

Encoding Parameters for Digital Television Studios

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Abstract: *Several colour television systems including the PAL (Phase Alternating Line), NTSC (National Television System Committee) and SECAM (Sequential Couleur a Memoire) are identified by the method used to transmit the colour information. Colour standards identified by certain letters have been recommended by the International Radio Consultative Committee (CCIR). A number of organisations in several countries have investigated the possibilities for a worldwide component digital television coding format. This paper looks at sampling frequencies which can be used to code the luminance and colour difference signals of the PAL, NTSC and SECAM colour television systems and recommends a suitable sampling standard for use in the digital television studio. The sampling standard is derived from the characteristics of the widely used 625-line PAL and the 525-line NTSC systems and deductions made about the SECAM system.*

Keywords: *Encoding parameters, colour information, Colour standards, digital television*