

ABSTRACT

3D scanner is a tool used to collect data from the surface of a three dimensional object is scanned, by way of collecting information of the distance from the object so that it can print forms from the objects.. If using a three-dimensional coordinate system then do a relative distance scanner process on the surface of the object and get a variable angle of the object on a 3D scanner. 3 dimensional scanner system created using Infrared as a device to scan an object. Arduino microcontroller is used as a medium for processing data that has been obtained from the results of the scan performed infrared. And for the movement of a mechanical system or infrared scanner to use DC Motors. As for the data obtained in the process of the scanner is in the form of infrared distance to object, and the data is processed by an arduino and are displayed in the Monitor. With the construction of the mechanical system so that it can be shaped visualization form objects are scanned.

Keywords: mechanical system, 3D scanners, Infrared, Arduino, Motor DC.