

A Video Signal Coding Method Based on an Absolute Color Space for Saving
Bit Depth

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Abstract

A coding method based on CIE u' v' is proposed for saving bit depth. The signal format comprises a luminance component and a chromaticity component. An example shows that 27 bits are required so that a display following UHDTV could be able to reproduce color-banding free picture under any luminance adaptation.

Keyword : color science, video signal