CLAIMS

Claim 1: A display device, comprising:

a light source module;

a housing, comprising:

a base plate, located below the light source module;

a sidewall, connected to the base plate to form an accommodation space for accommodating the light source module; and

a support part, connected to the sidewall and extending in a direction away from the base plate, wherein the support part has a recess recessed towards an extending plane of the base plate, and the recess is neither overlapped with the base plate, nor overlapped with the sidewall;

a display panel, located above the light source module and the support part of the housing;

a circuit board, located below the support part of the housing, wherein the support part of the housing is located between the display panel and the circuit board; and

a first flexible substrate, connecting the light source module to the circuit board through the recess of the support part, wherein one side of the recess supports the display panel, and another side of the recess supports the circuit board.

Claim 2: The display device according to claim 1, wherein the support part of the housing has a top surface and a back surface opposite to each other, and the recess is recessed from the top surface towards the back surface.

Claim 3: The display device according to claim 2, further comprising a first adhesive member covering the top surface of the support part.

Claim 4: The display device according to claim 3, wherein the first adhesive member continuously extends across the recess of the support part.

Claim 5: The display device according to claim 4, wherein the first flexible substrate is located between the first adhesive member and a bottom surface of the recess.

Claim 6: The display device according to claim 3, wherein the first adhesive member discontinuously extends past the recess of the support part, and the first flexible substrate is not covered by the first adhesive member.

Claim 7: The display device according to claim 2, further comprising a second adhesive member covering the back surface of the support part.

Claim 8: The display device according to claim 7, wherein the second adhesive member discontinuously extends past the recess of the support part, and the second adhesive member is spaced apart and disposed on the back surface of the support part.

Claim 9: The display device according to claim 2, wherein the back surface of the recess abuts the circuit board.

Claim 10: The display device according to claim 1, further comprising a third adhesive member located between the first flexible substrate and a bottom surface of the recess.

Claim 11: The display device according to claim 2, further comprising a fourth

adhesive member located between the back surface of the recess and the circuit board.

Claim 12: The display device according to claim 11, wherein the fourth adhesive member is electrically conductive.

Claim 13: The display device according to claim 1, wherein the display panel has a display area and a peripheral area, the light source module comprises a substrate and a light source located above the substrate, and the light source overlaps the display area.

Claim 14: The display device according to claim 13, wherein the first flexible substrate has a light source connection part connected to the light source module, and the light source connection part and the light source are respectively disposed on two opposite sides of the substrate.

Claim 15: The display device according to claim 1, wherein the circuit board has a first surface and a second surface opposite to each other, and a side surface connecting the first surface and the second surface, the second surface of the circuit board faces the support part of the housing, the first flexible substrate passes the second surface, the side surface, and first surface of the circuit board in sequence, and the first flexible substrate is connected to the first surface of the circuit board.

Claim 16: The display device according to claim 15, further comprising a second flexible substrate connected to the display panel, wherein the second flexible substrate is connected to the first surface of the circuit board by passing the second surface, the side surface, and first surface of the circuit board in sequence.

Claim 17: The display device according to claim 16, wherein the second flexible substrate is directly bonded to the first surface of the circuit board, and the first flexible substrate is connected to a connector on the first surface of the circuit board.

Claim 18: The display device according to claim 17, wherein compared with the connector, the second flexible substrate is bonded to the circuit board at a location further away from the sidewall of the housing.

Claim 19: The display device according to claim 1, wherein a depth of the recess is less than a thickness of the first flexible substrate.

Claim 20: The display device according to claim 1, wherein a first spacing is between the base plate and the display panel, a second spacing is between the support part and the display panel, a third spacing is between the bottom surface of the recess and the display panel, the first spacing is greater than the third spacing, and the third spacing is greater than the second spacing.