

ABSTRACT

A color image pickup device is provided with image pickup elements having color separation filters, respectively, wherein one array pattern of the color separation filters corresponds to four pixels that are vertically and horizontally adjacent to each other; a storage circuit for storing filter-transmitted signals corresponding to the respective pixels and supplied from the image pickup elements; a signal processing circuit for obtaining a luminance value and a color-difference signal for each pixel, using the filter-transmitted signals corresponding to the respective pixels and stored in the storage circuit; and a resolution conversion circuit for performing interpolation using the luminance values and the color-difference signals outputted from the signal processing circuit, and the filter-transmitted signals corresponding to the respective pixels and outputted from the image pickup elements, thereby generating a luminance value and a color-difference signal corresponding to a pixel to be newly generated. Thereby, a favorable image having no blur is obtained with a very small amount of arithmetic.