

ABSTRACT

A method and system for providing different images representing plural depths of field of an electronic device. The vision system has a beamsplitter for receiving an image of the device illuminated by the at least one light source, the beamsplitter providing one of the plurality of images of the device based in a wavelength of the light source; an aperture having a plurality of effective diameters based on the wavelength of light from the at least one light source, the aperture determining a depth of field of the image of the device; and an optical element for receiving the image of the device, the optical element magnifying the image by a predetermined magnification factor to produce a magnified image having the determined depth of field.