

[ABSTRACT]

SURVEY SYSTEM AND SURVEY METHOD

5 A survey machine capturing control part 203 captures a captured image including a 2D mark previously installed on a survey object of an architecture using a telescope of a survey machine. A survey machine recognizing control part 204 detects a 2D mark image corresponding to the 2D mark in the captured image as a captured pattern, and recognizes a specific identification pattern corresponding to the captured pattern by
10 collating the detected captured pattern with an identification pattern of a 2D mark in a mark information table. A survey machine information displaying control part 205 acquires survey information including set values of 3D coordinates of the survey object, the survey information associated with the specific identification pattern from the mark information table when the recognition of the specific identification pattern is completed, and displays
15 the survey information on the captured image. A calculating control part 206 calculates differences between a mark center position of 2D coordinates of the 2D mark image in the captured image and a center position of 2D coordinates of a crosshair of the telescope. An adjusting control part 207 adjusts a direction of the telescope so that the center position of the crosshair matches the mark center position based on the
20 differences. A ranging control part 208 ranges the mark center position as measured values of coordinates in a state where the center position of the crosshair matched the mark center position using the survey machine. An information storing control part 209 stores the measured values in the mark information table in association with the 2D mark of the specific identification pattern and the set values of the survey information when the
25 ranging is completed.

Fig. 1