

ABSTRACT OF THE DISCLOSURE

An image forming method and apparatus for using black-white camera to capture color image, in case that range of saturation regulating factor is given as 0.5-3, and range of illuminance gain is given as 0.5-3, and under the following conditions, the functions of a red LED light ring-shaped light source assembly, a green LED light ring-shaped light source assembly, and a blue LED light ring-shaped light source assembly, can be realized through using a light source luminous intensity regulating circuit, thus being able to regulate their illuminance respectively in achieving regulation of white balance: in an environment not being affected by outside lights or outside lights influence can be neglected, and an object being taken images is stationary relate to said black-white camera in a round of image taking process of a synthesized color image; when taking images, the open and close of each of respective assemblies of light sources can be realized through a light source luminous sequence control circuit; and when all light sources are ready, a camera actuation image taking process can be realized through a control circuit. As such, through the application of the present invention, an image forming method and apparatus for using said black-white camera to capture color image can be provided, that has the advantages of low cost, producing color of an image close to that of a real image, high sensitivity to light, and fulfilling the requirements of top-notch applications without having to use filters.