BS ISO 12234-3:2016



BSI Standards Publication

Electronic still picture imagingRemovable memory

Part 3: XMP for digital photography



National foreword

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Foreword	Contents					
1 Scope 1 2 Normative references 1 3 Terms and definitions 1 4 Reference model and usage 2 4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.1 Value type 7 6.2.1 Value type 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodyScrialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8	Fore	word			v	
2 Normative references 1 3 Terms and definitions 1 4 Reference model and usage 2 4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.1 Apic type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CapertureValue 7 6.2.5 CapertureValue 7 6.2.5 CapureSection 8 6.2.6 CaptureSet 8 6.2.7 CapureSection 9	Intro	oductio	n		vi	
2 Normative references 1 3 Terms and definitions 1 4 Reference model and usage 2 4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.1 Apic type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CapertureValue 7 6.2.5 CapertureValue 7 6.2.5 CapureSection 8 6.2.6 CaptureSet 8 6.2.7 CapureSection 9	1	Scop	e		1	
3 Terms and definitions 1 4 Reference model and usage 2 4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata definitions 7 6.2 Active Metadata definitions 7 6.1 Metadata definitions 7 6.2 Active Metadata definitions 7 6.1 Metadata definitions 7 6.2 Active Metadata definitions 3 6.2 Active Metadata definitions 7 6.2.1 Active Metadata definitions 7 6.2.2 Active Metadata definitions 3 6.2.2 A	_	_				
4 Reference model and usage 2 4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.5 CameraOwnerName 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTimeOriginal 9 6.2.13 DigitalZoomRatio 9 6.2.14 ExposurePorgan	_					
4.1 General considerations 2 4.2 Native metadata properties and their usage 2 5 Extensions 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 Camera OwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime Original 9 6.2.13 DigitalZoomRatio 9 6.2.14 ExposureBiasValue 9 6.2.15 ExposureBiasValue 9 6	3	Tern	is and do	efinitions	1	
4.2 Native metadata properties and their usage 2 5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata definitions 3 6.2 Metadata definitions 7 6.2 Metadata definitions 7 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFPAattern 7 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.11 <td< td=""><td>4</td><td>Refe</td><td></td><td></td><td></td></td<>	4	Refe				
5 XMP namespace 3 5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata lists 3 6.2 Metadata definitions 7 6.2 ApertureValue 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTimeOriginal 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 </td <td></td> <td></td> <td colspan="3" rowspan="2"></td>						
5.1 General 3 5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata definitions 7 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeDigitized 9 6.2.12 DateTimeOriginal 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureIndex 10		4.2				
5.2 Extensions 3 6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.10 DateTimeOriginal 9 6.2.12 DateTimeDigitized 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureProgram 10 6.2.17 Favorites 11	5	XMP	XMP namespace			
6 Metadata definitions 3 6.1 Metadata lists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTimeOriginal 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureBiasValue 9 6.2.16 ExposureProgram 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10						
6.1 Metadata latists 3 6.2 Metadata definitions 7 6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BødySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CrAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTimeOriginal 9 6.2.13 BigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureBiasValue 9 6.2.17 ExposureBiasValue 9 6.2.18 Faces 10 6.2.19 Favorites 1 6.2.19 Favorites 1 6.2.21 FocalLength 1 6.2.21 FocalLength		5.2	Extens	sions		
6.2.1 Value type 7 6.2.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeOriginal 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.21 FocalLength 12 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageDescription	6					
62.1 Value type 7 62.2 ApertureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTimeOriginal 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 EacosureIndex 10 6.2.19 Favorites 11 6.2.19 Favorites 11 6.2.19 Favorites 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 ImageDescript						
6.2.2 ApritureValue 7 6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDrigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureProgram 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageDescription 14 6.2.25 ImageDescription 14 6.2.26 ImageWidth		6.2				
6.2.3 Artist 7 6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImagePescription 14 6.2.25 ImagePescription 14 6.2.26 ImageWidth <t< td=""><td></td><td></td><td>_</td><td></td><td></td></t<>			_			
6.2.4 BodySerialNumber 7 6.2.5 CameraOwnerName 8 6.2.6 CaptureSet 8 6.2.7 CFAPattern 8 6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureBiasValue 9 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.19 Favorites 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageLength 14 6.2.26 ImageLength 14 6.2.21 LensModel						
62.6 CaptureSet 8 62.7 CFAPattern 8 62.8 ColourEncoding 8 62.9 Copyright 9 62.10 DateTimeDigitized 9 62.11 DateTimeOriginal 9 62.12 DateTime 9 62.13 DigitalZoomRatio 9 62.14 Editor 9 62.15 ExposureBiasValue 9 62.16 ExposureIndex 10 62.17 ExposureProgram 10 62.18 Faces 10 62.19 Favorites 11 62.21 Faces 10 62.21 Faces 10 62.21 Faces 10 62.21 Faces 11 62.22 Flash 11 62.23 Faces 12 62.24 FacealLengthIn35mmFilm 12 62.23 GPS 12 62.24 ImageAspectRatio 13 62.25 ImageDescription 14 6			6.2.4			
6.2.7 CFAPattern 8 6.2.8 Colour-Encoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.21 Faces 10 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageUnith 14 6.2.21 ImageWidth 14 6.2.22 LensMake 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.34 Make						
6.2.8 ColourEncoding 8 6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.19 Favorites 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageWidth 14 6.2.27 ImageWidth 14 6.2.28 ImageWidth 14 6.2.31 LensSerialNumber 14 6.2.32 LensSerialNumber 15 6.2.33 Make<						
6.2.9 Copyright 9 6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageWidth 14 6.2.27 ImageWidth 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34			_			
6.2.10 DateTimeDigitized 9 6.2.11 DateTimeOriginal 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.21 FocalLengthIn35mmFilm 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 ImageAspectRatio 13 6.2.24 ImageAspectRatio 13 6.2.25 ImageWidth 14 6.2.26 ImageWidth 14 6.2.27 ImageWidth 14 6.2.31 LensNodel 14 6.2.31 LensSerialNumber 14 6.2.33 LightSource 15 <				_		
6.2.11 DateTime 9 6.2.12 DateTime 9 6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLength 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageDescription 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.31 LensModel 14 6.2.32 LensModel 14 6.2.33 LightSource 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue						
6.2.13 DigitalZoomRatio 9 6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageAspectRatio 13 6.2.26 ImageLength 14 6.2.27 ImageWidth 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.31 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.37 Model<						
6.2.14 Editor 9 6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageWidth 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.31 LensSpecification 15 6.2.32 LightSource 15 6.2.33 Make 16 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.37 Model 16			_			
6.2.15 ExposureBiasValue 9 6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.31 LensSperialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				e e e e e e e e e e e e e e e e e e e		
6.2.16 ExposureIndex 10 6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageWidth 14 6.2.28 ImageWidth 14 6.2.29 LensModel 14 6.2.31 LensSpecification 15 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.37 Model 16			_			
6.2.17 ExposureProgram 10 6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.31 LensSpecification 14 6.2.31 LensSpecification 15 6.2.32 LightSource 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				1		
6.2.18 Faces 10 6.2.19 Favorites 11 6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				1		
6.2.20 Flash 11 6.2.21 FocalLength 12 6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				1 0		
6.2.21 FocalLength In 35mm Film 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16			6.2.19			
6.2.22 FocalLengthIn35mmFilm 12 6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.23 GPS 12 6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.24 ImageAspectRatio 13 6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				•		
6.2.25 ImageDescription 14 6.2.26 ImageLength 14 6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.27 ImageTileSet 14 6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				0 1		
6.2.28 ImageWidth 14 6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				ImageLength	14	
6.2.29 LensMake 14 6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				8		
6.2.30 LensModel 14 6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				0		
6.2.31 LensSerialNumber 14 6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.32 LensSpecification 15 6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.33 LightSource 15 6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16						
6.2.34 Make 16 6.2.35 MaxApertureValue 16 6.2.36 MeteringMode 16 6.2.37 Model 16				1		
6.2.36 MeteringMode 16 6.2.37 Model 16				Make	16	
6.2.37 Model				1		
				6		
VIETO TIMESOPOUM MICHOLOUGH CONTROL TO						

BS ISO 12234-3:2016 ISO 12234-3:2016(E)

6.2.39	OECF	17	
6.2.40	Orientation	17	
6.2.41	SceneLuminance	17	
6.2.42	Self-TimerMode	17	
6.2.43	ShutterSpeedValue Software	17	
6.2.44	Software	18	
6.2.45	SubjectArea	18	
6.2.46	SubjectDistance	19	
6.2.47	SubjectDistance	19	
Annex A (normative)	XMP metadata use with Exif image format	20	
Annex B (normative)	XMP metadata use with TIFF/EP image format	22	
Annex C (normative) XMP metadata use with JPEG 2000 image format			
Annex D (normative) Value forms and value types			
Rihliogranhy		29	

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The committee responsible for this document is ISO/TC 42, *Photography*.

ISO 12234 consists of the following parts, under the general title *Electronic still-picture imaging* — *Removable memory*:

- Part 1: Basic removable-memory model
- Part 2: TIFF/EP image data format
- Part 3: XMP for digital photography

Introduction

Metadata enables digital images to be more easily searched and located (e.g. by knowing more about the image), more appropriately processed and printed (e.g. by knowing the picture-taking conditions), and more appropriately stored and shared (e.g. by knowing the GPS location of the image and the copyright owner).

Several different TIFF-based metadata formats are commonly used in digital cameras, while XML-encoded metadata is commonly used in on-line image databases.

The purposes of this part of ISO 12234 are, first, to define unambiguously a mapping for metadata properties that are most relevant to digital photography into XMP and, second, to document the meaning of each metadata item.

This part of ISO 12234 is independent of the format of the image file, could be used inside any image file, and could be used in databases of image-related metadata.

Electronic still picture imaging — Removable memory —

Part 3:

XMP for digital photography

1 Scope

This part of ISO 12234 defines an XMP namespace for the metadata used in digital photography applications that is formatted for exchange using the syntax of the XML and provides standard definitions of this metadata.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8601, Data elements and interchange formats — Information interchange — Representation of dates and times

ISO 12232, Photography — Digital still cameras — Determination of exposure index, ISO speed ratings, standard output sensitivity, and recommended exposure index

ISO 12234-2, Electronic still-picture imaging — Removable memory — Part 2: TIFF/EP image data format

ISO 14524, Photography — Electronic still-picture cameras — Methods for measuring opto-electronic conversion functions (OECFs)

ISO 16684-1:2012, Graphic technology — Extensible metadata platform (XMP) specification — Part 1: Data model, serialization and core properties

ISO/IEC 15444-1, Information Technology — JPEG 2000 image coding system: Core coding system

ISO/IEC 15444-2, Information Technology — JPEG 2000 image coding system — Extensions

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

Exif

image file format which specifies the formats to be used for images, sound, and tags in digital still cameras standardized by CIPA (Camera and Imaging Products Association) and JEITA (Japan Electronics and Information Technology Industries Association)

Note 1 to entry: Exif is abbreviation of "Exchangeable image file format for digital still cameras".

3.2

namespace

set of unique names that are used to unambiguously label the elements in related data sets