

METHOD AND APPARATUS FOR CONVERTING AN IMAGE FROM ONE COLOR SPACE TO ANOTHER COLOR SPACE WITH A NON LINEAR RESPONSE

ABSTRACT

A method for converting an image from a first color space, of dimension N , to a second color space, of dimension M , with at least partially non-linear response, the method including the steps of preparing a number M of N -dimensional lookup tables, including respectively the resultant transformations for each specific entry as indexed by the first color space, and using N -linear interpolation to obtain the entries not included in the tables.

An apparatus for converting an image from a first color space, of dimension N , to a second color space, of dimension M , with at least partially non-linear response, the apparatus including means of calculating a number M of N -dimensional lookup tables, including respectively the resultant transformations for each specific entry as indexed by the first color space, and means for using N -linear interpolation to obtain the entries not included in the tables..

A photo camera including an apparatus for converting an image from a first color space, of dimension N , to a second color space, of dimension M , with at least partially non-linear response.

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