

Framed Smart Mirror

Build It Yourself With Our Step-By-Step Guide

DIFFICULTY: Essential Woodworking Skills

ESTIMATED TIME: 3-4 Hours

MIRROR SIZE: Same as display size

The frame serves several purposes in a smart mirror. Naturally, there is the decorative aspect to a frame, whether it be complementing your decor with a simple frame, or creating a focal point in a room with a more audacious style. In addition to the decorative aspect, a frame holds the glass in front of the display and hides the unsightly bezel and sides of the display. With the addition of an infrared repeater, the signal from a remote is able to control the display through the frame.



TWO WAY MIRRORS TIP:

Use TV instead of monitor for remote.

Control your volume and on/off straight through the frame.

Tools



SMART MIRROR



FRAME STICKS



ROUTER TABLE



WOOD GLUE



#6 1/2" SCREWS



TAPE MEASURE



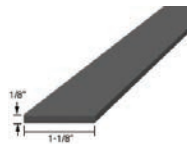
RUBBERIZED CLAMP



LONG CLAMPS



ISOPROPYL LENS CLEANER



RUBBER SHIMS



Z-BAR HANGER



TABLE SAW



CHOP SAW



IR REPEATER





1 Measure Display:

❑ Measure viewable area of the display. You want to measure the size of the top, bottom and sides of the bezel. Pay attention to any irregularities, such as the infrared sensor (see #1). This will be the rabbet you cut into your frame to fit the glass and display.

2 Cut Frame Sticks Using Chop Saw:

❑ The overall dimensions of your frame will equal the viewable area of the television plus the frame width. Use a fine toothed blade to make sure your frame doesn't chip.

3 Use Router Table To Increase Rabbet:

❑ Check your results against the face of the display as you go.

4 Join Frame Corners:

❑ Use Cornerweld wood glue to join opposing corners. Place 1/8" wedge under each end if necessary to ensure corners are flawless.

5 Use Long Clamps to Join Frame:

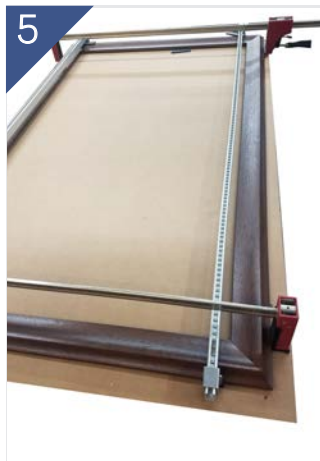
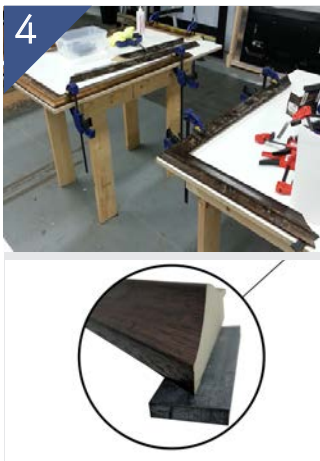
❑ Once clamps are joined let sit for at least one hour. Careful not to over-tighten them on soft or premium frames.

6 Measure Back Build Frame:

❑ Measure the remaining distance to the back of your display. Your back build will need to be flush with the back of the screen.

7 Cut & Glue Back Build Frame:

❑ Cut the back build sticks 1/16" shorter than the front frame. Turn the front of the frame upside down and glue on your back build.



8 Place Glass & Display Into Frame

❑ Lay glass gently into rabbet of frame and clean thoroughly. Place TV gently on top of glass. If you have a large display, it may help to have a 2nd person helping slowly lower the glass and display.

9 Attach Z Bar & Fine Tune Display Position:

❑ Cut Z-bar hangers to fit over display. Be sure to find where the IR sensor is located. Do not cover the sensor with the Z bar.

10 Add Infrared Repeater:

❑ Attach the IR to the display. Plug in your 12 volt adapter and connect the emitter to the television sensor. Be sure the IR eye is in line of sight with the remote.

