

ABSTRACT

To provide a picking device capable of accurately specifying a position of a picking target object, two-dimensional captured image data obtained by capturing all of a plurality of picking target objects and three-dimensional point group information are respectively acquired, calibration is executed between the two-dimensional captured image data and the three-dimensional point group information, top surface candidate regions of the plurality of picking target objects are extracted from the three-dimensional point group information, first four-corner coordinate information of each picking target in the two-dimensional captured image data is acquired based on a learned model learned in advance, a picking operation and a transfer operation are controlled based on the first four-corner coordinate information and the three-dimensional point group information, the three-dimensional point group information is reacquired by controlling the three-dimensional camera, coordinate information of four corners related to the picking target object at a time point before picking based on a difference between three-dimensional point group information before and after picking is acquired as second four-corner coordinate information, and a controlled variable of the transfer operation is corrected based on a deviation amount between the first

four-corner coordinate information and the second four-corner coordinate information.