RECOMMENDATION ITU-R BT.1360

CAPTURE CHARACTERISTICS FOR HIGH-DEFINITION IMAGES

(Question ITU-R 27/11)

(1998)

The ITU Radiocommunication Assembly,

considering

a)   that the image characteristics for capturing high-definition images should be defined to facilitate the maximum commonality for a variety of applications;

b)   that the values should be chosen to have an harmonious relationship to digital coding systems;

c)   that there is a need for effective methods of exchange of the images between different applications;

d)   that there are substantial benefits to broadcasters and equipment manufactures if the image characteristics for high-definition images can be common for different environments,

recommends

that the following image characteristics be used for capturing high-definition images for television and other appropriate video applications for future implementation.

TABLE 1

Image area

1.1	Picture aspect ratio	16:9
1.2	Number of active samples horizontally	1920
1.3	Number of active samples vertically	1080

TABLE 2

Colour primaries

		CIE x	CIE y
2.1	Red primary	0.640	0.330
2.2	Green primary	0.300	0.600
2.3	Blue primary	0.150	0.060
2.4	Assumed chromaticity for equal primary signals (reference white) $E_R = E_G = E_B$	D_{65} x 0.3127	 y 0.3290

For a detailed description of colorimetry, see Recommendation ITU-R BT.1361.

NOTE 1 – For the production and international exchange of HDTV programmes, detailed specifications are given in Recommendation ITU-R BT.709, Part II.

NOTE 2 – These values may be used as a foundation for the development of extremely high-definition format.

ANNEX 1

List of systems using these image capture characteristics:

1)   Recommendation ITU-R BT.709, Part II;

2)   SMPTE 274M;

3)   SMPTE 295M.