



Make your own “The Black Hole” Humanoids chrome mirror mask

by Marc Kerger 2011

Get 1 (maybe 2 just in case)
10" see-thru Mirror CCTV Dome
ref: D360-10st
from Domes&Mirrors or Se-Kure
in USA (this is the only 10" I could find)
you can also get them from resellers
such as securityprousa and others



With a Dremel or similar
cut off the rim



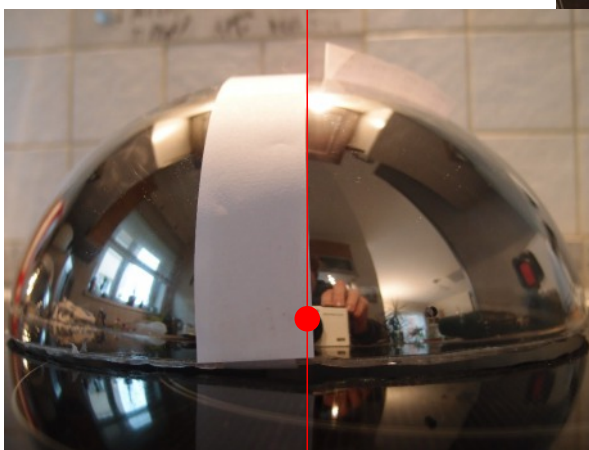
Print and cut out the template and ruler
do not fit to page , print with no resizing.



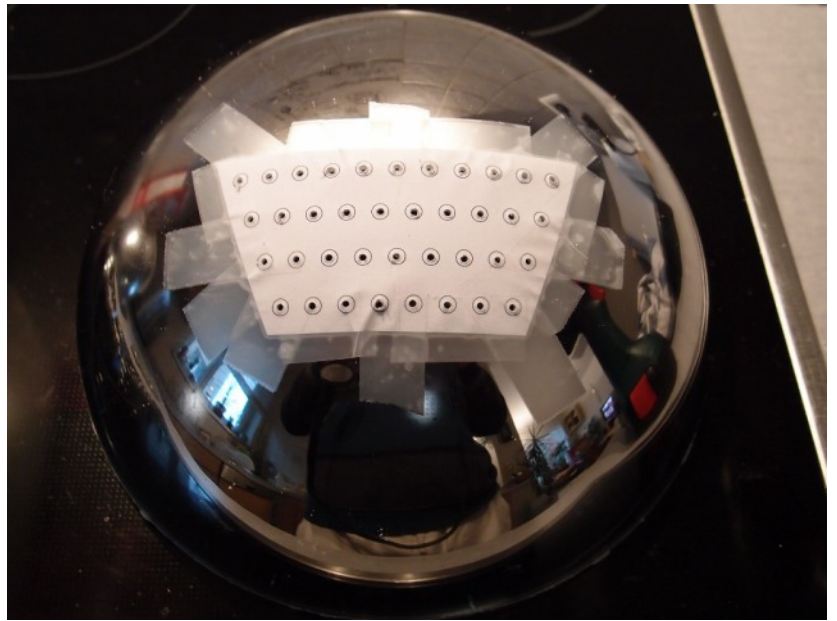
Make 2 holes on each side about 1cm from rim:

- 1) 5mm dia. (or any other size) hole for elastic. exactly in the middle
Length of ruler will give you exact half circumference so both middle holes are opposite
- 2) make a second hole approx 3mm dia. 3cm further down.(dia does not matter
it is just to put a wire through for next step) The ruler is 3cm wide

With tape stick on the ruler
with one edge in the middle
stick the hole template about 1 cm
below middle line.



From the front
drill 2mm dia.
holes in the center of each hole
Don't drill too fast, don't push hard!
use new/sharp drill
I used a battery hand drill



From the back
drill all holes with 5mm dia drill

Chrome plating is inside!
this avoids chipping.
Use counter sink to deburr all holes
from both sides by hand.



I used a spanner and 2 wires to force a egg shape. wires go through the 2 extra holes which are below the ones for the elastic. adjust as you want it. Force it a little bit more because after tempering it will spring back a bit.



Preheat (kitchen) Oven to 100°C (212°F)

I put it in circulating hot air mode but I am not sure it was the best choice.

Hang the mask facing down from a grill rack at highest position.

Temper it for 2-3min. remove and let cool with spanner. Once cool remove spanner and wires





Place Ruler with one edge touching lower hole
at about 45° , trace a line and cut of lower section with the dremel
this is so the neck has more freedom.

If you wish you can trim
the rim straight.
at least sand the edges smooth
or paste a protection over it (ducktape?)



Done

The tempering may need some more experimenting.

This was my first one:

I did this one facing up, I think it was a bit too close to the top or some heating element?

As I said I used circulating hot air but I saw on my second one that one side melted more than the other because it was closer to the hot air vent.. so Maybe turning off the oven and just using the resident temperature of the oven will be enough?
or some other heating method.

I was thinking a hot air gun but this is much harder to reproduce a result or temperature.



I don't guaranty anything.

This worked for me.