

ABSTRACT

IMAGE SENSOR

The present disclosure provides an image sensor, which includes: a pixel collection circuit array including a plurality of pixel collection circuits, each pixel collection circuit being configured to monitor a change in a light intensity in a field of view and enter a triggered state when the change in the light intensity meets a predetermined condition; a global control unit configured to reset the pixel collection circuit array when the image sensor is powered on, and control the pixel collection circuit array in a stable initial state to operate; a photo current detection unit configured to determine whether there is the change in the light intensity, and control an operating state of at least one pixel collection circuit in accordance with the detected change in the light intensity; and a reading unit configured to respond to the pixel collection circuit in the triggered state and output corresponding address information.

Figure 1