ABSTRACT

The present disclosure provides an imaging method for an image sensor, an imaging apparatus and an electronic device. The image sensor includes a photosensitive pixel array and a filter arranged on the photosensitive pixel array. The filter includes an array of filter units. Each filter unit and a number of adjacent photosensitive pixels covered by the filter unit in the photosensitive pixel array form a synthesized pixel. The method includes: reading an output of the photosensitive pixel array, extracting pixel values of photosensitive pixels within different synthesized pixels from a read-out single-frame high-resolution image, and combining the pixel values so as to obtain a number of multi-frame low-resolution images; synthesizing the number of multi-frame low-resolution images.