

ABSTRACT

The present disclosure discloses an image sensor, an imaging device, a mobile terminal and an imaging method. The image sensor comprises a photosensitive pixel array and a filter arranged on the photosensitive pixel array. The filter comprises a filter unit array comprised a plurality of filter units, wherein each filter unit covers N photosensitive pixels, and some of the filter units comprise white filter areas. The white filter areas cover at least one of the N photosensitive pixels of the N photosensitive pixels, wherein a merged pixel is formed by the N photosensitive pixels covered by the same filter unit, wherein N is a positive integer.