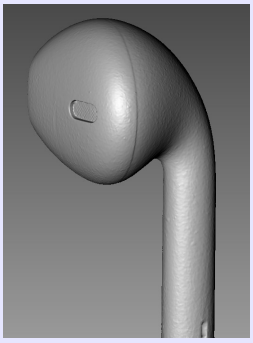
How Small?

Background

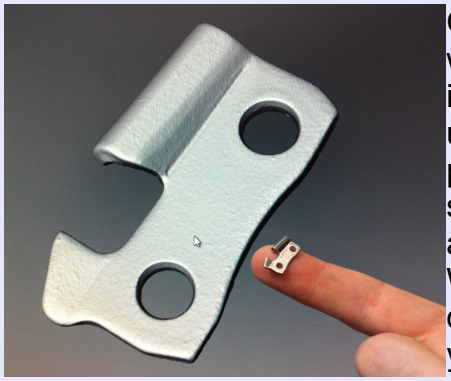
We get a lot of requests for scanning small parts, and a lot of clients want to know just how small we can go. The answer? pretty small. We have been hard at work developing unique processes to capture those small parts with exceptional detail and accuracy, and are always willing to work with clients to help develop new processes to integrate 3D scanning at any scale.



Our Process

For parts smaller than 2” or so, we use a custom built scanner designed specifically for capturing fine detail on very small objects. Surface finish, fixturing and handling are all unique with tiny scans, and require extra care and attention to detail. The 3D scans can show every detail and flaw, even if your eyes cannot. At the smallest, we can capture points ever .0005” (.013mm) which produces extremely fine 3D scan surfaces and resolves fine details like cracks, scratches, tooling marks, metal burs, parting lines, and other subtle details that may assist you in your project.

The Results



Our scanner easily resolves more detail than can be seen with the unaided human eye. 3D scans make it easy to zoom in and investigate tiny parts in ways that would be unimaginable with traditional microscopes or machine vision processes. We can spin and rotate the scan in 3D, cut cross sections, digitally reassemble tiny mechanisms to ensure fit and clearance, and measure features and surface angles We can even compare tiny parts to the original 3D CAD design, to quickly identify manufacturing defects and ensure your parts are being built correctly, no matter how small.