

ISO/IEC 15444-10:2008-12 (E)

Information technology_ - JPEG 2000 image coding system: Extensions for three-dimensional data

CONTENTS

	<i>Page</i>
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviations	2
5 Symbols (and abbreviated terms)	2
6 General description	3
Annex A – Codestream syntax, extension	4
A.1 Extended capabilities	4
A.2 Extensions to ITU-T Rec. T.800 ISO/IEC 15444-1 and ITU-T Rec. T.801 ISO/IEC 15444-2 marker segment parameters	5
Annex B – Image and compressed image data ordering, extension	16
B.1 Introduction	16
B.2 Introduction to image data structure concepts	16
B.3 Component mapping to the reference grid	16
B.4 Image area division into tiles and tile-components	16
B.5 Transformed tile-component division into resolution levels and sub-bands	18
B.6 Division of resolution levels into precincts	19
B.7 Division of sub-bands into code-blocks	20
B.8 Packets	20
B.9 Packet header information coding	20
B.10 Progression order	21
Annex C – Coefficient bit modelling	23
C.1 Introduction	23
C.2 Code-block scan pattern within code-blocks, extended	23
C.3 Context model updates	23
Annex D – Discrete wavelet transformation of tile-components	24
D.1 Introduction	24
D.2 Tile-component parameters	24
D.3 Discrete wavelet transformations	24
D.4 Inverse discrete wavelet transformation	24
D.5 Forward transformation (informative)	32
Annex E – Coding of images with regions of interest, extension	39
E.1 Introduction	39
E.2 Decoding of ROI	39
E.3 Encoding with ROI (informative)	40
E.4 Region of interest mask generation	42
E.5 Remarks on region of interest coding	44
Annex F – Examples and guidelines, extensions	45
F.1 Rate-distortion modelling	45
Bibliography	46