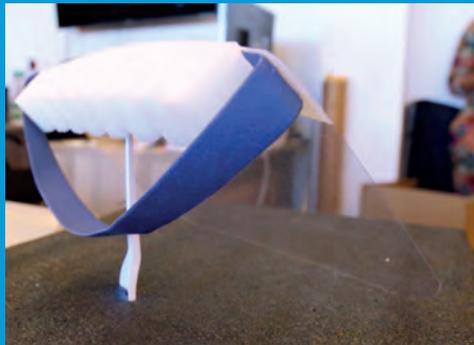


The UCT ViZAR

The UCT ViZAR is a comfortable, disposable face shield that has followed a user centric design approach to meet all of the needs of The wearer.

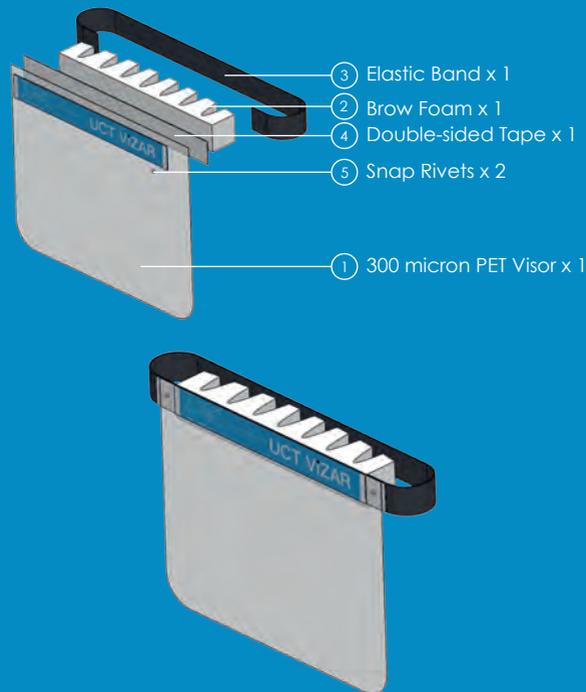
The soft profiled foam brow allows for the visor to sit against the forehead while not irritating the skin. This also allows for a space between the shield and face, reducing the chance of fogging on the visor. The soft fabric elastic backing enables the visor to fit many head shapes and hairstyles. The UCT ViZAR has been designed for longer period use to maintain the much needed safety and comfort of the patient.

The UCT ViZAR is based on open source technologies developed by Peter McDonald (UCT Medical Device Lab direct collaborator) and which are recommended by Royal Academy of Engineering's 'Project Care'.



The visor comprises of

- 1 A shield made of PVC sheet.
- 2 A foam piece that goes against the wearer's head.
- 3 An elastic band that keeps the device in place.



Designed by UCT and manufactured by CUT - CRPM, an ISO 13485:2016 certified and SAHPRA Licensed (00001103MD) South African Medical Device manufacturer.

The advantages of the shield

- ① It shields the wearer of potential exposure to airborne organisms in light of the current COVID-19 pandemic,
- ② There are minimal skills required to use it
- ③ It can be transported and no assembly required
- ④ It is cost effective
- ⑤ Its components are completely disposable and built in according to WHO recommendations



The UCT ViZAR has also been design iterated and tested in close collaboration with clinicians at the Groote Schuur Hospital to ensure that it is designed for full functionality.

Research into COVID-19 has shown the increased transmission through close contact and aerosolized respiratory droplets.

Community workers, clinicians and health professionals that interface regularly with the infected require more protection.

Transmission of COVID-19 occurs through respiratory droplets when infected people are in close proximity to others during the incubation phase and active infection. Healthcare and community workers are particularly at risk since their work requires close proximity to potentially infected people. WHO (2020), recommends eye protection and protection of mucous membranes from exposure to respiratory droplets through wearing Personal Protective Equipment and practicing good sanitary/ sterile practices.

Biomedical solutions to limit transmission include face visors and goggles used in conjunction with respiratory protection in the form of masks or respirators. While there are a number of solutions available, there is a high demand for easy-to-use, accessible and cost effective PPE.

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UCT VIZAR

