

ABSTRACT OF THE DISCLOSURE

In a method of obtaining a reference image for optical object recognition, first light sources among a plurality of light sources included in a display panel are driven where the first light sources are disposed to correspond to an object recognition window which is a partial region of the display panel, a plurality of images are contemporaneously obtained based on reflected light received by an object recognition sensor through the object recognition window while driving the first light sources, at least one of the plurality of images is obtained as a first reference image for optical object recognition associated with a first object, and the first reference image is stored.

FIG. 1