

Abstract

Frequency characteristics of an optical low-pass filter (2) are set in such a way that a first false color passing rate indicative of the rate of frequency components passing through a frequency component region not lower than the Nyquist frequency f_a for the lowest sampling frequency f_s among the sampling frequencies in the longitudinal, the lateral, and the oblique directions for each color in an image sensor (5), i.e. a frequency component region lower than one half of the Nyquist frequency f_s of the sampling frequency f_s of the image sensor (5), is not higher than a specified value. An output image signal is created from a pixel signal created by the image sensor (5) so that N pixel signals (N is a real number of 2 or above) created by the image sensor (5) correspond to one output image signal.