

# Multi-channel portable odor delivery device for self-administered and rapid smell testing

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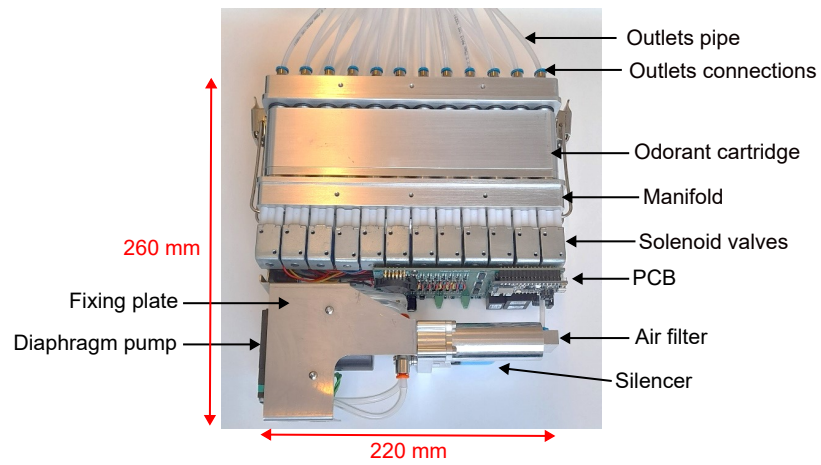
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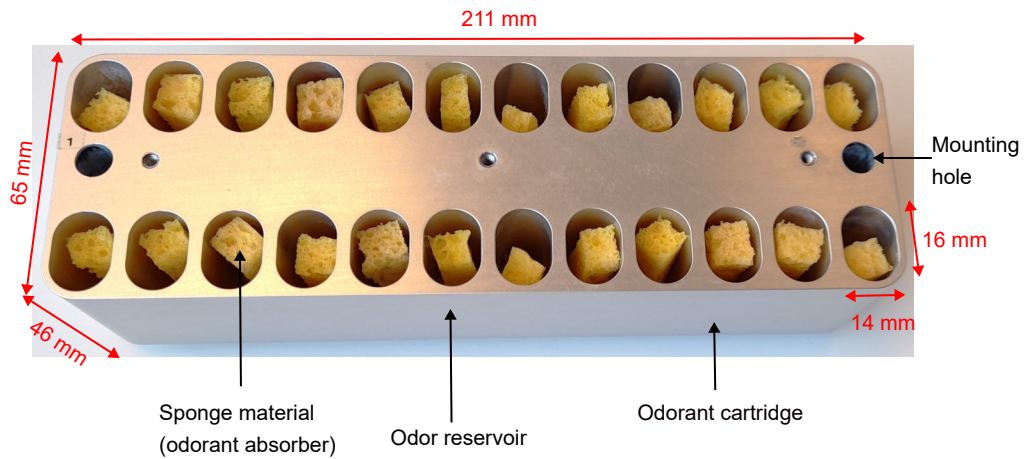
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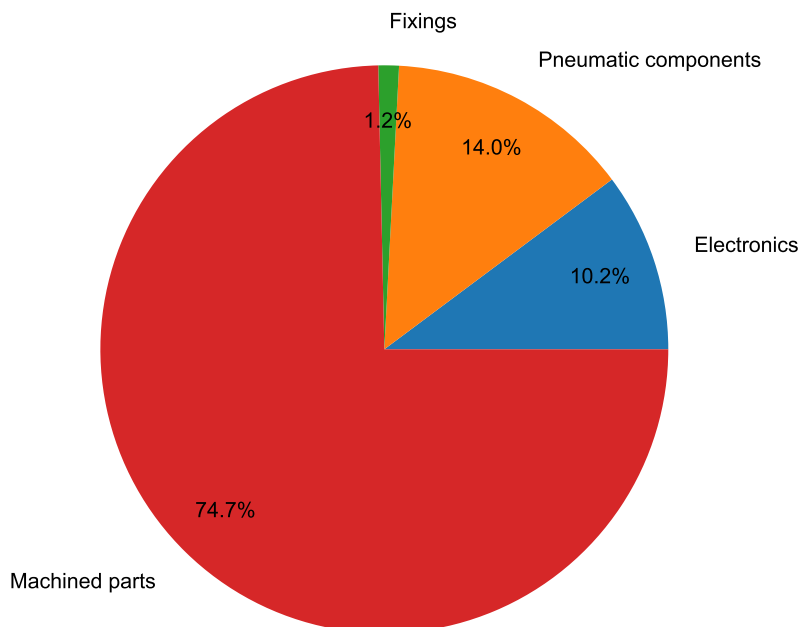
## Supplementary Figures



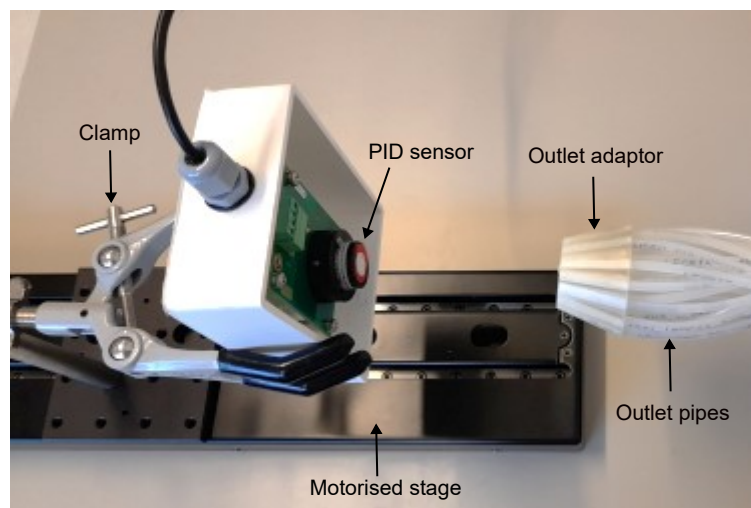
**Supplementary Figure 1: | Device internals.** Image of the internals of the odor delivery device with the case removed showing the main system components, including the diaphragm pump for airflow generation, air filter, solenoid valves, odorant cartridge, outlet pipes and printed circuit board (PCB) for system control.



**Supplementary Figure 2: | Odorant cartridge.** Image of the metal odorant cartridge of the odor delivery device showing the 24 odor reservoirs containing the sponge absorber material saturated with the odorant.



**Supplementary Figure 3: | Cost breakdown.** A pie chart showing the relative cost of the different system components making up the odor delivery device. The cost of the custom machined parts dominates. The total cost for parts was \$2,140.



**Supplementary Figure 4: | Odor mapping test setup.** Experimental setup used for mapping the odor distribution. A motorised stage was used to position the photoionization detector (PID) at different distances from the outlet of the odor delivery device.