



CASE STUDY

How Arcadis Utilized RPG's BLK360 Rental Program

About Arcadis

Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying their deep market sector insights and collective design, consultancy, engineering, project and management services, they work in partnership with their clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. They are 27,000 people active in over 70 countries dedicated to improving the quality of life.

Project Overview

Arcadis tackled a challenging wastewater treatment plant project that involved the routing of several large pipes through an area that was already heavily crowded. The pipes were mainly being routed via underground tunnels, posing another obstacle. Due to these challenges, there was a sizable risk of collecting unreliable dimensions, overlooking crucial details, and making several time consuming trips to the field as a result. Arcadis needed an accurate and efficient solution to design around the existing facilities, while avoiding design conflicts.

Why Choose RPG?

When the time came to explore the option of renting a BLK360 for their project, Arcadis found that RPG provided the most comprehensive package with all necessary peripherals and software to get started. Arcadis also found the pricing to be competitive and the program itself to be flexible. RPG seamlessly worked with the Arcadis legal team to develop terms the company could accept. Arcadis reports the rental package provided, including RPG's BLK360 User Guide, was in excellent condition and enabled Arcadis to quickly get started.

Why Choose the BLK360?

A Process Designer at Arcadis learned about the BLK360 during a BIM training. Another engineer saw a demonstration at a digital boot camp program. Although Arcadis owns several scanners, their purpose is surveying and unlike the BLK360, they do not provide colored point cloud data. In addition to its accuracy, a star feature that attracted them to the BLK360 was its ease of use. Despite being first time users, engineers who completed scans with the BLK360 found it to be user-friendly, with the added help of RPG's BLK360 user





Project Goals

The primary goal Arcadis set out to achieve by utilizing the BLK360 was to avoid any interference by comparing the newly modeled pipe to the point cloud data generated by the BLK360. Additional benefits include:

- Collect accurate measurements and reduce the risk of errors due to inaccessible areas within the project site.
- Improve overall efficiency by avoiding repeated trips to the field.
- Use point cloud data as a reference point to gather additional information as needed.

Results

Arcadis reports they were able to accomplish all of their intended goals with the BLK360. Thus far, the data has enabled them to check for and avoid potential interferences within the heavily crowded area. Additionally, Arcadis found that using the BLK360 has eliminated the need for follow up visits to the site for collecting measurements. The measurements required have already been captured. When asked about the experience renting from RPG, Megan Miranda, a water resource engineer, said the following: "If you're considering purchasing a scanner, but you're not sure about it and want to run a pilot, or even if you just want to rent equipment as needed and don't want to maintain it, I would highly recommend RPG."

Implementation process

RPG ensured the process of Arcadis securing a BLK360 rental would be a straightforward process from start to finish.

Initial Use Case

- Arcadis identified the scope of their project and determined a BLK360 would be an ideal tool.
- Arcadis was not interested in immediately purchasing a BLK360 and opted to look into a rental program to try it first.

Next Phase

- Arcadis chose to initiate a BLK360 rental with RPG's rental program.
- RPG provided the BLK360 rental package, including a specialized tripod needed to fulfill the project.

Final Phase

- Arcadis completed the scans necessary for their project with the BLK360.
- Arcadis used the point cloud data to achieve their objective. They also began to establish a functional workflow for their team to manage and process the data collected by the BLK360.
- Arcadis returned the BLK360 rental package to RPG when the rental period ended.