



CONSTRUCTION



VISUALISATION



LASER SCANNING

# Bretts Timber & Hardware

## WINDSOR SHOWROOM



### PROJECT SUMMARY

**Location:** Windsor Brisbane

**Technology:** 3D Laser Scanning, BIM, Visualisation

Holovision was engaged by Bretts Timber & Hardware to assist in redesigning the floor layout for their showroom in Windsor.

Using 3D laser scanning and extended reality technologies (a combination of virtual and augmented reality), we were able to scan the showroom to allow Bretts could visualise their showroom with 'virtual objects' by displaying a 3D model.



## PROJECT CHALLENGES

- Obtaining site measurements of the existing showroom was becoming very time consuming due to the complexity of the area.
- Manual creation of floor plans and design documents was too costly and would be inaccurate.
- Reviewing the design on 2D Plans or computer screens did not give the client an accurate perception of the environment.



## OUR SOLUTION

Using **3D Laser Scanning** technology, we scanned the existing showroom and generated a 3D model in Point Cloud of the environment.

Using the 3D Point Cloud software, we were able to produce a 3D Model in Sketchup with the exact measurements and dimensions of the showroom, down to the precise millimetre.

We were also able to play around with the model, creating different design proposals for the showroom, without the need to re-draw or measure.





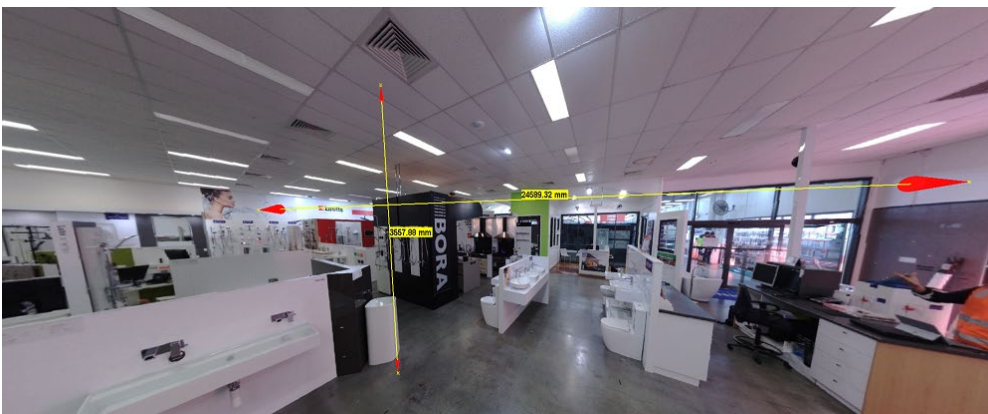
## PROJECT OUTCOMES

We uploaded the Sketchup Model into the Microsoft HoloLens, allowing the client to review the various design proposals in real-time, 1;1 scale. The client could then interact with the 3D Model, to get a true feel for the users experience but altering when they encountered roadblocks,

By using 3D laser scanning and mixed reality technologies the client was able to visualise the showroom in the real world and the virtual objects before work commenced.

Our visualisation and 3D laser scanning technologies helped Bretts to make informed decisions about the redesign of the floor layout.

AR and VR was used throughout a projects life-time for design, collaboration and visualization. We can help our clients interpret their drawings and visualise their space. We can display designs in 1:1 or scale it down for an all-round view of the object.



## CONTACT US

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## SCAN ME

