For example, the person information includes an image and feature values of the person who is presumed to have left the target object, a time-point when the person enters the imaging range of the camera 10 (arrival time-point), and a time-point when the person goes out of the imaging range of the camera 10 (departure time-point). Here, the arrival time-point and the departure time-point can be estimated by, for example, performing a tracking process of person using the plurality of video frames 14 generated before and after the video frame 14 in which the person who is presumed to have left the target object is detected, and determining the time-point when the person moved from the place where the target object is placed. In another example, the arrival time-point or the departure time-point may be estimated based on the time-point when the person disappears from the imaging range of the camera 10. A well-known method can be used for the tracking process of person. Note that the movement speed of the person may be determined by the tracking process, and the movement speed may be included in the person information. The moving speed of a person who is estimated to have left the target object can be used to, for example, predict the appearance time-point of the person in other cameras in the vicinity described later.

[0075]

In addition, in a case where the person who is presumed to have left the target object is included in other information regarding person, e.g. blacklist, the person information may include the information of the person indicated in the “other information”.

[0076]

An output destination of a warning is arbitrary. For example, the output destination of the warning is a speaker provided at a vicinity of a surveillance staff who monitors an image of the camera 10 in a security guard room, or a terminal used by the surveillance staff. Here, in a case where the video frame 14 including the target object is displayed on the terminal, an image region of the target object or the person who is presumed to have left the target object may be highlighted. For example, the image region may be framed by a frame, or moreover, the frame may be blinked. In addition, information on a size of the target object may be additionally presented. The size of the object can be estimated by converting the image region of the object into a real-space using calibration information of the camera. The information indicating the size of the target object is useful for determining the risk thereof, when the target object is a dangerous substance such as a bomb. In another example, the output destination of the warning is a terminal used by a security guard performing security at the site. Furthermore, for example, the output destination of the warning may be a terminal used in a predetermined organization such as a security company or the police.