

Brown University Technical Metadata for Still Images

Element Name	Display label	Brief definition	Req. Status	Repeat?	MIX element	TIFF	JPEG	JPEG2000
M=Mandatory, MA=Mandatory, if applicable, R=Recommended, O=Optiona								
Mimetype	Mimetype	MIME type associated with image data	M	N	6.1.1	x	x	x
CompressionScheme	Compression_Scheme	compression scheme used to store image data	M	N	6.1.3.1	x	x	x
CompressionLevel	Compression_Level	level of compression used in compression scheme	MA	N	6.1.3.2	x	x	x
ColorSpace	Color_Space	color space of decompressed image data	M	N	6.1.4.1	x	x	x
ICCProfileName	ICC_Profile_Name	name of ICC profile used	MA	N	6.1.4.2.1	x	x	x
FileSize	File_Size	extent of image in number of bytes	M	N	6.2.2	x	x	x
TileWidth	Tile_Width	tile width in pixels	R	N	6.1.5.5	x		x
Tile Length	Tile_Length	tile length in pixels	R	N	6.1.5.6	x		x
ChecksumMethod	Checksum_Method	type of error detection technique usec	R	N	6.2.3.1	x	x	x
ChecksumValue	Checksum_Value	checksum (or equivalent)	R	N	6.2.3.2	x	x	x
ImageProducer	Image_Producer	organization-level producer of image	R	Y	7.3	x	x	x
DeviceSource	Device_Source	classification of device used to create image dta	R	N	7.5	x		
ScannerManufacturer	Scanner_Manufacturer	manufacturer of scanner used to create image	R	N	7.6.1.1	x		
ScannerModel	Scanner_Model	model name of scanner used to create image	R	N	7.6.1.2	x		
ScannerModelNumber	Scanner_Model_Number	model number of the scanner used to create image	R	N	7.6.1.2.2	x		
ScannerModelSerialNo	Scanner_Model_Serial_No	serial number of the scanner used to create image	O	N	7.6.1.2.3	x		
ScanningSoftware	Scanning_Software	name of capture software used to create image	R	N	7.6.2.1	x		
ScanningSoftwareVersionNo	Scanning_Software_Version_no	version no. of capture software used to create image	R	N	7.6.2.2	x		
DigitalCameraManufacturer	Digital_Camera_Manufacturer	manufacturer of digital camera used to create image	R	N	7.7.1	x		
DigitalCameraModel	Digital_Camera_Model	model of digital camera used to create image	R	N	7.7.2	x		
Fnumber	F_Number	lens f-number used when the image was captured	O	N	7.7.3.1	x		
ExposureTime	Exposure_Time	exposure time used when image captured, recorded in seconds	O	N	7.7.3.2	x		
SubjectDistance	Subject_Distance	distance, in meters, between frontal plane of camera lens and subject	O	N	7.7.3.5	x	x	x
SceneIlluminant	Scene_Illuminant	light source present when image was captured	O	N	7.7.3.7	x	x	x
FocalLength	Focal_Length	lens focal length in meters	O	N	7.7.3.9	x	x	x
DateTimeCreated	Date_Time_Created	date or date/time image created	MA	N	7.9	x		
SamplingFrequencyUnit	Sampling_Frequency_Unit	unit of measurement for 8.1.3 and 8.1.4	M	N	8.1.2	x		
XSamplingFrequency	X_Sampling_Frequency	no. of pixels in image width	MA	N	8.1.3	x		
YSamplingFrequency	Y_Sampling_Frequency	no. of pixels in image length	MA	N	8.1.4	x		
ImageWidth	Image_Width	width of digital image in pixels	MA	N	8.1.5	x		
ImageLength	Image_Length	length of digital image in pixels	MA	N	8.1.6	x		
QualityLayers	Quality_Layers	no. of layers to which each JPEG2000 tiles has been decomposec	MA	N	brownmix	x		x
ResLevels	Res_Levels	no. of resolution levels to which each JPEG2000 tile as been decomposec	MA	N	brownmix	x		x
BitsPerSample	Bits_Per_Sample	no. of bits per component for each pixel	M	N	8.2.1	x		
SamplesPerPixel	Samples_Per_Pixel	no. of color components per pixel	M	N	8.2.2	x		
ColormapReference	Colormap_Reference	location of file containing color map	MA	N	8.2.4.1	x		
ColormapBitCodeValue	Colormap_BitCode_Value	bit code value or ref point for particular RGB triplet of colormap	MA	R	8.2.4.2	x		
ColormapRedValue	Colormap_Red_Value	red value within particular RGB triplet of colormap	MA	R	8.2.4.3	x		
ColormapGreenValue	Colormap_Green_Value	green value within particular RGB triplet of colormap	MA	R	8.2.4.4	x		
ColormapBlueValue	Colormap_Blue_Value	blue value within particular RGB triplet of colormap	MA	R	8.2.4.5	x		
TargetType	Target_Type	identifies target as internal or external	MA	Y	8.3.1	x		
TargetIDManufacturer	Target_ID_Manufacturer	manufacturer or organization that created target	MA	Y	8.3.2.1	x		
TargetIDName	Target_ID_Name	name of target	MA	Y	8.3.2.2	x		
TargetIDNo	Target_ID_No	version or number of target	MA	Y	8.3.2.3	x		
TargetIDMedia	Target_ID_Media	media of target	MA	Y	8.3.2.4	x		

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DateTimeProcessed	Date_Time_Processed	date or date/time image processed	MA	Y	9.1.1	x	x	x
SourceData	Source_Data	reference to source image data or desc or file	MA	N	9.1.2	x	x	x
ProcessingSoftwareName	Processing_Software_Name	name of image processing software used to edit image data	R	N	9.1.4.1	x	x	x
ProcessingSoftwareVersion	Processing_Software_Version	version no. of software	R	Y	9.1.4.2	x	x	x
ProcessingActions	Processing_Actions	ordinal listing of image processing steps performed	R	Y	9.1.5	x	x	x

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