

High-Performance Camera Captures Immersive Models with AI

Isaiah Pinto | March 8, 2023

The helmets being used during the reconstruction project for the Reynolds/Gray Building project are unlike the common safety helmets.

Produced by Ricoh Theta, the helmet is being mounted with a full 360° camera with 51GBs of storage that captures thousands of images of its surroundings via Bluetooth. The licensing company partnered with the camera is called OpenSpace.

Users can track their movement through the OpenSpace.ai Construction app on a mobile device.

The camera tracks where the user is located with a digital sky view of the building drawings or the building itself through a GPS system. Mentioned before, the camera captures the user's surroundings instantaneously processing thousands of pictures together through AI.

OpenSpace allows users to save their captures by uploading their walkthroughs to the database.

"I can basically walk in any pattern on the floor as long as I tell the app where I started at which saves the user time and effort by not having to walk the exact same path each time," Bradley Klass said.

Klass is the Field Engineer at Turner Construction Company based in Lexington, Kentucky.

The archive is easily accessible because the app synchronizes the models, which allows viewers to access the captures on a mobile device or desktop. This feature is used for online meetings, too providing an easier and clearer visual for both parties, regardless of their location.

In addition to the walkthroughs, users have the option to place pinpoints, and within the pinpoints the user can highlight a spot with a written description or notes on the area.

Another great feature OpenSpace offers is a split screen mode. The OpenSpace database collects an archive of captures, and these models can be decently compared side by side through the split screen function. It can compare progress from months ago to a recent capture.

The Ricoh Theta helmets are changing the game on the jobsite for the Reynolds/Gray Building through their innovative AI technology.

What to Learn More?

[Ricoh Theta 360 Camera](#)
[Openspace.ai](#)

