

BUILDING A VR VIEWER

BLACKLINE MASTER ASSEMBLY



MATERIALS NEEDED

- One Rectangular Cardboard piece from 12-pack soda case
- Two round bi-convex lenses with a focal point of 45mm and a diameter of 25mm
- VR Viewer Blackline Master
- Hot glue gun and glue
- Scissors
- Glue Stick
- Masking tape
- Pencil or pen
- 2 thick rubber bands

VR VIEWER ASSEMBLY INSTRUCTIONS

1. Carefully cut out all four shapes on the blackline master sheet, cutting along the solid black lines only.
2. Arrange the paper shapes onto your cardboard piece and glue them in place, printed side up, using a glue stick. Allow the glue to dry.
3. Carefully cut out the two large rectangular shapes first, cutting along the solid black lines only.
4. Line the rectangular end marked "b" with the dotted line of tab "B" and glue the two rectangles together using hot glue.
5. Line the rectangular end marked "a" with the dotted line of tab "A" and glue the two rectangles together using hot glue. Make sure that all of the small tabs are facing the same way. This should create a rounded shape, looping the two rectangles together.
6. Fold each of the small tabs inward along their dotted lines.
7. Cut out the small rectangular shape, cutting along the solid black lines only.
8. Alternate the folding along the dotted lines of Tabs 1 – 4. Fold Tab 1 away from you, Tab 2 towards you, Tab 3 away from you, and Tab 4 towards you.
9. Hot glue Tab 1 so that the folded dotted line of Tab 1 lines up with the dotted line of Tab A on the rounded shape that you made with the two long rectangular pieces.
10. Hot glue Tab 4 so that the folded dotted line of Tab 4 lines up with the dotted line of Tab B on the rounded shape. This will force the rounded shape into an oval and create a middle support for your VR Viewer.
11. Cut out the final ovular shape that from your piece of cardboard, cutting along the solid black lines only.
12. Carefully push a pencil or pen through each of the eye holes. Use these holes as entry points for your scissors. Cut the eye holes out, cutting precisely on the solid black lines. If you cut past these lines, the lenses will not fit.
13. Carefully draw a line of hot glue around the edge of one of the circles, place one lens over the eye hole, making sure that it overlaps with the hot glue. Repeat with the second eye hole.
14. Line the edge of the middle support up with the dotted line between the two eye holes.
15. Hot glue Tabs 2 and 3 so the 2 separate parts are now connected. Hold until the glue has cooled.
16. Hot glue each of the small tabs to secure the two parts together. Hold until the glue has cooled.
17. Use 2 rubber bands to attach the VR viewer to your smartphone and adjust the placement of your phone until a VR-enabled app comes into focus.