



Size
8,357 sq/m



Scan time
10 hours



Location
Belo Horizonte,
Brazil



Industry
Architecture



Scanned
Skyscraper

Words by

Jose Vargas, PARAGRAM

“In the city of Belo Horizonte, there is a distinct mix of contemporary, classic and historic buildings on display, making it a really attractive destination to visit. What comes with the architecture on offer however, is the need to preserve it for tourists and future generations to enjoy.

Often the fragility of buildings or lack of resources means that many buildings go untouched for decades, leaving them to crumble. It’s my job to ensure these relics remain.

“ We were very impressed with the quality of information captured by the ZEB REVO. ”

When the chance to retrofit electrical installations and a fire prevention plan to a 130-metre art deco skyscraper, the Acaiaca Building, became available, the team at Paragram knew we had to be involved.

Built in the 1940s and once used as a nightclub, cinema, shops and air-raid shelter, the building required some attention in order for it to meet safety standards.

Having initially planned to measure the 8,357 square metre building using manual survey methods, estimates told us this would have taken three employees over 40 hours to complete an as-built structure.

Working alongside contractors at Criar Projetos E Consultoria, Paragram decided to use GeoSLAM’s ZEB REVO, known for its ability to quickly generate images to within a few centimetres of accuracy. With the handheld device, the job was expected to take around 10 hours in total, reducing the workload dramatically.





With just two operatives and in under 10 hours, we managed to complete a scan of the building's interior, with one walking through the building holding the device and another taking a photographic record. This innovative way of working meant we were able to gather much more information than first anticipated, including the registration of beams and roof trusses, electrical installations and engine room areas.

“ The ZEB REVO is a real game changer for the architecture industry. ”

As a team, we were very impressed with the quality of information captured by the ZEB REVO, which was easily incorporated into a BIM representation using Revit software.

Almost every renovation project is governed by strict time constraints, but with GeoSLAM's device and its ability to rapidly scan large areas, it is a real game changer to our industry. With products like this at our disposal, I am excited about what the future will hold for heritage buildings in need of a little TLC.”

**PARA
GRAM**

