



JEITA CP-3451

**Windows™**











### **3.2 Exif Image File Specification**

The Exif image file specification stipulates the method of recording image data in files, and specifies the following items:

- € Structure of image data files,
- € Tags used by this standard,
- € Definition and management of format versions.

Features of the Exif image file specification include the following.







#### **4.4 Specifications Relating to Image Data**

##### **4.4.1 Number of Pixels**

There is no limit on number of pixels of the primary image when it is recorded as either uncompressed or JPEG



**4.4.4 Image Data Arrangement**

Image data shall be arranged as follows. Uncompressed data shall consist of pixels with each line traced from left to right, and one screen shall consist of lines traced from top to bottom. JPEG compressed data shall consist of





Table 1 TIFF Headers

Name	Size (Bytes)	Value
Byte Order	2	

































Table 5 Exif IFD Attribute Information (2)





























Figure 12 Circular area designation

Figure 13 Rectangular area designation

***FocalLength***

The actual focal length of the lens, in mm. Conversion is not made to the focal length of a 35 mm film camera.











































#### **4.7 JPEG Marker Segments Used in Exif**

In addition to the compressed data (Interoperability coded data)

















- ***Entity size***

















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Address Offset (Hex)	Code (Hex)	Meaning
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The  $\sigma$ -Law audio data contained in *data-ck*





In Figure 44 to Figure 46, N, M, and P have the following significance.

$$N = (\text{nBlockAlign}/(4*\text{nChannels}))$$

scribed here.



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The *INFO list* chunks currently defined are given in Table 29. These pre-registered chunks are stored as ASCII text strings terminated by NULL (the final byte is '00.H').

Table 29 INFO List Chunks



A typical *INFO list* is sh3451











Address Offset	Code	Meaning	Code	Meaning
(Hex)	(Hex)		(Hex)	
+00	4C		65	











Table 33 Uncompressed RGB File Description Sample







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		03DC		DateTimeDigitized	0490	0200	14000000	C4040000
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## **Annex C**

### **APEX Units**



## **Annex D**











Table 50 Conversion between Exif Tags and Flashpix Property Set (2) (Exif Private Tags)

Exif		FPX	
	Tag Code		













f) FocalLengthIn35mmfilm  
ypemfilm



### **7.3 Tag Use in Readers**

Readers can make use of the information recorded as tags



















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- Compression; ID= 259
- ImageDescription; ID= 270
- Make; ID= 271
- Model; ID= 272
- TransferFunction; ID= 301
- Artist; ID= 306
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