WHAT IS CLAIMED IS:

1. A camera assembly (100), configured on a mobile electronic device having a display screen, comprising at least two lens assemblies (10), each lens assembly comprising an image sensor (12), wherein each image sensor (12) comprises:

a pixel array (122), comprising a light sensing region (1222) and an imaging region (1224); and

a control circuit (124), configured to:

control the light sensing region (1222) to detect an illumination intensity when a light sensing instruction is received; and

control the imaging region (1224) to obtain an image when an imaging instruction is received,

wherein, the at least two lens assemblies (10) comprise a first lens assembly and a second lens assembly, the first lens assembly is configured to detect an ambient brightness to assist the second lens assembly in imaging during an imaging of the camera assembly (100), and an area of the imaging region of the image sensor of one of the at least two lens assemblies (10) is greater than an area of the imaging region of the image sensors of a further one of the at least two lens assemblies (10).

2. The camera assembly (100) according to claim 1, wherein the imaging region (1224) of each image sensor (12) is contiguous and located in the middle of the pixel array (122), and the light sensing region (1222) of each image sensor (12) is located around the imaging region (1224) of said image sensor (12).

3. The camera assembly (100) according to claim 2, wherein the light sensing region (1222) of each image sensor (12) comprises at least two light sensing sub-regions (1225) having basically a same area and spaced from each other.

4. The camera assembly (100) according to claim 3, wherein,

the at least two light sensing sub-regions (1225) comprise a left light sensing sub-region (1226) on the left of the imaging region (1224) and a right light sensing sub-region (1227) on the right of the imaging region (1224); wherein the left light sensing sub-region (1226) and the right light sensing sub-region (1227) are arranged symmetrically, the left light sensing sub-region (1226) is configured to detect a left illumination intensity, the right light sensing sub-region (1227) is configured to detect a right illumination intensity, and the illumination intensity detected by the light sensing region (1222) is a mean value of the left illumination intensity and the right illumination intensity; or

the at least two light sensing sub-regions (1225) comprise an upper light sensing sub-region (1228) above the imaging region (1224) and a lower light sensing sub-region (1229) below the

imaging region (1224); wherein the upper light sensing sub-region (1228) and the lower light sensing sub-region (1229) are arranged symmetrically, the upper light sensing sub-region (1228) is configured to detect an upper illumination intensity, the lower light sensing sub-region (1229) is configured to detect a lower illumination intensity, and the illumination intensity detected by the light sensing region (1222) is a mean value of the upper illumination intensity and the lower illumination intensity; or

the at least two light sensing sub-regions (1225) comprise a left light sensing sub-region (1226) on the left of the imaging region (1224), a right light sensing sub-region (1227) on the right of the imaging region (1224), an upper light sensing sub-region (1228) above the imaging region (1224) and a lower light sensing sub-region (1229) below the imaging region (1224); wherein the left light sensing sub-region (1226) and the right light sensing sub-region (1227) are arranged symmetrically, the upper light sensing sub-region (1228) and the lower light sensing sub-region (1229) are arranged symmetrically, the left light sensing sub-region (1226) is configured to detect a left illumination intensity, the right light sensing sub-region (1227) is configured to detect a right illumination intensity, the upper light sensing sub-region (1228) is configured to detect an upper illumination intensity, the lower light sensing sub-region (1229) is configured to detect a lower illumination intensity, and the illumination intensity detected by the light sensing region (1222) is a mean value of the left illumination intensity, the right illumination intensity, the upper illumination intensity and the lower illumination intensity.

5. The camera assembly (100) according to any of claims 1-4, wherein

the pixel array (122) of one image sensor (12) is in a shape of one of a circle and an ellipse, the imaging region (1224) of said image sensor (12) is in a shape of an inscribed rectangle of the pixel array (122), and the light sensing region (1222) of said image sensor (12) comprises a region other than the inscribed rectangle of the one of the circle and the ellipse.

6. The camera assembly according to any of claims 1-4, wherein

the pixel array (122) of one image sensor (12) is in a shape of a rectangle, the imaging region (1224) of said image sensor (12) is in a shape of one of an inscribed circle and an inscribed ellipse of the rectangle, and the light sensing region (1222) of said image sensor (12) comprises a region other than the one of the inscribed circle and the inscribed ellipse of the rectangle.

7. The camera assembly (100) according to any of claims 1-4, wherein the imaging region (1224) of each image sensor (12) is contiguous and the light sensing region (1222) of each image sensor (12) is contiguous; the imaging region (1224) and the light sensing region (1222) of each image sensor (12) share a common boundary.

8. The camera assembly (100) according to claim 7, wherein the camera assembly comprises two image sensors, and two imaging regions of the two image sensors are located between two light sensing regions of the two image sensors.

9. The camera assembly (100) according to any of claims 1-6, wherein the pixel array (122) of each image sensor (12) is configured such that at least one of following conditions is satisfied: a

ratio of an area of the imaging region (1224) of said image sensor (12) to an area of the pixel array (122) of said image sensor (12) being greater than or equal to 0.6; and a ratio of an area of the light sensing region (1222) of said image sensor (12) to the area of the pixel array (122) of said image sensor (12) being greater than or equal to 0.1; and/or

an area of the imaging region (1224) of one of the at least two image sensors (12) is greater than an area of the imaging region (1224) of a further one of the at least two image sensors (12).

10. The camera assembly according to any of claims 1-9, further comprising at least two filters disposed corresponding respectively to the imaging regions of the at least two image sensors.

11. The camera assembly according to claim 10, wherein the at least two filters are visible light filters.

12. A mobile electronic device (1000), comprising a camera assembly and a processor; wherein,

the camera assembly is configured on a mobile electronic device having a display screen and comprises at least two lens assemblies, each lens assembly comprising an image sensor; wherein each image sensor comprises: a pixel array, comprising a light sensing region and an imaging region; and a control circuit, configured to: control the light sensing region to detect an illumination intensity when a light sensing instruction is received; and control the imaging region to obtain an image when an imaging instruction is received; and

the processor is configured to generate the light sensing instruction and the imaging instruction;

wherein, the at least two lens assemblies comprise a first lens assembly and a second lens assembly, the first lens assembly is configured to detect an ambient brightness to assist the second lens assembly in imaging during an imaging of the camera assembly, and an area of the imaging region of the image sensor of one of the at least two lens assemblies is greater than an area of the imaging region of the image sensors of a further one of the at least two lens assemblies.

13. The mobile electronic device (1000) according to claim 12, wherein the mobile electronic device (1000) comprises one camera assembly (100) configured as a front camera assembly (100a);

wherein when light sensing regions (1222) of at least two image sensors (12) of the camera assembly (100) detect a first illumination intensity and a second illumination intensity respectively, the processor (200) is configured to:

determine a maximum of the first illumination intensity and the second illumination intensity as a final illumination intensity; or

obtain a mean value of the first illumination intensity and the second illumination intensity as a final illumination intensity.

14. The mobile electronic device (1000) according to claim 12, wherein the mobile electronic device (1000) comprises at least two camera assemblies (100), one of the at least two camera

assemblies (100) is configured as a front camera assembly (100a) and a further one of the at least two camera assemblies (100) is configured as a rear camera assembly (100b);

wherein when two light sensing regions (1222) of the front camera assembly (100a) detect a first illumination intensity and a second illumination intensity respectively, and two light sensing regions (1222) of the rear camera assembly (100b) detect a third illumination intensity and a fourth illumination intensity respectively, the processor (200) is configured to:

determine a maximum of the first illumination intensity, the second illumination intensity, the third illumination intensity and the fourth illumination intensity as a final illumination intensity; or

obtain a mean value of the first illumination intensity and the second illumination intensity as a front illumination intensity, obtain a mean value of the third illumination intensity and the fourth illumination intensity as a rear illumination intensity, and determine a maximum of the front illumination intensity and the rear illumination intensity as a final illumination intensity; or

determine a maximum of the first illumination intensity and the second illumination intensity as a front illumination intensity, obtain a mean value of the third illumination intensity and the fourth illumination intensity as a rear illumination intensity, and determine a maximum of the front illumination intensity and the rear illumination intensity as a final illumination intensity; or

obtain a mean value of the first illumination intensity and the second illumination intensity as a front illumination intensity, determine a maximum of the third illumination intensity and the fourth illumination intensity as a rear illumination intensity, and determine a maximum of the front illumination intensity and the rear illumination intensity as a final illumination intensity.

15. The mobile electronic device (1000) according to claim 12, wherein the mobile electronic device (1000) comprises at least two camera assemblies (100), one of the at least two camera assemblies (100) is configured as a front camera assembly (100a) and a further one of the at least two camera assemblies (100) is configured as a rear camera assembly (100b);

wherein when a light sensing region (1222) of the front camera assembly (100a) detects a first illumination intensity, and a light sensing region (1222) of the rear camera assembly (100b) detects a second illumination intensity, the processor (200) is configured to:

determine a maximum of the first illumination intensity and the second illumination intensity as a final illumination intensity.

16. The mobile electronic device (1000) according to claim 12, wherein the mobile electronic device (1000) comprises at least two camera assemblies (100), one of the at least two camera assemblies (100) is configured as a front camera assembly (100a) and a further one of the at least two camera assemblies (100) is configured as a rear camera assembly (100b);

wherein when two light sensing regions (1222) of the front camera assembly (100a) detect a first illumination intensity and a second illumination intensity respectively, and a light sensing region (1222) of the rear camera assembly (100b) detects a third illumination intensity, the processor (200) is configured to:

determine a maximum of the first illumination intensity and the second illumination intensity

as a front illumination intensity, and determine a maximum of the front illumination intensity and the third illumination intensity as a final illumination intensity; or

obtain a mean value of the first illumination intensity and the second illumination intensity as a front illumination intensity, and determine a maximum of the front illumination intensity and the third illumination intensity as a final illumination intensity.

17. The mobile electronic device (1000) according to claim 12, wherein the mobile electronic device (1000) comprises at least two camera assemblies (100), one of the at least two camera assemblies (100) is configured as a front camera assembly (100a) and a further one of the at least two camera assemblies (100) is configured as a rear camera assembly (100b);

wherein when a light sensing region (1222) of the front camera assembly (100a) detects a first illumination intensity, and two light sensing regions (1222) of the rear camera assembly (100b) detect a second illumination intensity and a third illumination intensity respectively, the processor (200) is configured to:

determine a maximum of the second illumination intensity and the third illumination intensity as a rear illumination intensity, and determine a maximum of the rear illumination intensity and the first illumination intensity as a final illumination intensity; or

obtain a mean value of the second illumination intensity and the third illumination intensity as a rear illumination intensity, and determine a maximum of the rear illumination intensity and the first illumination intensity as a final illumination intensity.

18. The mobile electronic device (1000) according to any of claims 12-17, further comprising another camera assembly (600), wherein the another camera assembly (600) comprises an image sensor (30) comprising:

a pixel array (32), comprising a light sensing region (322) and an imaging region (324); and

a control circuit (34), configured to:

control the light sensing region (322) of the imaging sensor (30) of the another camera assembly (600) to detect an illumination intensity when the light sensing instruction is received; and

control the imaging region (324) of the imaging sensor (30) of the another camera assembly (600) to obtain an image when the imaging instruction is received.

19. The mobile electronic device (1000) according to claim 18, wherein

the mobile electronic device (1000) comprises one camera assembly (100) configured as one of a front camera assembly (100a) and a rear camera assembly (100b), and the said another camera assembly (600) is configured as the other one of the front camera assembly (100a) and the rear camera assembly (100b).