

ABSTRACT

An image signal processor includes a defective pixel detector configured to detect a defective pixel from among similar characteristic pixels, the similar characteristic pixels representing pixels having a characteristic same as a characteristic of a target pixel included in a target kernel, a pattern determiner configured to determine a pattern of the target kernel based on pixel data of pixels included in the target kernel when the defective pixel is present, and a pixel interpolator configured to interpolate, when the defective pixel is positioned in a texture area of the pattern, the target pixel based on pixel data of pixels positioned in the texture area among dissimilar characteristic pixels and pixel data of pixels positioned in the texture area among the similar characteristic pixels, the dissimilar characteristic pixels representing pixels having a characteristic different from the characteristic of the target pixel.

FIG. 2