Can’t get enough retro gaming? Why not build a cabinet to run a Raspberry Pi-based system! This model includes a 6-button/ joystick layout, 21.5” display, USB port, custom LED-lit marquee, and 2” speakers with volume control. The design is versatile and can be changed to suit your specific needs in gear, layout, and appearance. All in a format that looks just as good in your living room as it does in a dedicated game room.
## Cut List

<table>
<thead>
<tr>
<th>Section</th>
<th>Part ID</th>
<th>Part Description</th>
<th>Material</th>
<th>QTY</th>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arcade</td>
<td>A</td>
<td>Sides</td>
<td>3/4&quot; Plywood</td>
<td>2</td>
<td>18&quot;</td>
<td>25&quot;</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Marquee Top</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>6 3/4&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Monitor Panel</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>18&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>Control Panel Top</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>7 7/8&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>Control Panel Front</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>3 1/8&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>F (G)</td>
<td>Back - (Door)</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>20 3/4&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>H</td>
<td>Marquee Bottom</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>4&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>I</td>
<td>Bottom</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>17 1/2&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>Monitor Cleat</td>
<td>3/4&quot; Plywood</td>
<td>1</td>
<td>4&quot;</td>
<td>22&quot;</td>
</tr>
</tbody>
</table>

### Materials Needed:

- 1 Sheet of 3/4" Plywood
- 1pc of 1/8" Plexi Glass 3” x 22”
- Optional - 1pc of 4/4 hardwood 1 1/2“ x 96” for banding

### Important Building Note:

After you cut your parts out and the cut the necessary bevels, there’s a really good chance your final measurements will differ from those laid out in the plans. That’s absolutely OK. The final shape of your cabinet will be transferred to the cabinet sides and those will be cut last. So use the cut list as your starting point and don’t worry if your numbers differ slightly from the plans.
Resources

Everything you need to know about retro gaming on Raspberry Pi:
https://retropie.org.uk

The Raspberry Pi:
http://amzn.to/2j1sjQf

Marquee LED Lights:
http://amzn.to/2jbjwbL

Speakers:
http://amzn.to/2ic6qws

Display:
http://amzn.to/2jbmZqK

Buttons and Joysticks:
http://amzn.to/2jbncKG

USB Hub
http://amzn.to/2j1sGdB

Countersink Bit
http://amzn.to/2j4VEW6

Jigsaw Blades
http://amzn.to/2ilquHl

Clamping Tool Guide
http://amzn.to/2j1gvxu

Wiping Poly
http://amzn.to/2j1qjre

GRR-Ripper
http://amzn.to/2iXnpmR

Self-Centering Drill Bits
http://amzn.to/2iWmqBf

Flush-Trim Bit
http://amzn.to/2jfKKB
Banding Exploded View (optional)
Sides

24 5/8"

21 11/16"

25°

12°

4 3/4"

A - Side

17 3/4"
Bevel Cuts

E - Control Panel Front
3 1/8" 77.5° Set Saw to 12.5°

B - Marquee Top
6 13/16" 57.5° Set Saw to 32.5°

D - Control Panel Top
7 15/16" 63.7° Set Saw to 26.3° 77.5° Set Saw to 12.5°

C - Monitor Panel
18" 63.7° Set Saw to 26.3°

F - Back
20 13/16" 57.5° Set Saw to 32.5°
Monitor Panel

C - Monitor Panel

22"

1"

4 11/16"

2"

3/4" DIA through hole

18" 1 1/2"

19"

10 7/8"
Marquee Pieces

J - Marquee

B - Marquee Top

B - Marquee Top Backside

1/4" Deep Mortise 3/16" wide 1/4 up from front edge.

H - Marquee Bottom

2" DIA Through Hole

3/4" DIA counter bore - 1/4" DIA through hole

4 1/4"
Components Layout

See Printable PDF Template for hole Layout

D - Control Panel Top
E - Control Panel Front
Back
Plywood Cut Diagram