Abstract

Pixel Acquisition Circuit, Optical Flow Sensor, and Image Acquisition System

The invention discloses a pixel acquisition circuit, an optical flow sensor, and an image acquisition system. Therein, the optical flow sensor comprises a pixel acquisition circuit array, a waveform generator, a global control unit, and a readout unit. The pixel acquisition circuit array comprises the pixel acquisition circuits in accordance with the invention. The waveform generator is operative to output a periodic signal waveform to the time signal line coupled with each of the pixel acquisition circuits in the array. The global control unit is operative to output said global activation signal to each pixel acquisition circuit through the global trigger signal line, and output a reset signal to each pixel acquisition circuit through said reset signal line. The readout unit is operative to read the signals output by at least a part of the pixel acquisition circuits in that array.

FIGURE 11