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(54) **IMAGE PROCESSING APPARATUS FOR IMPROVING IMAGE QUALITY OF VISIBLE LIGHT IMAGE, CONTROL METHOD FOR IMAGE PROCESSING APPARATUS, AND STORAGE MEDIUM**

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ABSTRACT

An image processing apparatus which is capable of calculating appropriate irradiation conditions for invisible light so as to improve the image quality of a visible light image. The image processing apparatus includes a lighting unit. A feature value of the visible light image obtained by shooting of a subject irradiated with visible light provided by the lighting unit is calculated. A feature value of invisible light image obtained by shooting of the subject irradiated with invisible light provided by the lighting unit is calculated. Irradiation conditions for the invisible light to be provided by the lighting unit are calculated based on the feature value of the visible light image and the feature value of the invisible light image.

