What is claimed is:

1. A display device, comprising:

a display panel having an outer surface and a first end;

a film partially stacked on the outer surface, the film having an extension portion extending out of the outer surface;

a flexible connecting unit connected to the display panel and extending out from the first end, wherein a gap exists between the flexible connecting unit and the extension portion;

a first glue at least partially distributed within the gap; and

a second glue at least partially distributed on one side of the flexible connecting unit opposite to the first glue and between the flexible connecting unit and an edge of the first end, wherein the second glue is different from the first glue.

2. The display device according to claim 1, wherein the hardness of the first glue is larger than that of the second glue.

3. The display device according to claim2, wherein Shore hardness of the first glue is A75 or more; Shore hardness of the second glue is A75 or less.

4. The display device according to claim 1, wherein on a cross-section perpendicular to an extending direction of the first end, a width of the second glue between the flexible connecting unit and the edge of the first end has a maximum ranging from 0.1mm to 5mm.

5. The display device according to claim 1, wherein the second glue at least partially extends outside the flexible connecting unit along an extending direction of the first end.

6. The display device according to claim 1, wherein one end of the first glue away from the first end has a step structure comprising a first step and a second step extending along the first end; the first step is closer to the film than the second step and extends out from the second step.

7. The display device according to claim 6, wherein the display panel comprises a first substrate and a second substrate stacked with each other, wherein the second substrate is closer to the film than the first substrate; a thickness of the first step is less than that of the second substrate.

8. The display device according to claim 6, further comprising a frame disposed corresponding to the first end of the display panel, wherein the first step has a first step surface, the second step has a second step lateral surface connected to the first step surface with a groove formed therebetween, and the frame has a frame flange corresponding to the groove.

9. The display device according to claim 8, wherein the first step surface has a first step edge away from the second step lateral surface; the second step lateral surface has a second step edge away from the first step surface; the frame flange extends to a virtual plane defined by the first step edge and the second step edge.

10. The display device according to claim 1, wherein the display panel comprises:

a first substrate; and

a second substrate positioned on the first substrate and stacked with the first substrate; the outer surface is formed on a surface of the second substrate opposite to the first substrate, wherein at the first end of the display panel, the first substrate has a protruding portion protruding with respect to the second substrate; the protruding portion has a protruding surface facing the extension portion;

wherein the flexible connecting unit has a connecting portion, the connecting portion is connected to the protruding surface, the connecting portion is positioned between the protruding surface and the extension portion, and the first glue is at least partially distributed between the connecting portion and the extension portion.

11. The display device according to claim 10, wherein the flexible connecting unit has a curved portion; the curved portion is connected to the connecting portion and extends away from the film; the second glue is at least partially positioned between the curved portion and an edge of the protruding portion.

12. The display device according to claim 10, wherein the thickness of the first glue is larger than that of the second substrate, but less than a total thickness of the first substrate and the second substrate.

13. The display device according to claim 10, wherein the flexible connecting unit, the protruding portion, and the second glue together define an air layer.

14. The display device according to claim 1, wherein the first glue is a light curable glue, and the second glue is a non-light curable glue.

15. A display device, comprising:

a display panel having an outer surface and a first end ;

a film partially stacked on the outer surface, the film having an extension portion extending out of the outer surface;

a first glue distributed along the first end and positioned on an inner side of the extension portion; and

a second glue at least partially distributed on one side of a flexible connecting unit opposite to the first glue and between the flexible connecting unit and an edge of the first end, wherein the second glue is different from the first glue,

wherein one end of the first glue away from the first end has a step structure comprising a first step and a second step extending along the first end; the first step is closer to the film than the second step and extends out from the second step.

16. The display device according to claim 15, wherein the display panel comprises a first substrate and a second substrate stacked with each other, wherein the second substrate is closer to the film

than the first substrate; a thickness of the first step is less than that of the second substrate.

17. The display device according to claim 16, wherein the first substrate has a protruding portion protruding with respect to the second substrate; the protruding portion has a protruding surface facing the extension portion; the first glue is at least partially distributed between the extension portion and the protruding surface.

18. The display device according to claim 15, further comprising a frame disposed corresponding to the first end of the display panel, wherein the first step has a first step surface, the second step has a second step lateral surface connected to the first step surface with a groove formed therebetween, and the frame has a frame flange corresponding to the groove.

19. The display device according to claim 18, wherein the first step surface has a first step edge away from the second lateral surface; the second lateral surface has a second step edge away from the first step surface; the frame flange extending to a virtual plane defined by the first step edge and the second step edge.