ISO/IEC 23001-17:2024-02 (E)

Information technology - MPEG systems technologies - Part 17: Carriage of uncompressed video and images in ISO base media file format

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Uncompressed video and image formats 2
4.1 Overview 2
4.2 Storage in media tracks 3
4.3 Storage in image items 3

5 Uncompressed frame description 4
5.1 Component Definition 4
5.1.1 Definition 4
5.1.2 Syntax 6
5.1.3 Semantics 6
5.2 Uncompressed Frame Configuration 6
5.2.1 Definition 6
5.2.2 Syntax 21
5.2.3 Semantics 21
5.2.4 Examples 22
5.3 Profiles for uncompressed frame configurations 28
5.3.1 Overview 28
5.3.2 Predefined configurations 29
5.4 MIME type sub-parameters 30

6 Component description extensions 31
6.1 Extensions for uncompressed video and uncompressed images 31
6.1.1 Overview 31
6.1.2 Component Palette configuration 31
6.1.3 Component Pattern Definition 32
6.1.4 Component Reference Level 33
6.1.5 Polarization Pattern Definition 34
6.1.6 Sensor Non-Uniformity Correction 36
6.1.7 Sensor Bad Pixels Map 37
6.1.8 Chroma Location 38
6.1.9 Frame Packing Information 39
6.1.10 Disparity Information 39
6.1.11 Depth Mapping Information 40
6.2 Sample group descriptions 40
6.2.1 Field Interlace Type 40
6.3 Image Item properties 41
6.3.1 Field Interlace Property 41

7 Multiple tracks and items storage 42
7.1 Overview 42
7.2 Component video track group 42
7.3 Image tiling using ISOBMFF tracks and items 42

Bibliography 44