

ABSTRACT

A fluorescent light flicker characteristic of an XY addressing type image pickup device such as a CMOS image pickup device is accurately detected and reliably and sufficiently reduced through a simple signal processing without using an photosensitive element regardless of the level of a video signal of a subject and the type of a fluorescent lamp.

10 A signal $In'(x,y)$ is an RGB primary color signal or a luminance signal, each containing a flicker component. The signal $In'(x,y)$ is integrated over a duration of time equal to or longer than one horizontal period, and a difference value between the integrated values of adjacent fields is
15 normalized by the average value of the integrated values of three consecutive fields. The normalized difference value $gn(y)$ is discrete Fourier transformed to extract a spectrum thereof, and a flicker coefficient $\Gamma n(y)$ is estimated from the extracted spectrum to calculate $In'(x,y)/[1+\Gamma n(y)]$.