



Size
20,000 sq/ft



Scan time
2.5 hours



Location
California,
USA



Industry
Surveying



Scanned
Private
residence

Words by Greg Davies, PPM

“We were tasked with surveying a vast private house in order to generate accurate as-built construction drawings for renovation. The unique challenge was that the 20,000 sq. ft Santa Barbara residence was occupied at the time, requiring the survey to be completed quickly and in an unobtrusive manner.

PPM (Precision Property Measurements) chose the ZEB REVO over other terrestrial scanners for our residential projects because of the speed and volume of data acquisition at exactly the level of accuracy required by our clients.

In order to keep disruption to residents to a minimum, we decided to tackle the task in two swift scans over two days. The first scan consisted of data collection of the extensive ground floor and communal areas, and took around 90 minutes to complete. The private, bedroom wing was off limits on this day.

The second scan incorporated these sleeping quarters, as well as gathering plenty of overlap from the lower floors to enable the 2 scans to be merged. After just 140 minutes of scanning, the entire house had been surveyed.

“ We’ve always been confident in our ability to keep our projects to the nearest inch or less. In bringing the ZEB REVO into our arsenal of tools, we’ve kept the accuracy we’ve always had, but introduced an efficiency that allows our experts to get out there and do more for our clients ”





A typical residential property of this size would have usually taken around 4 days on-site for one surveyor. PPM were able to slash this time and complete the majority of the survey work in less than 2 and a half hours with the ZEB-REVO.

The use of GeoSLAM Hub software for post-processing and merging of the two datasets allowed the project team to generate a complete digital twin of the complex structure.

GeoSLAM's cutting edge mobile mapping technology was able to deliver an accuracy down to the nearest inch."

