




# Scan to bim using aerial scanners (UAV)

Digital transformation technologies are changing the AEC and M&E markets. Innovative technologies and processes make it possible to carry out more complex projects, in faster times and at lower costs. This transformation allows those involved in the sector to build better, more efficiently, and achieving higher ROIs

One of these technological advances is SCAN to BIM which have many uses depending on the market and application including construction area or site confirmation, design planning, design verification, design evaluation, MEP Coordination, As-built drawings, remodeling/renovation, quantity takeoffs, budget estimate, digital twins, etc.

MicroCAD Training and Consulting offers Drone/Unmanned Aerial Vehicle (UAV) Photogrammetry, Scanning and Thermal Analysis. We have licensed FAA UAV Pilots on staff, with backgrounds in Land Surveying, Civil Engineering, Architecture and Electrical Engineering.





## Some of the benefits offered by our technology are:

- > Generation of 3D topographical data in a fraction of the time.
- > Capture images for a 75-acre site in just a few hours, process the images into a point cloud, and then generate a Civil 3D surface.
- > Energy-loss detection with the use of thermal cameras.
- > Accuracy, generating models with 0.1-foot horizontal and vertical accuracy.
- > Eliminate the need for survey field crew into challenging terrain.
- > Reduce the chance data errors, reworks, and multiple site visits.



### About MicroCAD

MicroCAD is dedicated to helping people make things. We provide our clients with the best tools – software, training, services, 3d modeling, laser scanning, large format printers and more.

MicroCAD is a team formed by Industry experts from the AEC, Manufacturing and Business worlds. We have been in business for over 30 years, consistently growing and innovating. We work together with our partners and proudly hold titles such as Autodesk Gold Partner and Authorized Training Center, HP Gold Partner and Leica Partner.

MicroCAD has clients located all along the East Coast, headquartered in Boston, MA and operating out of several offices in New York, New England and the mid-Atlantic region.