

VEHICLE POSITION CONFIRMATION SYSTEM OF PARKING LOT USING IMAGING
METHOD AND CONTROL METHOD THEREOF

ABSTRACT

[93] The present invention relates to a vehicle position
5 confirmation system and a control method thereof, which can
detect a position of a parked vehicle more efficiently using an
image photographed by a camera installed at the top of an outdoor
or ground parking lot. The vehicle position confirmation system
of a parking lot using an imaging method includes: a camera
10 module installed at a top of the parking lot to photograph a
plurality of parking surfaces partitioned in the parking lot; and
an image analysis device for processing an image photographed by
the camera module, in which the camera module includes: an
omnidirectional dual camera provided with a first fisheye lens
15 for photographing a first detection image of all directions and a
second fisheye lens for photographing a second detection image of
all directions; and a plate number recognition camera for
photographing a license plate of a vehicle parked on the
plurality of parking surfaces, and the image analysis device
20 includes a sensing unit for determining whether or not a vehicle
is parked on the plurality of parking surfaces using the first
detection image and the second detection image.

[Fig. 1]