2002 Consumer Digital Camera Metadata Survey

		Camera	Canon PowerShot A40	Canon PowerShot G2	Canon PowerShot S30	Canon PowerShot S110	Canon PowerShot S200	Fuji Finepix 2600	Fuji Finepix 2650	Fuji Finepix 2800	Fuji Finepix 3800	Fuji Finepix A101	HP PhotoSmart C315	HP PhotoSmart C318	HP PhotoSmart C320	HP PhotoSmart 612	Kodak EasyShare CX4230	Kodak EasyShare CX4230	Kodak EasyShare DX3500	Kodak EasyShare DX3600	Kodak EasyShare DX3700	Kodak EasyShare DX3900	Kodak EasyShare DX4330	Kodak EasyShare DX4900	Kodak EasyShare LS-420	Kodak EasyShare LS-443	Nikon Coolpix 775	Nikon Coolpix 995	Nikon Coolpix 2500	Olympus Camedia C3020Z	Olympus Camedia C4000Z	Olympus Camedia C4040Z	Olympus Camedia C700UZ	Olympus Camedia C720UZ	Olympus Camedia D-370	Olympus Camedia D-380	Olympus Camedia D-510	Olympus Camedia D-520Z	Olympus Camedia D-550Z	Sony Cybershot DSC-F707	Sony Cybershot DSC-P5	Sony Cybershot DSC-P7	Sony Cybershot DSC-P9	Sony Cybershot DSC-P30	Sony Cybershot DSC-P50	Sony Cybershot DSC-P51	Sony Cybershot DSC-P71	Sony Cybershot DSC-S75	Sony Cybershot DSC-S85	Sony Mavica MVCFD100	Sony Mavica MVCFD200	ALL CAMERAS # of cameras w/ metadata	ALL CAMERAS % of cameras w/ metadata
		Total Sensor Pixels (megapixels)	2.11	4.00	3.34	2.11	2.11	2.11	2.11	2.11	3.34	1.30	1.92	2.30	2.10	2.31	2.11	2.11	2.30	2.30	3.30	3.30	3.30	4.10	2.30	4.20	2.11	3.30	2.11	3.30	4.13	4.13	2.11	3.30	1.31	2.10	2.10	2.10	3.00	5.24	3.34	3.34	4.13	1.30	2.11	2.11	3.34	3.34	4.13	1.30	2.11		
		Effective Sensor Pixels (megapixels)	1.92	3.87	3.14	1.92	1.92	1.92	1.92	1.92	3.14	1.22	1.92	2.16	2.00	2.16	2.00	2.00	2.16	2.16	3.11	3.11	3.11	3.99	2.04	3.99	1.92	3.14	1.92	3.14	4.00	3.87	1.92	2.95	1.22	1.92	1.92	1.92	2.95	4.92	3.14	3.20	3.87	1.22	1.92	1.92	3.14	3.14	3.87	1.22	1.92		
		Maximum Resolution (no interpolation)	1600x1200	2272x1704	2048x1536	1600x1200	1600x1200	1600x1200	1600x1200	1600x1200	2048x1536	1280x960	1600x1200	1800x1200	1632x1232	1800x1200	1632x1232	1632x1232	1800x1200	1800x1200	2160x1440	2160x1440	2160x1440	2448x1632	1752x1168	2448x1632	1600x1200	2048x1536	1600x1200	2048x1536	2288x1712	2272x1704	1600x1200	1984x1488	1280x960	1600x1200	1600x1200	1600x1200	1984x1488	2560x1920	2048x1536	2048x1536	2272x1704	1280x960	1600x1200	1600x1200	2048x1536	2048x1536	2272x1704	1280x960	1600x1200		
		Main Image Format	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:0	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:0	JPEG 4:2:0	JPEG 4:2:2	JPEG 4:2:0	JPEG 4:2:0	JPEG 4:2:0	JPEG 4:2:0	JPEG 4:2:0	JPEG 4:4:4	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:4:4	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2		
		Thumbnail Format	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2	JPEG 4:2:2		
		Compressed Thumbnail	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes		
		EXIF Version	2.2	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1			
		DCF or RSB compliant?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Hex #	Dec #	Field Name																																																			
0th IFD TIFF Tags:																																																						
0x010E	270	ImageDescription																			R						R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	26	53.06%
0x010F	271	Make	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0110	272	Model	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0112	274	Orientation	R	R	R	R	R	R	R	R	R	R	R		R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	47	95.92%
0x011A	282	XResolution	M	M	M	M	M	M	M	M	M	M	M	M	M	282	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x011B	283	YResolution	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0128	296	ResolutionUnit	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0131	305	Software				O	O	O	O	O	O			O		O					O						O	O	O	O	O	O	O	O	O	O	O	O	O	O	O											24	48.98%
0x0132	306	DateTime	R	R	R	R	R	R	R	R	R										R						R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	36	73.47%
0x0213	531	YCbCrPositioning	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x8298	33432	Copyright				O	O	O	O												O																																	6	12.24%
0x8769	34665	ExifIFDPointer	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
EXIF IFD Camera Capture Tags:																																																						
0x829A	33434	ExposureTime	R	O	O	O	R		R		R		O	O	R	O	R	R	O	O	O	O	R	O	R	R	O	O	O	O	R	O	O	O	O	O	O	O	O	O	O	R	R	O	O	R	O	O	O	O	O	46	93.88%
0x829D	33437	FNumber	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	49	100.00%
0x8822	34850	ExposureProgram					O	O	O	O	O						O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	40	81.63%
0x8827	34855	ISOSpeedRatings					O	O	O	O	O			O	O	O	O	O			O						O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	36	73.47%
0x9000	36864	ExifVersion	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x9003	36867	DateTimeOriginal	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x9004	36868	DateTimeDigitized	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x9101	37121	ComponentsConfiguration	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x9102	37122	CompressedBitsPerPixel	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O			O						O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	40	81.63%
0x9201	37377	ShutterSpeedValue	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O																											23	46.94%
0x9202	37378	ApertureValue	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O																											23	46.94%
0x9203	37379	BrightnessValue					O	O	O	O	O																																											5	10.20%
0x9204	37380	ExposureBiasValue	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	49	100.00%
0x9205	37381	MaxApertureValue	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	49	100.00%
0x9206	37382	SubjectDistance											O	O		O				O																																	7	14.29%
0x9207	37383	MeteringMode	O		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	49	100.00%
0x9208	37384	LightSource							O		O								O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	33	67.35%
0x9209	37385	Flash	R	O	O	O	R	O	R	O	R	O	O	O	R	O	R	R	O	O	O	O	R	O	R	R	O	O	O	O	R	O	O	O	O	O	O	O	O	O	O	R	R	O	O	R	O	O	O	O	O	O	49	100.00%
0x920A	37386	FocalLength	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	48	97.96%
0x927C	37500	MakerNote	O	O	O	O	O	O	O	O	O	O	O		O		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	45	91.84%
0x9286	37510	UserComment	O	O	O	O											O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O											18	36.73%
0x9290	37520	SubSecTime																																																			0	0.00%
0x9291	37521	SubSecTimeOriginal																																																			0	0.00%
0x9292	37522	SubSecTimeDigitized																																																			0	0.00%
0xA000	40960	FlashPixVersion	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0xA001	40961	ColorSpace	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0xA002	40962	PixelXDimension	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0xA003	40963	PixelYDimension	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0xA004	40964	RelatedSoundFile																																																			0	0.00%
0xA005	40965	InterOperability IFD Pointer	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0xA20E	41486	FocalPlaneXResolution	O	O	O	O	O	O	O	O	O	O																																									10	20.41%
0xA20F	41487	FocalPlaneYResolution	O	O	O	O	O	O	O	O	O	O																																									10	20.41%
0xA210	41488	FocalPlaneResolutionUnit	O	O	O	O	O	O	O	O	O	O																																									10	20.41%
0xA215	41493	ExposureIndex															O	O	O	O	O	O	O	O	O	O																											10	20.41%
0xA217	41495	SensingMethod	O	O	O	O	O	O	O	O	O	O					O	O	O	O	O	O	O	O	O	O																											20	40.82%
0xA300	41728	FileSource	O	O	O	O	O	O	O	O	O	O					O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	45	91.84%
0xA301	41729	SceneType					O	O	O	O	O	O					O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	38	77.55%
0xA302	41730	CFAPattern																																																			0	0.00%
0xA401	41985	CustomRendered	O				O		O		O						O	O					O								O											O					O					13	26.53%
0xA402	41986	ExposureMode	R				R		R		R				R		R	R					R		R	R					R											R	R				R					14	28.57%
0xA403	41987	WhiteBalance	R				R		R		R				R		R	R					R		R	R					R											R	R				R					14	28.57%
0xA404	41988	DigitalZoomRatio	O				O										O	O					O		O	O					O																					8	16.33%
0xA405	41989	FocalLengthIn35mmFilm															O	O					O		O	O																											5	10.20%
0xA406	41990	SceneCaptureType	R				R		R		R				R		R	R					R		R	R					R											R	R				R					14	28.57%
0xA407	41991	GainControl															O	O					O		O	O					O																					6	12.24%
0xA408	41992	Contrast															O	O					O		O	O					O																					6	12.24%
0xA409	41993	Saturation															O	O					O		O	O					O																					6	12.24%
0xA40A	41994	Sharpness							O		O						O	O					O		O	O					O																					8	16.33%
0xA40C	41996	SubjectDistanceRange							R		R						R	R					R		R	R																											7	14.29%
1st IFD Thumbnail Tags:																																																						
0x0100	256	ImageWidth																																																			0	0.00%
0x0101	257	ImageLength																																																			0	0.00%
0x0102	258	BitsPerSample																																																			0	0.00%
0x0103	259	Compression	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0106	262	PhotometricInterpretation																																																			0	0.00%
0x010F	271	Make																																						O	O	O	O	O	O	O	O	O	O	O	O	O	12	24.49%
0x0110	272	Model																																						O	O	O	O	O	O	O	O	O	O	O	O	O	12	24.49%
0x0111	273	StripOffsets																																																			0	0.00%
0x0112	274	Orientation					O	O	O	O	O	O			O		O	O	O	O	O	O	O	O	O	O														O	O	O	O	O	O	O	O	O	O	O	O	29	59.18%
0x0115	277	SamplesPerPixel																																																			0	0.00%
0x0116	278	RowsPerStrip																																																			0	0.00%
0x0117	279	StripByteCounts																																																			0	0.00%
0x011A	282	XResolution	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x011B	283	YResolution	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x011C	284	PlanarConfiguration																																																			0	0.00%
0x0128	296	ResolutionUnit	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x013Z	306	DateTime																																						O	O	O	O	O	O	O	O	O	O	O	O	O	12	24.49%
0x0201	513	JPEGInterchangeFormat	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0202	514	JPEGInterchangeFormatLength	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	49	100.00%
0x0213	531	YCbCrPositionng					O	O	O	O	O																																										5	10.20%

NON-EXIF CAMERAS:	Sens.Pixels (Megapixels)	Max. Image Resolution
Argus DC1500	0.10	352x288
Logitech Clicksmart 310	0.10	352x288
Sony Cybershot DSC-P31	2.11	1600x1200
Sony Mavica MVC-FD75	0.30	640x480

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Note: A character in the cell indicates that the metadata tag was present.

Key: M = Mandatory Tag O = Optional Tag R = Recommended Tag

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