

Claims

1. An electronic device comprising:
 - a housing including a first face oriented in a first direction and a second face oriented in a second direction;
 - a transparent cover provided in at least a portion of the first face of the housing;
 - a display disposed between the transparent cover and the second face;
 - a sensor disposed between the display and the second face; and
 - a control circuit electrically connected to the sensor and configured to control the sensor,wherein the display includes:
 - a first area provided with a plurality of pixels capable of displaying a color, and
 - a second area aligned above at least a portion of the sensor so as to pass light acquired from outside the electronic device to the sensor.
2. The electronic device of claim 1, wherein the second area is not provided with the pixels capable of displaying the color, and
 - wherein an opaque electrode and wiring line are eliminated, and a transparent electrode and wiring line are used.
3. The electronic device of claim 2, wherein the second area is a transparent window through which external light passes.
4. The electronic device of claim 1, wherein the sensor is disposed to overlap at least a portion of

the first area and at least a portion of the second area when viewed from above the transparent cover.

5 5. The electronic device of claim 1, wherein the sensor includes any one or a combination of a camera, a proximity sensor, an illuminance sensor, a gesture sensor, a motion sensor, a fingerprint recognition sensor, and a biosensor.

10 6. The electronic device of claim 1, wherein the display includes:

 scan wiring lines configured to transmit a first signal to a first pixel and/or a second pixel, and

15 data wiring lines configured to transmit a second signal to the first pixel and/or the second pixel, and

 wherein a form of the first scan wiring line and/or a form of the first data wiring line disposed in the first area is configured to be different from a form of a second scan wiring line and/or a form of a second data wiring line disposed in the second area.

25 7. The electronic device of claim 1, wherein the transparent cover forms substantially the entire first face of the housing, and

 wherein the transparent cover is exposed through substantially the entire first face of the housing.

8. An electronic device comprising:

30 a housing including a first face oriented in a first direction and a second face oriented in a second direction;

 a transparent substrate provided in at least a portion of the first face;

 a display disposed between the transparent

substrate and the second face;

a sensor disposed between the display and the second face; and

a processor electrically connected to the display
5 and the sensor,

wherein the display includes:

a first area provided with a first pixel group of one or more pixels, and

a second area disposed above at least a portion of
10 the sensor, and provided with a second pixel group of one or more pixels, the second pixel group being configured to be controllable independently of the first pixel group.

15 9. The electronic device of claim 8, wherein the processor is set to:

deactivate at least one pixel of the second pixel group or activate the at least one pixel of the second pixel group to a first degree when the sensor is
20 activated, and

activate at least one pixel of the second pixel group to a second degree when the sensor is deactivated, and

25 wherein the second degree is higher than the first degree.

10. The electronic device of claim 8, wherein the processor is set to:

30 activate at least one pixel of the first pixel group and at least one pixel of the second pixel group to be different from each other when the sensor is activated, and

activate the at least one pixel of the first pixel group and the at least one pixel of the second pixel

group to be equal to each other when the sensor is deactivated.

11. The electronic device of claim 9, wherein
5 the at least one pixel of the first pixel group is formed in a first pixel structure, and the at least one pixel of the second pixel group is formed in a second pixel structure, and

wherein the first pixel structure is configured to
10 pass light acquired from outside the electronic device to a first degree, the second pixel structure is configured to pass light acquired from outside the electronic device to a second degree, and the second degree is higher than the first degree.

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12. The electronic device of claim 8, wherein a number of pixels per unit area (pixels per inch (ppi)) of the second area is less than a number of pixels per unit area of the first area.

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13. The electronic device of claim 8, wherein the display includes an active area, which includes an organic light-emitting diode, and an inactive area, which does not include an organic light-emitting diode,
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wherein at least a portion of the inactive area of the display is configured to be foldable in the second direction.

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14. The electronic device of claim 8, further comprising:

a pressure sensor disposed between the display and the second face of the housing; and

a second control circuit electrically connected to

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the pressure sensor,

wherein the second control circuit is configured to sense a degree of pressure in the second direction using the pressure sensor.

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15. The electronic device of claim 8, further comprising:

at least one of a fingerprint sensor and an antenna,

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wherein at least one of the fingerprint sensor and the antenna is disposed between the transparent substrate and the display or inside the display.

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