspond to those specified by the DICOM Attribute Photometric Interpretation (0028,0004). MPEG2 MP@ML applies an irreversible multi-component transformation, so DICOM Attribute Photometric Interpretation (0028,0004) shall be YBR_PARTIAL_420 in the case of multi-component data, and MONOCHROME2 in the case of single component data (even though the MPEG2 bit stream itself is always encoded as three components, one luminance and two chrominance).

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In summary:

- Samples per Pixel (0028,0002) shall be 3
- Photometric Interpretation (0028,0004) shall be YBR_PARTIAL_420 **or**
MONOCHROME2
- Bits Allocated (0028,0100) shall be 8

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