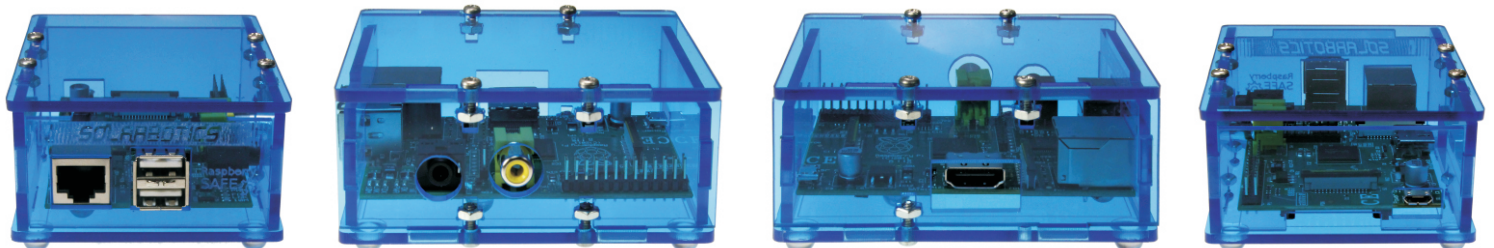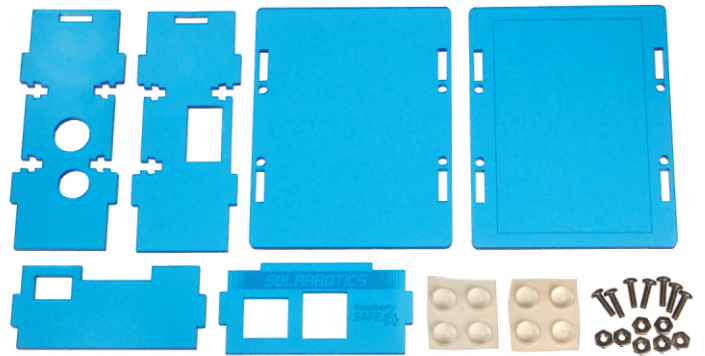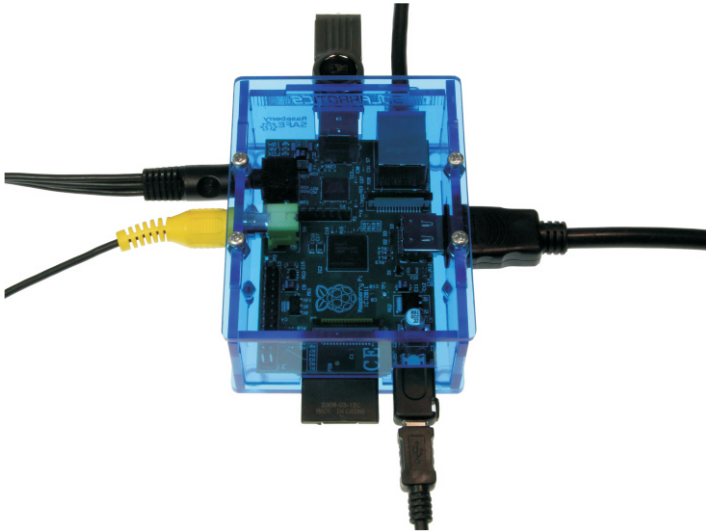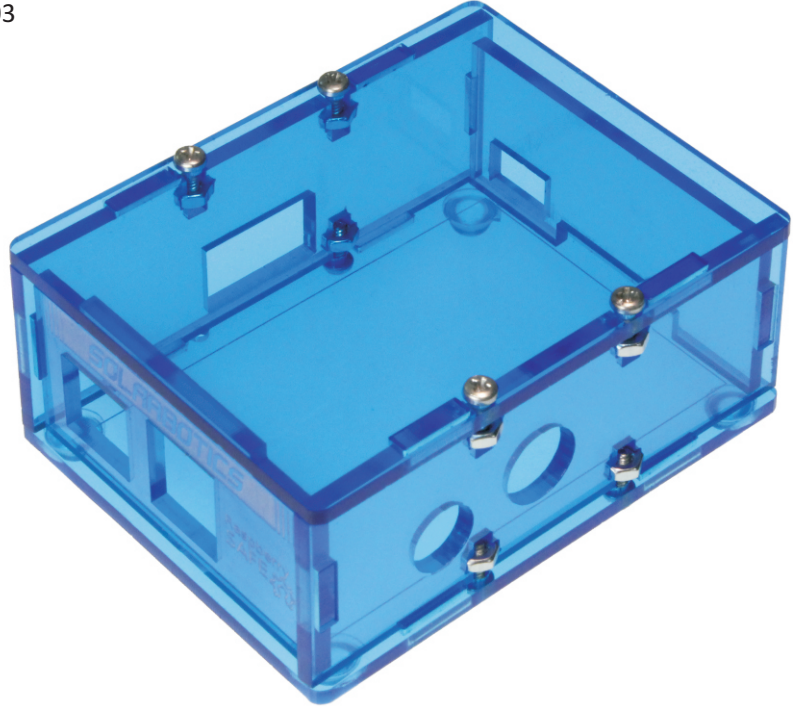# The Raspberry SAFE

Here is a enclosure brought to you by Solarbotics that fits the Raspberry Pi ® board. This layout features both a regular and LCD mountable base plate.
Here Handy handy!

SKU: 60103   http://www.solarbotics.com/products/60103

Parts Included:

- 3mm acrylic
- 7 x #4-40 x 3/8 bolts
- 7 x #4-40 Hex nuts
- 8 x little rubber feet (aka: LRF)

For easy assembly, follow these steps:

1) In an eleventh hour decision we decided to add a small modification that would lock the board down without the need of a GPIO ribbon cable. We came up with the "Tetris Clip". We added 3 clips in the kit just in case a few get lost, but all you'll need is one. Locate the Front plate with the Logo on it and break off the insert that is held in place in the Dual USB jack position. Then breakaway the clips from the insert and dispose of the excess acrylic. **Notice** that your Back plate has a small cutout next to the SD Card slot, this is where the Tetris Clip will notch into.

2) Find 4 flat/empty spots on the bottom of the board as close to the corners as possible, then place 4 little rubber feet (LRF) in those locations (that way you can use the PI with or without the enclosure without having to worry about scratching your desk). Then the rest of the LRFs will go on the bottom side of the base plate in all 4 corners.

3) Slide the nuts into the T-slots. Position the nuts so that sides fit flat against the inside of the "T's".

Note: *If it's hard to insert the nuts, try putting them in from the other side. Lasering makes one side a bit more open than the other.*
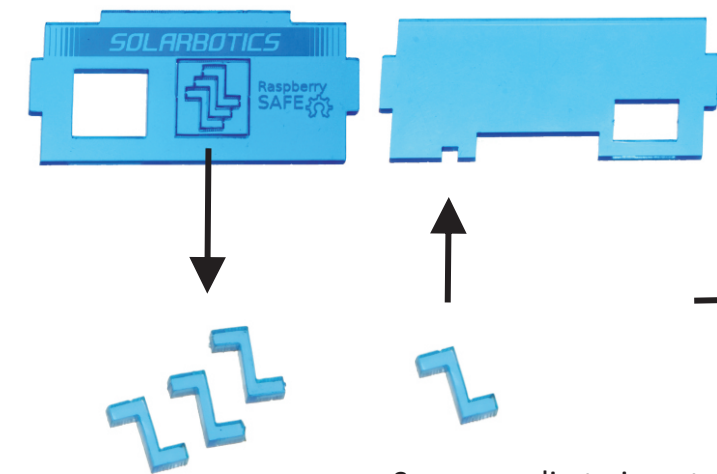
Break out the Tetris Clips from the Insert on the Front Plate.

Save one clip to insert in the Back plate.
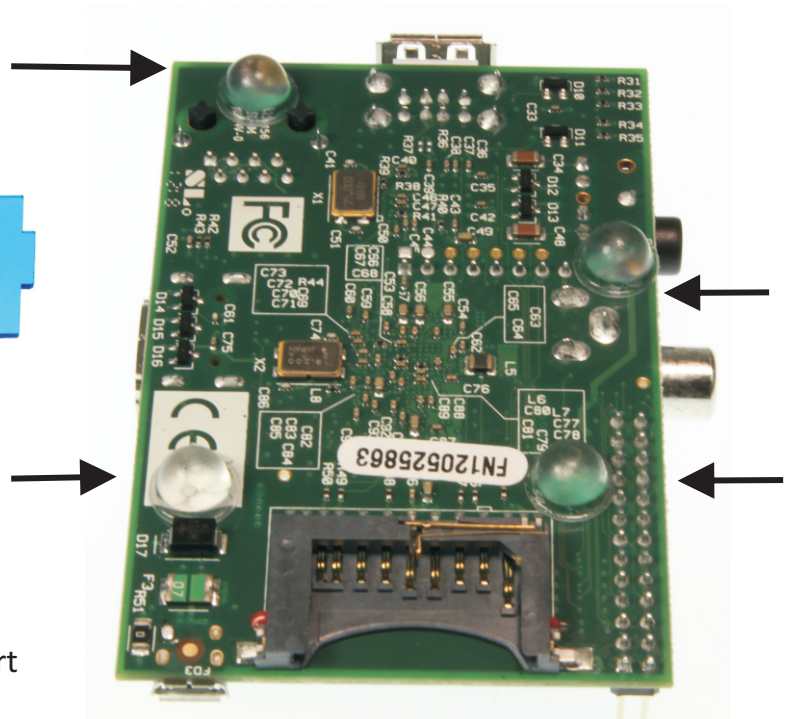
Place 4 LRFs on the botttom of the PCB where there are flat spots and place them as close to the corners as you can.

4) Place the board onto the base plate as it is oriented in the diagram to the below, then place the front face plate on the side of the board with the Dual USB connector on it, fitting it snuggly around the ethernet port and sitting it squarely against the PCB. Then bring on the back plate on the SD card side with the Tetris Clip in position, and finally the bring up the corresponding side plates. The side plates will lock into the base and the front and back plates will tab into the side plates.

5) If some of the pieces don't seem to line up right, try flipping them upside down, the orientation of the piece may have been incorrect as they can fit backward and upside down.

6) Then just thread three of the #4-40 bolts from the bottom into the nuts held in the side plates.

7) Once everything is fairly secure, take the top plate and screw it down into the remaining nuts on the side plates and now the enclosure is finished! Well don't forget to place the last 4 LRFs onto the bottom.
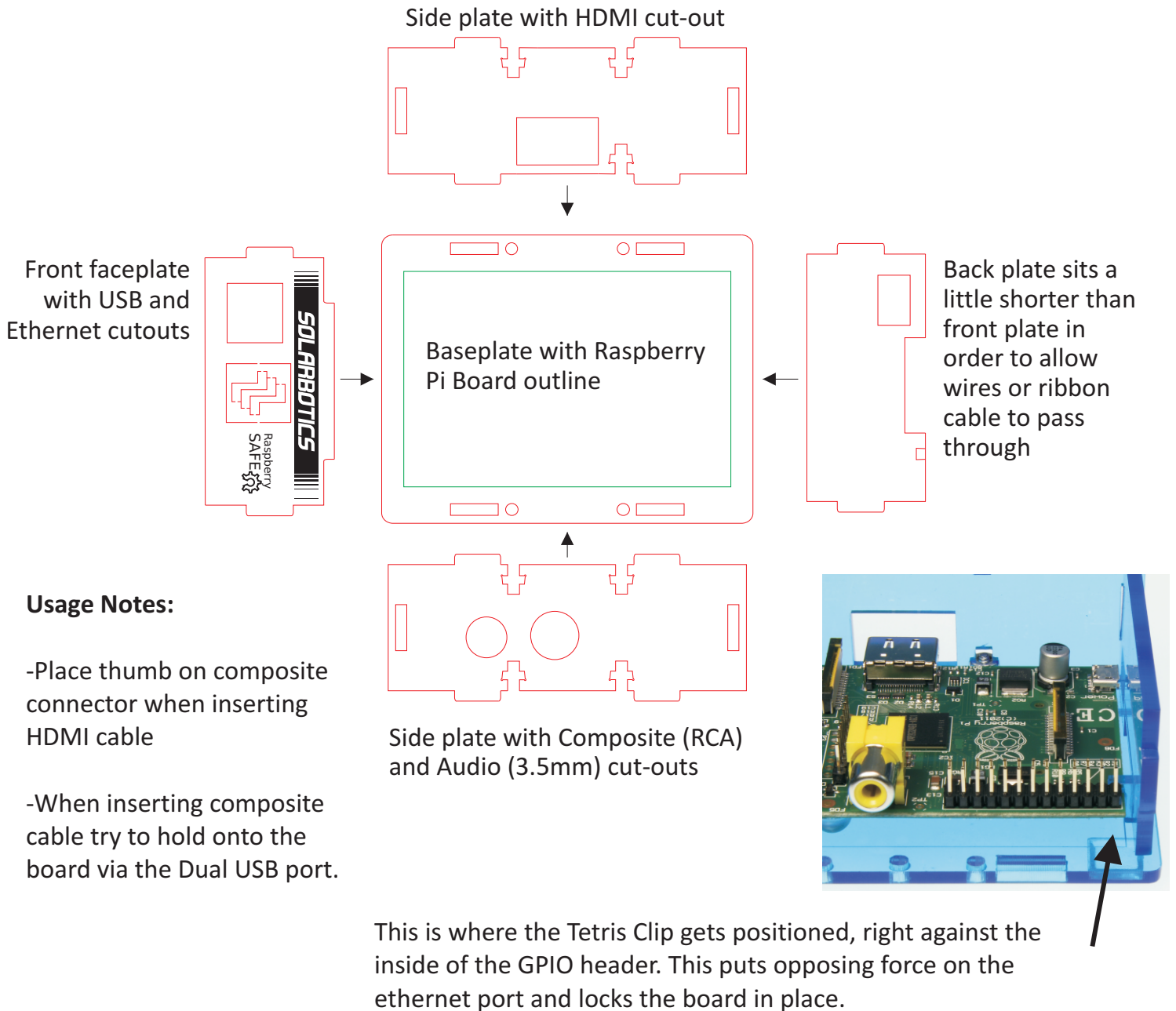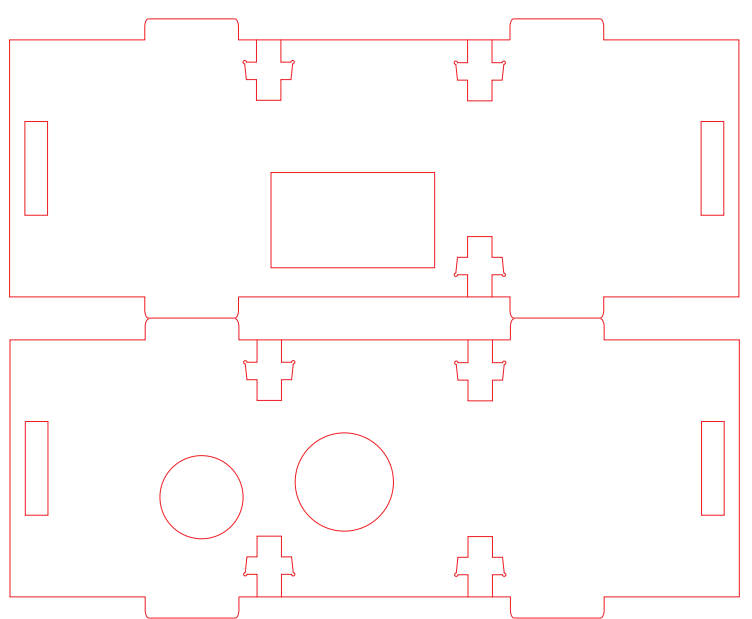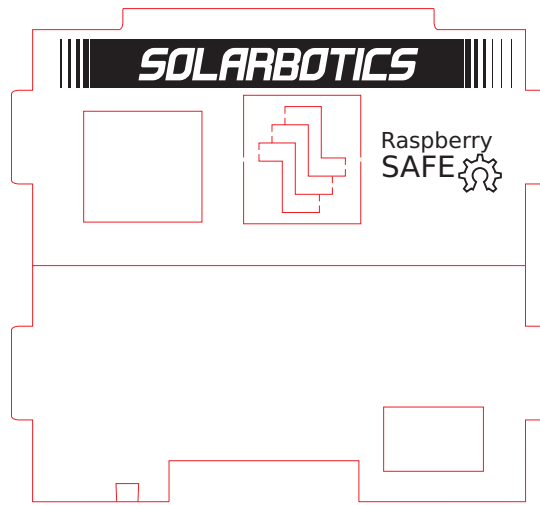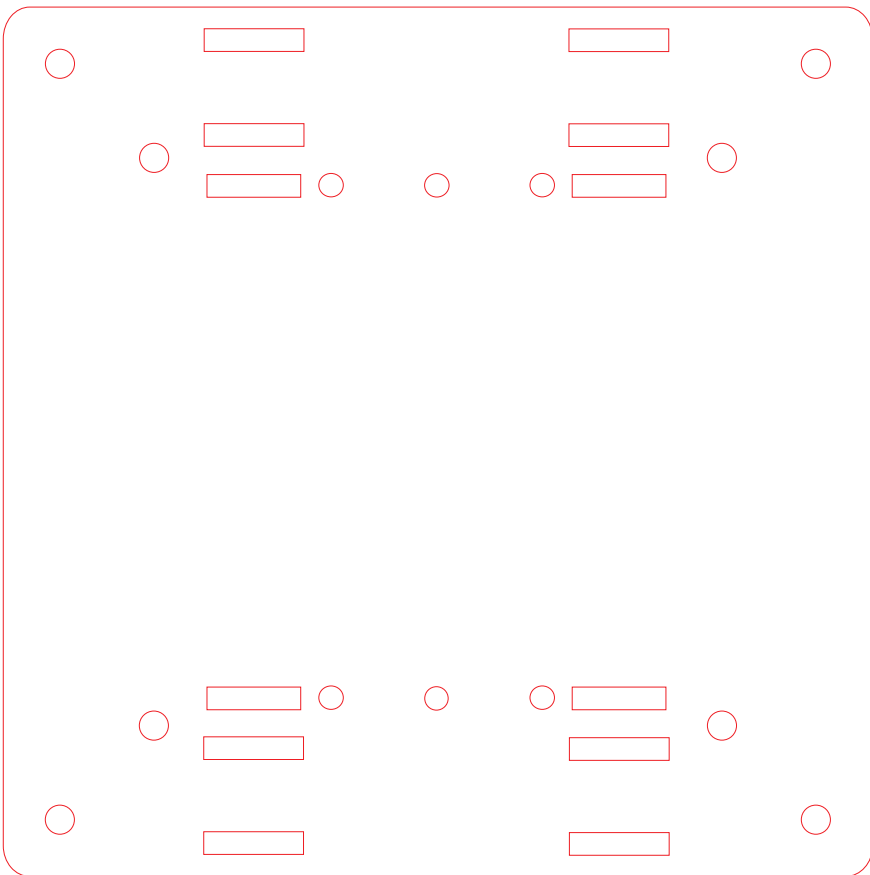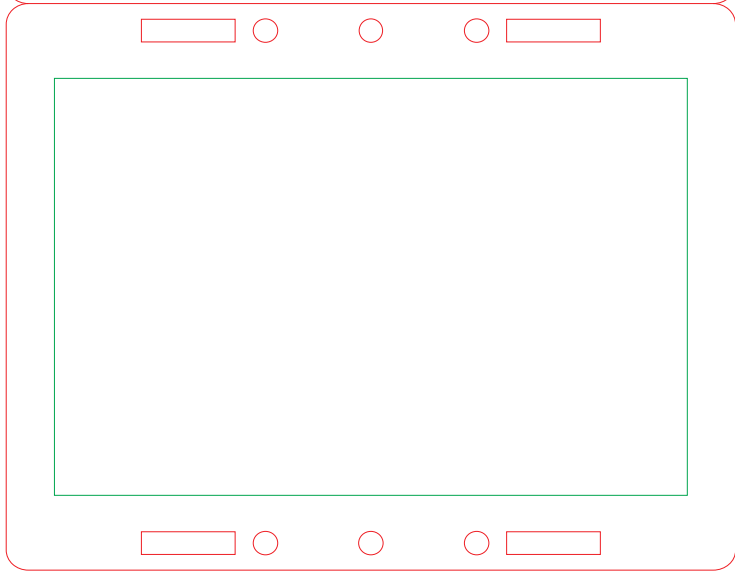
Side plate with HDMI cut-out

Front faceplate with USB and Ethernet cutouts

Baseplate with Raspberry Pi Board outline

Back plate sits a little shorter than front plate in order to allow wires or ribbon cable to pass through

Usage Notes:

-Place thumb on composite connector when inserting HDMI cable

-When inserting composite cable try to hold onto the board via the Dual USB port.

Side plate with Composite (RCA) and Audio (3.5mm) cut-outs

This is where the Tetris Clip gets positioned, right against the inside of the GPIO header. This puts opposing force on the ethernet port and locks the board in place.

SOLARBOTICS

Raspberry
SAFE
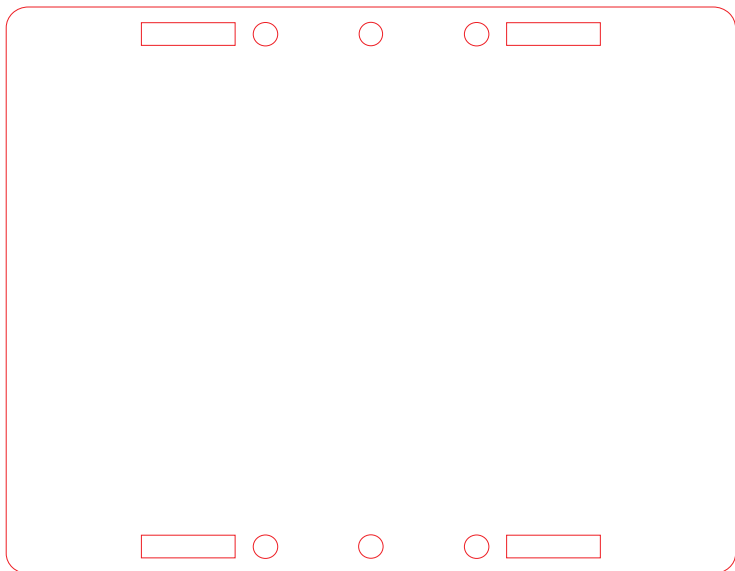
Design File
Layed out for
3mm Acrylic

VESA mount with 100x100mm and
75x75mm spaced standard
mounting holes and also has extra
cutouts for using zip-ties or velcro
straps to secure cabling.

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