

The Konica Minolta VI-910, Innovation in 3D Digitizing for both Product Design and Manufacturing.

The VI-910 is a non-contact 3-D digitizer, offering fast, precise capture of 3-D shapes. The VI-910 is ideal for applications in both product design and production. The designers find VI-910 invaluable for “reverse engineering” or creating CAD data from physical models and design mock-ups. Production personnel use VI-910 for Inspection and computer-aided dimensional testing (CAT). What's more, VI-910 improves concurrent engineering by inexpensively making 3D data available throughout the enterprise.

Typical Applications of the VI-910

The VI-910 is employed in a variety of industries for the following applications :

Reverse Engineering (RE)/Rapid Prototyping (RP)

- Generation of design CAD data from physical models and data for detecting interference among mechanical parts from mock-ups.
- Generation of data of parts for which 3-D CAD data is unavailable.
- Verification and comparison of competitor's products with in-house products. Database creation.
- Generation and refinement of designs using actual models created through RP.
- Capture of data for finite element analysis.

Inspection (CAT)/CAE

- Alignment verification and dimensional inspection of components such as:
 - metal castings & forgings,
 - tooling dies and molds,
 - plastic parts (pressure formed, rotational molds, injection),
 - sheet metal stampings,
 - wood products,
 - composites and foam products.

Other Applications

- Food production
- Cultural Antiquities cataloging and publishing
- Dental & orthodontic appliances
- Cosmetic & Maxillofacial surgery
- Machine Vision

