

CLAIMS

What is claimed is:

1. A wine product information management method, wherein the method comprises:
 - acquiring feature information of a target wine product through a camera;
 - uploading the feature information to a cloud server, and matching the feature information with wine product information in the cloud server; and
 - recording the target wine product in the cloud server if target wine product information corresponding to the feature information exists in the cloud server, and sending a recorded result to a user terminal;wherein the method further comprises:
 - constantly acquiring infrared signals for a wine position region by using infrared sensors according to a preset frequency; wherein, an independent one of the infrared sensors is arranged at each wine position of the wine position region;
 - comparing an up-to-date infrared signal with a previous infrared signal; and
 - determining that the wine position region has been occupied by a wine product if it is determined according to a comparison result that the infrared signal has changed, recording position information and time information of the wine position region, and sending the position information and the time information to the cloud server; andthe method further comprises:
 - detecting a face of a user in a warehouse of wine products;
 - tracking the face and recording a face movement trajectory;
 - determining, based on the recorded face movement trajectory, a behavior of the user as taking the wine product out of the warehouse or storing the wine product into the warehouse;
 - comparing information across a plurality of cameras to determine positioning information of the wine product operated by the user.
2. The method according to claim 1, wherein the acquiring feature information of a target wine product through a camera comprises:
 - acquiring video information of the target wine product through the camera;
 - identifying basic information of the wine product from the video information by using an artificial intelligence dynamic image recognition algorithm, the basic information comprising a brand, a model, and year of manufacturing of the wine product; and
 - using the basic information of the wine product as the feature information of the wine product.

3. The method according to claim 1, wherein the acquiring feature information of a target wine product through a camera comprises:

acquiring picture information of the target wine product through the camera;

identifying text information on the wine product from the picture information by using an OCR algorithm, the text information comprising a brand, a product name, and date of manufacturing of the wine product; and

using the text information of the wine product as the feature information of the wine product.

4. The method according to any one of claims 1 to 3, wherein the uploading the feature information to a cloud server, and matching the feature information with wine product information in the cloud server comprises:

uploading the feature information to the cloud server, and matching the feature information with the wine product information in the cloud server; and

the target wine product information corresponding to the feature information existing in the cloud server if at least two types of target wine product information matching the feature information exist in the wine product information in the cloud server.

5. A wine product information management apparatus, wherein the apparatus comprises:

a first acquisition unit configured to acquire feature information of a target wine product through a camera;

an uploading and matching unit configured to upload the feature information to a cloud server, and match the feature information with wine product information in the cloud server; and

a first recording and sending unit configured to record the target wine product in the cloud server if target wine product information corresponding to the feature information exists in the cloud server, and send a recorded result to a user terminal;

a wine product positioning unit configured to: constantly acquire infrared signals for a wine position region by using infrared sensors according to a preset frequency; compare an up-to-date infrared signal with a previous infrared signal; and determine that the wine position region has been occupied by a wine product if it is determined according to a comparison result that the infrared signal has changed, record position information and time information of the wine position region, and send the position information and the time information to the cloud server; wherein, an independent one of the infrared sensors is arranged at each wine position of the wine position region;

wherein, the wine product information management apparatus is further configured to:

detect a face of a user in a warehouse of wine products;
track the face and record a face movement trajectory;
determine, based on the recorded face movement trajectory, a behavior of the user as taking the wine product out of the warehouse or storing the wine product into the warehouse;
compare information across a plurality of cameras to determine positioning information of the wine product operated by the user.

6. The apparatus according to claim 5, wherein the first acquisition unit comprises:

a first acquisition subunit configured to acquire video information of the wine product through the camera;

a first identification unit configured to identify basic information of the wine product from the video information by using an artificial intelligence dynamic image recognition algorithm, the basic information comprising a brand, a model, and year of manufacturing of the wine product; and

a first execution unit configured to use the basic information of the wine product as the feature information of the wine product.

7. The apparatus according to claim 5, wherein the first acquisition unit comprises:

a second acquisition subunit configured to acquire picture information of the wine product through the camera;

a second identification unit configured to identify text information on the wine product from the picture information by using an OCR algorithm, the text information comprising a brand, a product name, and date of manufacturing of the wine product; and

a second execution unit configured to use the text information of the wine product as the feature information of the wine product.

8. A computer device, comprising a memory, a processor, and a computer program stored on the memory and capable of running on the processor, wherein the processor, when executing the computer program, implements the wine product information management method according to any one of claims 1 to 4.

9. A computer-readable storage medium, wherein the computer-readable storage medium stores one or more computer programs, the one or more computer programs being executable by one or more processors to implement the wine product information management method according to any one of claims 1 to 4.