

ABSTRACT

The present disclosure discloses an imaging method. The imaging method comprises: providing an image sensor, the image sensor comprising a photosensitive pixel array and a filter
5 arranged on the photosensitive unit array, the filter comprising a filter cell array, and each filter cell covering a plurality of photosensitive pixels to form a merged pixel; and reading outputs of the photosensitive pixel array, and adding the outputs of the photosensitive pixels of the same merged pixel to obtain a pixel value of the merged pixel, thereby producing a merged image. Images, having higher signal to noise ratio, brightness, and definition, and less noise, can be captured by
10 using the imaging method in low light. The present disclosure also discloses an imaging device using the imaging method and an electronic device using the imaging device.