

# 3D DESIGN & PRINTING INNOVATION



**INTRODUCING 3D1's ON-DEMAND,  
COVID-19, FACE SHIELD.**

# The 3D1 Face Shield

Every health care professional battling COVID-19 has a risk of being infected through droplets, splashes and any other contact with the face. Today we're moving another step closer to preventing the spread within our health care system.

3Done Australia Pty. Ltd is a Brisbane based 3D-printing, manufacturing and design company, with over 20 staff and 29 3D- printers including 15 large format, as well as water jet cutting, laser cutting, laser welding, and wet lab chemical handling facilities.

## 3D1 Capabilities

3D one manufactures its own 3D-printers specifically designed to make medical devices, normally for radiation oncology applications (cancer treatment) and is already embedded in the supply chain of more than 70 hospitals and treatment centers throughout Australia and New Zealand.

3D One has now implemented a manufacturing process capable of producing high-accuracy on demand single use Face Shields to meet the increasing demand of Hospitals and GP's. 3D-Printing is a powerful and robust tool for rapid changes in demand. Emergency replacement products, for example, hospital personal protective equipment (PPE), intensive care, ventilator parts/components can be modeled within hours by our team of 6 engineers and designers. We are currently 3D-printing respirators, face shields, and various other PPE designs, working with Australian hospitals to deliver what is needed from existing designs from around the world or designing new parts and components as required. Please note all PPE products are sterilized with UV-C treatment prior to shipping.



Face shield designs optimized for production speed. (30 minutes print time, capacity for ~450 a day) TGA-ARTG No: 333099



# COVID-19 Face Shield

In a proactive attempt to mitigate shortage of PPE in the current COVID-19 crisis, the 3D One team is developing and deploying open-source Face Shields to local Hospitals and Health Care Centres throughout Australia. As indicated by global demands for more medical gear, health teams are quickly depleting stores of necessary PPE and are put at greater risk of exposure. To tackle this resource issue, our open-source project uses 3D-printed visors for a low-cost, quick to assemble face shield.



## Why Face Shields?

Disposable face shields are personal protective equipment devices that are used by many medical workers for protection of the facial area and associated mucous membranes (eyes, nose, mouth) from splashes, sprays, and spatter of body fluids. Face shields are generally not used alone, but in conjunction with other protective equipment and are therefore classified as adjunctive personal protective equipment.

Healthcare workers' faces has been reported to be the part most contaminated by splashes, sprays and spatter of body fluids. Face shields are personal protective equipment (PPE) that are commonly used as barrier protection for infection control purposes by numerous workers. Due to the lack of a good facial seal peripherally that can allow for aerosol penetration, face shields should not be used as solitary face/eye protection, but rather as adjunctive to other PPE, such as protective face masks and goggles (source National Centre for Biotechnology Information).



# 3D1 Face Shield

## Helping Fight COVID-19



E-CUTOUT Portal Login

**3D one** \*

Username

Password

Envisage.  
Design.  
Print.

**3D one** \*  
3d1.com.au

Unit 8, 201 Evans Road

Salisbury Qld 4107

T +61 7 3899 5411

E sales@3d1.com.au