

Listing of Claims:

Claims 1-4 (Canceled).

5. (Currently Amended) ~~The~~ A multispectral image capturing apparatus, comprising: according to claim 4,

a half mirror configured to divide light from an image capturing lens into two light paths;

5 a band-pass filter configured to modulate a spectral characteristic of one portion of the light divided by the half mirror;

an image capturing unit configured to receive the light modulated by the band-pass filter and capture an image of a
10 subject; and

a color image capturing unit configured to receive the other portion of the light divided by the half mirror as three decomposed colors of red, blue, and green and capture a color image of the subject;

15 wherein the half mirror is configured to divide the light from the image capturing lens into the two light paths at an unequal intensity ratio that is equal to or greater than two to one;

20 wherein the band-pass filter has a comb-like spectral shape including a plurality of transmissive wavelength bandwidths and a

plurality of non-transmissive wavelength bandwidths within a wavelength range of a visible region; [[,]] and

wherein the image capturing unit configured to receive the light transmitted through the band-pass filter ~~includes~~ comprises a color image capturing unit configured to decompose and receive light of the plurality of transmissive wavelength bandwidths transmitted through the band-pass filter.

6. (Currently Amended) The multispectral image capturing apparatus according to claim 5, wherein the image capturing unit configured to receive the light divided by the half mirror and transmitted through the band-pass filter ~~includes an~~ comprises a first image capturing device configured to capture an image; [[,]]

wherein the color image capturing unit configured to receive the light divided by the half mirror as the three decomposed colors of red, blue, and green ~~includes an~~ comprises a second image capturing device configured to capture an image; [[,]] and

wherein a total number of pixels of the first image capturing device ~~included in the image capturing unit~~ is smaller than a total number of pixels of the second image capturing device ~~included in the color image capturing unit~~.

Claims 7 and 8 (Canceled).

9. (Currently Amended) ~~The~~ A multispectral image capturing apparatus, comprising: according to claim 8,

a half mirror configured to divide light from an image capturing lens into two light paths;

5 a band-pass filter configured to modulate a spectral characteristic of one portion of the light divided by the half mirror;

an image capturing unit configured to receive the light modulated by the band-pass filter and capture an image of a
10 subject; and

a color image capturing unit configured to receive the other portion of the light divided by the half mirror as three decomposed colors of red, blue, and green and capture a color image of the subject;

15 wherein the band-pass filter has a comb-like spectral shape including a plurality of transmissive wavelength bandwidths and a plurality of non-transmissive wavelength bandwidths within a wavelength range of a visible region;

wherein the image capturing unit configured to receive the
20 light transmitted through the band-pass filter comprises a color image capturing unit configured to decompose and receive light of the plurality of transmissive wavelength bandwidths transmitted through the band-pass filter;

25 wherein the image capturing unit configured to receive the
light divided by the half mirror and transmitted through the
band-pass filter ~~includes an~~ comprises a first image capturing
device configured to capture an image; [[,]]

30 wherein the color image capturing unit configured to receive
the light divided by the half mirror as the three decomposed
colors of red, blue, and green ~~includes an~~ comprises a second
image capturing device configured to capture an image; [[,]] and

wherein a total number of pixels of the first image
capturing device ~~included in the image capturing unit~~ is smaller
than a total number of pixels of the second image capturing
35 device ~~included in the color image capturing unit~~.

Claims 10 and 11 (Canceled).

12. (Currently Amended) A multispectral image capturing
apparatus, comprising:

half mirror means for dividing light from an image capturing
lens ~~means~~ into two light paths;

5 band-pass filtering means for modulating a spectral
characteristic of one portion of the light divided by the half
mirror means;

image capturing means for receiving the light modulated by
the band-pass filtering means and capturing an image of a
subject; and

color image capturing means for receiving the other portion
5 of the light divided by the half mirror means as three decomposed
colors of red, blue, and green and capturing a color image of the
subject;

wherein the half mirror means is configured to divide the
light from the image capturing lens into the two light paths at
10 an unequal intensity ratio that is equal to or greater than two
to one;

wherein the band-pass filtering means has a comb-like
spectral shape including a plurality of transmissive wavelength
bandwidths and a plurality of non-transmissive wavelength
15 bandwidths within a wavelength range of a visible region; and

wherein the image capturing means for receiving the light
transmitted through the band-pass filtering means comprises color
image capturing means for decomposing and receiving light of the
plurality of transmissive wavelength bandwidths transmitted
20 through the band-pass filtering means.

Claim 13 (Canceled).

14. (New) A multispectral image capturing apparatus,
comprising:

half mirror means for dividing light from an image capturing
lens into two light paths;

5 band-pass filtering means for modulating a spectral
characteristic of one portion of the light divided by the half
mirror means;

image capturing means for receiving the light modulated by
the band-pass filtering means and capturing an image of a
10 subject; and

color image capturing means for receiving the other portion
of the light divided by the half mirror means as three decomposed
colors of red, blue, and green and capturing a color image of the
subject;

15 wherein the band-pass filtering means has a comb-like
spectral shape including a plurality of transmissive wavelength
bandwidths and a plurality of non-transmissive wavelength
bandwidths within a wavelength range of a visible region;

wherein the image capturing means for receiving the light
20 transmitted through the band-pass filtering means comprises color
image capturing means for decomposing and receiving light of the
plurality of transmissive wavelength bandwidths transmitted
through the band-pass filtering means;

wherein the image capturing means for receiving the light
25 divided by the half mirror means and transmitted through the
band-pass filtering means comprises a first image capturing
device configured to capture an image;

wherein the color image capturing means for receiving the
light divided by the half mirror means as the three decomposed
30 colors of red, blue, and green comprises a second image capturing
device configured to capture an image; and

wherein a total number of pixels of the first image
capturing device is smaller than a total number of pixels of the
second image capturing device.