

The PlyPi

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As I've had many requests for plans, I hope this will be of help to you all. I'm sorry it's taken me so long – life is a complicated thing. I've never made this kind of document before. I hope that it's to scale. I have drawn on 5cm scales so that, when printed, you can check that they all match up.

I am not highly skilled at cutting ply on a fret saw, and with a machine as ancient as mine, it was touch and go whether it cut at all. So the plans are rough and I expected to need to do a lot of sanding. If you're more exacting, I suggest you just use these plans as an aid and make your own!

The case was made from eight layers of 3mm plywood. 4mm holes were drilled in each corner and 30mm M4 bolts were used to hold the layers together.

With a design like this, you can't just leave the layers all loose – they have to be glued to create two layers. This should be self explanatory, but failing that, take a look at this image - <http://www.flickr.com/photos/spw82/7364583950/>

I should also note that, with eight layers of 3mm ply, the case was a little too tight to close. So I had to chisel out a shallow (less than 1mm) trough for the USB header. You can just about make it out in this image <http://www.flickr.com/photos/spw82/7179354559/in/photostream/> although if you're careful, no one will know.

The top layer has a hole marked that I had originally intended to drill so that I could see the status LEDs. In the end I decided this wasn't necessary. But it's still marked in case you want that access.

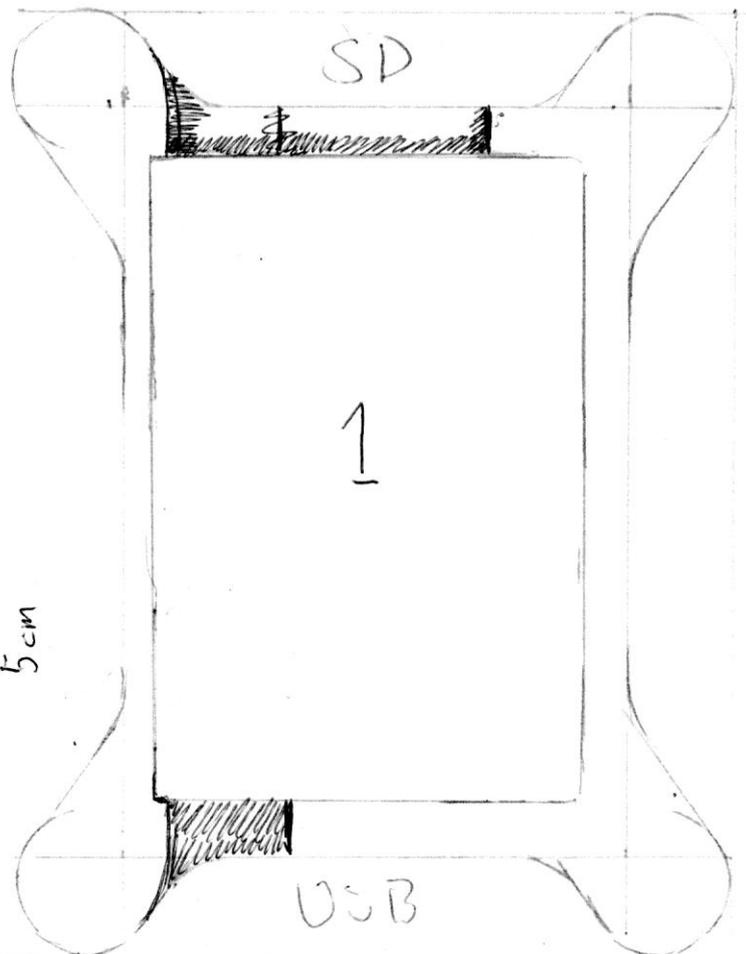
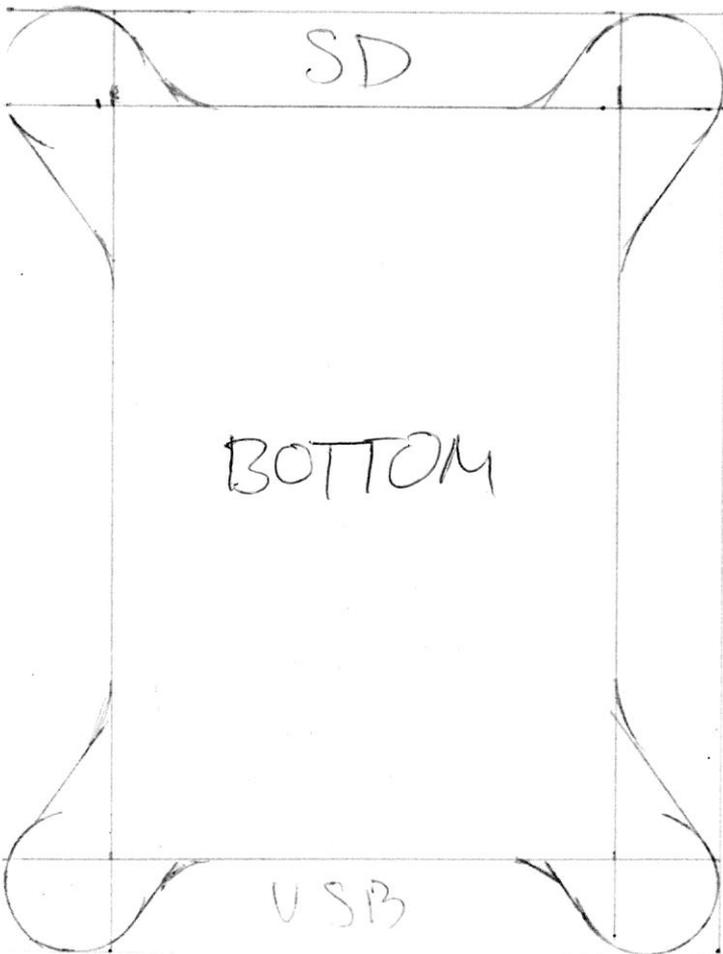
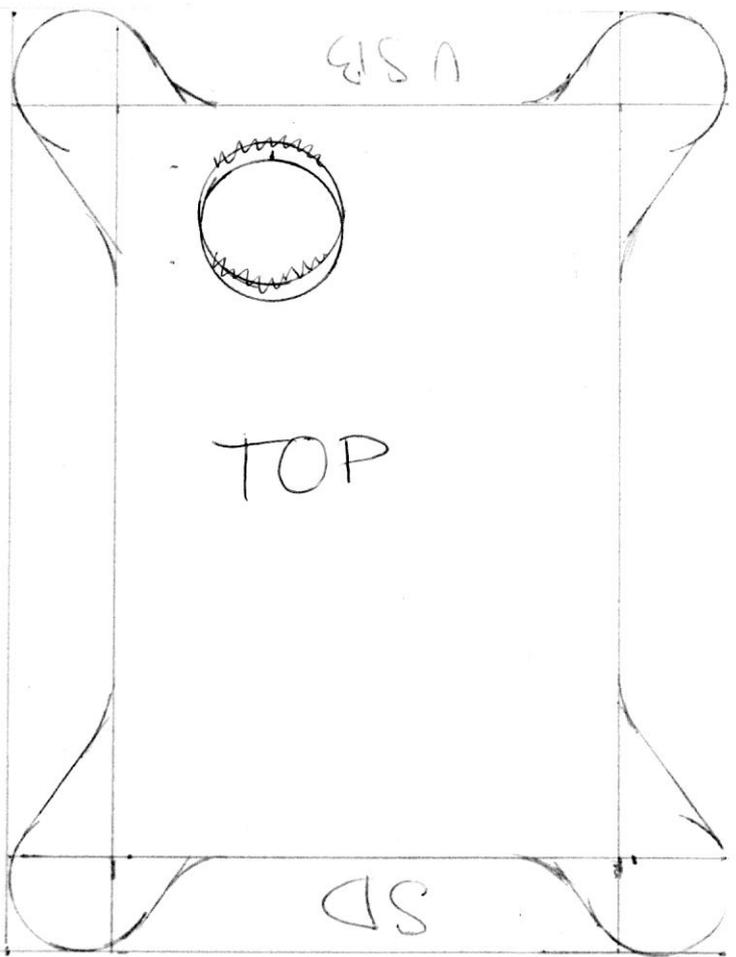
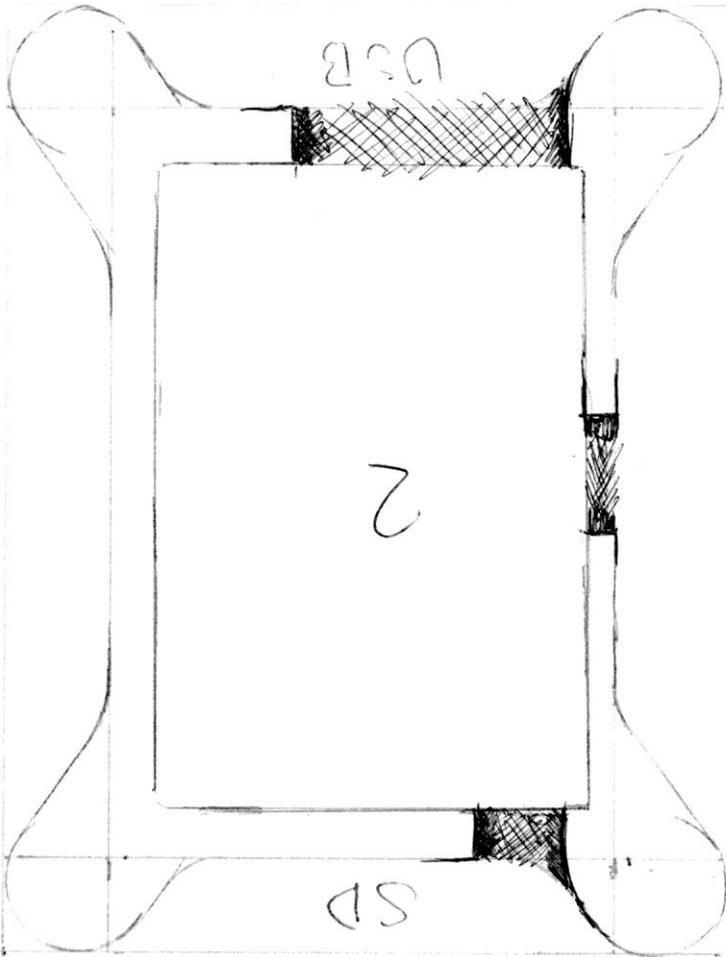
All layers are marked both ends with USB and SD. Be warned – you can get in a muddle if you cut the plans too close to the lines and don't make additional identification marks. What do you mean, "How did I find that out?" ...

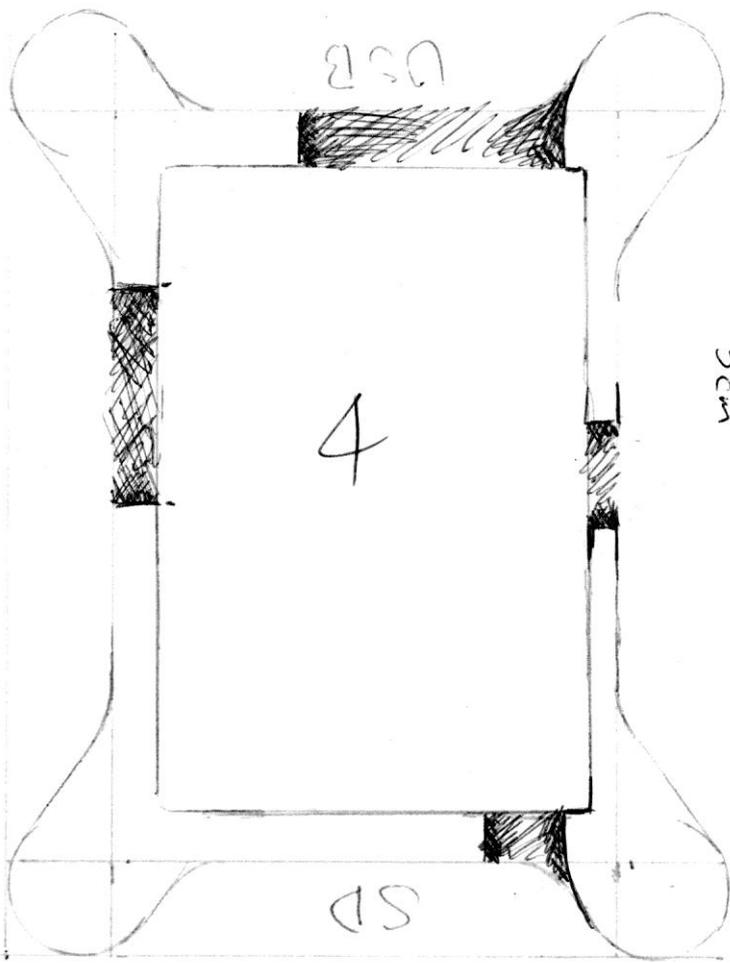
Finally, although I want this to be freely available, if you feel kindly inclined towards me for my *vast* generosity, please consider donating to me via PayPal. There's a link on my blog singlelensreflections.blogspot.co.uk – even a small amount will make a big difference to me.

Good luck, enjoy yourselves, and if you have a go at this design, I'd love to see your results!

Best wishes

Stephen
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5cm

