

# PARTS list for Xth Sense biophysical wearable sensor v1.6

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## Required:

- 1x electret condenser microphone –  
£1,82  
<http://uk.farnell.com/kingstate/kecg2742pbl-a/microphone-electret-condenser/dp/1502742?Ntt=KECG2742PBL-A>
- 1x resistor 2.2k -  
£0.06
- 1x capacitor 1uF, 60V -  
£0.22
- 1x proto kit (or another plastic box and a matrix board)  
<http://uk.mouser.com/ProductDetail/BusBoard-Prototype-Systems/KIT-1593K-BK/?qs=sGAEpiMZZMtyU1cDF2RqUM25cO10NQ3ZruyNI0%2F9n4w%3D>  
£5.07
- 1x coin battery holder  
£1.13  
<http://parts.digikey.com/1/parts/1699728-holder-cell-2032-w-gold-pins-bh32t-c-g.html>
- 1x lythium coin battery 3V  
£0.28  
<http://parts.digikey.com/1/parts/1241-battery-lithium-coin-3v-20mm-cr2032.html>
- 1x mono chassis jack socket 1/4  
£1.48
- 1m electric cable (telephone cable)
- 2m electric flexible cable (audio cable)
- silicon case (height 1.5cm, diameter 2cm, hole diameter 0.5cm)  
Either

- buy it from the link below, and drill a hole in it:

<http://www.bumperfeet.co.uk/pd-2210-223mm-x-101mm-60-p.asp>

- make it by using a mould. You can use an empty plastic tube, cut it according to the size indicated above, and fill with a lot of silicon, it has to be very dense (use common silicon, you can find anywhere). Remember to insert a screw or a small wooden cylinder in the middle of the mould, so to shape a hole into the silicon case. Then let it dry for 3 or 4 days, open up the plastic, and you'll get your shiny silicon case.

- velcro strips (hook and loop sides needs to be separated)
- black thread

TOT: about £10/11.00

Optional

- mini connector (alternative to directly solder the microphone to cables)
- staples (alternative to sewing machine)



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